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FACULTE DE DROIT, SCIENCES ECONOMIQUES ET GESTION

INSTITUT D'ADMINISTRATION DES ENTREPRISES

CENTRE REGIONAL DE DOCUMENTATION SUR LA GESTION
Groupe I.G.N.

MOTIVATIONS ET EFFICACITE DES OFFRES PUBLIQUES D'ACHAT ET D'ECHANGE EN FRANCE DE 1970 à 1990

Thèse présentée et soutenue en vue du Doctorat Nouveau Régime ès Sciences de gestion le 5 Janvier 1994

par Jérôme CABY

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TOME II : ANNEXES

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ANNEXES

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Les annexes sont constituées, pour l'essentiel, par des documents de nature statistique correspondant aux différentes motivations empiriques qui sont analysées dans la troisième partie :

- **Les motivations explicites** : annexes n° 1 à n° 24
- **Les motivations implicites** : annexes n° 25 à n° 37
- **Les raisons implicites** : annexes n° 38 à n° 49
- **Les stratégies implicites** : annexes n° 50 à n° 54
- **L'efficacité** : annexes n° 55 à n° 58

Les documents statistiques sont les "sorties" informatiques proposées par les différents logiciels utilisés (SPAD.T., SPAD.N., STATISTICA, SYSTAT) en fonction des outils statistiques privilégiés.

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ANNEXE n° 1

LES MOTIVATIONS EXPLICITES

LA CORRESPONDANCE ENTRE LES OPERATIONS ETUDIEES ET LEURS IDENTIFICATEURS INFORMATIQUES

ACCOR, SARI/CNIT (1986)	ACCO
Acteon/Loca Investissement (1990)	ACTE
Aga AktieBolag/Duffour & Igon (1987)	AGAA
Agefi Dévelop./DAFSA (1989)	AGEF
Arjomari Prioux/Guerimaud Voiron (1988)	AJUX
Altus Finance/Calciphos (1990)	ALFI
L'Allobroge/Grand Bazar de Lyon (1980)	ALLO
Altus Finance/Bafip (1990)	ALTU
Amidis/Docks Ardennais (1979)	AMID
Ardoisières d'Angers/Larivière et Sicoma (1987)	ARDO
Arjomari Prioux/Papeteries Canson & Montgolfier (1976)	ARJO
Brasseries Artois/Brasseries et Malteries Motte Cordonnier (1970)	ARTO
Aurea/Guitel Etienne Mobilor (1988)	AURE
Auxiliaire d'entreprises/Sté Ent. T.P. A. Borie (1980)	AUXE
Axa Midi/Drout Assurances, La Paternelle, Présence Vie et Présence	AXAM
Assurances... (1989)	AXAM
Azko/Astral (1974)	AZKO
Azko Pharma/RETI (1977)	AZKP
MM.Baizeau,.../Schwich & Baizeau (1986)	BAIZ
Sté Financière Bayard/Rizières Indochinoises (1975)	BAYA
Bennes Marrel/Decauville (1972)	BENN
BFCE et BUO Fra et Can/UFINEX (1985)	BFCE
BIC/Flaminaire-Marcel Quercia (1971)	BICF
BIDERMANN/RADAR (1986)	BIDE
Bolloré Technologies/Sofical (1986)	BOLL
Talcs de Luzenac/Borax Français (1988)	BORA
Saint-Louis Bouchon/Lesieur (1986)	BOUC
Bouygues, Accor, sari/CNIT (1986)	BOUY
Banque Pallas/Locafinancière (1990)	BQPA
BUE/Lloyd Continental (1977)	BUEL
Cambon Participations et Cegea/La Paternelle SA (1975)	CAMB
Ets Canus & Cie/Docks du Nord les Eco (1976)	CANU
CAP GROUP/SEMA MATRA (1988)	CAPG
Carburos Metalicos/Duffour & Igon (1987)	CARB
CDF Chimie/Ripolin Georget Freitag (1975)	CDFC
CDF Chimie/Huiles, Goudrons et dérivés (1978)	CDFH
CEDIS/Economiques Troyens et Docks Réunis (1977)	CEDI
CEGID/CCMC (1987)	CEGI
CERUS & Pechelbronn/Presses de la Cité (1986)	CERU
CFAO/La Ruche Méridionale (1989)	CFAO
Cogifo/SAP (1989)	CFEO
CFP/Auxiliaire de Navigation (1978)	CFPA
CGEE Alsthom/Cie Gale d'Electronique Industrielle Lepaute (1972)	CGEE
CGV/SCOR ET UAP (1989)	CGVS

Cie Industrielle de Chiers Chatillon/Aciéries et Tréfileries	CHAT
Neuves-Maisons Chatillon (1976)	CHAT
Cie Industrielle Devt. de l'Est/Constructions Electriques de Nancy (1989)	CIDE
CIGA Hotels/Sté du Grand Hôtel (1972)	CIGA
Cie de la Hénin/Banque de la Hénin (1971)	CIHE
Cie du Midi/Immeuble Plaines Monceau, Clause... (1988)	CIMI
Cie de Saint-Gobain PAM/et SPAMCO (1972)	CIPM
Cie Navigation Mixte/Rhin & Moselle Vie (1988)	CNAX
Cie Bancaire/COFICA (1970)	COBA
Comindus/Foncière Tiard (1977)	CODU
Cogepa/Cofifa (1990)	COGE
Cie de Saint-Gobain PAM/COMAP (1971)	COGO
Cie de Saint-Gobain PAM/Fonderies PAM (1971)	COMO
Comptoirs Modernes/Economique de Rennes (1977)	COMP
Cie de Saint-Gobain PAM/SOCEA (1971)	COPO
Cie de Saint-Gobain PAM/Everitube (1971)	COSA
Société Financière Darty/Ets Darty & Fils (1988)	DART
Sté Navale Delmas Vieljeux/Navigation Mixte (1977)	DELM
Denain Nord-Est Longwy/Marine Firminy (1974)	DENA
Docks de France/La Ruche Picarde (1980)	DOCK
Docks de France/Economats du Centre (1989)	DOFA
Dollfus-mieg & Cie/Sté Gle de Filatures et Tissages de Flers (1971)	DOLL
EBF/Luchaire (1987)	EBFA
Elbelco/Hydrocarbures de Saint-Denis (1990)	ELBE
Electro Financière/Sintra (1977)	ELEC
ELF France/Rhin Rhône (1988)	ELFF
Emerson Europe/Leroy Somer (1990)	EMER
Enelfi Bretagne/Cie Franco Marocaine (1985)	ENEL
Sté Générale des Engrais/Sté des Fertilisants de l'Ouest (1972)	ENGR
Erap (Elf)/Socantar (1970)	ERAP
CERUS/Duménil Leblé (1989)	ERUS
Euris/Gpe Monot (1989)	EURI
Inter Europe Conseil/Sogenal (1989)	EURO
Cie Fin Paribas/OPB Paribas (1988)	FIBA
Cie Fin Paribas/OPFI Paribas (1988)	FIPA
Floronor (Clause)/Production Grainière (1973)	FLOR
Fonderies de PAM/Fonderies de Bayard (1971)	FOND
Ford Motor Cy/Richier (1972)	FORD
Fougerolle/Chimique de la route (1973)	FOUG
Framatome/Télémécanique (1988)	FRAM
France Participations S.A/Production Grainière (1973)	FRAN
GAZ ET EAUX/EEOA (1976)	GAZE
Gale des Eaux/SAHIDE (1987)	GEEA
Gefinec/TRT (1989)	GEFC

Gefina/EBF (1988)	GEFI
Générale Occidentale/Sté des Glacières de Paris (1972)	GENO
Gale Occidentale/Presses de la Cité (1986)	GEOX
Gale Industrie et de Participations/SITRAM (1981)	GIEP
Gale Occidentale/Gale Alimentaire (1976)	GOCC
Sté du Grand Hôtel/Sté Hôtel Maurice et S.I.H. (1972)	GRAN
GTI/CITRAM (1988)	GTIC
Harris intertype corp/Marinoni (1970	HARR
Brasseries Heineken/Brasserie de l'Espérance (1972)	HEIN
Heineken B.V./Albra (1975)	HEKE
Ets A. Herlicq et Fils/CIEL et Franco-belge (1973)	HERL
Hoesh/Defontaine (1990)	HOES
International CPU/Computel (1988)	ICPV
Cidem/Mines de la Lucette (1990)	IDEM
IDI/Petits Fils de Léonard Danel (1979)	IDIP
Immobilière Foncière de Paris/Cofifa (1990)	IMFP
ITT/Océanic (1977)	ITTO
Jacques Borel Int./Sofitel (1975)	JACQ
Jallatte/Adolphe Lafont (1987)	JALL
Azko Chemicals & Kali Chemir/Européenne Souffres Industriels (1988)	KALI
Sofimo (Lafarge)/Ciments du Nord (1975)	LAFA
Cie La Hénin/COGEFIMO et SOFINCO (1973)	LAHE
Cie Lebon/Comsip Entreprise (1975)	LEBO
Sté Fin. Berger Levrault/Impr. et Libr. Berger Levrault (1989)	LEVR
Linde A.G./Duffour & Igon (1987)	LIND
Luchaire/Permali (1978)	LUCH
Lyonnaise des Eaux/UFINER (1988)	LYON
MAAF/BHE (1985)	MAAF
Cie Gale Maritime et Financière/Cie Gale Maritime (1977)	MAFI
Magnant/Emgp (1990)	MAGN
Maison G. Thomas/CPC (1989)	MAIS
Merlin Gérin/Ateliers de Constructions Electriques de Metz (1973)	MERL
The Metal Box Cy/SCERA (1973)	META
Cie du Midi et AGP/Providence S.A. (1986)	MIDI
Sté Gale, Midland, AGP/BHE (1985)	MIDL
Mines de Bitume et d'Asphalte du Centre / FEREM (1974)	MINE
Navigation Mixte/Le Monde S.A. (1977)	MIXT
Comptoirs Modernes/Major (1989)	MODE
Moët-Hennessy/Champagne Pommery et Greno (1973)	MOET
Fonderies de Montupet S.A./Fonderie de Précision (1976)	MONT
Sté Mosellanne de Participation/PFG (1982)	MOSE
Mossley/Badin (1988)	MOSS
Grands Moulins de Pantin/Malteries Franco-Belges (1980)	MOUL
Mumm Seagramm/Martell (1988)	MUMM

Navigation Mixte/GTI (1983)	NAMI
Navigation Mixte/Cotelle & Foucher (1977)	NAVI
Sofexi et NCPI/Bernard Moteurs (1972)	NCPI
Nestlé Alimentana/Claudel (1975)	NEST
Martin & Cie (1980)	NEUI
Sté Immobilière de Lyon, Neuilly Saint-Paul/Sté Lyonnaise Immo	NEUI
Navigation Mixte/Fichet Bauché (1987)	NGXT
Le Nickel/Cie de Mokta (1970)	NICK
NSM/Sucomad (1980)	NSMS
Générale Occidentale/Cie Financière Haussmann (1974)	OCCI
Ofiges/GFC (1989)	OFIG
OGIC/Air Industrie (1974)	OGIC
Olida Participations - OLIPAR/LUCIA (1988)	OLID
Omnium Français et Pétroles/Auxiliaire de Navigation (1974)	OMNI
OPFI Paribas/Sté Métallurgique de Gorcy (1971)	OPFI
Otis Elevator/Sté des Ets Baudet Donon et Roussel (1972)	OTIS
OPFI Paribas/Alsetex (1973)	PABA
Pallas Equation/Frandev (1990)	PAEQ
Cie St-Gobain PAM/Quartz & Silice (1977)	PAMG
Int. Paper/Aussedat Rey (1989)	PAPE
Ets Paritzky/Woold Mine S.A. (1970)	PARI
La Paternelle S.A. / La Paternelle R/D et Vie	PATE
La Prévoyance R.D. et Vie (1972)	PATE
Paribas/Navigation Mixte (1989)	PBAS
Pechiney/Carbone Lorraine (1985)	PECH
Petrofina/I.P.A. (1990)	PEFI
Pernod Ricard/Cusenier et Distilleries Réunies (1975)	PERN
Pfizer Corp./Coty (1971)	PFIZ
Poliet/Lambert Frères (1989)	POLI
Poulain Industries/Banania (1981)	POUL
PPG Industries/Corona (1983)	PPGI
Primistères/Radar (1986)	PRIM
Au Printemps/Paris - France (1979)	PRIN
PUK/Cefilal (1976)	PUKC
PUK/Seichime (1976)	PUKS
RADAR/Paris France (1979)	RADA
Cie Française de Raffinage/Les Fils Charvet (1977)	RAFF
Rallye/Ruche Méridionale (1989)	RALL
Raytheon Cy/Le Fil Dynamo (1976)	RAYT
Rémy & Associés/Bénédictine (1988)	REMY
Richardson Merrel inc/Sté Merrel Torcande	RICH
Grand Metropolitan/Martell (1988)	ROPO
Martini & Rossi/Bénédictine (1988)	ROSS
Safitex/Delcer Industries (1972)	SAFI

Samvac/Cofifa (1990)	SAMC
Samvac/Immobilière Mallet (1989)	SAMV
Financière Saulnes Chatillon /ENELFI Bretagne (1988)	SAUL
Schlumberger Ltd/Cie des Compteurs (1975)	SCHL
Schneider/Télémécanique (1988)	SCHN
SCOA/Sté Eurafricaine Pharmaceutique (1988)	SCOA
SCREG/Mines de Bitume et d'Asphate du Centre (1972)	SCRE
SEAGRAM/MUMM (1985)	SEAG
Selecta S.A./SAFAA (1990)	SELE
Selincourt ltd/Tricosa (1972)	SELI
SEV Marchal/Paris-Rhône (1977)	SEVM
SFPIC/La Ruche Picarde (1980)	SFPI
SGE/Cochery-Bourdin et Chaussé (1988)	SGEC
SIMER/CGTAP (1973)	SIME
Sté Immo Hôtelière/SOCIF (1987)	SIMH
SODEXHO/jacques Borel (1982)	SODE
Sofical/Rhin Rhône (1988)	SOFI
Soparphac/Labo Sarbach (1975)	SOPA
Société de Prayon/Seco (1970)	SOPR
Ets J.SOUFFLET/COSTIMEX (1986)	SOUF
Nestlé/Lait Montblanc (1980)	STLE
Cie Fse de Produits Chimiques et Industriels du Sud-Est/	SUDE
Lorilleux Lefranc (1975)	SUDE
Cie Fin. SUEZ/Cie Industrielle (1989)	SUEZ
Bernard Taillan/Etoile Participation (1979)	TAIL
Gle Occidentale/Cogifi (1985)	TALE
Thomson CSF/Sintra (1985)	TCSF
Printemps S.A./La Redoute (1988)	TEMP
Thomson Brandt/SFTE (1977)	THOM
Thorn Emi/Holophane (1988)	THOR
TJS Invest. / Cheval Blanc (1989)	TJSI
Total CFP/Total France (1988)	TOTA
Trindel/Forclum (1975)	TRIN
Bayas Tudjuh (AXA)/Providence S.A. (1985)	TUDJ
UCB/CFEC (1972)	UCBC
UFB/Locabail (1978)	UFBL
Union Carbide/Duffour & Igon (1987)	UNIO
Finarfi/Union Laitière Normande (1970)	UNLA
Union de participation/Société Générale Foncière (1970)	UPAR
VALEO/EBF (1988)	VALE
Vishay Int./Sfernice (1988)	VISH
Louis Vuitton/Veuve Clicquot (1986)	VUIT

ANNEXE n° 2

LES MOTIVATIONS EXPLICITES

LA PRESENTATION DETAILLEE DES OPERATIONS

5 variables ont été utilisées pour caractériser l'échantillon étudié : la date de l'opération, la nature de l'opération, le mode de paiement, l'aspect concurrentiel et la concrétisation de l'opération. Ces variables ont été utilisées comme variables illustratives lors de l'A.F.C. pour décrire les classes obtenues par la partition. Pour connaître le sens des différentes modalités (1, 2, 3) on se reportera au 2.4.1.2.3.

Operations	DATE	Nature	Mode paiemen	Concurrence	Concrétisatio
ACCO	3	1	1	2	2
ACTE	3	2	1	1	1
AGAA	3	1	1	3	1
AGEF	3	2	2	1	1
AJUX	3	2	3	1	1
ALFI	3	2	1	1	1
ALLO	1	1	1	1	2
ALTU	3	1	1	1	1
AMID	1	2	3	1	1
ARDO	3	2	2	1	1
ARJO	1	2	1	1	1
ARTO	1	2	1	1	1
AURE	3	1	1	1	1
AUXE	1	2	1	1	1
AXAM	3	2	2	1	1
AZKO	1	2	2	1	1
AZKP	1	2	1	1	1
BAIZ	3	1	1	3	1
BAYA	1	2	1	1	1
BENN	1	2	1	1	1
BFCE	3	2	1	1	1
BICF	1	2	1	1	1
BIDE	3	1	1	3	2
BOLL	3	2	2	1	1
BORA	3	1	1	3	1
BOUC	3	2	2	1	1
BOUY	3	2	1	3	1
BPQA	3	2	1	1	1
BUEL	1	2	1	1	1
CAMB	1	2	2	1	1
CANU	1	2	1	1	1
CAPG	3	2	2	1	1
CARB	3	2	1	3	2
CDFC	1	2	1	3	1
CDFH	1	2	2	1	1
CEDI	1	2	1	1	1
CEGI	3	1	2	1	1
CERU	3	1	2	2	2
CFAO	3	2	3	3	1
CFEO	3	2	1	1	1
CFPA	1	2	2	1	1
CGEE	1	2	1	1	1
CGVS	3	2	2	1	1
CHAT	1	2	2	1	1
CIDE	3	1	1	1	1
CIGA	1	2	1	1	1
CIHE	1	2	2	1	1
CIMI	3	2	2	1	1
CIPM	1	2	2	1	1
CNAX	3	2	2	1	1
COBA	1	2	2	1	1

CODU	1	2	2	1	1
COGE	3	2	1	3	2
COGO	1	2	2	1	1
COMO	1	2	2	1	1
COMP	1	2	2	1	1
COPO	1	2	2	1	1
COSA	1	2	2	1	1
DART	3	2	1	1	1
DELM	1	1	1	1	2
DENA	1	1	2	1	2
DOCK	1	2	2	2	1
DOFA	3	2	1	1	1
DOLL	1	2	2	1	1
EBFA	3	2	2	1	1
ELBE	3	2	1	1	1
ELEC	1	2	2	1	1
ELFF	3	2	3	3	2
EMER	3	2	1	1	1
ENEL	3	2	2	1	1
ENGR	1	2	1	1	1
ERAP	1	2	1	1	1
ERUS	3	2	2	1	1
EURI	3	2	1	1	1
EURO	3	2	2	1	1
FIBA	3	2	2	1	1
FIPA	3	2	2	1	1
FLOR	1	2	1	3	1
FOND	1	2	1	1	1
FORD	1	2	1	1	1
FOUG	1	2	2	1	1
FRAM	3	2	1	3	2
FRAN	1	1	1	2	2
GAZE	1	2	1	1	1
GEEA	3	2	2	1	1
GEFC	3	2	1	1	1
GEFI	3	2	1	3	1
GENO	1	2	1	1	1
GEOX	3	2	2	3	1
GIEP	2	2	1	1	1
GOCC	1	2	2	1	1
GRAN	1	2	1	1	1
GTIC	3	1	1	1	1
HARR	1	2	1	1	1
HEIN	1	2	1	1	1
HEKE	1	2	1	1	1
HERL	1	2	2	1	1
HOES	3	2	1	1	1
ICPU	3	2	2	1	1
IDEM	3	2	1	1	1
IDIP	1	2	1	1	1
IMFP	3	1	1	3	1
ITTO	1	2	1	1	1

JACQ	1	2	2	1	1
JALL	3	2	1	1	1
KALI	3	2	1	1	1
LAFA	1	2	2	1	1
LAHE	1	2	2	1	1
LEBO	1	2	1	1	1
LEVR	3	2	1	1	1
LIND	3	1	1	3	2
LUCH	1	2	2	1	1
LYON	3	2	2	1	1
MAAF	3	1	1	2	1
MAFI	1	2	2	1	1
MAGN	3	2	1	1	1
MAIS	3	2	2	1	1
MERL	1	1	1	1	2
META	1	2	1	1	1
MIDI	3	2	2	3	2
MIDL	3	2	1	3	2
MINE	1	2	2	1	1
MIXT	1	2	2	1	1
MODE	3	2	3	1	1
MOET	1	1	2	1	2
MONT	1	2	2	1	1
MOSE	2	2	2	1	1
MOSS	3	2	1	1	1
MOUL	1	2	1	1	1
MUMM	3	2	1	3	1
NAMI	2	2	2	1	1
NAVI	1	2	2	1	1
NCPI	1	2	1	1	1
NEST	1	2	1	1	1
NEUI	1	2	2	1	1
NGXT	3	2	2	1	1
NICK	1	2	2	1	1
NSMS	1	2	1	1	2
OCCI	1	2	2	1	1
OFIG	3	2	3	1	1
OGIC	1	2	2	1	1
OLID	3	2	2	1	1
OMNI	1	2	2	1	1
OPFI	1	2	1	1	1
OTIS	1	2	1	1	1
PABA	1	2	1	1	1
PAEQ	3	2	2	1	1
PAMG	1	2	1	1	1
PAPE	3	2	1	1	1
PARI	1	2	1	1	1
PATE	1	2	2	1	1
PBAS	3	1	3	1	1
PECH	3	2	1	1	1
PEFI	3	2	1	1	1
PERN	1	2	2	1	1

PFIZ	1	2	1	1	1
POLI	3	2	1	1	1
POUL	2	2	1	1	1
PPGI	2	2	1	1	1
PRIM	3	2	1	2	1
PRIN	1	1	1	2	2
PUKC	1	2	2	1	1
PUKS	1	2	2	1	1
RADA	1	2	1	3	1
RAFF	1	2	1	1	1
RALL	3	1	1	2	2
RAYT	1	2	1	1	1
REMY	3	1	1	2	2
RICH	1	2	1	1	1
ROPO	3	1	1	2	2
ROSS	3	2	1	3	1
SAFI	1	2	1	1	1
SAMC	3	2	1	2	2
SAMV	3	1	1	1	2
SAUL	3	2	3	1	1
SCHL	1	2	1	1	1
SCHN	3	1	1	2	1
SCOA	3	2	3	1	1
SCRE	1	2	2	1	1
SEAG	3	2	1	1	1
SELE	3	2	1	1	1
SELI	1	2	1	1	1
SEVM	1	2	2	1	1
SFPI	1	1	1	3	2
SGEC	3	2	2	1	1
SIME	1	2	2	1	1
SIMH	3	2	3	1	1
SODE	2	1	2	3	2
SOFI	3	1	1	2	1
SOPA	1	2	1	1	1
SOPR	1	2	1	1	1
SOUF	3	2	1	1	1
STLE	1	2	1	1	1
SUDE	1	2	2	1	1
SUEZ	3	1	1	1	1
TAIL	1	1	1	3	2
TALE	3	2	2	1	1
TCSF	3	2	1	1	1
TEMP	3	2	3	1	1
THOM	1	2	2	1	1
THOR	3	1	1	2	1
TJSI	3	2	1	1	1
TOTA	3	2	1	1	1
TRIN	1	2	2	1	1
TUDJ	3	1	1	2	1
UCBC	1	2	2	1	1
UFBL	1	2	2	1	1

UNIO	3	1	1	2	2
UNLA	1	2	1	1	1
UPAR	1	2	2	1	1
VALE	3	1	1	2	2
VISH	3	2	3	1	1
VUIT	3	2	2	1	1

ANNEXE N° 3

LES MOTIVATIONS EXPLICITES

LE CODAGE DES NOMS PROPRES

Les noms propres représentatifs des raisons sociales des sociétés citées dans les textes ont été codées afin de parvenir à une homogénéité au travers des différents textes.

On trouvera, ci-dessous, la signification des différents codes utilisés :

- *initx* : Nom de la firme initiatrice de l'offre publique.

- *inity* : Si une offre publique a été initiée conjointement par deux sociétés, la deuxième a été codée inity.

- *initz* : Dans le cas où il existe une offre concurrente, la société initiatrice est codée initz.

- *visex* : Nom de la firme cible de l'offre publique.

- *visey (visez, visew)* : Si l'offre publique a porté conjointement sur plusieurs sociétés cibles, elles ont été codées successivement visey, visez, visew.

- *merex, merey, merez* : Noms des sociétés mères respectives des initx, inity, initz.

- *merea, mereb, merec, mered* : Noms des sociétés mères respectives de visex, visey, visez, visew.

- *filix, filiy, filiz* : Noms des sociétés filiales respectives de initx, inity, initz.

- *filia, filib, filic, filid* : Noms des sociétés filiales respectives de visex, visez, visez, visew.

- *comx* : Noms des sociétés communes/ conjointes à initx et visex.

- *fusix* : Nom d'une fusion de sociétés ayant permis de créer initx.

- *tierx* : Nom des firmes tiers.

ANNEXE n° 4

LES MOTIVATIONS EXPLICITES

LA DESCRIPTION STATISTIQUE DES TEXTES RETRAITES
(la répartition des termes dans les textes)

REPARTITION DES TERMES DANS LES TEXTES

NUMERO DU TEXTE	IDENTIFICATEUR	NOMBRE DE MOTS	/1000 DU TOTAL	MOYENNE PAR REPONSE	NOMBRE DE MOTS DISTINCTS	/1000 MOTS DU TEXTE	NOMBRE DE MOTS RETENUS
1	= acco	266	8.1	266.0	38	142.9	87
2	= agaa	109	3.3	109.0	37	339.4	65
3	= ajux	260	7.9	260.0	63	242.3	138
4	= allo	187	5.7	187.0	46	246.0	102
5	= amid	70	2.1	70.0	28	400.0	37
6	= ardo	134	4.1	134.0	44	328.4	81
7	= arjo	341	10.4	341.0	69	202.3	169
8	= arto	75	2.3	75.0	35	466.7	49
9	= auxe	42	1.3	42.0	21	500.0	27
10	= azko	41	1.3	41.0	18	439.0	26
11	= azkp	113	3.5	113.0	36	318.6	72
12	= baiz	59	1.8	59.0	22	372.9	33
13	= baya	140	4.3	140.0	38	271.4	83
14	= benn	81	2.5	81.0	28	345.7	42
15	= bfce	86	2.6	86.0	26	302.3	48
16	= bicf	55	1.7	55.0	25	454.5	38
17	= bide	57	1.7	57.0	27	473.7	36
18	= boll	125	3.8	125.0	38	304.0	89
19	= bora	316	9.6	316.0	63	199.4	181
20	= bouc	123	3.8	123.0	46	374.0	81
21	= bouy	267	8.2	267.0	37	138.6	86
22	= buel	20	.6	20.0	13	650.0	13
23	= camb	407	12.4	407.0	61	149.9	215
24	= canu	243	7.4	243.0	57	234.6	128
25	= capg	341	10.4	341.0	73	214.1	178
26	= carb	285	8.7	285.0	60	210.5	147
27	= cdfc	222	6.8	222.0	57	256.8	117
28	= cdfh	159	4.9	159.0	35	220.1	62
29	= cedi	179	5.5	179.0	42	234.6	77
30	= cegi	249	7.6	249.0	58	232.9	120
31	= ceru	106	3.2	106.0	34	320.8	53
32	= cfpa	169	5.2	169.0	53	313.6	106
33	= cgee	172	5.3	172.0	47	273.3	101
34	= chat	173	5.3	173.0	38	219.7	59
35	= ciga	132	4.0	132.0	43	325.8	72
36	= cihe	36	1.1	36.0	20	555.6	29
37	= cimi	169	5.2	169.0	45	266.3	92
38	= cipm	125	3.8	125.0	34	272.0	80
39	= cnax	420	12.8	420.0	72	171.4	241
40	= coba	216	6.6	216.0	53	245.4	111
41	= codu	188	5.7	188.0	50	266.0	117
42	= cogo	46	1.4	46.0	20	434.8	26
43	= como	31	.9	31.0	15	483.9	18
44	= comp	97	3.0	97.0	38	391.8	50
45	= copo	26	.8	26.0	15	576.9	17
46	= cosa	28	.9	28.0	15	535.7	17
47	= dart	208	6.4	208.0	45	216.3	115
48	= delm	508	15.5	508.0	73	143.7	219
49	= dena	69	2.1	69.0	26	376.8	34
50	= dock	230	7.0	230.0	48	208.7	106
51	= doll	74	2.3	74.0	25	337.8	31
52	= ebfa	77	2.4	77.0	27	350.6	48
53	= elec	117	3.6	117.0	43	367.5	80
54	= elff	207	6.3	207.0	54	260.9	116
55	= enel	127	3.9	127.0	42	330.7	74
56	= engr	71	2.2	71.0	32	450.7	48

57 = erap	* 95	2.9	95.0	* 34	357.9	* 57	*	
58 = fiba	* 124	3.8	124.0	* 38	306.5	* 75	*	
59 = fipa	* 102	3.1	102.0	* 33	323.5	* 60	*	
60 = flor	* 93	2.8	93.0	* 23	247.3	* 49	*	
61 = fond	* 67	2.0	67.0	* 27	403.0	* 47	*	
62 = ford	* 110	3.4	110.0	* 31	281.8	* 60	*	
63 = foug	* 78	2.4	78.0	* 28	359.0	* 42	*	
64 = fran	* 32	1.0	32.0	* 18	562.5	* 20	*	
65 = gaze	* 276	8.4	276.0	* 55	199.3	* 152	*	
66 = geea	* 124	3.8	124.0	* 43	346.8	* 79	*	
67 = gefi	* 199	6.1	199.0	* 47	236.2	* 111	*	
68 = geno	* 53	1.6	53.0	* 26	490.6	* 39	*	
69 = geox	* 123	3.8	123.0	* 38	308.9	* 74	*	
70 = giep	* 77	2.4	77.0	* 31	402.6	* 51	*	
71 = gocc	* 114	3.5	114.0	* 30	263.2	* 85	*	
72 = gran	* 126	3.8	126.0	* 37	293.7	* 64	*	
73 = gtic	* 441	13.5	441.0	* 75	170.1	* 198	*	
74 = harr	* 65	2.0	65.0	* 28	430.8	* 37	*	
75 = hein	* 276	8.4	276.0	* 58	210.1	* 149	*	
76 = heke	* 112	3.4	112.0	* 39	348.2	* 58	*	
77 = herl	* 160	4.9	160.0	* 48	300.0	* 95	*	
78 = icpv	* 173	5.3	173.0	* 52	300.6	* 101	*	
79 = idip	* 78	2.4	78.0	* 33	423.1	* 53	*	
80 = itto	* 91	2.8	91.0	* 46	505.5	* 61	*	
81 = jacq	* 222	6.8	222.0	* 45	202.7	* 103	*	
82 = jall	* 109	3.3	109.0	* 32	293.6	* 70	*	
83 = kali	* 64	2.0	64.0	* 23	359.4	* 36	*	
84 = lafa	* 55	1.7	55.0	* 26	472.7	* 41	*	
85 = lahe	* 131	4.0	131.0	* 49	374.0	* 82	*	
86 = lebo	* 219	6.7	219.0	* 42	191.8	* 102	*	
87 = lind	* 127	3.9	127.0	* 40	315.0	* 77	*	
88 = luch	* 66	2.0	66.0	* 30	454.5	* 38	*	
89 = lyon	* 160	4.9	160.0	* 44	275.0	* 92	*	
90 = maaf	* 100	3.1	100.0	* 31	310.0	* 47	*	
91 = mafi	* 245	7.5	245.0	* 44	179.6	* 146	*	
92 = merl	* 304	9.3	304.0	* 57	187.5	* 173	*	
93 = meta	* 64	2.0	64.0	* 22	343.8	* 28	*	
94 = midi	* 194	5.9	194.0	* 51	262.9	* 102	*	
95 = midl	* 129	3.9	129.0	* 47	364.3	* 75	*	
96 = mine	* 186	5.7	186.0	* 56	301.1	* 98	*	
97 = mixt	* 129	3.9	129.0	* 39	302.3	* 75	*	
98 = moet	* 135	4.1	135.0	* 46	340.7	* 71	*	
99 = mont	* 321	9.8	321.0	* 62	193.1	* 169	*	
100 = mose	* 178	5.4	178.0	* 33	185.4	* 54	*	
101 = moss	* 162	4.9	162.0	* 38	234.6	* 93	*	
102 = moul	* 130	4.0	130.0	* 47	361.5	* 65	*	
103 = occi	* 163	5.0	163.0	* 47	288.3	* 109	*	
104 = ogic	* 53	1.6	53.0	* 18	339.6	* 32	*	
105 = olid	* 187	5.7	187.0	* 51	272.7	* 109	*	
106 = omni	* 115	3.5	115.0	* 38	330.4	* 54	*	
107 = opfi	* 34	1.0	34.0	* 19	558.8	* 26	*	
108 = otis	* 54	1.6	54.0	* 24	444.4	* 35	*	
109 = paba	* 33	1.0	33.0	* 17	515.2	* 22	*	
110 = pamg	* 72	2.2	72.0	* 31	430.6	* 44	*	
111 = pari	* 41	1.3	41.0	* 19	463.4	* 21	*	
112 = pate	* 139	4.2	139.0	* 44	316.5	* 83	*	
113 = pech	* 34	1.0	34.0	* 19	558.8	* 23	*	
114 = pern	* 286	8.7	286.0	* 49	171.3	* 138	*	
115 = pfiz	* 56	1.7	56.0	* 23	410.7	* 33	*	
116 = poul	* 88	2.7	88.0	* 43	488.6	* 61	*	
117 = ppgi	* 57	1.7	57.0	* 29	508.8	* 37	*	
118 = prim	* 62	1.9	62.0	* 27	435.5	* 34	*	
119 = prin	* 187	5.7	187.0	* 37	197.9	* 86	*	
120 = pukc	* 77	2.4	77.0	* 27	350.6	* 34	*	
121 = puks	* 196	6.0	196.0	* 43	219.4	* 95	*	
122 = rada	* 76	2.3	76.0	* 22	289.5	* 39	*	
123 = raff	* 174	5.3	174.0	* 45	258.6	* 73	*	

124 = rayt	124	3.8	124.0	47	379.8	78		
125 = remy	108	3.3	108.0	33	305.6	64		
126 = rich	49	1.5	49.0	20	408.2	26		
127 = ropo	183	5.6	183.0	42	229.5	101		
128 = ross	99	3.0	99.0	27	272.7	57		
129 = safi	128	3.9	128.0	42	328.1	72		
130 = saul	157	4.8	157.0	52	331.2	110		
131 = schl	47	1.4	47.0	23	489.4	26		
132 = scoa	119	3.6	119.0	48	403.4	78		
133 = scre	104	3.2	104.0	33	317.3	49		
134 = sduf	47	1.4	47.0	19	404.3	27		
135 = seag	52	1.6	52.0	29	557.7	39		
136 = seli	44	1.3	44.0	20	454.5	29		
137 = sevm	223	6.8	223.0	57	255.6	120		
138 = sfpi	99	3.0	99.0	28	282.8	50		
139 = sgec	152	4.6	152.0	47	309.2	74		
140 = sime	30	.9	30.0	20	666.7	21		
141 = simh	73	2.2	73.0	32	438.4	44		
142 = sode	144	4.4	144.0	39	270.8	67		
143 = sopa	271	8.3	271.0	61	225.1	135		
144 = sopr	72	2.2	72.0	22	305.6	37		
145 = stle	133	4.1	133.0	34	255.6	63		
146 = sude	214	6.5	214.0	54	252.3	120		
147 = tail	416	12.7	416.0	68	163.5	177		
148 = tale	67	2.0	67.0	28	417.9	39		
149 = tcsf	130	4.0	130.0	37	284.6	65		
150 = temp	125	3.8	125.0	49	392.0	79		
151 = thom	161	4.9	161.0	40	248.4	91		
152 = trin	161	4.9	161.0	53	329.2	97		
153 = tudj	38	1.2	38.0	23	605.3	28		
154 = ucbc	179	5.5	179.0	36	201.1	69		
155 = ufbl	158	4.8	158.0	41	259.5	71		
156 = unio	79	2.4	79.0	27	341.8	43		
157 = unla	102	3.1	102.0	35	343.1	49		
158 = vale	530	16.2	530.0	85	160.4	290		
159 = vuit	91	2.8	91.0	27	296.7	42		
160 = agef	174	5.3	174.0	45	258.6	92		
161 = aure	179	5.5	179.0	53	296.1	101		
162 = axam	109	3.3	109.0	33	302.8	67		
163 = cfao	288	8.8	288.0	58	201.4	139		
164 = cfeo	228	7.0	228.0	52	228.1	126		
165 = cide	152	4.6	152.0	50	328.9	82		
166 = dofa	176	5.4	176.0	41	233.0	95		
167 = erus	174	5.3	174.0	57	327.6	127		
168 = euri	71	2.2	71.0	27	380.3	52		
169 = euro	131	4.0	131.0	40	305.3	74		
170 = fram	191	5.8	191.0	38	199.0	105		
171 = gefc	304	9.3	304.0	62	203.9	161		
172 = levr	171	5.2	171.0	45	263.2	96		
173 = mode	138	4.2	138.0	46	333.3	87		
174 = mumm	104	3.2	104.0	35	336.5	66		
175 = pape	198	6.0	198.0	56	282.8	121		
176 = pbas	292	8.9	292.0	63	215.8	184		
177 = poli	232	7.1	232.0	62	267.2	123		
178 = rall	341	10.4	341.0	63	184.8	176		
179 = samv	122	3.7	122.0	30	245.9	60		
180 = schn	224	6.8	224.0	49	218.8	123		
181 = sofi	144	4.4	144.0	43	298.6	89		
182 = suez	186	5.7	186.0	45	241.9	105		
183 = thor	372	11.4	372.0	72	193.5	207		
184 = tjsi	211	6.4	211.0	50	237.0	107		
185 = tota	98	3.0	98.0	34	346.9	48		
186 = vish	326	10.0	326.0	61	187.1	166		
187 = idem	95	2.9	95.0	37	389.5	45		
188 = coge	109	3.3	109.0	32	293.6	58		
189 = acte	109	3.3	109.0	38	348.6	58		
190 = bqpa	87	2.7	87.0	23	264.4	43		

191 = altu	*	110	3.4	110.0	*	41	372.7	*	60	*
192 = magn	*	125	3.8	125.0	*	46	368.0	*	70	*
193 = samc	*	128	3.9	128.0	*	36	281.3	*	69	*
194 = elbe	*	132	4.0	132.0	*	39	295.5	*	74	*
195 = ofig	*	183	5.6	183.0	*	42	229.5	*	89	*
196 = mais	*	272	8.3	272.0	*	55	202.2	*	111	*
197 = cgvs	*	459	14.0	459.0	*	81	176.5	*	242	*
198 = paeq	*	234	7.1	234.0	*	45	192.3	*	115	*
199 = hoes	*	320	9.8	320.0	*	67	209.4	*	182	*
200 = imfp	*	105	3.2	105.0	*	34	323.8	*	71	*
201 = alfi	*	119	3.6	119.0	*	44	369.7	*	69	*
202 = sele	*	299	9.1	299.0	*	64	214.0	*	155	*
203 = emer	*	253	7.7	253.0	*	59	233.2	*	146	*
204 = pefi	*	209	6.4	209.0	*	55	263.2	*	121	*
205 = nami	*	173	5.3	173.0	*	53	306.4	*	102	*
206 = navi	*	294	9.0	294.0	*	51	173.5	*	147	*
207 = ncpi	*	120	3.7	120.0	*	33	275.0	*	60	*
208 = nest	*	167	5.1	167.0	*	53	317.4	*	98	*
209 = neui	*	116	3.5	116.0	*	36	310.3	*	57	*
210 = ngxt	*	105	3.2	105.0	*	39	371.4	*	62	*
211 = nick	*	206	6.3	206.0	*	54	262.1	*	118	*
212 = nsms	*	135	4.1	135.0	*	42	311.1	*	86	*
213 = upar	*	166	5.1	166.0	*	50	301.2	*	95	*
G L O B A L	*	32752	1000.0	153.8	*			*	17730	*

ANNEXE n° 5

LES MOTIVATIONS EXPLICITES

LES VALEURS PROPRES (A.F.C. n° 1)

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS :

TRACE AVANT DIAGONALISATION 2.5161
SOMME DES VALEURS PROPRES 2.5161

HISTOGRAMME DES212 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	.1635	6.50	6.50	**********
2	.1295	5.15	11.65	********
3	.0964	3.83	15.48	******
4	.0808	3.21	18.69	*****
5	.0775	3.08	21.77	*****
6	.0717	2.85	24.62	*****
7	.0687	2.73	27.35	*****
8	.0642	2.55	29.90	*****
9	.0633	2.51	32.41	*****
10	.0598	2.38	34.79	*****
11	.0537	2.13	36.93	****
12	.0502	2.00	38.92	****
13	.0478	1.90	40.82	****
14	.0459	1.82	42.64	****
15	.0433	1.72	44.37	****
16	.0415	1.65	46.02	****
17	.0393	1.56	47.58	****
18	.0379	1.51	49.09	****
19	.0375	1.49	50.57	****
20	.0358	1.42	52.00	****
21	.0351	1.39	53.39	****
22	.0336	1.34	54.73	****
23	.0334	1.33	56.05	****
24	.0315	1.25	57.31	****
25	.0300	1.19	58.50	****
26	.0296	1.18	59.67	****
27	.0294	1.17	60.84	****
28	.0286	1.14	61.98	****
29	.0276	1.10	63.08	****
30	.0272	1.08	64.16	****
31	.0269	1.07	65.23	****
32	.0256	1.02	66.24	****
33	.0244	.97	67.21	***
34	.0237	.94	68.15	***
35	.0232	.92	69.08	***
36	.0230	.91	69.99	***
37	.0226	.90	70.89	***
38	.0223	.89	71.78	***
39	.0218	.86	72.64	***
40	.0213	.85	73.49	***
41	.0203	.80	74.29	**
42	.0202	.80	75.10	**
43	.0198	.79	75.89	**

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
44	.0187	.74	76.63	**********
45	.0185	.74	77.36	**********
46	.0179	.71	78.07	*********
47	.0177	.70	78.78	*********
48	.0169	.67	79.45	*********
49	.0166	.66	80.11	*********
50	.0162	.65	80.75	********
51	.0159	.63	81.38	********
52	.0155	.61	82.00	********
53	.0151	.60	82.60	********
54	.0149	.59	83.19	********
55	.0145	.58	83.77	********
56	.0141	.56	84.33	*******
57	.0135	.54	84.86	*******
58	.0131	.52	85.39	*******
59	.0131	.52	85.90	*******
60	.0124	.49	86.40	*******
61	.0122	.48	86.88	******
62	.0118	.47	87.35	******
63	.0118	.47	87.82	******
64	.0116	.46	88.28	******
65	.0111	.44	88.72	******
66	.0108	.43	89.15	******
67	.0106	.42	89.57	******
68	.0101	.40	89.97	*****
69	.0098	.39	90.36	*****
70	.0095	.38	90.74	*****
71	.0092	.36	91.11	*****
72	.0090	.36	91.46	*****
73	.0088	.35	91.81	*****
74	.0085	.34	92.15	*****
75	.0084	.33	92.49	*****
76	.0081	.32	92.81	****
77	.0080	.32	93.13	****
78	.0075	.30	93.43	****
79	.0075	.30	93.72	****
80	.0073	.29	94.01	****
81	.0070	.28	94.29	****
82	.0067	.27	94.55	****
83	.0066	.26	94.82	****
84	.0065	.26	95.07	****
85	.0063	.25	95.32	****
86	.0061	.24	95.57	***
87	.0058	.23	95.80	***
88	.0057	.23	96.02	***
89	.0054	.21	96.24	***
90	.0053	.21	96.45	***
91	.0052	.21	96.66	***
92	.0050	.20	96.85	***
93	.0048	.19	97.04	***
94	.0046	.18	97.23	***
95	.0045	.18	97.41	***
96	.0043	.17	97.58	***
97	.0041	.16	97.74	**

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
98	.0039	.15	97.89	**
99	.0037	.15	98.04	**
100	.0036	.14	98.18	**
101	.0034	.14	98.32	**
102	.0032	.13	98.45	**
103	.0031	.12	98.57	**
104	.0029	.12	98.69	**
105	.0028	.11	98.80	**
106	.0027	.11	98.91	**
107	.0026	.10	99.01	**
108	.0025	.10	99.11	**
109	.0023	.09	99.20	**
110	.0023	.09	99.29	**
111	.0022	.09	99.38	**
112	.0020	.08	99.45	*
113	.0019	.08	99.53	*
114	.0018	.07	99.60	*
115	.0017	.07	99.67	*
116	.0016	.06	99.73	*
117	.0015	.06	99.79	*
118	.0013	.05	99.84	*
119	.0012	.05	99.89	*
120	.0010	.04	99.93	*
121	.0009	.04	99.97	*
122	.0008	.03	100.00	*
123	.0000	.00	100.00	*
124	.0000	.00	100.00	*
125	.0000	.00	100.00	*
126	.0000	.00	100.00	*
127	.0000	.00	100.00	*
128	.0000	.00	100.00	*
129	.0000	.00	100.00	*
130	.0000	.00	100.00	*
131	.0000	.00	100.00	*
132	.0000	.00	100.00	*
133	.0000	.00	100.00	*
134	.0000	.00	100.00	*
135	.0000	.00	100.00	*
136	.0000	.00	100.00	*
137	.0000	.00	100.00	*
138	.0000	.00	100.00	*
139	.0000	.00	100.00	*
140	.0000	.00	100.00	*
141	.0000	.00	100.00	*
142	.0000	.00	100.00	*
143	.0000	.00	100.00	*
144	.0000	.00	100.00	*
145	.0000	.00	100.00	*
146	.0000	.00	100.00	*
147	.0000	.00	100.00	*
148	.0000	.00	100.00	*
149	.0000	.00	100.00	*
150	.0000	.00	100.00	*
151	.0000	.00	100.00	*

ANNEXE n° 6

LES MOTIVATIONS EXPLICITES

LES COORDONNEES, CONTRIBUTIONS ET COSINUS CARRES DES FORMES (A.F.C. n° 1)

EDITION DES COORDONNEES ET CONTRIBUTIONS DES LIGNES

NOMS	MASSES	DISTO2	COORDONNEES						CONTRIBUTIONS ABSOLUES						COSINUS CARRES					
			F1	F2	F3	F4	F5	F6	F1	F2	F3	F4	F5	F6	F1	F2	F3	F4	F5	F6
accord	.004	6.05	.09	.09	.04	.55	-.26	-.87	.0	.0	.0	1.7	.4	4.8	.00	.00	.00	.05	.01	.13
acquisition	.011	1.38	.14	-.31	-.28	.27	-.11	-.14	.1	.8	.9	1.0	.2	.3	.01	.07	.06	.05	.01	.01
actif	.004	4.31	-.62	-.28	-.67	-.19	-.08	-.08	1.0	.2	2.0	.2	.0	.0	.09	.02	.11	.01	.00	.00
action	.029	1.26	-.73	-.19	.29	.24	-.16	.31	9.4	.8	2.6	2.1	.9	3.8	.42	.03	.07	.05	.02	.07
actionnaire	.020	1.08	-.63	-.06	.27	.14	-.12	.11	4.8	.1	1.5	.5	.4	.3	.37	.00	.07	.02	.01	.01
activite	.023	.91	.20	.14	.07	.01	.24	.16	.6	.4	.1	.0	1.7	.8	.04	.02	.01	.00	.06	.03
actuel	.005	3.25	-.36	-.25	-.50	-.17	.01	.32	.4	.2	1.3	.2	.0	.7	.04	.02	.08	.01	.00	.03
apport	.008	2.32	-.32	.13	.17	.04	-.11	-.01	.5	.1	.2	.0	.1	.0	.04	.01	.01	.00	.01	.00
assurance	.005	11.30	-.90	-.35	.67	-1.87	.72	-1.32	2.3	.4	2.2	19.9	3.0	11.1	.07	.01	.04	.31	.05	.15
assurer	.007	1.79	.04	.05	.13	-.21	-.33	-.16	.0	.0	.1	.4	1.0	.3	.00	.00	.01	.02	.06	.01
augmentation	.007	2.12	-.26	.06	-.03	-.03	.18	.11	.3	.0	.0	.0	.3	.1	.03	.00	.00	.00	.02	.01
avenir	.012	.86	-.16	-.07	-.01	-.07	.04	.08	.2	.0	.0	.1	.0	.1	.03	.01	.00	.01	.00	.01
base	.003	5.81	-.18	.08	.36	.22	.49	.43	.1	.0	.4	.2	.9	.8	.01	.00	.02	.01	.04	.03
beneficier	.004	3.66	.12	-.28	.02	.12	-.16	-.01	.0	.2	.0	.1	.1	.0	.00	.02	.00	.00	.01	.00
bourse	.003	3.32	-.50	-.01	-.09	.20	.06	.05	.5	.0	.0	.2	.0	.0	.07	.00	.00	.01	.00	.00
capital	.014	1.29	-.49	-.06	.11	.35	-.07	-.07	2.1	.0	.2	2.2	.1	.1	.19	.00	.01	.10	.00	.00
cession	.004	4.40	-.54	-.26	-.18	.31	-.22	-.16	.6	.2	.1	.4	.2	.1	.07	.02	.01	.02	.01	.01
chiffreaffai	.005	3.61	.81	-.34	.25	-.06	.36	.32	2.1	.5	.3	.0	.9	.8	.18	.03	.02	.00	.04	.03
commercial	.008	2.94	.58	-.28	-.04	-.09	.10	-.16	1.7	.5	.0	.1	.1	.3	.11	.03	.00	.00	.00	.01
commun	.005	3.31	.34	-.20	-.01	.03	.22	.08	.3	.2	.0	.0	.3	.0	.03	.01	.00	.00	.01	.00
complementai	.003	4.33	.50	.01	.12	.19	.15	.29	.5	.0	.1	.1	.1	.4	.06	.00	.00	.01	.00	.02
concerner	.004	3.28	.44	-.28	.07	-.14	.15	.07	.5	.2	.0	.1	.1	.0	.06	.02	.00	.01	.01	.00
concurrence	.004	5.18	.59	.39	-.03	-.12	-.42	-.37	.9	.5	.0	.1	1.0	.8	.07	.03	.00	.00	.03	.03
condition	.005	2.68	-.04	-.06	.16	-.28	-.08	-.22	.0	.0	.1	.4	.0	.3	.00	.00	.01	.03	.00	.02
conseiladmin	.003	4.11	-.56	-.31	.12	-.05	-.04	-.30	.6	.2	.0	.0	.0	.4	.08	.02	.00	.00	.00	.02
conserver	.003	4.19	-.24	-.39	-.59	-.01	.09	.28	.1	.4	1.1	.0	.0	.3	.01	.04	.08	.00	.00	.02
constituer	.008	1.59	.11	.11	-.10	-.18	.12	.04	.1	.1	.1	.3	.2	.0	.01	.01	.01	.02	.01	.00
controle	.008	1.60	-.24	-.08	.17	-.08	.13	-.16	.3	.0	.2	.1	.2	.3	.04	.00	.02	.00	.01	.02
cotation	.004	3.88	-.50	-.17	.02	.21	-.03	.02	.6	.1	.0	.2	.0	.0	.07	.01	.00	.01	.00	.00
decision	.004	4.18	-.59	-.13	.20	.17	-.02	-.12	.8	.1	.2	.1	.0	.1	.08	.00	.01	.01	.00	.00
developpemen	.024	.62	.33	.13	-.13	.02	.03	-.01	1.6	.3	.4	.0	.0	.0	.17	.03	.03	.00	.00	.00
dimension	.003	3.52	.50	.29	.20	-.14	.01	.26	.5	.2	.1	.1	.0	.3	.07	.02	.01	.01	.00	.02
dirigeants	.003	6.33	.18	-.44	.18	.15	-.77	.39	.1	.5	.1	.1	2.5	.7	.00	.03	.00	.00	.09	.02
disposition	.004	2.40	.01	.15	-.43	-.34	-.06	.35	.0	.1	.8	.6	.0	.8	.00	.01	.08	.05	.00	.05
distribution	.006	4.29	.66	-.07	-.06	.31	.22	-.57	1.6	.0	.0	.7	.4	2.7	.10	.00	.00	.02	.01	.08
diversificat	.004	3.83	-.11	.02	.26	-.18	.54	.45	.0	.0	.3	.2	1.5	1.1	.00	.00	.02	.01	.08	.05
dividende	.005	4.37	-.61	.02	-.35	-.20	-.25	-.06	1.2	.0	.7	.3	.4	.0	.08	.00	.03	.01	.01	.00
domaine	.009	2.22	.34	.30	-.13	-.02	.60	.21	.7	.7	.2	.0	4.4	.6	.05	.04	.01	.00	.16	.02
echange	.004	4.61	-.51	.03	.53	-.51	-.44	.43	.6	.0	1.1	1.2	.9	1.0	.06	.00	.06	.06	.04	.04
economie	.004	3.75	.29	.18	.14	-.27	-.25	.33	.2	.1	.1	.3	.3	.5	.02	.01	.01	.02	.02	.03
ensemble	.008	1.57	.04	.04	.26	-.28	.02	-.21	.0	.0	.6	.8	.0	.5	.00	.00	.04	.05	.00	.03
entreprise	.009	2.99	.11	.32	.12	-.51	-1.04	.38	.1	.7	.1	2.8	12.1	1.8	.00	.03	.00	.09	.36	.05
envisager	.005	2.56	-.05	-.46	-.04	.04	-.14	-.02	.0	.9	.0	.0	.1	.0	.00	.08	.00	.00	.01	.00
equipement	.005	6.04	.52	.85	.24	-.37	-.63	.32	.8	2.7	.3	.8	2.5	.7	.04	.12	.01	.02	.07	.02
europe	.008	2.56	.45	.47	-.03	.00	-.14	-.26	1.0	1.4	.0	.0	.2	.8	.08	.09	.00	.00	.01	.03
exercer	.003	4.40	.01	-.10	.12	.21	.21	.03	.0	.0	.0	.2	.2	.0	.00	.00	.00	.01	.01	.00
exercice	.003	5.78	-.73	-.13	.01	-.43	.13	.01	.9	.0	.0	.6	.1	.0	.09	.00	.00	.03	.00	.00
existence	.003	4.39	.05	.03	-.24	-.07	.09	-.33	.0	.0	.2	.0	.0	.5	.00	.00	.01	.00	.00	.02
exploitation	.005	5.11	.38	-.74	.26	-.63	-.21	-.22	.4	1.9	.3	2.2	.2	.3	.03	.11	.01	.08	.01	.01
fabrication	.004	7.55	.54	.83	-.13	.40	-.08	.08	.7	2.1	.1	.8	.0	.0	.04	.09	.00	.02	.00	.00
filia	.010	3.91	-.54	-.31	.39	-.96	.25	-.69	1.9	.8	1.7	11.9	.9	7.0	.07	.02	.04	.23	.02	.12
filiale	.011	1.35	.00	-.13	.09	.02	.37	-.09	.0	.1	.1	.0	2.0	.1	.00	.01	.01	.00	.10	.01
filix	.017	2.07	.24	-.12	.15	.14	.71	-.02	.6	.2	.4	.5	11.5	.0	.03	.01	.01	.01	.25	.00
financement	.012	1.71	-.20	.12	-.10	-.11	-.19	-.07	.3	.1	.1	.2	.6	.1	.02	.01	.01	.01	.02	.00
france	.017	1.22	.51	.30	.08	-.14	-.14	-.14	2.8	1.2	.1	.4	.4	.5	.22	.08	.01	.02	.02	.02
fusion	.005	6.62	-.87	-.25	.59	.35	.25	1.37	2.4	.2	1.8	.8	.4	13.5	.12	.01	.05	.02	.01	.29
gestion	.007	2.18	.07	-.37	-.11	-.10	-.03	.19	.0	.7	.1	.1	.0	.4	.00	.06	.01	.00	.00	.02

holding	.003	5.16	*	-.57	-.34	.45	-.38	.16	.04	*	.7	.3	.7	.6	.1	.0	*	.06	.02	.04	.03	.01	.00	*
immobilier	.005	13.71	*	-.83	-.20	-3.15	-.39	.44	.38	*	2.0	.2	49.2	.9	1.2	1.0	*	.05	.00	.72	.01	.01	.01	*
implantation	.004	3.83	*	.76	-.21	.07	.05	.07	.00	*	1.5	.1	.0	.0	.0	.0	*	.15	.01	.00	.00	.00	.00	*
important	.011	1.30	*	.06	.12	-.03	-.25	-.03	-.05	*	.0	.1	.0	.8	.0	.0	*	.00	.01	.00	.05	.00	.00	*
industrie	.013	1.96	*	.38	.65	.02	.26	-.08	-.03	*	1.1	4.2	.0	1.1	.1	.0	*	.07	.22	.00	.03	.00	.00	*
initx	.063	.30	*	-.02	-.07	-.04	.11	.12	.08	*	.0	.3	.1	1.0	1.1	.6	*	.00	.02	.00	.04	.04	.02	*
intention	.009	1.79	*	-.09	-.09	-.40	.07	.10	.00	*	.0	.1	1.5	.1	.1	.0	*	.00	.01	.09	.00	.01	.00	*
interet	.005	3.07	*	-.37	-.02	.05	-.10	.21	-.24	*	.4	.0	.0	.1	.3	.4	*	.05	.00	.00	.00	.01	.02	*
internationa	.014	1.98	*	.54	.61	.11	-.23	-.27	-.05	*	2.5	4.0	.2	1.0	1.3	.0	*	.15	.19	.01	.03	.04	.00	*
investisseme	.006	2.97	*	-.14	.30	-.26	-.04	-.20	.01	*	.1	.4	.4	.0	.3	.0	*	.01	.03	.02	.00	.01	.00	*
leader	.008	2.27	*	.54	.26	.15	-.05	.27	.16	*	1.3	.4	.2	.0	.7	.3	*	.13	.03	.01	.00	.03	.01	*
magasin	.006	14.30	*	1.67	-3.06	-.01	.13	-.76	.16	*	10.0	42.4	.0	.1	4.4	.2	*	.20	.66	.00	.00	.04	.00	*
maintien	.006	1.84	*	.15	-.05	-.27	-.16	-.19	-.22	*	.1	.0	.4	.2	.3	.4	*	.01	.00	.04	.01	.02	.03	*
majorite	.004	4.88	*	-.42	.01	.22	.54	-.02	-.33	*	.4	.0	.2	1.4	.0	.6	*	.04	.00	.01	.06	.00	.02	*
marche	.017	1.67	*	.26	.35	.12	-.06	.20	.11	*	.7	1.6	.3	.1	.9	.3	*	.04	.07	.01	.00	.02	.01	*
meilleur	.003	5.86	*	.37	-.23	-.10	.01	.02	-.04	*	.3	.1	.0	.0	.0	.0	*	.02	.01	.00	.00	.00	.00	*
merex	.012	4.63	*	.15	.48	-.08	1.07	-.19	-.62	*	.2	2.1	.1	16.5	.6	6.2	*	.00	.05	.00	.25	.01	.08	*
minoritaire	.003	7.78	*	-.76	-.09	.38	.65	.00	.04	*	1.0	.0	.4	1.6	.0	.0	*	.08	.00	.02	.06	.00	.00	*
moyen	.007	1.82	*	.30	.13	-.20	-.06	-.11	.01	*	.4	.1	.3	.0	.1	.0	*	.05	.01	.02	.00	.01	.00	*
necessite	.008	2.09	*	.13	.43	-.05	-.29	-.48	-.16	*	.1	1.1	.0	.8	2.4	.3	*	.01	.09	.00	.04	.11	.01	*
nouveau	.011	1.45	*	-.03	.13	.13	-.10	.14	.20	*	.0	.1	.2	.1	.3	.6	*	.00	.01	.01	.01	.01	.03	*
objectif	.009	1.66	*	-.17	.15	-.10	-.25	-.27	-.05	*	.2	.2	.1	.7	.9	.0	*	.02	.01	.01	.04	.04	.00	*
offre	.006	4.64	*	-.21	.13	-.92	.13	-.27	-.13	*	.2	.1	5.6	.1	.6	.1	*	.01	.00	.18	.00	.02	.00	*
offrir	.003	3.97	*	-.19	.08	.03	.33	-.14	-.04	*	.1	.0	.0	.4	.1	.0	*	.01	.00	.00	.03	.00	.00	*
opa	.004	4.57	*	-.40	-.10	.02	.21	-.67	-.30	*	.4	.0	.0	.2	2.3	.5	*	.04	.00	.00	.01	.10	.02	*
ope	.003	5.58	*	-.78	-.14	.43	.06	.50	.68	*	1.2	.1	.6	.0	1.1	2.1	*	.11	.00	.03	.00	.05	.08	*
operation	.009	1.85	*	-.34	-.24	.17	.02	-.20	.04	*	.6	.4	.2	.0	.4	.0	*	.06	.03	.01	.00	.02	.00	*
participatio	.011	1.74	*	-.45	-.04	-.05	.17	.22	-.26	*	1.4	.0	.0	.4	.7	1.0	*	.12	.00	.00	.02	.03	.04	*
performance	.014	1.31	*	-.05	-.07	-.23	-.20	-.11	.03	*	.0	.1	.8	.7	.2	.0	*	.00	.00	.04	.03	.01	.00	*
personnel	.007	5.00	*	.16	.34	.17	-.64	-1.28	.60	*	.1	.6	.2	3.4	14.1	3.4	*	.01	.02	.01	.08	.33	.07	*
perspective	.003	3.91	*	-.45	.02	-.11	-.25	.06	-.14	*	.4	.0	.0	.2	.0	.1	*	.05	.00	.00	.02	.00	.01	*
place	.004	10.58	*	.57	.50	.15	-.33	.84	.55	*	.7	.7	.1	.5	3.4	1.6	*	.03	.02	.00	.01	.07	.03	*
plan	.004	4.52	*	.41	.21	-.09	.19	-.03	.14	*	.4	.1	.0	.2	.0	.1	*	.04	.01	.00	.01	.00	.00	*
politique	.008	1.72	*	.30	-.22	-.27	.08	-.06	.02	*	.5	.3	.6	.1	.0	.0	*	.05	.03	.04	.00	.00	.00	*
position	.005	3.07	*	.10	.32	-.02	-.15	.05	-.39	*	.0	.4	.0	.1	.0	.9	*	.00	.03	.00	.01	.00	.05	*
possibilite	.024	.55	*	-.02	-.01	-.06	.07	-.05	.04	*	.0	.0	.1	.1	.1	.0	*	.00	.00	.01	.01	.00	.00	*
poursuite	.005	2.41	*	-.10	.03	-.02	-.15	-.12	.09	*	.0	.0	.0	.1	.1	.1	*	.00	.00	.00	.01	.01	.00	*
pouvoir	.012	1.20	*	-.24	.00	-.05	-.06	-.04	.05	*	.4	.0	.0	.1	.0	.0	*	.05	.00	.00	.00	.00	.00	*
present	.004	3.58	*	-.31	-.10	-.13	.06	-.20	-.04	*	.2	.0	.1	.0	.2	.0	*	.03	.00	.00	.00	.01	.00	*
presenter	.003	3.27	*	-.18	.06	.16	-.05	-.04	.15	*	.1	.0	.1	.0	.0	.1	*	.01	.00	.01	.00	.00	.01	*
prix	.004	5.49	*	-.31	.02	-.03	.33	-.35	-.11	*	.2	.0	.0	.5	.6	.1	*	.02	.00	.00	.02	.02	.00	*
production	.006	6.22	*	.55	.73	.11	.05	-.12	.26	*	1.0	2.3	.1	.0	.1	.5	*	.05	.09	.00	.00	.00	.01	*
produits	.008	3.22	*	.64	.37	.16	.17	.39	.00	*	1.9	.8	.2	.3	1.5	.0	*	.13	.04	.01	.01	.05	.00	*
proposer	.005	3.61	*	-.51	.00	.19	.12	-.03	.20	*	.8	.0	.2	.1	.0	.3	*	.07	.00	.01	.00	.00	.01	*
propre	.004	3.80	*	-.12	.23	-.16	-.55	.01	-.31	*	.0	.2	.1	1.4	.0	.5	*	.00	.01	.01	.08	.00	.03	*
proprietaire	.011	1.52	*	-.44	-.05	.05	.22	.01	-.14	*	1.3	.0	.0	.7	.0	.3	*	.13	.00	.00	.03	.00	.01	*
raison	.005	4.32	*	-.36	-.18	.29	-.21	-.01	.45	*	.4	.1	.4	.2	.0	1.3	*	.03	.01	.02	.01	.00	.05	*
realisation	.007	1.87	*	-.03	-.02	.12	-.12	.27	.26	*	.0	.0	.1	.1	.7	.7	*	.00	.00	.01	.01	.04	.04	*
recherche	.003	8.09	*	.45	.64	.08	.18	.09	.00	*	.4	.9	.0	.1	.0	.0	*	.03	.05	.00	.00	.00	.00	*
region	.003	7.72	*	1.09	-1.35	-.08	.00	-.03	.26	*	2.5	4.7	.0	.0	.0	.3	*	.16	.23	.00	.00	.00	.01	*
regroupement	.012	1.53	*	.41	-.08	.16	-.05	.05	-.02	*	1.3	.1	.3	.0	.0	.0	*	.11	.00	.02	.00	.00	.00	*
renforcement	.006	2.10	*	.23	.05	-.10	.13	.21	-.03	*	.2	.0	.1	.1	.3	.0	*	.02	.00	.00	.01	.02	.00	*
reseau	.006	4.61	*	.87	-.93	.07	.01	.15	-.34	*	2.7	3.9	.0	.0	.2	.9	*	.16	.19	.00	.00	.01	.02	*
restructurat	.004	4.24	*	-.03	-.01	.39	-.04	-.03	.10	*	.0	.0	.6	.0	.0	.1	*	.00	.00	.04	.00	.00	.00	*
secteur	.009	2.00	*	.26	.25	.09	-.20	.34	.23	*	.4	.4	.1	.5	1.4	.7	*	.03	.03	.00	.02	.06	.03	*
situation	.004	4.96	*	-.65	-.03	-.19	-.13	-.31	-.10	*	.9	.0	.1	.1	.4	.1	*	.09	.00	.01	.00	.02	.00	*
specialisati	.003	7.21	*	.49	.21	.26	-.15	.16	.43	*	.5	.1	.2	.1	.1	.8	*	.03	.01	.01	.00	.00	.03	*
strategie	.003	6.34	*	.28	.36	-.37	.12	-.19	-.39	*	.2	.3	.5	.1	.1	.7	*	.01	.02	.02	.00	.01	.02	*
structure	.005	2.50	*	.10	.01	.14	.13	.33	.30	*	.0	.0	.1	.1	.7	.7	*	.00	.00	.01	.01	.04	.04	*
succes	.004	4.24	*	.02	.23	-1.21	-.15	-.10	-.17	*	.0	.1	5.8	.1	.1	.2	*	.00	.01	.35	.01	.00	.01	*
synergie	.004	3.73	*	.66	-.39	-.04	-.08	.15	-.16	*	1.1	.5	.0	.0	.1	.1	*	.12	.04	.00	.00	.01	.01	*
technologie	.005	2.92	*	.40	.62	-.12	.07	-.12	-.15	*	.5	1.6	.1	.0	.1	.2	*	.05	.13	.01	.00	.01	.01	*
tierx	.010	5.63	*	-.52	-.19	.37	.61	-.26	-.80	*	1.6	.3	1.4	4.4	.8	8.7	*	.05	.01	.02	.07	.01	.11	*
valeur	.004	5.02	*	-.45	-.21	-.84	-.27	.12	.16	*	.5	.1	2.8	.3	.1	.1	*	.04	.01	.14	.01	.00	.01	*
vente	.004	4.91	*	.77	-.67	.08	.23	-.09	-.09	*	1.5	1.4	.0	.3	.0	.0	*	.12	.09	.00	.01	.00	.00	*
visex	.077	.17	*	-.11	-.03	-.04	.05	.01	-.07	*	.5	.1	.2	.2	.0	.5	*	.07	.01	.01	.01	.00	.03	*

ANNEXE n° 7

LES MOTIVATIONS EXPLICITES

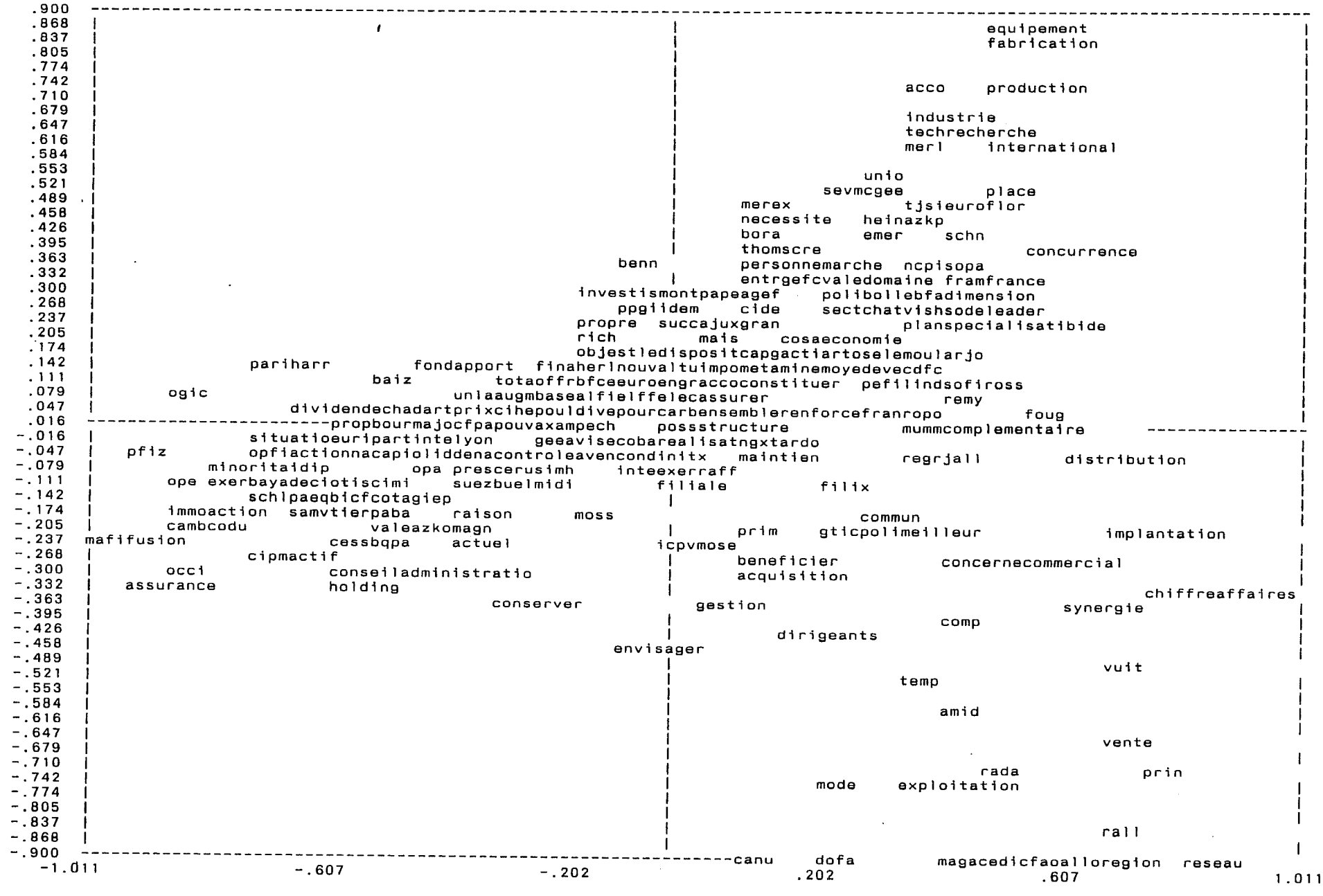
LA REPRESENTATION GRAPHIQUE DES AXES n° 1 et n° 2 (A.F.C. n° 1)

PLAN DE PROJECTION DES 336 POINTS SUR LES AXES 1 ET 2

AXE 1 /HORIZONTAL AXE 2 /VERTICAL

** ATTENTION ** (EPURN-800)
2.5 (1)
LES POINTS CI-DESSOUS ETAIENT A PLUS DE (1) ECARTS-TYPE DU CENTRE ET ONT ETE RAMENES SUR LE CADRE DU GRAPHIQUE

*magasin	1.67052	-3.06082
*region	1.09411	-1.34591
*reseau	.87042	-.92592
*allo	.91827	-1.28620
*canu	.16936	-1.02658
*cedi	.74596	-1.20899
*dock	.79907	-1.49705
*sfpi	1.06422	-1.35697
*cfao	.90228	-1.30971
*dofa	.36327	-1.32519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.647
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.553
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.237
.205
.174
.142
.111
.079
.047
.016
-.016
-.047
-.079
-.111
-.142
-.174
-.205
-.237
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-.300
-.332
-.363
-.395
-.426
-.458
-.489
-.521
-.553
-.584
-.616
-.647
-.679
-.710
-.742
-.774
-.805
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equipement
fabrication
acco
production
industrie
techrecherche
merl
international
unio
sevmcgee
place
merex
tjsieuroflor
necessite
heinazkp
bora
emer
schn
thomscre
concurrence
benn
personnemarche
ncpisopa
entrgefcvaledomaine framfrance
investismontpapeagef
polibollebfadimension
ppgiidem
cide
sectchatvishsodeleader
propre
succajuxgran
planspecialisatibide
rich
mais
cosaeconomie
objestledispositcapgactiartoselemoularjo
pariharr
fondapport
finaherlnouvaltuimpometaminemoyedevecdfc
baiz
totaoffrbfceeuroengraccoconstituer
pefilindsofiross
ogic
unlaaugmbasealfielffelecassurer
remy
dividendechadartprixcihepouldivepourcarbensemblerenforcefranropo
foug
propbourmajocfpapouvaxampech
possstructure
mummcomplementaire
situatioeuripartintelyon
geeavisecobarealisatngxtardo
pfiz
opfiactionnacapioliddenacontroleavencondinitx
maintien
regrjall
distribution
minoritaidip
opa prescerusimh
inteexerraff
ope exerbayadeciotiscimi
suezbuelmidi
filiale
filix
schlpaeqbicfcotagiep
immoaction
samvtierpaba
raison
moss
commun
cambcodu
valeazkomagn
prim
gticpolimeilleur
implantation
mafifusion
cessbqpa
actuel
icpvmose
cipmactif
beneficier
concernecommercial
occi
conseiladministratio
acquisition
assurance
holding
chiffreaffaires
conserver
gestion
synergie
comp
dirigeants
envisager
vuit
temp
amid
vente
rada
prin
mode
exploitation
rall
canu
dofa
magacedicfaoalloregion
reseau

POINTS MULTIPLES (100 AU MAXIMUM)

POINT VU	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE
*acco	.40	.71
*azkp	.40	.43
*concurre	.61	.36
*marche	.27	.33
*personne	.13	.33
*entrepri	.13	.30
*domaine	.34	.30
*dimensio	.47	.27
*chat	.34	.24
*ajux	.07	.21
*succes	.00	.21
*plan	.40	.21
*economie	.27	.17
*arto	.27	.14
*objectif	-.13	.14
*disposit	.00	.14
*financem	-.20	.11
*importan	.07	.11
*developp	.34	.11
*herl	-.13	.11
*moyen	.27	.11
*accord	.07	.08
*engr	.00	.08
*constitu	.13	.08
*engr	.00	.08
*euro	-.07	.08
*constitu	.13	.08
*base	-.20	.05
*base	-.20	.05
*augmenta	-.27	.05
*base	-.20	.05
*augmenta	-.27	.05
*assurer	.07	.05
*base	-.20	.05
*augmenta	-.27	.05
*augmenta	-.27	.05
*unla	-.34	.05
*ensemble	.07	.02
*echange	-.47	.02
*diversif	-.13	.02
*renforce	.20	.02
*renforce	.20	.02
*poursuit	-.07	.02
*dart	-.40	.02
*cihe	-.27	.02
*diversif	-.13	.02
*ensemble	.07	.02
*cihe	-.27	.02
*possibil	.00	-.02
*structur	.07	-.02
*majorite	-.40	-.02
*bourse	-.47	-.02
*structur	.07	-.02
*structur	.07	-.02
*pech	-.13	-.02
*possibil	.00	-.02
*visex	-.13	-.05
*ardo	.20	-.05
*particip	-.47	-.05

POINT CACHE	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE
*bouy	.40	.71
*ofig	.40	.43
*produits	.61	.36
*strategi	.27	.33
*kali	.13	.33
*position	.13	.30
*luch	.34	.30
*agaa	.47	.27
*pern	.34	.24
*midl	.07	.21
*puks	.00	.21
*thor	.40	.21
*cegi	.27	.17
*como	.27	.14
*ufbl	-.13	.14
*cgvs	.00	.14
*offre	-.20	.11
*itto	.07	.11
*rayt	.34	.11
*tale	-.13	.11
*hoes	.27	.11
*bouc	.07	.08
*geno	.00	.08
*maaf	.13	.08
*sime	.00	.08
*nami	-.07	.08
*nick	.13	.08
*presente	-.20	.05
*cdfh	-.20	.05
*ford	-.27	.05
*gefi	-.20	.05
*heke	-.27	.05
*jacq	.07	.05
*lafa	-.20	.05
*levr	-.27	.05
*elbe	-.27	.05
*imfp	-.34	.05
*existenc	.07	.02
*perspect	-.47	.02
*auxe	-.13	.02
*ciga	.20	.02
*erap	.20	.02
*omni	-.07	.02
*sude	-.40	.02
*ucbc	-.27	.02
*aure	-.13	.02
*cfeo	.07	.02
*pbas	-.27	.02
*restruct	.00	-.02
*copo	.07	-.02
*lahe	-.40	-.02
*pukc	-.47	-.02
*seag	.07	-.02
*tcsf	.07	-.02
*tudj	-.13	-.02
*-+--	.00	-.02
*cogo	-.13	-.05
*doll	.20	-.05
*pamg	-.47	-.05

*geea	-.20	-.05		*scoa	-.20	-.05	
*coba	-.07	-.05		*trin	-.07	-.05	
*coba	-.07	-.05		*acte	-.07	-.05	
*conditio	-.07	-.08		*performa	-.07	-.08	
*capital	-.47	-.08		*propriet	-.47	-.08	
*avenir	-.13	-.08		*delm	-.13	-.08	
*maintien	.13	-.08		*moet	.13	-.08	
*capital	-.47	-.08		*safi	-.47	-.08	
*maintien	.13	-.08		*sduf	.13	-.08	
*conditio	-.07	-.08		*seli	-.07	-.08	
*conditio	-.07	-.08		*sgec	-.07	-.08	
*capital	-.47	-.08		*nsms	-.47	-.08	
*ceru	-.27	-.11		*enel	-.27	-.11	
*opa	-.40	-.11		*gaze	-.40	-.11	
*present.	-.34	-.11		*geox	-.34	-.11	
*minorita	-.74	-.11		*sopr	-.74	-.11	
*opa	-.40	-.11		*erus	-.40	-.11	
*exercer	.00	-.11		*nest	.00	-.11	
*baya	-.67	-.14		*fiba	-.67	-.14	
*exercice	-.74	-.14		*fipa	-.74	-.14	
*exercice	-.74	-.14		*lebo	-.74	-.14	
*buel	-.27	-.14		*neui	-.27	-.14	
*cotation	-.47	-.17		*mixt	-.47	-.17	
*cotation	-.47	-.17		*tail	-.47	-.17	
*giep	-.40	-.17		*coge	-.40	-.17	
*giep	-.40	-.17		*upar	-.40	-.17	
*raison	-.34	-.21		*cnax	-.34	-.21	
*tierx	-.54	-.21		*saul	-.54	-.21	
*tierx	-.54	-.21		*samc	-.54	-.21	
*valeur	-.47	-.24		*gocc	-.47	-.24	
*camb	-.81	-.24		*navi	-.81	-.24	
*actuel	-.34	-.27		*operatio	-.34	-.27	
*cession	-.54	-.27		*pate	-.54	-.27	
*conseila	-.54	-.33		*filia	-.54	-.33	
*magasin	.47	-.93		*dock	.47	-.93	
*allo	.67	-.93		*sfpi	.67	-.93	

NOMBRE DE POINTS DOUBLES = 95

ANNEXE n° 8

LES MOTIVATIONS EXPLICITES

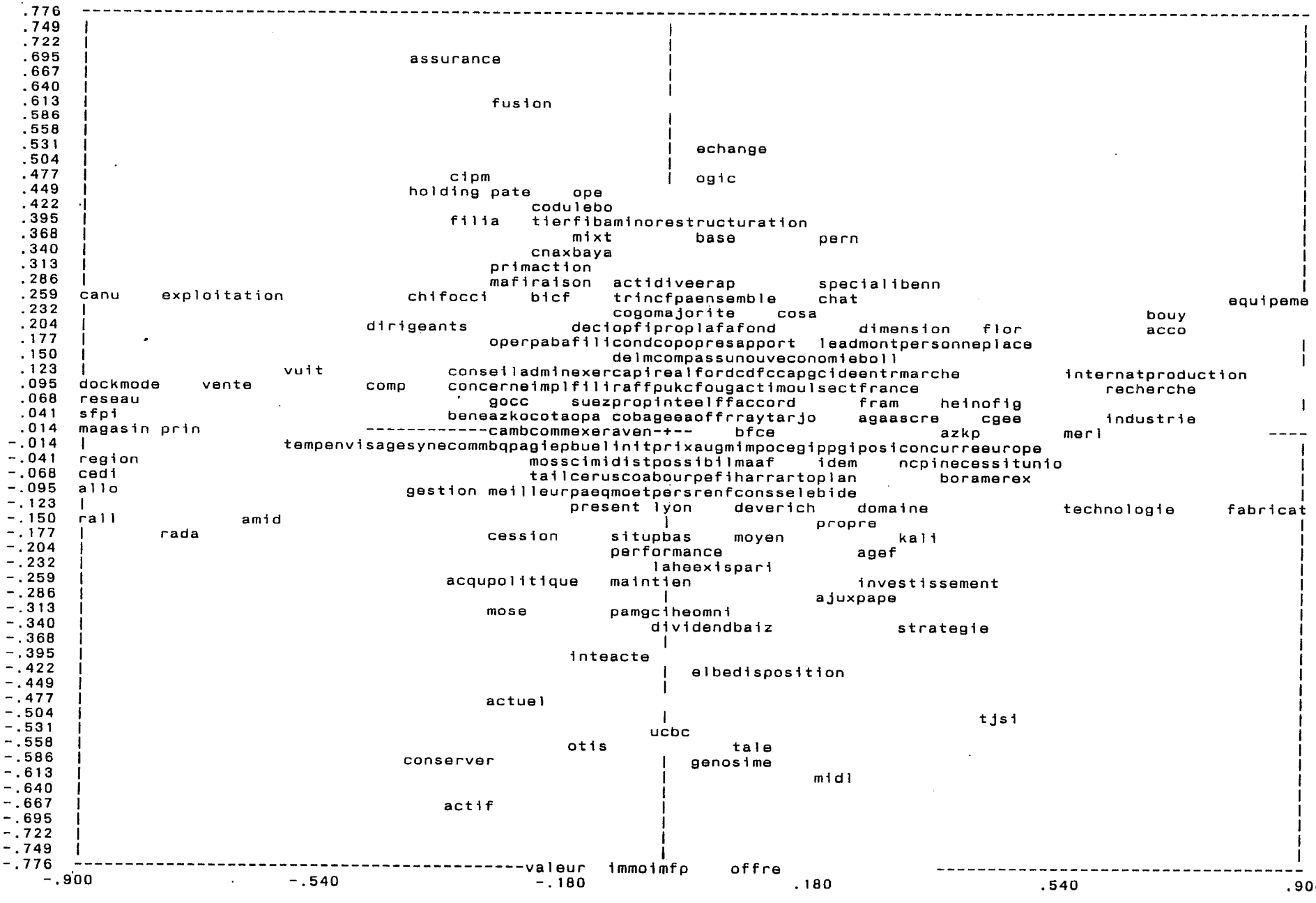
LA REPRESENTATION GRAPHIQUE DES AXES n° 2 et n° 3 A.F.C. n° 1

PLAN DE PROJECTION DES 336 POINTS SUR LES AXES 2 ET 3

AXE 2 /HORIZONTAL AXE 3 /VERTICAL

** ATTENTION ** (EPURN-800)
2.5 (1)
LES POINTS CI-DESSOUS ETAIENT A PLUS DE (1) ECARTS-TYPE DU CENTRE ET ONT ETE RAMENES SUR LE CADRE DU GRAPHIQUE

*immobilier	-.20432	-3.14627
*magasin	-3.06082	-.01193
*offre	.13274	-.91950
*region	-1.34591	-.08434
*reseau	-.92592	.06988
*succes	.22575	-1.21261
*valeur	-.20992	-.84418
*allo	-1.28620	-.15252
*canu	-1.02658	.29138
*cedi	-1.20899	-.09918
*dock	-1.49705	.13750
*sfpi	-1.35697	.02992
*cfao	-1.30971	-.01451
*dofa	-1.32519	.04640
*samv	-.18085	-2.18937
*coge	-.16078	-1.63046
*magn	-.22880	-.91459
*samc	-.17472	-1.88993
*imfp	.06539	-1.94667
*neui	-.11170	-1.19793


.776
.749
.722
.695
.667
.640
.613
.586
.558
.531
.504
.477
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assurance
fusion
echange
cipm
ogic
holding pate ope
codulebo
filia tierfibaminorestructuration
mixt base pern
cnaxbaya
primaction
mafiraison actidiveerap specialibenn
canu exploitation chifocci bicf trincfpaensemble chat equipeme
cogomajorite cosa bouy
dirigeants deciopfiproplafafond dimension flor acco
operpabafilicondcopopresapport leadmontpersonneplace
delmcompassunouveconomieboll
vuit conseiladminexercapirealfordcdfccapgcideentrmarche internatproduction
dockmode vente comp concerneimplfiliraffpukcfougactimoulsectfrance recherche
reseau gocc suezpropinteelffaccord fram heinofig
sfpi beneazkocotaopa cobageeaoffrraytarjo agaascre cgee industrie
magasin prin cambcommexeraven bfce azkp meri
tempenvisagesynecommbqpagiepbuelinitprixaugmimpocegippgiposiconcurreeurope
region mosscimidistpossibilmaaf idem ncpinecessitunio
cedi tailceruscoabourpefiharrartoplan boramerex
allo gestion meilleurpaeqmoetpersrenfconsselebide
present lyon deverich domaine technologie fabricat
rall amid propre
rada cession situpbas moyen kali
performance agef
laheexispari
acqupolitique maintien investissement
ajuxpape
mose pamgciheomni
dividendbaiz strategie
inteacte
elbedisposition
actuel
tjsi
ucbc
otis tale
conserver genosime
midl
actif
valeur immoimfp offre
-.900
-.540
-.180
.180
.540
.900

*camb	-.24	-.01		*gtic	-.24	-.01	
*bfce	.12	-.01		*mine	.12	-.01	
*avenir	-.06	-.01		*sduf	-.06	-.01	
*bfce	.12	-.01		*ufbl	.12	-.01	
*magasin	-.84	-.01		*cfao	-.84	-.01	
*avenir	-.06	-.01		*nsms	-.06	-.01	
*augmenta	.06	-.04		*poursuit	.06	-.04	
*augmenta	.06	-.04		*carb	.06	-.04	
*position	.30	-.04		*ebfa	.30	-.04	
*augmenta	.06	-.04		*elec	.06	-.04	
*augmenta	.06	-.04		*heke	.06	-.04	
*initx	-.06	-.04		*idip	-.06	-.04	
*importan	.12	-.04		*meta	.12	-.04	
*prix	.00	-.04		*pech	.00	-.04	
*giep	-.18	-.04		*saul	-.18	-.04	
*buel	-.12	-.04		*simh	-.12	-.04	
*prix	.00	-.04		*tcsf	.00	-.04	
*position	.30	-.04		*vale	.30	-.04	
*prix	.00	-.04		*mumm	.00	-.04	
*augmenta	.06	-.04		*tota	.06	-.04	
*importan	.12	-.04		*hoes	.12	-.04	
*distribu	-.06	-.07		*particip	-.06	-.07	
*possibil	.00	-.07		*pouvoir	.00	-.07	
*distribu	-.06	-.07		*visex	-.06	-.07	
*distribu	-.06	-.07		*geox	-.06	-.07	
*distribu	-.06	-.07		*jall	-.06	-.07	
*moss	-.18	-.07		*schl	-.18	-.07	
*bourse	.00	-.10		*auxe	.00	-.10	
*arto	.18	-.10		*stle	.18	-.10	
*bourse	.00	-.10		*aure	.00	-.10	
*bourse	.00	-.10		*euri	.00	-.10	
*harr	.12	-.10		*euro	.12	-.10	
*plan	.24	-.10		*vish	.24	-.10	
*bora	.42	-.10		*emer	.42	-.10	
*constitu	.12	-.12		*financem	.12	-.12	
*constitu	.12	-.12		*objectif	.12	-.12	
*renforce	.06	-.12		*remy	.06	-.12	
*moet	-.06	-.12		*sgec	-.06	-.12	
*developp	.12	-.15		*itto	.12	-.15	
*developp	.12	-.15		*altu	.12	-.15	
*lahe	.00	-.26		*seag	.00	-.26	

NOMBRE DE POINTS DOUBLES = 107

FIN DE LA PROCEDURE ** APLUM **
analyse des correspondances etude

POINTS MULTIPLES (100 AU MAXIMUM)

POINT VU	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE	POINT CACHE	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE
*ope	-.12	.42	*fipa	-.12	.42
*restruct	.00	.37	*fran	.00	.37
*base	.06	.34	*sude	.06	.34
*prim	-.24	.29	*navi	-.24	.29
*diversif	.00	.26	*axam	.00	.26
*chat	.24	.23	*puks	.24	.23
*cogo	-.06	.20	*pfiz	-.06	.20
*flor	.48	.18	*sevm	.48	.18
*decision	-.12	.18	*sopr	-.12	.18
*conditio	-.06	.15	*controle	-.06	.15
*personne	.36	.15	*produits	.36	.15
*conditio	-.06	.15	*regroupe	-.06	.15
*conditio	-.06	.15	*ardo	-.06	.15
*presente	.06	.15	*cdfh	.06	.15
*presente	.06	.15	*ciga	.06	.15
*presente	.06	.15	*dart	.06	.15
*apport	.12	.15	*engr	.12	.15
*conditio	-.06	.15	*gaze	-.06	.15
*leader	.24	.15	*gran	.24	.15
*operatio	-.24	.15	*icpv	-.24	.15
*personne	.36	.15	*sopa	.36	.15
*personne	.36	.15	*thom	.36	.15
*copo	.00	.15	*tudj	.00	.15
*conditio	-.06	.15	*erus	-.06	.15
*conditio	-.06	.15	*nest	-.06	.15
*compleme	.00	.12	*structur	.00	.12
*assurer	.06	.12	*boud	.06	.12
*economie	.18	.12	*como	.18	.12
*delm	-.06	.12	*doll	-.06	.12
*delm	-.06	.12	*safi	-.06	.12
*nouveau	.12	.12	*nami	.12	.12
*cdfc	.12	.10	*heri	.12	.10
*ford	.06	.10	*jacq	.06	.10
*cdfc	.12	.10	*sofi	.12	.10
*cdfc	.12	.10	*nick	.12	.10
*france	.30	.07	*luch	.30	.07
*raff	-.06	.07	*seli	-.06	.07
*secteur	.24	.07	*sode	.24	.07
*foug	.06	.07	*unia	.06	.07
*foug	.06	.07	*levr	.06	.07
*secteur	.24	.07	*thor	.24	.07
*moul	.18	.07	*mais	.18	.07
*moul	.18	.07	*cgvs	.18	.07
*pukc	.00	.07	*ngxt	.00	.07
*implanta	-.18	.07	*upar	-.18	.07
*propriet	-.06	.04	*enel	-.06	.04
*elff	.06	.04	*lind	.06	.04
*elff	.06	.04	*ropo	.06	.04
*elff	.06	.04	*ross	.06	.04
*hein	.42	.04	*schn	.42	.04
*elff	.06	.04	*alfi	.06	.04
*offrir	.06	.01	*gefi	.06	.01
*opa	-.12	.01	*midi	-.12	.01
*offrir	.06	.01	*poul	.06	.01
*offrir	.06	.01	*cfeo	.06	.01
*sfpi	-.84	.01	*dofa	-.84	.01
*agaa	.30	.01	*gefc	.30	.01
*agaa	.30	.01	*poli	.30	.01
*avenir	-.06	-.01	*dena	-.06	-.01

ANNEXE n° 9

LES MOTIVATIONS EXPLICITES

LES VALEURS PROPRES (A.F.C. n° 2)

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS :

TRACE AVANT DIAGONALISATION 2.3931
SOMME DES VALEURS PROPRES 2.3931

HISTOGRAMME DES212 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	.1575	6.58	6.58	**********
2	.0896	3.74	10.32	**********
3	.0814	3.40	13.73	**********
4	.0746	3.12	16.84	**********
5	.0696	2.91	19.75	**********
6	.0690	2.88	22.64	**********
7	.0655	2.74	25.37	**********
8	.0642	2.68	28.06	**********
9	.0629	2.63	30.68	**********
10	.0533	2.23	32.91	**********
11	.0514	2.15	35.06	**********
12	.0503	2.10	37.16	**********
13	.0461	1.93	39.09	**********
14	.0454	1.90	40.99	**********
15	.0429	1.79	42.78	**********
16	.0405	1.69	44.47	**********
17	.0389	1.63	46.10	**********
18	.0376	1.57	47.67	**********
19	.0366	1.53	49.19	**********
20	.0344	1.44	50.63	**********
21	.0338	1.41	52.05	**********
22	.0330	1.38	53.42	**********
23	.0323	1.35	54.78	**********
24	.0305	1.27	56.05	**********
25	.0300	1.25	57.30	**********
26	.0291	1.22	58.52	**********
27	.0286	1.19	59.71	**********
28	.0277	1.16	60.87	**********
29	.0274	1.14	62.01	**********
30	.0266	1.11	63.12	**********
31	.0259	1.08	64.21	**********
32	.0251	1.05	65.25	**********
33	.0246	1.03	66.28	**********
34	.0240	1.00	67.28	**********
35	.0231	.96	68.25	**********
36	.0229	.96	69.20	**********
37	.0225	.94	70.15	**********
38	.0217	.91	71.05	**********
39	.0210	.88	71.93	**********
40	.0206	.86	72.79	**********
41	.0205	.85	73.64	**********
42	.0192	.80	74.44	**********
43	.0190	.79	75.24	**********

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
44	.0187	.78	76.02	**********
45	.0182	.76	76.78	**********
46	.0176	.74	77.52	*********
47	.0171	.72	78.23	*********
48	.0168	.70	78.93	*********
49	.0164	.69	79.62	*********
50	.0161	.67	80.30	*********
51	.0158	.66	80.96	*********
52	.0154	.64	81.60	********
53	.0147	.62	82.22	********
54	.0143	.60	82.82	********
55	.0140	.58	83.40	********
56	.0138	.58	83.98	********
57	.0133	.56	84.54	*******
58	.0131	.55	85.08	*******
59	.0125	.52	85.61	*******
60	.0123	.51	86.12	*******
61	.0122	.51	86.63	*******
62	.0119	.50	87.12	*******
63	.0118	.49	87.62	*******
64	.0112	.47	88.08	******
65	.0110	.46	88.54	******
66	.0108	.45	88.99	******
67	.0101	.42	89.42	******
68	.0097	.41	89.82	*****
69	.0096	.40	90.23	*****
70	.0093	.39	90.62	*****
71	.0091	.38	90.99	*****
72	.0088	.37	91.36	*****
73	.0086	.36	91.72	*****
74	.0085	.36	92.08	*****
75	.0083	.35	92.42	*****
76	.0081	.34	92.76	*****
77	.0079	.33	93.09	****
78	.0075	.31	93.40	****
79	.0075	.31	93.72	****
80	.0070	.29	94.01	****
81	.0067	.28	94.29	****
82	.0066	.28	94.56	****
83	.0064	.27	94.83	****
84	.0063	.26	95.10	****
85	.0062	.26	95.36	****
86	.0059	.25	95.60	****
87	.0058	.24	95.85	***
88	.0056	.23	96.08	***
89	.0054	.22	96.30	***
90	.0052	.22	96.52	***
91	.0051	.21	96.74	***
92	.0048	.20	96.94	***
93	.0047	.20	97.13	***
94	.0046	.19	97.32	***
95	.0043	.18	97.50	***
96	.0040	.17	97.67	***
97	.0038	.16	97.83	**

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
98	.0037	.15	97.98	**
99	.0035	.15	98.13	**
100	.0034	.14	98.27	**
101	.0033	.14	98.41	**
102	.0031	.13	98.54	**
103	.0030	.12	98.66	**
104	.0029	.12	98.78	**
105	.0028	.12	98.90	**
106	.0026	.11	99.01	**
107	.0025	.10	99.11	**
108	.0023	.10	99.21	**
109	.0022	.09	99.30	**
110	.0022	.09	99.39	**
111	.0020	.08	99.47	*
112	.0019	.08	99.55	*
113	.0018	.08	99.63	*
114	.0017	.07	99.70	*
115	.0016	.07	99.77	*
116	.0014	.06	99.82	*
117	.0012	.05	99.88	*
118	.0011	.05	99.92	*
119	.0010	.04	99.96	*
120	.0009	.04	100.00	*
121	.0000	.00	100.00	*
122	.0000	.00	100.00	*
123	.0000	.00	100.00	*
124	.0000	.00	100.00	*
125	.0000	.00	100.00	*
126	.0000	.00	100.00	*
127	.0000	.00	100.00	*
128	.0000	.00	100.00	*
129	.0000	.00	100.00	*
130	.0000	.00	100.00	*
131	.0000	.00	100.00	*
132	.0000	.00	100.00	*
133	.0000	.00	100.00	*
134	.0000	.00	100.00	*
135	.0000	.00	100.00	*
136	.0000	.00	100.00	*
137	.0000	.00	100.00	*
138	.0000	.00	100.00	*
139	.0000	.00	100.00	*
140	.0000	.00	100.00	*
141	.0000	.00	100.00	*
142	.0000	.00	100.00	*
143	.0000	.00	100.00	*
144	.0000	.00	100.00	*
145	.0000	.00	100.00	*
146	.0000	.00	100.00	*
147	.0000	.00	100.00	*
148	.0000	.00	100.00	*
149	.0000	.00	100.00	*
150	.0000	.00	100.00	*
151	.0000	.00	100.00	*

ANNEXE n° 10

LES MOTIVATIONS EXPLICITES

LES COORDONNEES, CONTRIBUTIONS ET COSINUS CARRES DES FORMES (A.F.C. n° 2)

EDITION DES COORDONNEES ET CONTRIBUTIONS DES LIGNES

NOMS	MASSES	DISTO2	COORDONNEES						CONTRIBUTIONS ABSOLUES						COSINUS CARRES					
			F1	F2	F3	F4	F5	F6	F1	F2	F3	F4	F5	F6	F1	F2	F3	F4	F5	F6
accord	.005	6.00	.10	.12	.56	.66	.30	-.42	.0	.1	1.7	2.7	.6	1.2	.00	.00	.05	.07	.02	.03
acquisition	.011	1.41	.05	-.11	.34	.31	.07	.10	.0	.2	1.6	1.4	.1	.2	.00	:01	.08	.07	.00	.01
actif	.004	4.38	-.61	.02	-.01	.49	.30	.29	1.0	.0	.0	1.4	.6	.5	.08	.00	.00	.05	.02	.02
action	.030	1.24	-.78	.14	.12	-.34	-.03	.09	11.4	.6	.5	4.5	.0	.4	.49	.02	.01	.09	.00	.01
actionnaire	.020	1.06	-.65	.17	.05	-.16	-.06	.03	5.3	.7	.1	.7	.1	.0	.39	.03	.00	.02	.00	.00
activite	.023	.90	.24	-.10	.03	-.22	.22	.08	.8	.3	.0	1.5	1.6	.2	.06	.01	.00	.05	.05	.01
actuel	.005	3.43	-.36	-.04	-.06	.08	-.05	.44	.4	.0	.0	.0	.0	1.4	.04	.00	.00	.00	.00	.06
apport	.008	2.30	-.27	.22	-.07	-.23	.33	-.30	.4	.4	.0	.5	1.2	1.0	.03	.02	.00	.02	.05	.04
assurance	.005	11.20	-.97	-.91	-1.73	.57	-.02	-1.34	2.8	4.2	16.9	2.0	.0	12.0	.08	.07	.27	.03	.00	.16
assurer	.007	1.78	.03	.12	-.26	.23	-.06	-.03	.0	.1	.6	.5	.0	.0	.00	.01	.04	.03	.00	.00
augmentation	.007	2.11	-.22	.00	-.01	-.11	-.02	.08	.2	.0	.0	.1	.0	.1	.02	.00	.00	.01	.00	.00
avenir	.012	.86	-.18	-.04	-.07	-.07	.03	.03	.2	.0	.1	.1	.0	.0	.04	.00	.00	.01	.00	.00
base	.003	5.76	-.16	-.16	.15	-.72	-.57	-.11	.1	.1	.1	2.2	1.4	.1	.00	.00	.00	.09	.06	.00
beneficier	.004	3.71	.01	-.07	.12	.10	.01	.07	.0	.0	.1	.1	.0	.0	.00	.00	.00	.00	.00	.00
bourse	.003	3.31	-.47	.14	.21	-.05	-.02	.02	.5	.1	.2	.0	.0	.0	.07	.01	.01	.00	.00	.00
capital	.014	1.28	-.50	.14	.30	-.05	.00	-.11	2.3	.3	1.6	.0	.0	.3	.20	.02	.07	.00	.00	.01
cession	.004	4.41	-.59	.13	.34	.34	.07	.16	.8	.1	.5	.6	.0	.1	.08	.00	.03	.03	.00	.01
chiffreaffai	.005	3.66	.66	-.65	-.03	-.37	.27	.19	1.5	2.6	.0	1.0	.6	.3	.12	.12	.00	.04	.02	.01
commercial	.008	3.00	.49	-.51	.01	.27	-.50	.04	1.3	2.4	.0	.8	3.0	.0	.08	.09	.00	.02	.08	.00
commun	.005	3.36	.28	-.41	.10	-.06	.10	.11	.2	.9	.1	.0	.1	.1	.02	.05	.00	.00	.00	.00
complementai	.003	4.31	.46	-.18	.18	-.30	.07	.15	.5	.1	.1	.4	.0	.1	.05	.01	.01	.02	.00	.01
concerner	.004	3.36	.34	-.43	-.10	-.09	.13	.00	.3	.9	.1	.0	.1	.0	.03	.05	.00	.00	.01	.00
concurrence	.004	5.18	.66	.43	-.18	.44	-.24	-.04	1.2	.9	.2	1.1	.3	.0	.08	.04	.01	.04	.01	.00
condition	.005	2.67	-.07	-.09	-.28	.23	-.30	-.09	.0	.0	.5	.3	.6	.1	.00	.00	.03	.02	.03	.00
conseiladmin	.003	4.10	-.63	-.15	-.03	.24	.04	-.14	.8	.1	.0	.3	.0	.1	.10	.01	.00	.01	.00	.00
conserver	.003	4.33	-.26	-.29	.18	.22	.01	.61	.1	.3	.1	.2	.0	1.7	.02	.02	.01	.01	.00	.09
constituer	.008	1.59	.16	-.05	-.15	-.04	-.06	-.03	.1	.0	.2	.0	.0	.0	.02	.00	.01	.00	.00	.00
controle	.009	1.60	-.26	-.14	-.08	.01	.01	-.18	.4	.2	.1	.0	.0	.4	.04	.01	.00	.00	.00	.02
cotation	.004	3.86	-.54	.10	.20	-.02	.07	.01	.8	.0	.2	.0	.0	.0	.08	.00	.01	.00	.00	.00
decision	.004	4.16	-.62	.04	.12	-.03	-.10	-.17	.9	.0	.1	.0	.0	.2	.09	.00	.00	.00	.00	.01
developpemen	.024	.62	.36	.01	.06	.09	.20	.13	2.0	.0	.1	.3	1.4	.6	.21	.00	.01	.01	.06	.03
dimension	.003	3.52	.54	.12	-.23	-.34	-.14	.02	.6	.1	.2	.5	.1	.0	.08	.00	.02	.03	.01	.00
dirigeants	.003	6.44	.00	.07	.03	.00	.59	.56	.0	.0	.0	.0	1.7	1.5	.00	.00	.00	.00	.05	.05
disposition	.005	2.44	.10	.12	-.27	.01	.01	.37	.0	.1	.4	.0	.0	.9	.00	.01	.03	.00	.00	.06
distribution	.006	4.29	.62	-.38	.43	.41	.00	-.29	1.4	.9	1.3	1.3	.0	.7	.09	.03	.04	.04	.00	.02
diversificat	.004	3.79	-.10	-.37	-.16	-.54	.12	.20	.0	.6	.1	1.6	.1	.2	.00	.04	.01	.08	.00	.01
dividende	.005	4.35	-.56	.35	-.13	.49	-.61	.37	1.1	.7	.1	1.7	2.8	1.0	.07	.03	.00	.06	.08	.03
domaine	.010	2.21	.45	-.20	.07	-.33	.26	.06	1.2	.4	.1	1.4	.9	.0	.09	.02	.00	.05	.03	.00
echange	.004	4.56	-.51	.25	-.73	-.52	.38	-.07	.6	.3	2.5	1.4	.8	.0	.06	.01	.12	.06	.03	.00
economie	.004	3.75	.32	.16	-.37	-.22	.14	.24	.2	.1	.6	.2	.1	.3	.03	.01	.04	.01	.01	.01
ensemble	.008	1.55	.03	-.12	-.31	.00	.05	-.33	.0	.1	1.0	.0	.0	1.3	.00	.01	.06	.00	.00	.07
entreprise	.009	2.96	.17	.70	-.73	-.05	.71	.32	.2	4.8	5.8	.0	6.4	1.3	.01	.16	.18	.00	.17	.04
envisager	.005	2.60	-.19	-.24	.07	.16	.15	.15	.1	.4	.0	.2	.2	.2	.01	.02	.00	.01	.01	.01
equipement	.005	5.98	.72	.84	-.65	-.42	.12	-.20	1.6	3.8	2.5	1.1	.1	.3	.09	.12	.07	.03	.00	.01
europe	.008	2.53	.55	.37	-.04	.15	-.13	-.23	1.6	1.2	.0	.3	.2	.6	.12	.05	.00	.01	.01	.02
exercer	.003	4.41	-.03	-.20	.25	-.05	.22	.15	.0	.1	.2	.0	.2	.1	.00	.01	.01	.00	.01	.01
exercice	.003	5.74	-.73	-.04	-.37	.14	-.64	.10	1.0	.0	.5	.1	1.7	.0	.09	.00	.02	.00	.07	.00
existence	.003	4.41	.09	-.11	.04	.41	-.20	-.03	.0	.0	.0	.7	.2	.0	.00	.00	.00	.04	.01	.00
exploitation	.005	5.21	.11	-.75	-.59	.37	-.18	-.03	.0	2.8	2.0	.9	.2	.0	.00	.11	.07	.03	.01	.00
fabrication	.004	7.50	.76	.73	.29	-.18	-.90	-.14	1.4	2.3	.4	.2	4.5	.1	.08	.07	.01	.00	.11	.00
filia	.011	3.90	-.63	-.48	-.91	.36	-.39	-.70	2.7	2.7	10.9	1.8	2.3	7.5	.10	.06	.21	.03	.04	.13
filiale	.011	1.35	-.03	-.37	.08	-.11	.12	-.20	.0	1.7	.1	.2	.2	.7	.00	.10	.00	.01	.01	.03
filix	.018	2.06	.21	-.59	.24	-.31	.26	-.19	.5	6.9	1.2	2.2	1.8	1.0	.02	.17	.03	.05	.03	.02
financement	.012	1.70	-.15	.24	-.10	.22	.07	.14	.2	.8	.1	.8	.1	.3	.01	.03	.01	.03	.00	.01
france	.017	1.21	.57	.16	-.20	.01	.17	-.24	3.6	.5	.9	.0	.7	1.5	.27	.02	.03	.00	.02	.05
fusion	.005	6.57	-.94	-.06	.13	-1.45	-.29	.44	2.9	.0	.1	14.5	.6	1.5	.13	.00	.00	.32	.01	.03
gestion	.007	2.21	-.02	-.33	-.03	.05	.16	.31	.0	.9	.0	.0	.3	1.0	.00	.05	.00	.00	.01	.04

holding	.003	5.18	*	-.67	-.35	-.44	-.24	-.02	-.20	*	1.0	.5	.8	.3	.0	.2	*	.09	.02	.04	.01	.00	.01	*
implantation	.004	3.84	*	.68	-.50	.10	.04	.30	.13	*	1.3	1.2	.1	.0	.6	.1	*	.12	.07	.00	.00	.02	.00	*
important	.011	1.29	*	.09	.05	-.24	.08	.02	-.02	*	.1	.0	.8	.1	.0	.0	*	.01	.00	.05	.00	.00	.00	*
industrie	.013	1.94	*	.54	.51	.14	-.22	.01	-.29	*	2.4	3.8	.3	.8	.0	1.6	*	.15	.14	.01	.02	.00	.04	*
initx	.064	.31	*	-.03	-.13	.15	-.03	.06	.17	*	.0	1.2	1.9	.1	.4	2.5	*	.00	.05	.08	.00	.01	.09	*
intention	.009	1.82	*	-.08	-.06	.21	.23	.04	.21	*	.0	.0	.5	.7	.0	.6	*	.00	.00	.02	.03	.00	.03	*
interet	.005	3.06	*	-.35	-.14	-.05	.11	.18	-.14	*	.4	.1	.0	.1	.2	.1	*	.04	.01	.00	.00	.01	.01	*
internationa	.014	1.95	*	.68	.40	-.35	-.06	.29	-.17	*	4.2	2.5	2.1	.1	1.8	.6	*	.24	.08	.06	.00	.04	.02	*
investisseme	.006	2.96	*	-.04	.41	-.02	.24	-.01	.27	*	.0	1.2	.0	.5	.0	.7	*	.00	.06	.00	.02	.00	.03	*
leader	.008	2.25	*	.58	-.10	-.07	-.33	-.09	-.08	*	1.6	.1	.0	1.1	.1	.1	*	.15	.00	.00	.05	.00	.00	*
maintien	.006	1.84	*	.15	.01	-.06	.50	-.04	.19	*	.1	.0	.0	1.9	.0	.3	*	.01	.00	.00	.14	.00	.02	*
majorite	.004	4.84	*	-.41	.14	.46	-.01	.14	-.38	*	.4	.1	1.0	.0	.1	.8	*	.04	.00	.04	.00	.00	.03	*
marche	.017	1.65	*	.35	.09	-.09	-.22	-.54	-.08	*	1.3	.1	.2	1.1	7.1	.2	*	.07	.00	.01	.03	.18	.00	*
meilleur	.003	5.88	*	.30	-.33	.09	.24	-.29	.20	*	.2	.4	.0	.2	.4	.2	*	.02	.02	.00	.01	.01	.01	*
merex	.012	4.60	*	.28	.59	.94	.02	-.03	-1.06	*	.6	4.7	12.7	.0	.0	19.1	*	.02	.08	.19	.00	.00	.24	*
minoritaire	.003	7.70	*	-.80	.23	.52	-.25	-.39	-.09	*	1.2	.2	1.0	.3	.6	.0	*	.08	.01	.04	.01	.02	.00	*
moyen	.007	1.83	*	.33	.11	-.03	.16	-.02	.15	*	.5	.1	.0	.2	.0	.2	*	.06	.01	.00	.01	.00	.01	*
necessite	.008	2.08	*	.24	.52	-.37	.26	.10	-.04	*	.3	2.5	1.4	.7	.1	.0	*	.03	.13	.07	.03	.00	.00	*
nouveau	.012	1.44	*	.00	.02	-.14	-.32	.00	-.06	*	.0	.0	.3	1.6	.0	.1	*	.00	.00	.01	.07	.00	.00	*
objectif	.010	1.65	*	-.11	.23	-.27	.19	.18	.08	*	.1	.6	.8	.4	.5	.1	*	.01	.03	.04	.02	.02	.00	*
offre	.006	4.69	*	-.10	.49	.31	.73	-.58	.45	*	.0	1.7	.8	4.6	3.1	1.9	*	.00	.05	.02	.11	.07	.04	*
offrir	.003	3.94	*	-.16	.20	.28	.00	.01	-.07	*	.1	.1	.3	.0	.0	.0	*	.01	.01	.02	.00	.00	.00	*
opa	.004	4.55	*	-.43	.34	.14	.51	.13	.14	*	.5	.5	.1	1.4	.1	.1	*	.04	.03	.00	.06	.00	.00	*
ope	.003	5.56	*	-.80	-.17	-.03	-.95	-.17	.01	*	1.4	.1	.0	4.1	.1	.0	*	.12	.01	.00	.16	.00	.00	*
operation	.009	1.86	*	-.42	.06	-.04	-.05	.03	-.02	*	1.0	.0	.0	.0	.0	.0	*	.10	.00	.00	.00	.00	.00	*
participatio	.012	1.73	*	-.43	-.03	.23	.11	.23	-.18	*	1.4	.0	.7	.2	.9	.5	*	.11	.00	.03	.01	.03	.02	*
performance	.014	1.32	*	-.05	.01	-.13	.26	-.29	.26	*	.0	.0	.3	1.3	1.7	1.4	*	.00	.00	.01	.05	.06	.05	*
personnel	.007	4.95	*	.22	.80	-.92	-.13	.74	.48	*	.2	4.8	7.0	.2	5.3	2.3	*	.01	.13	.17	.00	.11	.05	*
perspective	.003	3.89	*	-.41	.00	-.17	.30	-.13	.12	*	.3	.0	.1	.4	.1	.1	*	.04	.00	.01	.02	.00	.00	*
place	.004	10.47	*	.71	-.31	-.31	-.78	-.85	-.07	*	1.2	.4	.4	3.0	3.9	.0	*	.05	.01	.01	.06	.07	.00	*
plan	.004	4.51	*	.45	.14	.21	.07	-.29	.38	*	.6	.1	.2	.0	.5	.9	*	.05	.00	.01	.00	.02	.03	*
politique	.008	1.75	*	.24	-.16	.18	.25	.12	.31	*	.3	.2	.3	.7	.2	1.1	*	.03	.02	.02	.04	.01	.05	*
position	.005	3.04	*	.20	.13	-.13	.30	-.28	-.21	*	.1	.1	.1	.5	.5	.3	*	.01	.01	.01	.03	.03	.01	*
possibilite	.024	.55	*	-.02	.04	.08	.03	-.12	.06	*	.0	.0	.2	.0	.5	.1	*	.00	.00	.01	.00	.03	.01	*
poursuite	.005	2.40	*	-.09	.08	-.13	.11	.15	.31	*	.0	.0	.1	.1	.2	.7	*	.00	.00	.01	.00	.01	.04	*
pouvoir	.013	1.20	*	-.22	.07	-.06	-.01	.05	.05	*	.4	.1	.1	.0	.0	.1	*	.04	.00	.00	.00	.00	.00	*
present	.004	3.60	*	-.32	.14	.08	.23	-.13	.16	*	.3	.1	.0	.3	.1	.2	*	.03	.01	.00	.01	.00	.01	*
presenter	.003	3.25	*	-.17	.08	-.12	-.22	-.17	-.06	*	.1	.0	.1	.2	.1	.0	*	.01	.00	.00	.01	.01	.00	*
prix	.004	5.47	*	-.31	.36	.27	.27	-.81	.13	*	.2	.6	.3	.4	3.6	.1	*	.02	.02	.01	.01	.12	.00	*
production	.006	6.15	*	.72	.53	-.11	-.40	-.73	-.22	*	1.9	1.8	.1	1.2	4.3	.4	*	.08	.05	.00	.03	.09	.01	*
produits	.008	3.19	*	.71	-.11	.15	-.28	-.50	-.26	*	2.5	.1	.2	.8	2.8	.8	*	.16	.00	.01	.02	.08	.02	*
proposer	.005	3.58	*	-.50	.12	.06	-.20	-.06	.13	*	.8	.1	.0	.3	.0	.1	*	.07	.00	.00	.01	.00	.00	*
propre	.004	3.81	*	-.02	.07	-.48	.39	.04	-.06	*	.0	.0	1.1	.7	.0	.0	*	.00	.00	.06	.04	.00	.00	*
proprietaire	.011	1.51	*	-.44	.05	.21	.05	.01	-.12	*	1.4	.0	.6	.0	.0	.2	*	.13	.00	.03	.00	.00	.01	*
raison	.005	4.30	*	-.42	-.08	-.29	-.40	-.34	.18	*	.5	.0	.5	1.0	.8	.2	*	.04	.00	.02	.04	.03	.01	*
realisation	.007	1.87	*	-.03	-.19	-.11	-.31	.06	.12	*	.0	.3	.1	.9	.0	.1	*	.00	.02	.01	.05	.00	.01	*
recherche	.003	7.99	*	.61	.35	.13	-.15	.28	-.01	*	.7	.4	.1	.1	.3	.0	*	.05	.01	.00	.00	.01	.00	*
region	.003	8.19	*	.66	-1.19	.17	.15	.72	.60	*	.9	5.4	.1	.1	2.6	1.8	*	.05	.17	.00	.00	.06	.04	*
regroupement	.012	1.55	*	.36	-.24	-.06	-.06	-.02	-.05	*	1.0	.8	.1	.1	.0	.1	*	.08	.04	.00	.00	.00	.00	*
renforcement	.006	2.10	*	.25	-.13	.20	.07	.10	.15	*	.2	.1	.3	.0	.1	.2	*	.03	.01	.02	.00	.00	.01	*
reseau	.006	4.84	*	.55	-1.10	.15	.35	-.29	-.18	*	1.2	8.0	.2	1.0	.7	.3	*	.06	.25	.00	.03	.02	.01	*
restructurat	.004	4.26	*	-.09	.06	-.18	-.32	-.61	-.26	*	.0	.0	.2	.6	2.2	.4	*	.00	.00	.01	.02	.09	.02	*
secteur	.009	1.99	*	.33	-.14	-.19	-.29	.14	.09	*	.6	.2	.4	1.1	.2	.1	*	.06	.01	.02	.04	.01	.00	*
situation	.004	4.99	*	-.62	.32	-.14	.29	-.31	.05	*	.9	.4	.1	.4	.5	.0	*	.08	.02	.00	.02	.02	.00	*
specialisati	.003	7.17	*	.52	-.12	-.24	-.52	-.58	-.05	*	.6	.1	.2	1.2	1.6	.0	*	.04	.00	.01	.04	.05	.00	*
strategie	.003	6.29	*	.38	.38	.20	.57	.05	.10	*	.3	.5	.2	1.5	.0	.1	*	.02	.02	.01	.05	.00	.00	*
structure	.005	2.50	*	.09	-.15	.10	-.49	-.01	-.08	*	.0	.1	.1	1.8	.0	.0	*	.00	.01	.00	.10	.00	.00	*
succes	.004	4.44	*	.21	.35	.11	.73	-.23	.28	*	.1	.5	.1	2.8	.3	.4	*	.01	.03	.00	.12	.01	.02	*
synergie	.004	3.77	*	.53	-.64	.05	.33	.05	.22	*	.8	2.0	.0	.6	.0	.3	*	.07	.11	.00	.03	.00	.01	*
technologie	.005	2.89	*	.56	.47	.03	.10	-.09	-.11	*	1.1	1.4	.0	.1	.1	.1	*	.11	.08	.00	.00	.00	.00	*
tierx	.010	5.59	*	-.57	.05	.47	.15	.93	-.93	*	2.0	.0	2.7	.3	12.0	12.3	*	.06	.00	.04	.00	.15	.16	*
valeur	.004	5.14	*	-.40	-.09	-.03	.37	.00	.48	*	.4	.0	.0	.7	.0	1.3	*	.03	.00	.00	.03	.00	.05	*
vente	.004	5.05	*	.51	-.58	.28	.21	-.24	.11	*	.7	1.6	.4	.2	.3	.1	*	.05	.07	.02	.01	.01	.00	*
visex	.078	.17	*	-.10	-.02	.08	.11	-.03	.03	*	.5	.1	.5	1.2	.1	.1	*	.07	.00	.03	.07	.01	.00	*

ANNEXE n° 11

LES MOTIVATIONS EXPLICITES

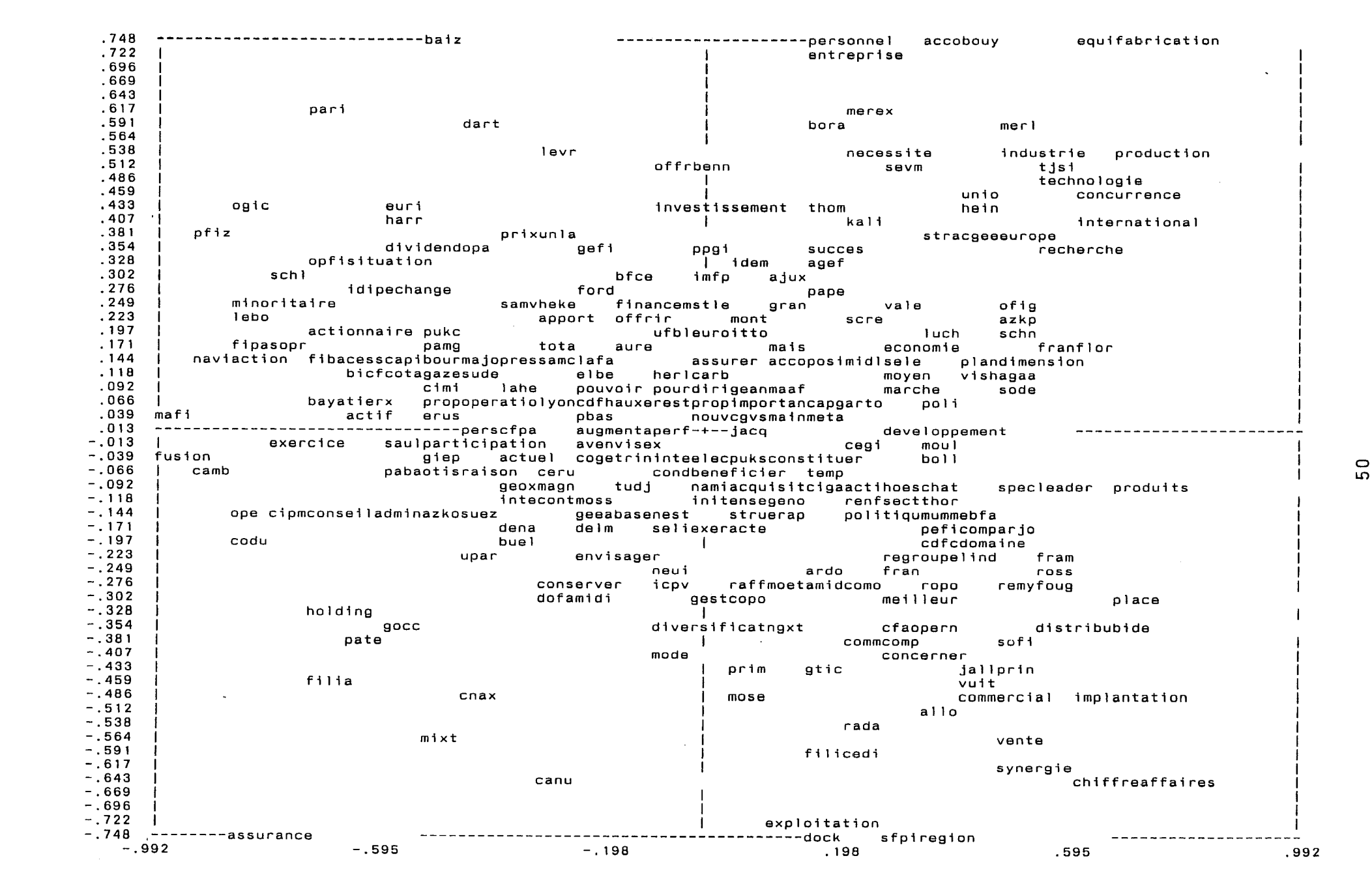
LA REPRESENTATION GRAPHIQUE DES AXES n° 1 et n° 2 (A.F.C. n° 2)

PLAN DE PROJECTION DES 334 POINTS SUR LES AXES 1 ET 2

AXE 1 /HORIZONTAL AXE 2 /VERTICAL

** ATTENTION ** (EPURN-800)
2.5 (1)
LES POINTS CI-DESSOUS ETAIENT A PLUS DE (1) ECARTS-TYPE DU CENTRE ET ONT ETE RAMENES SUR LE CADRE DU GRAPHIQUE

*assurance	-.97475	-.90668
*equipement	.71569	.83770
*personnel	.22209	.79660
*region	.65626	-1.19412
*reseau	.55012	-1.09553
*acco	.55877	1.01807
*bouy	.59400	.98295
*dock	.22569	-.95134
*sfpi	.58768	-1.28492


.748 baiz personnel accobouy equifabrication
.722 entreprise
.696
.669
.643
.617 pari merex
.591 dart bora merl
.564
.538 levr necessite industrie production
.512 offrbenn sevm tjsi
.486 technologie
.459 unio concurrence
.433 ogic euri investissement thom hein
.407 harr kali international
.381 pfiz prixunla stracgeeeurope
.354 dividendopa gefi ppgi succes recherche
.328 opfisituation idem agef
.302 schl bfce imfp ajux
.276 idipechange ford pape
.249 minoritaire samvheke financemstle gran vale ofig
.223 lebo apport offrir mont scre azkp
.197 actionnaire pukc ufbleuroitto luch schn
.171 fipasopr pamg tota aure mais economie franflor
.144 naviaction fibacesscapibourmajopressamclafa assurer accoposimidlsele plandimension
.118 bicfcotagazesude elbe herlcarb moyen vishagaa
.092 cimi lahe pouvoir pourdirigeanmaaf marche sode
.066 bayatierx propoperatiolyoncdfhauxerestpropimportancapgarto poli
.039 mafi actif erus pbas nouvcgvsmainmeta
.013 perscfpa augmentaperf-+--jacq developpement
-.013 exercice saulparticipation avenvisex cegi moul
-.039 fusion giep actuel cogetrininteelecpuksconstituer boll
-.066 camb pabaotisraison ceru condbeneficier temp
-.092 geoxmagn tudj namiacquisitcigaactihoeschat specleader produits
-.118 intecontmoss initensegeno renfsectthor
-.144 ope cipmconseiladminazkosuez geeabasenest struerap politiqumummebfa
-.171 dena delm seliexeracte peficomparjo
-.197 codu buel cdfcdomaine
-.223 upar envisager regroupelind fram
-.249 neui ardo fran ross
-.276 conserver icpv raffmoetamidcomo ropo remyfoug
-.302 dofamidi gestcopo meilleur place
-.328 holding
-.354 gocc diversificatngxt cfaopern distribubide
-.381 pate commcomp sofi
-.407 mode concerner
-.433 prim gtic jallprin
-.459 filia vuit
-.486 cnax mose commercial implantation
-.512 allo
-.538 rada
-.564 mixt vente
-.591 filicedi
-.617 synergie
-.643 canu chiffreaffaires
-.669
-.696
-.722 exploitation
-.748 assurance dock sfpiregion
-.992 -.595 -.198 .198 .595 .992

POINTS MULTIPLES (100 AU MAXIMUM)

POINT VU	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE	POINT CACHE	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE
*unio	.46	.43	*emer	.46	.43
*investis	-.07	.41	*rich	-.07	.41
*prix	-.33	.35	*fond	-.33	.35
*succes	.20	.33	*cide	.20	.33
*financem	-.13	.22	*objectif	-.13	.22
*scre	.26	.20	*gefc	.26	.20
*actionna	-.66	.17	*paeq	-.66	.17
*accord	.13	.12	*disposit	.13	.12
*majorite	-.40	.12	*olid	-.40	.12
*lafa	-.20	.12	*ucbc	-.20	.12
*capital	-.53	.12	*bqpa	-.53	.12
*plan	.46	.12	*ncpi	.46	.12
*cotation	-.53	.09	*proposer	-.53	.09
*carb	.00	.09	*engr	.00	.09
*pouvoir	-.20	.07	*presente	-.20	.07
*dirigean	.00	.07	*omni	.00	.07
*pouvoir	-.20	.07	*poul	-.20	.07
*auxe	-.13	.04	*cihe	-.13	.04
*arto	.26	.04	*mine	.26	.04
*propriet	-.46	.04	*safi	-.46	.04
*capg	.20	.04	*sime	.20	.04
*propre	.00	.04	*tale	.00	.04
*propre	.00	.04	*altu	.00	.04
*auxe	-.13	.04	*alfi	-.13	.04
*propriet	-.46	.04	*nsms	-.46	.04
*actif	-.60	.01	*decision	-.60	.01
*nouveau	.00	.01	*possibil	.00	.01
*jacq	.07	-.01	*seag	.07	-.01
*visex	-.13	-.04	*coba	-.13	-.04
*visex	-.13	-.04	*pech	-.13	-.04
*avenir	-.20	-.04	*scoa	-.20	-.04
*particip	-.46	-.04	*tail	-.46	-.04
*raison	-.40	-.09	*valeur	-.40	-.09
*benefici	.00	-.09	*elff	.00	-.09
*ceru	-.26	-.09	*enel	-.26	-.09
*camb	-.86	-.09	*occi	-.86	-.09
*conditio	-.07	-.09	*sgec	-.07	-.09
*acquisit	.07	-.12	*existenc	.07	-.12
*leader	.60	-.12	*sopa	.60	-.12
*acquisit	.07	-.12	*tcsf	.07	-.12
*renforce	.26	-.14	*cosa	.26	-.14
*secteur	.33	-.14	*rayt	.33	-.14
*structur	.07	-.17	*bouc	.07	-.17
*structur	.07	-.17	*cfeo	.07	-.17
*erap	.13	-.17	*nick	.13	-.17
*exercer	.00	-.20	*realisat	.00	-.20
*delm	-.20	-.20	*simh	-.20	-.20
*envisage	-.20	-.25	*cogo	-.20	-.25
*envisage	-.20	-.25	*axam	-.20	-.25
*amid	.20	-.30	*doll	.20	-.30
*moet	.13	-.30	*sduf	.13	-.30
*diversif	-.07	-.38	*filiale	-.07	-.38
*vuit	.46	-.49	*rall	.46	-.49
*region	.40	-.77	*reseau	.40	-.77

NOMBRE DE POINTS DOUBLES = 54

ANNEXE n° 12

LES MOTIVATIONS EXPLICITES

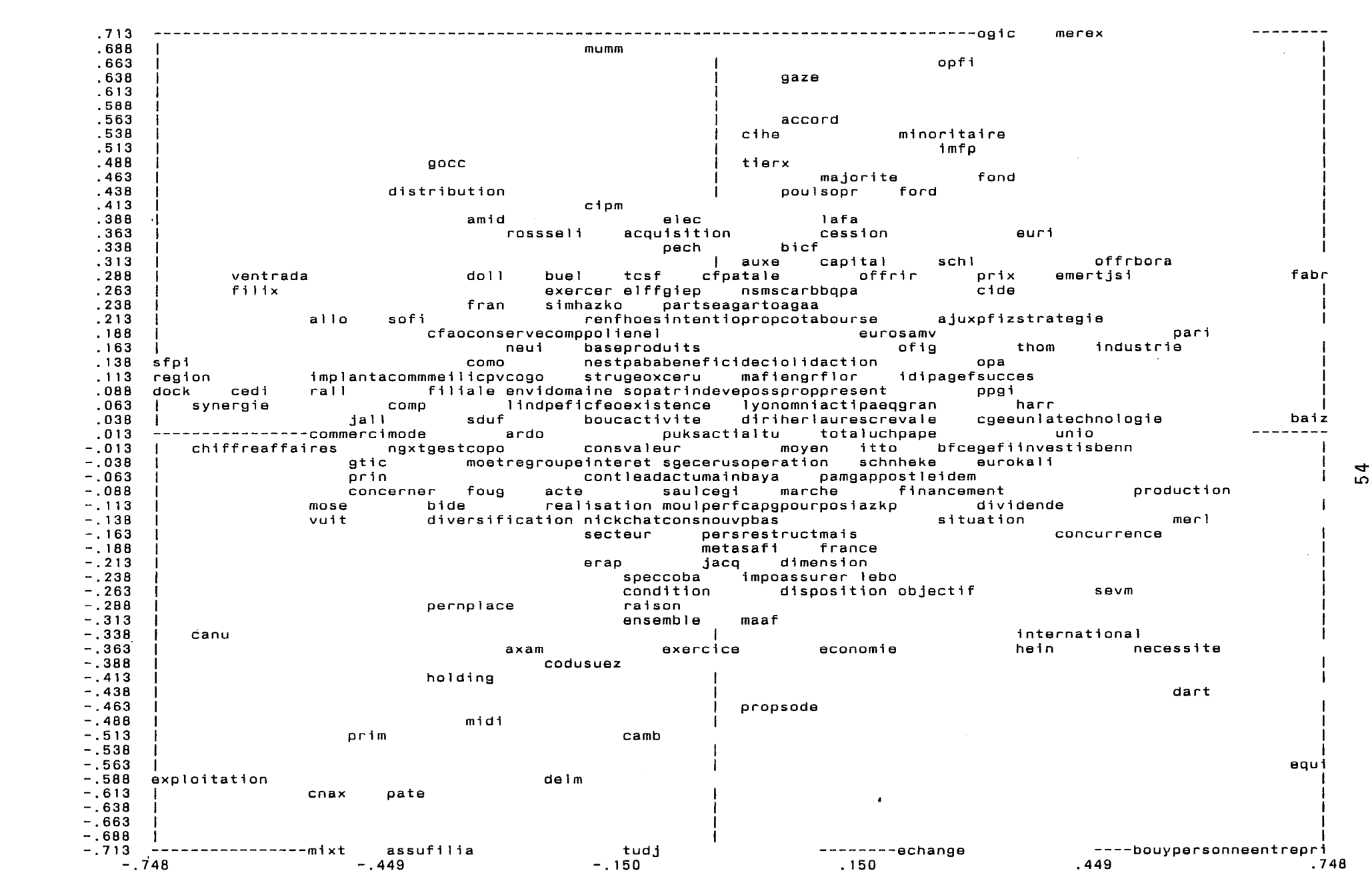
LA REPRESENTATION GRAPHIQUE DES AXES n° 2 et n° 3 (A.F.C. n° 2)

PLAN DE PROJECTION DES 334 POINTS SUR LES AXES 2 ET 3

AXE 2 /HORIZONTAL AXE 3 /VERTICAL

** ATTENTION ** (EPURN-800)
2.5 (1)
LES POINTS CI-DESSOUS ETAIENT A PLUS DE (1) ECARTS-TYPE DU CENTRE ET.ONT ETE RAMENES SUR LE CADRE DU GRAPHIQUE

*assurance	-.90668	-1.72727
*echange	.25328	-.73444
*entreprise	.69616	-.72832
*equipement	.83770	-.65390
*filia	-.47907	-.91404
*merex	.59483	.93561
*personnel	.79660	-.91756
*region	-1.19412	.17384
*reseau	-1.09553	.14894
*acco	1.01807	-1.24699
*bouy	.98295	-1.24681
*dock	-.95134	.09946
*mixt	-.57845	-.84921
*ogic	.42892	.89271
*sfpi	-1.28492	.19407
*tudj	-.11105	-.77645


.713 ogic merex
.688 mumm
.663 opfi
.638 gaze
.588 accord
.538 cihe minoritaire
.513 imfp
.488 gocc tierx
.463 majorite fond
.438 distribution poulsopr ford
.413 cipm
.388 amid elec lafa
.363 rossseli acquisition cession euri
.338 pech bicf
.313 auxe capital schl offrbora
.288 ventrada doll buel tcsf cfpatale offrir prix emertjsi fabr
.263 filix exercer elffgiep nsmscarbbqpa cide
.238 fran simhazko partseagartoagaa
.213 allo sofi renfhoesintentiopropcotabourse ajuxpfizstrategie
.188 cfaoconservecomppolienel eurosamv pari
.163 neui baseproduits ofig thom industrie
.138 sfpi como nestpababeneficideciolidaction opa
.113 region implantacommmeilicpvcogo strugeoxceru mafiengrflor idipagefsucces
.088 dock cedi rall filiale envidomaine sopatrindevepossproppresent ppgi
.063 synergie comp lindpeficfeoexistence lyonomniactipaeqgran harr
.038 jall sduf boucactivite diriherlaurescrevale cgeeunlatechnologie baiz
.013 commercimode ardo puksactialtu totaluchpape unio
-.013 chiffreaffaires ngxtgestcopo consvaleur moyen itto bfcegefiinvestisbenn
-.038 gtic moetregroupeinteret sgecerusoperation schnheke eurokali
-.063 prin contleadactumainbaya pamgappostleidem
-.088 concerner foug acte saulcegi marche financement production
-.113 mose bide realisation moulperfcapgpourposiazkp dividende
-.138 vuit diversification nickchatconsnouvpbas situation merl
-.163 secteur persrestructmais concurrence
-.188 metasafi france
-.213 erap jacq dimension
-.238 speccoba impoassurer lebo
-.263 condition disposition objectif sevm
-.288 pernplace raison
-.313 ensemble maaf
-.338 canu international
-.363 axam exercice economie hein necessite
-.388 codusuez
-.413 holding
-.438 dart
-.463 propsode
-.488 midi
-.513 prim camb
-.538
-.563 equi
-.588 exploitation delm
-.613 cnax pate
-.638
-.663
-.688
-.713 mixt assufilia tudj echange bouypersonneentrepri
-.748 -.449 -.150 .150 .449 .748

POINTS MULTIPLES (100 AU MAXIMUM)

POINT VU	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE
*poul	.10	.41
*amid	-.30	.36
*lafa	.15	.36
*cession	.15	.34
*cfpa	.00	.26
*exercer	-.20	.24
*giep	-.05	.24
*azko	-.15	.21
*fran	-.30	.21
*bourse	.15	.19
*cotation	.10	.19
*enel	-.10	.16
*euro	.20	.16
*base	-.15	.14
*produits	-.10	.14
*produits	-.10	.14
*produits	-.10	.14
*benefici	-.05	.11
*opa	.35	.11
*decision	.05	.11
*decision	.05	.11
*como	-.30	.11
*action	.15	.11
*olid	.10	.11
*region	-.70	.09
*engr	.10	.09
*geox	-.10	.09
*icpv	-.30	.09
*flor	.15	.09
*cogo	-.25	.09
*mafi	.05	.09
*developp	.00	.06
*domaine	-.20	.06
*proposer	.10	.06
*actionna	.15	.04
*harr	.40	.04
*lind	-.25	.04
*bouc	-.15	.01
*bouc	-.15	.01
*actif	.00	-.01
*luch	.20	-.01
*actif	.00	-.01
*conseila	-.15	-.04
*conseila	-.15	-.04
*itto	.20	-.04
*operatio	.05	-.06
*operatio	.05	-.06
*actuel	-.05	-.09
*actuel	-.05	-.09
*leader	-.10	-.09
*baya	.05	-.09
*apport	.20	-.09
*leader	-.10	-.09
*poursuit	.10	-.14
*realisat	-.20	-.14
*poursuit	.10	-.14
*moul	-.05	-.14
*pbas	.05	-.16
*chat	-.10	-.16

POINT CACHE	ABSCISSE APPROCHEE	ORDONNEE APPROCHEE
*ncpi	.10	.41
*ropo	-.30	.36
*navi	.15	.36
*sele	.15	.34
*scoa	.00	.26
*dena	-.20	.24
*coge	-.05	.24
*moss	-.15	.21
*raff	-.30	.21
*plan	.15	.19
*sude	.10	.19
*occi	-.10	.16
*gefc	.20	.16
*initx	-.15	.14
*otis	-.10	.14
*temp	-.10	.14
*magn	-.10	.14
*fusion	-.05	.11
*recherch	.35	.11
*cdfh	.05	.11
*mine	.05	.11
*dofa	-.30	.11
*samc	.15	.11
*elbe	.10	.11
*reseau	-.70	.09
*fiba	.10	.09
*rayt	-.10	.09
*remy	-.30	.09
*ucbc	.15	.09
*fram	-.25	.09
*alfi	.05	.09
*visex	.00	.06
*cdfc	-.20	.06
*vish	.10	.06
*fipa	.15	.04
*rich	.40	.04
*upar	-.25	.04
*cosa	-.15	.01
*ebfa	-.15	.01
*augmenta	.00	-.01
*pukc	.20	-.01
*-+--	.00	-.01
*ope	-.15	-.04
*geea	-.15	-.04
*mont	.20	-.04
*pouvoir	.05	-.06
*lahe	.05	-.06
*avenir	-.05	-.09
*boll	-.05	-.09
*ciga	-.10	-.09
*sime	.05	-.09
*ufbl	.20	-.09
*nami	-.10	-.09
*presente	.10	-.14
*arjo	-.20	-.14
*cimi	.10	-.14
*tail	-.05	-.14
*poli	.05	-.16
*thor	-.10	-.16

*secteur	-.15	-.19		*geno	-.15	-.19	
*france	.15	-.21		*midl	.15	-.21	
*jacq	.00	-.24		*cgvs	.00	-.24	
*necessit	.55	-.39		*levr	.55	-.39	
*personne	.60	-.74		*acco	.60	-.74	

NOMBRE DE POINTS DOUBLES = 64

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FIN DE LA PROCEDURE ** APLUM **
analyse des correspondances etude

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** STOP : FIN DE L'ANALYSE **

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ANNEXE n° 13

LES MOTIVATIONS EXPLICITES

L'HISTOGRAMME DES INDICES DE NIVEAU
(partition des motivations générales)

CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES 50 NOEUDS D'INDICES LES PLUS ELEVES

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
376	341	368	5	551.00	.00140	*
377	312	176	3	476.00	.00140	*
378	334	344	9	771.00	.00141	*
379	342	304	4	516.00	.00157	**
380	166	138	2	145.00	.00158	**
381	350	380	6	569.00	.00164	**
382	352	327	8	928.00	.00168	**
383	178	363	8	596.00	.00177	**
384	315	364	10	1011.00	.00181	**
385	347	353	10	677.00	.00181	**
386	374	339	6	612.00	.00187	**
387	366	345	8	586.00	.00191	**
388	305	371	8	940.00	.00192	**
389	360	184	4	392.00	.00194	**
390	355	343	5	437.00	.00218	**
391	384	378	19	1782.00	.00244	**
392	348	351	7	374.00	.00247	**
393	356	377	10	976.00	.00261	**
394	340	365	13	800.00	.00268	**
395	357	372	8	815.00	.00299	***
396	369	373	18	1797.00	.00302	***
397	385	362	22	1274.00	.00323	***
398	370	375	15	782.00	.00323	***
399	367	320	16	1140.00	.00349	***
400	396	337	25	2049.00	.00404	***
401	394	398	28	1582.00	.00411	***
402	382	388	16	1868.00	.00436	****
403	379	23	5	731.00	.00451	****
404	403	358	10	1219.00	.00460	****
405	387	402	24	2454.00	.00479	****
406	383	24	9	724.00	.00527	****
407	389	376	9	943.00	.00537	****
408	397	393	32	2250.00	.00556	****
409	395	400	33	2864.00	.00564	****
410	391	399	35	2922.00	.00686	*****
411	381	406	15	1293.00	.00852	******
412	239	214	4	384.00	.00891	*******
413	409	114	34	3002.00	.00956	*******
414	408	392	39	2624.00	.01004	********
415	405	407	33	3397.00	.01363	**********
416	414	410	74	5546.00	.01370	**********
417	401	386	34	2194.00	.01406	**********
418	417	390	39	2631.00	.02182	**********
419	413	415	67	6399.00	.03074	**********
420	418	416	113	8177.00	.03359	**********
421	420	412	117	8561.00	.04250	**********
422	404	421	127	9780.00	.05002	**********
423	361	422	131	10038.00	.05493	**********
424	419	423	198	16437.00	.09101	**********
425	411	424	213	17730.00	.11417	**********

SOMME DES INDICES DE NIVEAU = .68811

ANNEXE n° 14

LES MOTIVATIONS EXPLICITES

LA DESCRIPTION DES NŒUDS DE LA HIERARCHIE
(partition des motivations générales)

DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : .68811)

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
214	.00	2	1	2	173.00	1	2
215	.00	74	73	2	48.00	73	74
216	.00	117	116	2	161.00	116	117
217	.01	64	63	2	47.00	63	64
218	.01	6	5	2	160.00	5	6
219	.01	75	215	3	99.00	73	75
220	.01	61	60	2	88.00	60	61
221	.01	142	141	2	221.00	141	142
222	.01	14	13	2	82.00	13	14
223	.01	68	67	2	88.00	67	68
224	.01	37	36	2	183.00	36	37
225	.01	174	173	2	243.00	173	174
226	.01	190	189	2	147.00	189	190
227	.01	172	171	2	112.00	171	172
228	.01	93	92	2	121.00	92	93
229	.01	43	42	2	79.00	42	43
230	.01	52	51	2	174.00	51	52
231	.01	107	106	2	79.00	106	107
232	.01	99	98	2	101.00	98	99
233	.01	184	183	2	104.00	183	184
234	.01	8	7	2	97.00	7	8
235	.01	24	23	2	55.00	23	24
236	.01	204	203	2	76.00	203	204
237	.01	20	19	2	177.00	19	20
238	.02	102	101	2	110.00	101	102
239	.02	4	3	2	211.00	3	4
240	.02	27	26	2	185.00	26	27
241	.02	44	229	3	118.00	42	44
242	.02	151	150	2	150.00	150	151
243	.02	227	170	3	129.00	170	172
244	.02	177	176	2	103.00	176	177
245	.02	220	59	3	166.00	59	61
246	.02	17	16	2	97.00	16	17
247	.02	96	95	2	85.00	95	96
248	.02	103	238	3	139.00	101	103
249	.02	25	235	3	127.00	23	25
250	.02	154	153	2	195.00	153	154
251	.02	22	21	2	150.00	21	22
252	.02	71	70	2	127.00	70	71
253	.02	89	88	2	135.00	88	89
254	.02	194	193	2	198.00	193	194
255	.02	121	120	2	130.00	120	121
256	.02	55	54	2	113.00	54	55
257	.02	10	9	2	149.00	9	10
258	.02	38	224	3	301.00	36	38
259	.02	226	188	3	217.00	188	190
260	.02	144	143	2	155.00	143	144
261	.02	111	110	2	70.00	110	111
262	.02	206	205	2	129.00	205	206
263	.03	108	231	3	131.00	106	108
264	.03	217	62	3	91.00	62	64

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
265	.03	195	254	3	246.00	193	195
266	.03	33	32	2	264.00	32	33
267	.03	237	18	3	231.00	18	20
268	.03	161	160	2	125.00	160	161
269	.03	223	66	3	117.00	66	68
270	.03	258	35	4	427.00	35	38
271	.03	131	130	2	129.00	130	131
272	.03	219	72	4	185.00	72	75
273	.03	12	11	2	213.00	11	12
274	.03	91	90	2	54.00	90	91
275	.03	162	268	3	182.00	160	162
276	.03	167	166	2	79.00	166	167
277	.03	104	248	4	237.00	101	104
278	.03	169	168	2	44.00	168	169
279	.03	242	149	3	193.00	149	151
280	.03	230	50	3	283.00	50	52
281	.03	15	222	3	193.00	13	15
282	.03	244	175	3	281.00	175	177
283	.03	179	178	2	296.00	178	179
284	.03	113	112	2	202.00	112	113
285	.03	265	192	4	288.00	192	195
286	.03	252	69	3	206.00	69	71
287	.03	247	94	3	129.00	94	96
288	.04	39	270	5	489.00	35	39
289	.04	257	234	4	246.00	7	10
290	.04	245	58	4	235.00	58	61
291	.04	56	256	3	148.00	54	56
292	.04	261	109	3	108.00	109	111
293	.04	216	115	3	233.00	115	117
294	.04	31	30	2	198.00	30	31
295	.04	232	97	3	148.00	97	99
296	.04	187	186	2	152.00	186	187
297	.04	269	65	4	197.00	65	68
298	.04	182	181	2	205.00	181	182
299	.04	246	281	5	290.00	13	17
300	.04	293	114	4	316.00	114	117
301	.04	263	105	4	174.00	105	108
302	.05	213	212	2	241.00	212	213
303	.05	291	53	4	217.00	53	56
304	.05	125	124	2	200.00	124	125
305	.05	148	147	2	263.00	147	148
306	.05	249	251	5	277.00	21	25
307	.05	156	155	2	451.00	155	156
308	.05	180	283	3	413.00	178	180
309	.05	122	255	3	235.00	120	122
310	.05	164	163	2	167.00	163	164
311	.05	201	200	2	128.00	200	201
312	.05	49	48	2	292.00	48	49
313	.05	262	236	4	205.00	203	206
314	.05	243	278	5	173.00	168	172
315	.05	288	34	6	549.00	34	39
316	.06	134	133	2	162.00	133	134
317	.06	211	210	2	183.00	210	211
318	.06	241	41	4	172.00	41	44
319	.06	129	128	2	129.00	128	129
320	.06	289	218	6	406.00	5	10

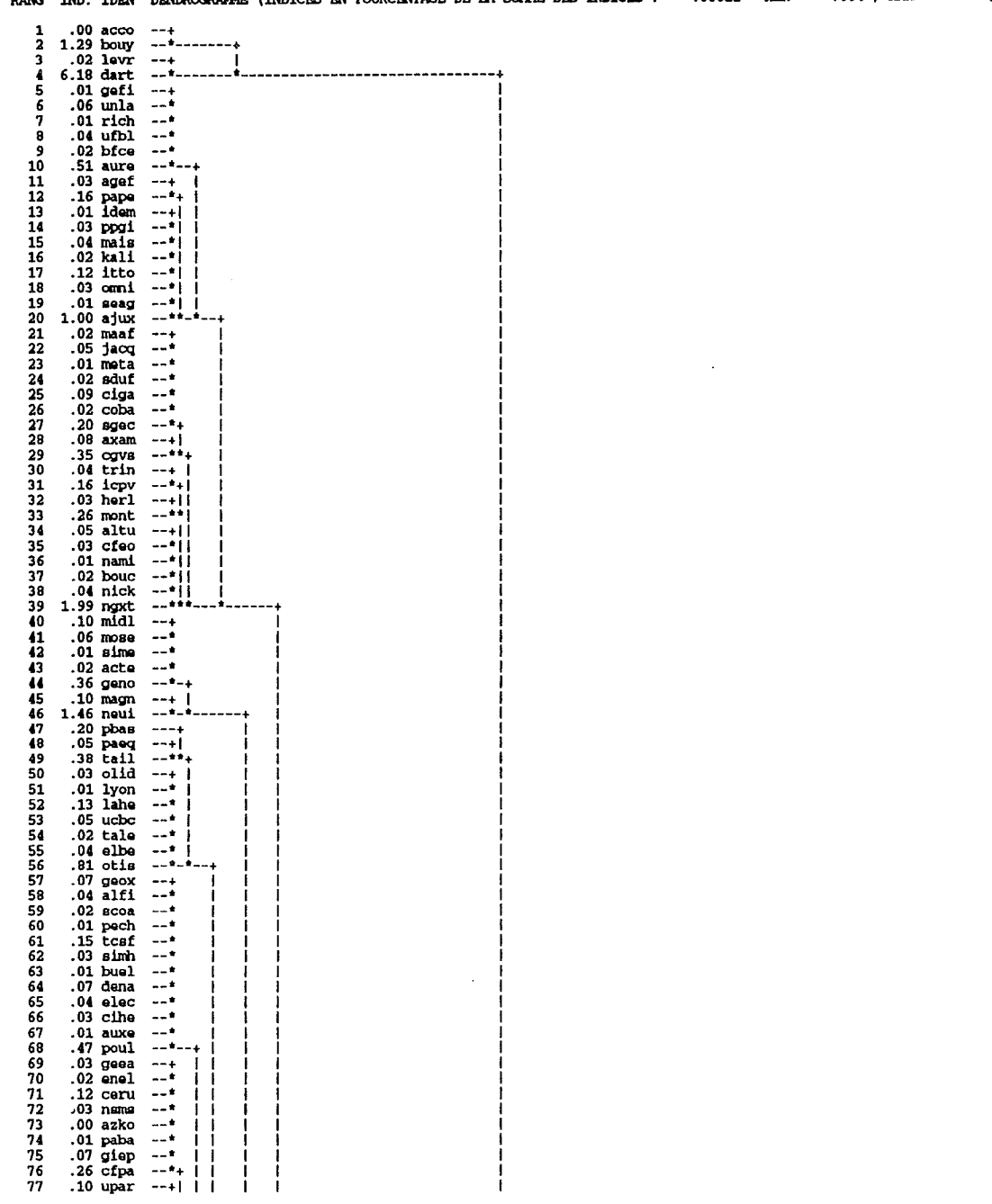
NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
321	.06	146	145	2	301.00	145	146
322	.06	185	233	3	286.00	183	185
323	.06	282	225	5	524.00	173	177
324	.06	277	100	5	330.00	100	104
325	.07	253	87	3	237.00	87	89
326	.07	119	118	2	253.00	118	119
327	.07	152	279	4	282.00	149	152
328	.07	76	272	5	291.00	72	76
329	.07	297	264	7	288.00	62	68
330	.07	290	57	5	309.00	57	61
331	.07	275	159	4	246.00	159	162
332	.07	313	202	5	292.00	202	206
333	.07	140	139	2	236.00	139	140
334	.08	29	28	2	309.00	28	29
335	.08	82	81	2	58.00	81	82
336	.08	287	228	5	250.00	92	96
337	.08	314	276	7	252.00	166	172
338	.08	198	197	2	224.00	197	198
339	.09	85	84	2	255.00	84	85
340	.09	300	284	6	518.00	112	117
341	.09	136	135	2	322.00	135	136
342	.09	127	126	2	316.00	126	127
343	.09	80	79	2	227.00	79	80
344	.09	240	306	7	462.00	21	27
345	.10	158	157	2	173.00	157	158
346	.10	259	296	5	369.00	186	190
347	.10	78	77	2	180.00	77	78
348	.10	46	45	2	127.00	45	46
349	.10	260	221	4	376.00	141	144
350	.10	302	317	4	424.00	210	213
351	.10	318	40	5	247.00	40	44
352	.11	307	250	4	646.00	153	156
353	.12	328	286	8	497.00	69	76
354	.12	267	299	8	521.00	13	20
355	.12	83	335	3	210.00	81	83
356	.13	303	280	7	500.00	50	56
357	.13	338	196	3	329.00	196	198
358	.14	309	326	5	488.00	118	122
359	.14	298	308	5	618.00	178	182
360	.14	333	138	3	285.00	138	140
361	.15	271	319	4	258.00	128	131
362	.15	329	330	12	597.00	57	68
363	.15	332	311	7	420.00	200	206
364	.16	266	294	4	462.00	30	33
365	.16	292	301	7	282.00	105	111
366	.16	310	331	6	413.00	159	164
367	.16	354	273	10	734.00	11	20
368	.17	316	132	3	229.00	132	134
369	.17	346	322	8	655.00	183	190
370	.19	324	295	8	478.00	97	104
371	.19	321	349	6	677.00	141	146
372	.20	285	191	5	486.00	191	195
373	.20	359	323	10	1142.00	173	182
374	.20	325	86	4	357.00	86	89
375	.20	336	274	7	304.00	90	96
376	.20	341	368	5	551.00	132	136

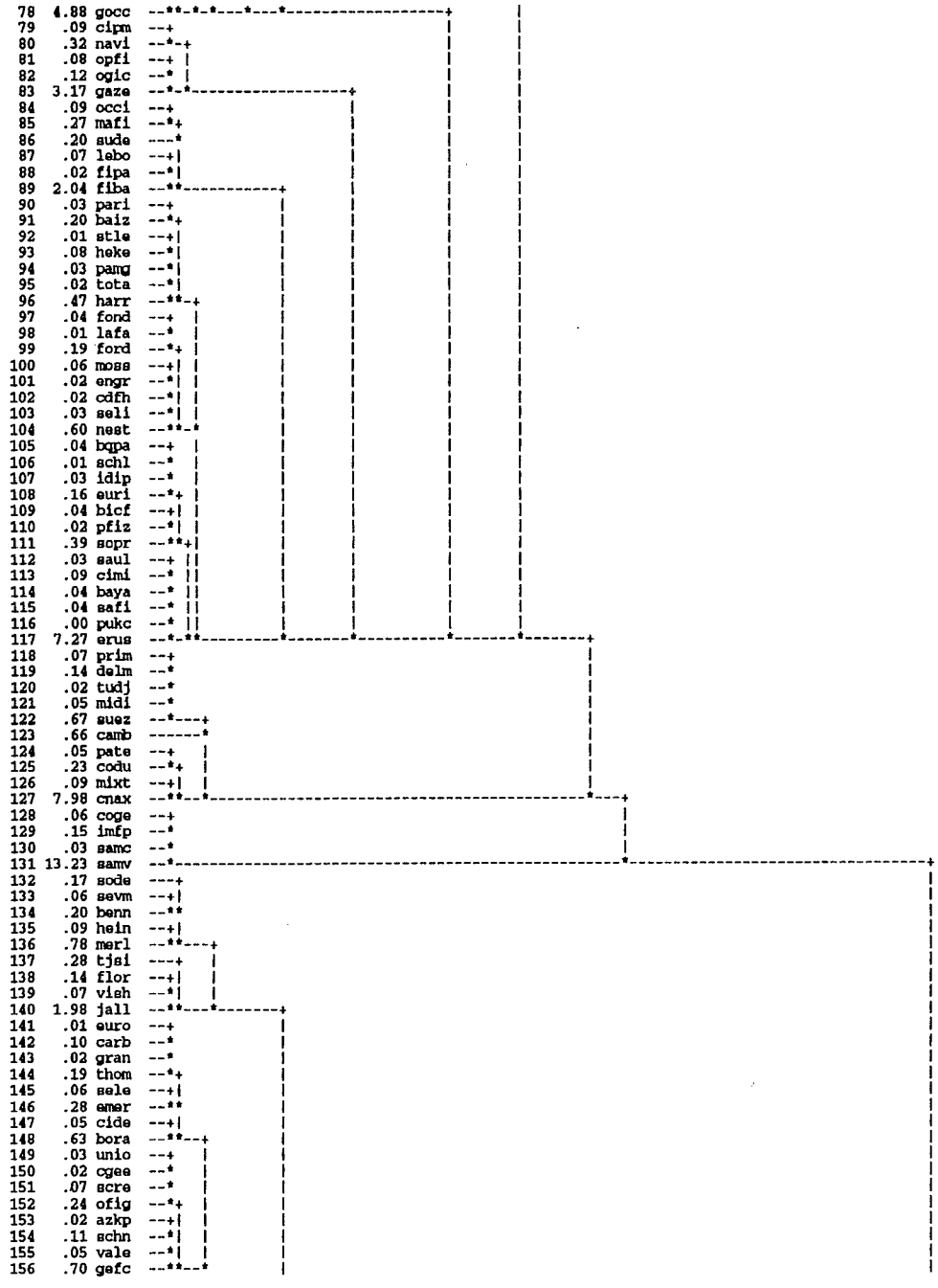
NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
377	.20	312	47	3	476.00	47	49
378	.20	334	344	9	771.00	21	29
379	.23	342	304	4	516.00	124	127
380	.23	209	208	2	145.00	208	209
381	.24	350	380	6	569.00	208	213
382	.24	352	327	8	928.00	149	156
383	.26	207	363	8	596.00	200	207
384	.26	315	364	10	1011.00	30	39
385	.26	347	353	10	677.00	69	78
386	.27	374	339	6	612.00	84	89
387	.28	366	345	8	586.00	157	164
388	.28	305	371	8	940.00	141	148
389	.28	360	137	4	392.00	137	140
390	.32	355	343	5	437.00	79	83
391	.35	384	378	19	1782.00	21	39
392	.36	348	351	7	374.00	40	46
393	.38	356	377	10	976.00	47	56
394	.39	340	365	13	800.00	105	117
395	.43	357	372	8	815.00	191	198
396	.44	369	373	18	1797.00	173	190
397	.47	385	362	22	1274.00	57	78
398	.47	370	375	15	782.00	90	104
399	.51	367	320	16	1140.00	5	20
400	.59	396	337	25	2049.00	166	190
401	.60	394	398	28	1582.00	90	117
402	.63	382	388	16	1868.00	141	156
403	.66	379	123	5	731.00	123	127
404	.67	403	358	10	1219.00	118	127
405	.70	387	402	24	2454.00	141	164
406	.77	383	199	9	724.00	199	207
407	.78	389	376	9	943.00	132	140
408	.81	397	393	32	2250.00	47	78
409	.82	395	400	33	2864.00	166	198
410	1.00	391	399	35	2922.00	5	39
411	1.24	381	406	15	1293.00	199	213
412	1.29	239	214	4	384.00	1	4
413	1.39	409	165	34	3002.00	165	198
414	1.46	408	392	39	2624.00	40	78
415	1.98	405	407	33	3397.00	132	164
416	1.99	414	410	74	5546.00	5	78
417	2.04	401	386	34	2194.00	84	117
418	3.17	417	390	39	2631.00	79	117
419	4.47	413	415	67	6399.00	132	198
420	4.88	418	416	113	8177.00	5	117
421	6.18	420	412	117	8561.00	1	117
422	7.27	404	421	127	9780.00	1	127
423	7.98	361	422	131	10038.00	1	131
424	13.23	419	423	198	16437.00	1	198
425	16.59	411	424	213	17730.00	1	213

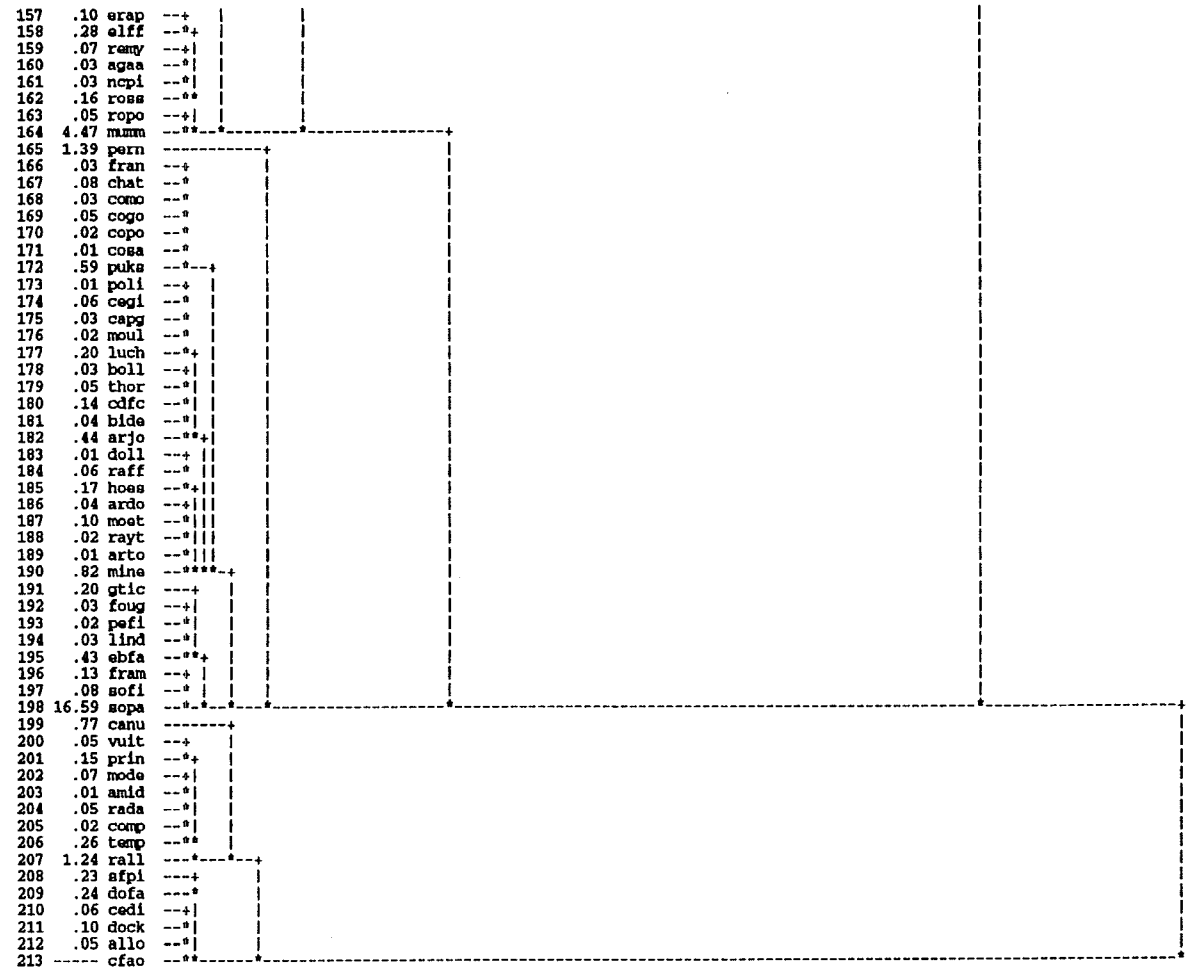
ANNEXE n° 15

LES MOTIVATIONS EXPLICITES

LE DENDOGRAMME
(partition des motivations générales)


RANG IND. IDEN DENDROGRAMME (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : .68811 MIN = .00% / MAX = 16.59%)
1 .00 acco
2 1.29 bouy
3 .02 levr
4 6.18 dart
5 .01 gefi
6 .06 unla
7 .01 rich
8 .04 ufbl
9 .02 bfce
10 .51 aure
11 .03 agef
12 .16 papa
13 .01 idem
14 .03 ppgi
15 .04 mais
16 .02 kali
17 .12 itto
18 .03 omni
19 .01 saag
20 1.00 ajux
21 .02 maaf
22 .05 jacq
23 .01 meta
24 .02 sduf
25 .09 ciga
26 .02 coba
27 .20 sgec
28 .08 axam
29 .35 cgvs
30 .04 trin
31 .16 icpv
32 .03 herl
33 .26 mont
34 .05 altu
35 .03 cfeo
36 .01 nami
37 .02 bouc
38 .04 nick
39 1.99 ngxt
40 .10 midl
41 .06 mose
42 .01 sima
43 .02 acte
44 .36 geno
45 .10 magn
46 1.46 neui
47 .20 pbas
48 .05 paeq
49 .38 tail
50 .03 olid
51 .01 lyon
52 .13 lahe
53 .05 ucbc
54 .02 tale
55 .04 elbe
56 .81 otis
57 .07 geox
58 .04 alfi
59 .02 scoa
60 .01 pech
61 .15 tcsf
62 .03 simh
63 .01 buel
64 .07 dena
65 .04 elec
66 .03 cihe
67 .01 auxe
68 .47 poul
69 .03 geea
70 .02 enel
71 .12 ceru
72 .03 nama
73 .00 azko
74 .01 paba
75 .07 giep
76 .26 cfpa
77 .10 upar


78 4.88 gocc
79 .09 cipm
80 .32 navi
81 .08 opfi
82 .12 ogic
83 3.17 gaze
84 .09 occi
85 .27 mafi
86 .20 sude
87 .07 lebo
88 .02 fipa
89 2.04 fiba
90 .03 pari
91 .20 baiz
92 .01 stle
93 .08 heke
94 .03 pamg
95 .02 tota
96 .47 harr
97 .04 fond
98 .01 lafa
99 .19 ford
100 .06 moss
101 .02 engr
102 .02 cdfh
103 .03 seli
104 .60 nest
105 .04 bqpa
106 .01 schl
107 .03 idip
108 .16 euri
109 .04 bicf
110 .02 pfiz
111 .39 sopr
112 .03 saul
113 .09 cimi
114 .04 baya
115 .04 safi
116 .00 pukc
117 7.27 erus
118 .07 prim
119 .14 delm
120 .02 tudj
121 .05 midi
122 .67 suez
123 .66 camb
124 .05 pate
125 .23 codu
126 .09 mixt
127 7.98 cnax
128 .06 coge
129 .15 imfp
130 .03 samc
131 13.23 samv
132 .17 sode
133 .06 sevm
134 .20 benn
135 .09 hein
136 .78 merl
137 .28 tjsi
138 .14 flor
139 .07 vish
140 1.98 jall
141 .01 euro
142 .10 carb
143 .02 gran
144 .19 thom
145 .06 sele
146 .28 emer
147 .05 cide
148 .63 bora
149 .03 unio
150 .02 cgee
151 .07 scre
152 .24 ofig
153 .02 azkp
154 .11 schn
155 .05 vale
156 .70 gefc



FIN DE LA PROCEDURE ** RECIP **
classification ascendante

ANNEXE n° 16

LES MOTIVATIONS EXPLICITES

LA PARTITION RETENUE EN 6 CLASSES
(motivations générales)

CONSOLIDATION DE LA PARTITION AUTOUR DES 6 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	.688112	.352624	.5125
1	.688112	.368359	.5353
2	.688112	.372899	.5419
3	.688112	.373974	.5435
4	.688112	.374437	.5442
5	.688112	.374447	.5442
6	.688112	.374447	.5442

ARRET APRES L'ITERATION 6 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE .000 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 7 AXES

	INERTIES		EFFECTIFS		POIDS		DISTANCES	
	AVANT	APRES	AVANT	APRES	AVANT	APRES	AVANT	APRES
INERTIE INTER-CLASSES	.3526	.3744						
INERTIES INTRA-CLASSE								
CLASSE 1 / 6	.0090	.0090	4	4	384.00	384.00	1.9657	1.9657
CLASSE 2 / 6	.1723	.1053	113	76	8177.00	5369.00	.0742	.1887
CLASSE 3 / 6	.0135	.0144	10	11	1219.00	1286.00	.8343	.7996
CLASSE 4 / 6	.0016	.0066	4	6	258.00	385.00	3.9483	2.9145
CLASSE 5 / 6	.1164	.1556	67	101	6399.00	9013.00	.1528	.0937
CLASSE 6 / 6	.0227	.0227	15	15	1293.00	1293.00	1.4514	1.4514
INERTIE TOTALE	.6881	.6881						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... .5125
APRES ... .5442

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 7

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'e' DE L'ARBRE EN 6 CLASSES													
ee1e - CLASSE 1 / 6	4	384.00	1.97	.00	.36	.16	-.55	-1.08	-.01	2.04	1.05	-3.88	-7.79
ee2e - CLASSE 2 / 6	76	5369.00	.19	-.40	-.07	.05	.14	-.04	-10.65	-2.03	1.64	5.18	-1.43
ee3e - CLASSE 3 / 6	11	1286.00	.80	-.42	-.16	.20	-.60	.17	-3.51	-1.47	2.23	-7.17	2.13
ee4e - CLASSE 4 / 6	6	385.00	2.91	-.42	-.13	-1.63	-.11	.17	-2.58	-.89	-13.00	-.96	1.49
ee5e - CLASSE 5 / 6	101	9013.00	.09	.22	.20	.00	.03	.06	7.64	7.57	.22	1.49	3.00
ee6e - CLASSE 6 / 6	15	1293.00	1.45	.63	-1.01	.00	.01	-.17	6.28	-11.23	.06	.20	-2.47

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	6	7	0	0	0	6	7	0	0	0
COUPURE 'e' DE L'ARBRE EN 6 CLASSES													
ee1e - CLASSE 1 / 6	4	384.00	1.97	.42	-.41	.00	.00	.00	3.19	-3.16	.00	.00	.00
ee2e - CLASSE 2 / 6	76	5369.00	.19	.06	-.02	.00	.00	.00	2.59	-.81	.00	.00	.00
ee3e - CLASSE 3 / 6	11	1286.00	.80	-.41	.07	.00	.00	.00	-5.15	.92	.00	.00	.00
ee4e - CLASSE 4 / 6	6	385.00	2.91	.17	-.01	.00	.00	.00	1.59	-.14	.00	.00	.00
ee5e - CLASSE 5 / 6	101	9013.00	.09	-.01	.01	.00	.00	.00	-.57	.78	.00	.00	.00
ee6e - CLASSE 6 / 6	15	1293.00	1.45	.04	.04	.00	.00	.00	.55	.54	.00	.00	.00

COMPOSITION DE : COUPURE 'e' DE L'ARBRE EN 6 CLASSES

----- CLASSE 1 / 6 -----

acco bouy dart levr

----- CLASSE 2 / 6 -----

auxe	azko	baiz	baya	bfce	bicf
buel	cdfh	ceru	cfpa	cihe	cimi
cipm	coba	cogo	dena	enel	fiba
fipa	fond	ford	gaze	geea	gefi
geox	giep	gocc	harr	heke	herl
icpv	idip	lafa	lahe	lebo	lyon
mafi	moss	occi	ogic	olid	opfi
otis	paba	pamg	pari	pech	pfiz
poul	pukc	rich	safi	saul	schl
scoa	sgec	simh	sopr	sude	tail
trin	ucbc	ufbl	unla	aure	erus
euri	pbas	tota	bqpa	elbe	paeq
alfi	navi	nsms	upar		

----- CLASSE 3 / 6 -----

camb	cnax	codu	delm	midi	mixt
pate	prim	tudj	axam	suez	

----- CLASSE 4 / 6 -----

samv	coge	magn	samc	imfp	neui

----- CLASSE 5 / 6 -----

agaa	ajux	ardo	arjo	arto	azkp
benn	bide	boll	bora	bouc	capg
carb	cdfc	cegi	cgee	chat	ciga
como	copo	cosa	doll	ebfa	elec
elff	engr	erap	flor	foug	fran
geno	gran	gtic	hein	itto	jacq
jall	kali	lind	luch	maaf	merl
meta	midl	mine	moet	mont	mose
moul	omni	pern	ppgi	puks	raff
rayt	remy	ropo	ross	scre	sduf
seag	seli	sevm	sime	sode	sopa
stle	tale	tcsf	thom	unio	vale
agef	cfeo	cide	euro	fram	gefc
mumm	pape	poli	schn	sofi	thor
tjsi	vish	idem	acte	altu	ofig
mais	cgvs	hoes	sele	emer	pefi
nami	ncpi	nest	ngxt	nick	

----- CLASSE 6 / 6 -----

allo	amid	canu	cedi	comp	dock
prin	rada	sfpi	temp	vuit	cfao
dofa	mode	rall			

COUPURE 'e' DE L'ARBRE EN 6 CLASSES

DESCRIPTION SOMMAIRE

CLASSE	EFFECTIF	POIDS	CONTENU
ee1e	4	384.00	1 A 4
ee2e	113	8177.00	5 A 117
ee3e	10	1219.00	118 A 127
ee4e	4	258.00	128 A 131
ee5e	67	6399.00	132 A 198
ee6e	15	1293.00	199 A 213

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 7

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'e' DE L'ARBRE EN 6 CLASSES													
ee1e - CLASSE 1 / 6	4	384.00	1.97	.00	.36	.16	-.55	-1.08	-.01	2.04	1.05	-3.88	-7.79
ee2e - CLASSE 2 / 6	113	8177.00	.07	-.26	-.01	.00	.07	.00	-9.80	-.36	-.18	3.86	-.03
ee3e - CLASSE 3 / 6	10	1219.00	.83	-.43	-.16	.20	-.61	.17	-3.43	-1.47	2.07	-6.95	1.95
ee4e - CLASSE 4 / 6	4	258.00	3.95	-.47	-.11	-1.92	-.12	.11	-2.34	-.60	-12.43	-.85	.76
ee5e - CLASSE 5 / 6	67	6399.00	.15	.30	.23	.03	.06	.06	7.32	6.25	1.06	2.10	2.26
ee6e - CLASSE 6 / 6	15	1293.00	1.45	.63	-1.01	.00	.01	-.17	6.28	-11.23	.06	.20	-2.47

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	6	7	0	0	0	6	7	0	0	0
COUPURE 'e' DE L'ARBRE EN 6 CLASSES													
ee1e - CLASSE 1 / 6	4	384.00	1.97	.42	-.41	.00	.00	.00	3.19	-3.16	.00	.00	.00
ee2e - CLASSE 2 / 6	113	8177.00	.07	.05	-.03	.00	.00	.00	3.04	-1.64	.00	.00	.00
ee3e - CLASSE 3 / 6	10	1219.00	.83	-.42	.08	.00	.00	.00	-5.05	.99	.00	.00	.00
ee4e - CLASSE 4 / 6	4	258.00	3.95	.12	.06	.00	.00	.00	.87	.44	.00	.00	.00
ee5e - CLASSE 5 / 6	67	6399.00	.15	-.03	.04	.00	.00	.00	-.93	1.34	.00	.00	.00
ee6e - CLASSE 6 / 6	15	1293.00	1.45	.04	.04	.00	.00	.00	.55	.54	.00	.00	.00

ANNEXE n° 17

LES MOTIVATIONS EXPLICITES

L'HISTOGRAMME DES INDICES DE NIVEAU
(Partition des motivations génériques)

CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES 50 NOEUDS D'INDICES LES PLUS ELEVES

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
196	153	77	4	633.00	.00170	**
197	173	180	7	1121.00	.00172	**
198	171	192	6	762.00	.00172	**
199	18	178	6	625.00	.00177	**
200	187	85	6	614.00	.00178	**
201	86	177	3	388.00	.00179	**
202	74	1	2	286.00	.00182	**
203	182	179	5	1158.00	.00184	**
204	201	189	10	1154.00	.00185	**
205	172	98	4	274.00	.00189	**
206	53	38	2	477.00	.00221	**
207	175	150	6	650.00	.00224	**
208	169	186	10	2752.00	.00236	**
209	39	33	2	124.00	.00238	**
210	167	140	4	379.00	.00244	***
211	204	170	13	1509.00	.00246	***
212	188	44	3	639.00	.00252	***
213	210	49	5	459.00	.00266	***
214	199	35	7	729.00	.00294	***
215	198	89	7	827.00	.00301	***
216	211	196	17	2142.00	.00339	***
217	193	208	14	4284.00	.00372	****
218	212	207	9	1289.00	.00384	****
219	197	144	9	1639.00	.00384	****
220	200	195	14	1460.00	.00403	****
221	215	164	9	995.00	.00426	****
222	160	209	4	397.00	.00431	****
223	205	183	7	483.00	.00453	****
224	191	217	19	4914.00	.00537	*****
225	181	184	6	465.00	.00557	*****
226	213	107	6	519.00	.00612	******
227	9	51	2	267.00	.00615	******
228	219	206	11	2116.00	.00659	******
229	226	214	13	1248.00	.00748	*******
230	223	203	12	1641.00	.00790	*******
231	120	202	3	457.00	.00991	*********
232	194	230	14	1791.00	.01006	*********
233	224	220	33	6374.00	.01255	***********
234	216	225	23	2607.00	.01472	************
235	234	233	56	8981.00	.01758	**************
236	221	218	18	2284.00	.01761	**************
237	229	228	24	3364.00	.02695	**********************
238	235	231	59	9438.00	.03237	**************************
239	237	236	42	5648.00	.03563	*******************************
240	222	238	63	9835.00	.03706	********************************
241	232	240	77	11626.00	.04161	************************************
242	227	241	79	11893.00	.04706	**
243	59	242	80	11978.00	.05187	**
244	239	69	43	5752.00	.07311	**
245	244	243	123	17730.00	.09671	**

SOMME DES INDICES DE NIVEAU = .68811

ANNEXE n° 18

LES MOTIVATIONS EXPLICITES

LA DESCRIPTION DES NŒUDS DE LA HIERARCHIE
(partition des motivations génériques)

DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POUCENTAGE DE LA SOMME DES INDICES : .68811)

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
124	.01	10	9	2	132.00	9	10
125	.02	115	114	2	160.00	114	115
126	.02	22	21	2	427.00	21	22
127	.02	40	39	2	144.00	39	40
128	.02	66	65	2	437.00	65	66
129	.03	46	45	2	382.00	45	46
130	.03	87	86	2	238.00	86	87
131	.03	33	32	2	161.00	32	33
132	.03	8	7	2	261.00	7	8
133	.03	126	20	3	514.00	20	22
134	.03	29	28	2	253.00	28	29
135	.03	74	73	2	157.00	73	74
136	.03	110	109	2	329.00	109	110
137	.03	99	98	2	192.00	98	99
138	.03	52	51	2	336.00	51	52
139	.03	132	6	3	512.00	6	8
140	.04	121	120	2	200.00	120	121
141	.04	54	53	2	139.00	53	54
142	.04	17	16	2	238.00	16	17
143	.04	24	23	2	133.00	23	24
144	.05	103	102	2	518.00	102	103
145	.05	49	48	2	206.00	48	49
146	.05	26	25	2	480.00	25	26
147	.05	113	112	2	151.00	112	113
148	.05	124	139	5	644.00	6	10
149	.05	133	19	4	644.00	19	22
150	.05	83	82	2	278.00	82	83
151	.06	15	14	2	114.00	14	15
152	.06	105	104	2	153.00	104	105
153	.06	129	44	3	491.00	44	46
154	.06	56	55	2	225.00	55	56
155	.06	34	131	3	289.00	32	34
156	.07	42	41	2	141.00	41	42
157	.07	11	148	6	707.00	6	11
158	.07	36	35	2	341.00	35	36
159	.07	116	125	3	379.00	114	116
160	.07	63	62	2	273.00	62	63
161	.07	107	106	2	568.00	106	107
162	.08	146	143	4	613.00	23	26
163	.08	142	151	4	352.00	14	17
164	.08	92	91	2	168.00	91	92
165	.08	130	85	3	297.00	85	87
166	.08	96	95	2	357.00	95	96
167	.09	123	122	2	179.00	122	123
168	.10	157	5	7	776.00	5	11
169	.10	27	162	5	1975.00	23	27
170	.11	145	47	3	355.00	47	49
171	.11	137	97	3	267.00	97	99
172	.11	75	135	3	208.00	73	75
173	.11	136	108	3	400.00	108	110
174	.12	71	70	2	155.00	70	71

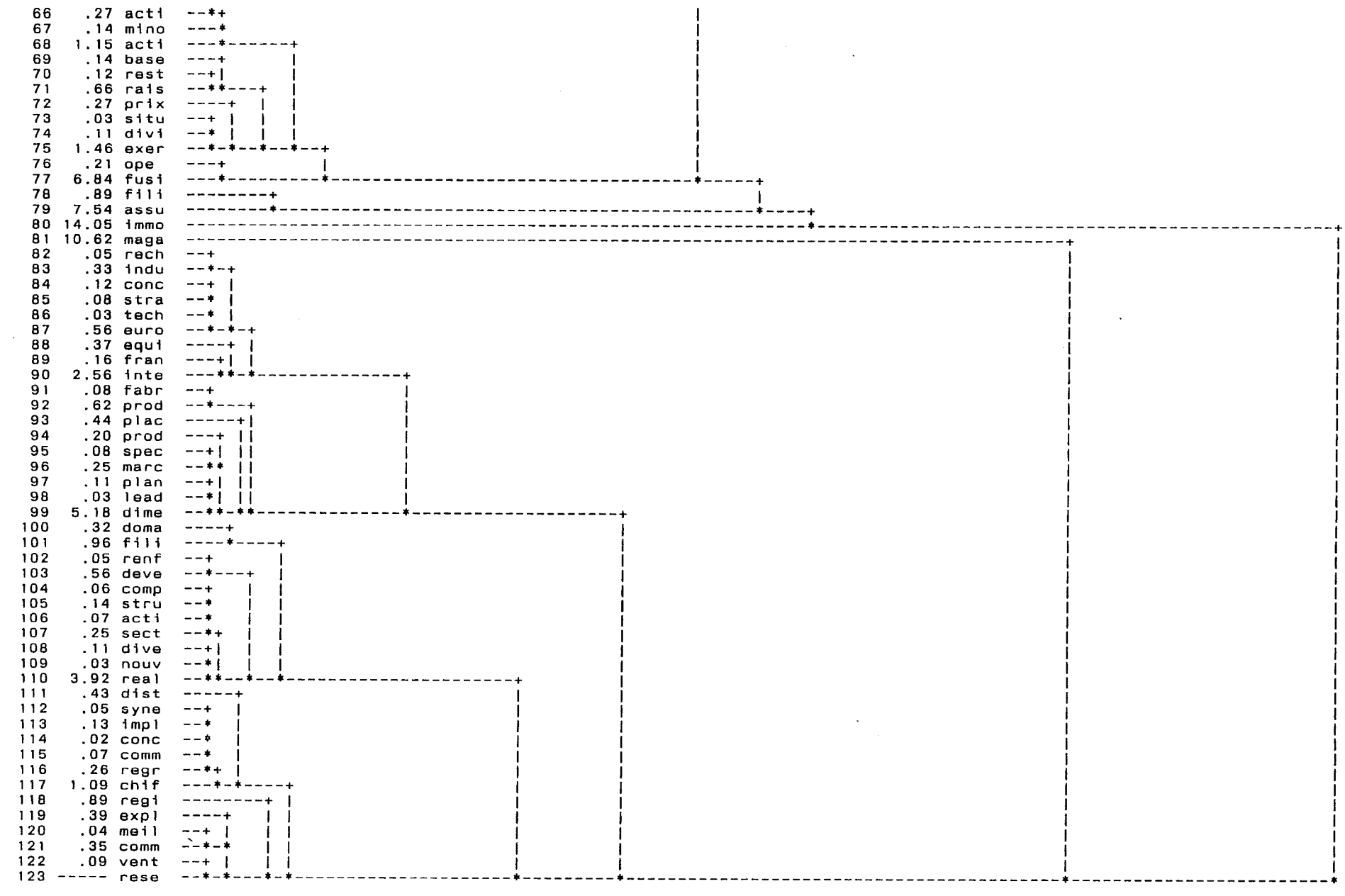
NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
175	.12	165	84	4	372.00	84	87
176	.12	138	50	3	402.00	50	52
177	.13	58	57	2	144.00	57	58
178	.13	159	147	5	530.00	112	116
179	.14	128	64	3	588.00	64	66
180	.14	161	152	4	721.00	104	107
181	.14	156	127	4	285.00	39	42
182	.14	68	67	2	570.00	67	68
183	.14	174	69	3	209.00	69	71
184	.15	38	37	2	180.00	37	38
185	.15	154	141	4	364.00	53	56
186	.15	149	18	5	777.00	18	22
187	.16	163	13	5	412.00	13	17
188	.16	90	89	2	555.00	89	90
189	.17	185	176	7	766.00	50	56
190	.17	31	30	2	1279.00	30	31
191	.18	158	155	5	630.00	32	36
192	.20	166	94	3	495.00	94	96
193	.20	190	134	4	1532.00	28	31
194	.21	77	76	2	150.00	76	77
195	.24	168	4	8	846.00	4	11
196	.25	153	43	4	633.00	43	46
197	.25	173	180	7	1121.00	104	110
198	.25	171	192	6	762.00	94	99
199	.26	117	178	6	625.00	112	117
200	.26	187	12	6	614.00	12	17
201	.26	59	177	3	388.00	57	59
202	.26	2	1	2	286.00	1	2
203	.27	182	179	5	1158.00	64	68
204	.27	201	189	10	1154.00	50	59
205	.27	172	72	4	274.00	72	75
206	.32	101	100	2	477.00	100	101
207	.33	175	150	6	650.00	82	87
208	.34	169	186	10	2752.00	18	27
209	.35	61	60	2	124.00	60	61
210	.35	167	140	4	379.00	120	123
211	.36	204	170	13	1509.00	47	59
212	.37	188	88	3	639.00	88	90
213	.39	210	119	5	459.00	119	123
214	.43	199	111	7	729.00	111	117
215	.44	198	93	7	827.00	93	99
216	.49	211	196	17	2142.00	43	59
217	.54	193	208	14	4284.00	18	31
218	.56	212	207	9	1289.00	82	90
219	.56	197	144	9	1639.00	102	110
220	.59	200	195	14	1460.00	4	17
221	.62	215	164	9	995.00	91	99
222	.63	160	209	4	397.00	60	63
223	.66	205	183	7	483.00	69	75
224	.78	191	217	19	4914.00	18	36
225	.81	181	184	6	465.00	37	42
226	.89	213	118	6	519.00	118	123
227	.89	79	78	2	267.00	78	79
228	.96	219	206	11	2116.00	100	110
229	1.09	226	214	13	1248.00	111	123
230	1.15	223	203	12	1641.00	64	75

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
231	1.44	3	202	3	457.00	1	3
232	1.46	194	230	14	1791.00	64	77
233	1.82	224	220	33	6374.00	4	36
234	2.14	216	225	23	2607.00	37	59
235	2.56	234	233	56	8981.00	4	59
236	2.56	221	218	18	2284.00	82	99
237	3.92	229	228	24	3364.00	100	123
238	4.70	235	231	59	9438.00	1	59
239	5.18	237	236	42	5648.00	82	123
240	5.39	222	238	63	9835.00	1	63
241	6.05	232	240	77	11626.00	1	77
242	6.84	227	241	79	11893.00	1	79
243	7.54	80	242	80	11978.00	1	80
244	10.62	239	81	43	5752.00	81	123
245	14.05	244	243	123	17730.00	1	123

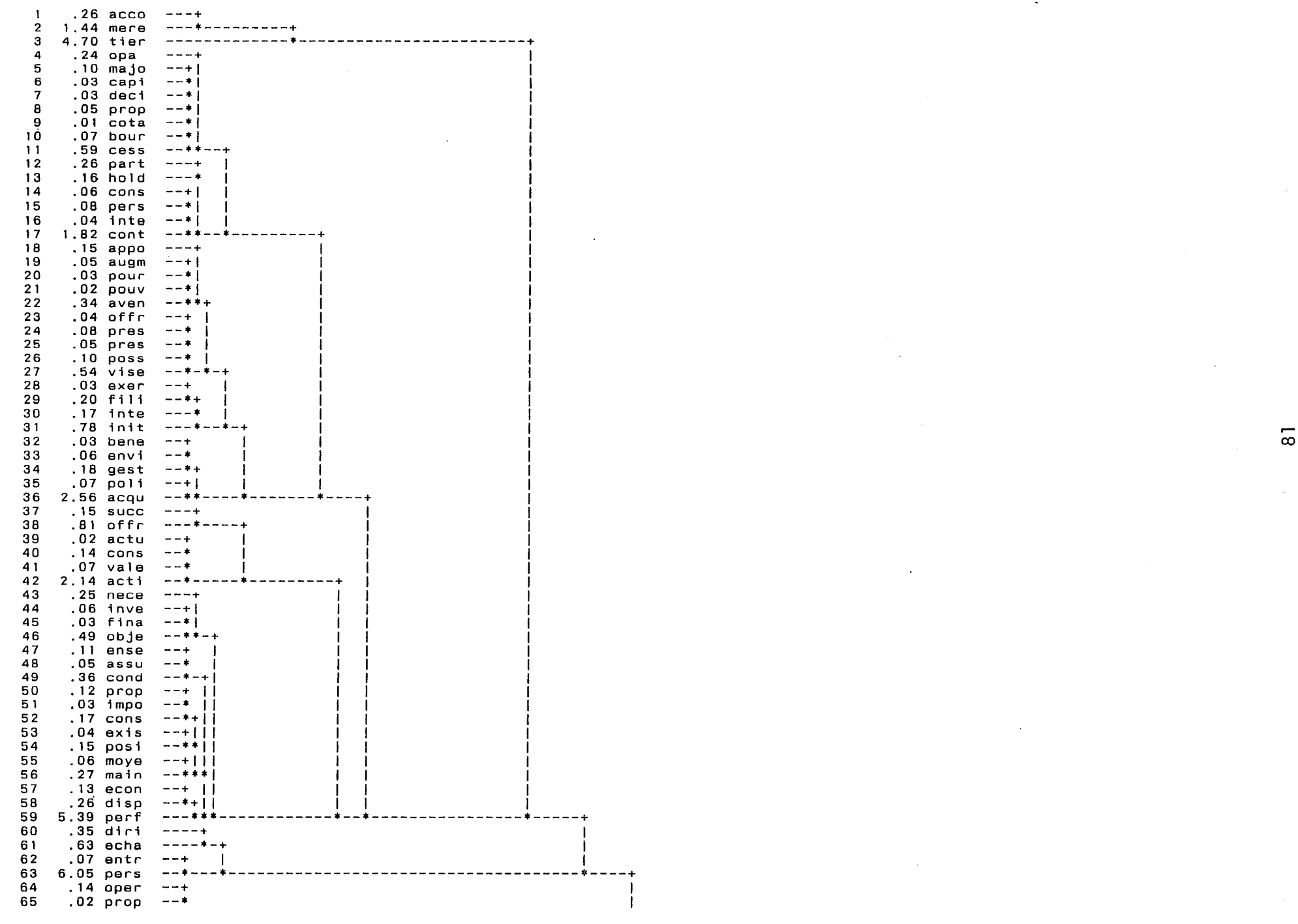
ANNEXE n° 19

LES MOTIVATIONS EXPLICITES

LE DENDOGRAMME
(partition des motivations génériques)



FIN DE LA PROCEDURE ** RECIP **
classification ascendante


RANG IND. IDEN DENDROGRAMME (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : .68811 MIN = .01% / MAX = 14.05%)
1 .26 acco
2 1.44 mere
3 4.70 tier
4 .24 opa
5 .10 majo
6 .03 capi
7 .03 deci
8 .05 prop
9 .01 cota
10 .07 bour
11 .59 cess
12 .26 part
13 .16 hold
14 .06 cons
15 .08 pers
16 .04 inte
17 1.82 cont
18 .15 appo
19 .05 augm
20 .03 pour
21 .02 pouv
22 .34 aven
23 .04 offr
24 .08 pres
25 .05 pres
26 .10 poss
27 .54 vise
28 .03 exer
29 .20 fili
30 .17 inte
31 .78 init
32 .03 bene
33 .06 envi
34 .18 gest
35 .07 poli
36 2.56 acqu
37 .15 succ
38 .81 offr
39 .02 actu
40 .14 cons
41 .07 vale
42 2.14 acti
43 .25 nece
44 .06 inve
45 .03 fina
46 .49 obje
47 .11 ense
48 .05 assu
49 .36 cond
50 .12 prop
51 .03 impo
52 .17 cons
53 .04 exis
54 .15 posi
55 .06 moye
56 .27 main
57 .13 econ
58 .26 disp
59 5.39 perf
60 .35 diri
61 .63 echa
62 .07 entr
63 6.05 pers
64 .14 oper
65 .02 prop

ANNEXE n° 20

LES MOTIVATIONS EXPLICITES

LA PARTITION RETENUE EN 10 CLASSES
(motivations génériques)

COUPURE 'g' DE L'ARBRE EN 10 CLASSES

DESCRIPTION SOMMAIRE

CLASSE	EFFECTIF	POIDS	CONTENU
g01g	3	457.00	1 A 3
g02g	56	8981.00	4 A 59
g03g	4	397.00	60 A 63
g04g	14	1791.00	64 A 77
g05g	2	267.00	78 A 79
g06g	1	85.00	80 A 80
g07g	1	104.00	81 A 81
g08g	18	2284.00	82 A 99
g09g	11	2116.00	100 A 110
g10g	13	1248.00	111 A 123

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 7

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'g' DE L'ARBRE EN 10 CLASSES													
g01g - CLASSE 1 / 10	3	457:00	1.36	-.11	.16	.11	.81	-.23	-.47	.79	.63	4.96	-1.44
g02g - CLASSE 2 / 10	56	8981.00	.02	-.12	-.03	-.08	.00	-.02	-3.03	-.92	-2.62	.07	-.60
g03g - CLASSE 3 / 10	4	397.00	1.63	.03	.17	.21	-.45	-.97	.16	.94	1.37	-3.22	-7.06
g04g - CLASSE 4 / 10	14	1791.00	.55	-.59	-.12	.23	.12	-.08	-5.77	-1.29	2.94	1.74	-1.11
g05g - CLASSE 5 / 10	2	267.00	3.26	-.65	-.32	.48	-1.24	.39	-2.28	-1.27	2.18	-6.18	2.00
g06g - CLASSE 6 / 10	1	85.00	11.15	-.83	-.20	-3.15	-.39	.44	-2.06	-.57	-10.13	-1.38	1.58
g07g - CLASSE 7 / 10	1	104.00	12.79	1.67	-3.06	-.01	.13	-.76	4.13	-8.50	-.04	.45	-2.73
g08g - CLASSE 8 / 10	18	2284.00	.47	.46	.47	.07	-.02	-.02	5.26	5.95	.98	-.36	-.41
g09g - CLASSE 9 / 10	11	2116.00	.23	.21	.09	.04	.00	.31	1.77	.89	.45	.05	3.82
g10g - CLASSE 10 / 10	13	1248.00	.54	.60	-.38	.06	-.03	.10	5.66	-4.06	.77	-.41	1.34

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	6	7	0	0	0	6	7	0	0	0
COUPURE 'g' DE L'ARBRE EN 10 CLASSES													
g01g - CLASSE 1 / 10	3	457.00	1.36	-.73	-.26	.00	.00	.00	-4.77	-1.75	.00	.00	.00
g02g - CLASSE 2 / 10	56	8981.00	.02	-.03	-.01	.00	.00	.00	-1.28	-.48	.00	.00	.00
g03g - CLASSE 3 / 10	4	397.00	1.63	.46	-.45	.00	.00	.00	3.45	-3.45	.00	.00	.00
g04g - CLASSE 4 / 10	14	1791.00	.55	.24	.23	.00	.00	.00	3.60	3.44	.00	.00	.00
g05g - CLASSE 5 / 10	2	267.00	3.26	-.88	.22	.00	.00	.00	-4.69	1.19	.00	.00	.00
g06g - CLASSE 6 / 10	1	85.00	11.15	.38	-.16	.00	.00	.00	1.42	-.60	.00	.00	.00
g07g - CLASSE 7 / 10	1	104.00	12.79	.16	.10	.00	.00	.00	.61	.39	.00	.00	.00
g08g - CLASSE 8 / 10	18	2284.00	.47	.02	.16	.00	.00	.00	.27	2.77	.00	.00	.00
g09g - CLASSE 9 / 10	11	2116.00	.23	.13	-.26	.00	.00	.00	1.67	-3.43	.00	.00	.00
g10g - CLASSE 10 / 10	13	1248.00	.54	-.08	.11	.00	.00	.00	-1.15	1.55	.00	.00	.00

CONSOLIDATION DE LA PARTITION AUTOUR DES 10 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	.688112	.442380	.6429
1	.688112	.451046	.6555
2	.688112	.451432	.6560
3	.688112	.452082	.6570

ARRET APRES L'ITERATION 3 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE .144 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 7 AXES

	INERTIES AVANT	INERTIES APRES	EFFECTIFS AVANT	EFFECTIFS APRES	POIDS AVANT	POIDS APRES	DISTANCES AVANT	DISTANCES APRES
INERTIE INTER-CLASSES	.4424	.4521						
INERTIES INTRA-CLASSE								
CLASSE 1 / 10	.0117	.0132	3	4	457.00	526.00	1.3608	1.2162
CLASSE 2 / 10	.1027	.0719	56	41	8981.00	7423.00	.0238	.0238
CLASSE 3 / 10	.0072	.0072	4	4	397.00	397.00	1.6270	1.6270
CLASSE 4 / 10	.0325	.0428	14	22	1791.00	2617.00	.5463	.4339
CLASSE 5 / 10	.0061	.0061	2	2	267.00	267.00	3.2633	3.2633
CLASSE 6 / 10	.0000	.0000	1	1	85.00	85.00	11.1497	11.1497
CLASSE 7 / 10	.0000	.0000	1	1	104.00	104.00	12.7885	12.7885
CLASSE 8 / 10	.0417	.0495	18	22	2284.00	2694.00	.4665	.4001
CLASSE 9 / 10	.0175	.0201	11	14	2116.00	2454.00	.2311	.2086
CLASSE 10 / 10	.0262	.0251	13	12	1248.00	1163.00	.5447	.5838
INERTIE TOTALE	.6881	.6881						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... .6429
APRES ... .6570

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 7

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'g' DE L'ARBRE EN 10 CLASSES													
g01g - CLASSE 1 / 10	4	526.00	1.22	-.15	.14	.13	.77	-.20	-.75	.80	.83	5.50	-1.47
g02g - CLASSE 2 / 10	41	7423.00	.02	-.10	-.04	-.11	-.02	-.02	-1.89	-.80	-2.73	-.44	-.44
g03g - CLASSE 3 / 10	4	397.00	1.63	.03	.17	.21	-.45	-.97	.16	.94	1.37	-3.22	-7.06
g04g - CLASSE 4 / 10	22	2617.00	.43	-.56	-.12	.18	.15	-.06	-7.17	-1.71	3.05	2.67	-1.16
g05g - CLASSE 5 / 10	2	267.00	3.26	-.65	-.32	.48	-1.24	.39	-2.28	-1.27	2.18	-6.18	2.00
g06g - CLASSE 6 / 10	1	85.00	11.15	-.83	-.20	-3.15	-.39	.44	-2.06	-.57	-10.13	-1.38	1.58
g07g - CLASSE 7 / 10	1	104.00	12.79	1.67	-3.06	-.01	.13	-.76	4.13	-8.50	-.04	.45	-2.73
g08g - CLASSE 8 / 10	22	2694.00	.40	.42	.44	.05	-.05	-.06	5.42	6.29	.79	-.87	-1.03
g09g - CLASSE 9 / 10	14	2454.00	.21	.19	.06	.04	.01	.31	1.86	.65	.57	.16	4.36
g10g - CLASSE 10 / 10	12	1163.00	.58	.62	-.40	.07	-.04	.09	5.59	-4.02	.80	-.45	1.17

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	6	7	0	0	0	6	7	0	0	0
COUPURE 'g' DE L'ARBRE EN 10 CLASSES													
g01g - CLASSE 1 / 10	4	526.00	1.22	-.68	-.24	.00	.00	.00	-5.14	-1.87	.00	.00	.00
g02g - CLASSE 2 / 10	41	7423.00	.02	-.02	-.01	.00	.00	.00	-.63	-.28	.00	.00	.00
g03g - CLASSE 3 / 10	4	397.00	1.63	.46	-.45	.00	.00	.00	3.45	-3.45	.00	.00	.00
g04g - CLASSE 4 / 10	22	2617.00	.43	.14	.16	.00	.00	.00	2.67	3.12	.00	.00	.00
g05g - CLASSE 5 / 10	2	267.00	3.26	-.88	.22	.00	.00	.00	-4.69	1.19	.00	.00	.00
g06g - CLASSE 6 / 10	1	85.00	11.15	.38	-.16	.00	.00	.00	1.42	-.60	.00	.00	.00
g07g - CLASSE 7 / 10	1	104.00	12.79	.16	.10	.00	.00	.00	.61	.39	.00	.00	.00
g08g - CLASSE 8 / 10	22	2694.00	.40	.00	.14	.00	.00	.00	.03	2.70	.00	.00	.00
g09g - CLASSE 9 / 10	14	2454.00	.21	.11	-.25	.00	.00	.00	1.58	-3.75	.00	.00	.00
g10g - CLASSE 10 / 10	12	1163.00	.58	-.09	.12	.00	.00	.00	-1.25	1.70	.00	.00	.00

COMPOSITION DE : COUPURE 'g' DE L'ARBRE EN 10 CLASSES

----- CLASSE 1 / 10 -----

accord majorite merex tierx

----- CLASSE 2 / 10 -----

acquisition	actif	actuel	apport	assurer	augmentation
avenir	beneficier	condition	conserver	constituer	controle
disposition	ensemble	envisager	existence	financement	gestion
important	initx	intention	interet	investissement	maintien
objectif	offre	offrir	opa	participation	performance
perspective	politique	possibilite	poursuite	pouvoir	present
presenter	propre	succes	valeur	visex	

----- CLASSE 3 / 10 -----

dirigeants	echange	entreprise	personnel

----- CLASSE 4 / 10 -----

action	actionnaire	base	bourse	capital	cession
conseiladministratio	cotation	decision	dividende	exercice	fusion
holding	minoritaire	ope	operation	prix	proposer
proprietaire	raison	restructuration	situation		

----- CLASSE 5 / 10 -----

assurance	filia

----- CLASSE 6 / 10 -----

immobilier

----- CLASSE 7 / 10 -----

magasin

----- CLASSE 8 / 10 -----

concurrence	dimension	economie	equipement	europe	fabrication
france	industrie	international	leader	marche	moyen
necessite	place	plan	position	production	produits
recherche	specialisation	strategie	technologie		

----- CLASSE 9 / 10 -----

activite	commun	complementaire	developpement	diversification	domaine
exercer	filiale	filix	nouveau	realisation	renforcement
secteur	structure				

----- CLASSE 10 / 10 -----

chiffreaffaires	commercial	concerner	distribution	exploitation	implantation
meilleur	region	regroupement	reseau	synergie	vente

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FIN DE LA PROCEDURE ** PARTI **
partition

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** STOP : FIN DE L'ANALYSE **

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ANNEXE n° 21

LES MOTIVATIONS EXPLICITES

LES VALEURS PROPRES DE L'A.C.M.
(analyse combinatoire)

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS :
TRACE AVANT DIAGONALISATION 1.0000
SOMME DES VALEURS PROPRES 1.0000

HISTOGRAMME DES 10 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	0.2181	21.81	21.81	**********
2	0.1468	14.68	36.49	*******
3	0.1280	12.80	49.29	******
4	0.1035	10.35	59.64	*****
5	0.0877	8.77	68.41	****
6	0.0770	7.70	76.10	****
7	0.0674	6.74	82.84	***
8	0.0664	6.64	89.48	***
9	0.0582	5.82	95.30	***
10	0.0470	4.70	100.00	**

ANNEXE n° 22

LES MOTIVATIONS EXPLICITES

— L'HISTOGRAMME DES INDICES DE NIVEAU
— LA DESCRIPTION DES NŒUDS DE LA HIERARCHIE
— LE DENDOGRAMME

(analyse combinatoire)

CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES 60 NOEUDS D'INDICES LES PLUS ELEVES

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
366	225	160	10	10.00	0.00022	*
367	92	358	8	8.00	0.00023	*
368	146	232	3	3.00	0.00023	*
369	347	329	5	5.00	0.00025	*
370	4	50	2	2.00	0.00025	*
371	338	340	5	5.00	0.00026	*
372	195	367	9	9.00	0.00028	*
373	317	316	4	4.00	0.00029	*
374	334	184	7	7.00	0.00029	*
375	341	344	8	8.00	0.00029	*
376	343	370	4	4.00	0.00030	*
377	147	105	2	2.00	0.00032	*
378	335	368	5	5.00	0.00033	*
379	254	363	6	6.00	0.00034	*
380	362	352	6	6.00	0.00044	*
381	350	318	5	5.00	0.00045	*
382	359	323	4	4.00	0.00050	*
383	348	311	4	4.00	0.00052	*
384	373	312	6	6.00	0.00062	*
385	327	326	4	4.00	0.00064	*
386	150	353	4	4.00	0.00067	*
387	320	158	4	4.00	0.00067	*
388	361	371	9	9.00	0.00070	*
389	240	351	11	11.00	0.00072	*
390	375	354	12	12.00	0.00074	*
391	324	255	20	20.00	0.00077	*
392	360	377	5	5.00	0.00078	*
393	357	389	15	15.00	0.00083	*
394	176	378	6	6.00	0.00088	*
395	387	73	5	5.00	0.00094	*
396	365	369	9	9.00	0.00097	*
397	39	197	2	2.00	0.00113	*
398	364	315	6	6.00	0.00121	*
399	385	376	8	8.00	0.00134	*
400	374	372	16	16.00	0.00139	*
401	386	383	8	8.00	0.00143	*
402	166	24	2	2.00	0.00170	**
403	390	379	18	18.00	0.00177	**
404	303	310	49	49.00	0.00189	**
405	393	366	25	25.00	0.00219	**
406	392	397	7	7.00	0.00225	**
407	325	384	8	8.00	0.00261	**
408	382	396	13	13.00	0.00279	**
409	394	380	12	12.00	0.00303	**
410	395	381	10	10.00	0.00351	***
411	401	356	10	10.00	0.00493	****
412	406	388	16	16.00	0.00514	****
413	404	391	69	69.00	0.00551	****
414	409	400	28	28.00	0.00620	****
415	413	405	94	94.00	0.00801	******
416	399	402	10	10.00	0.00836	******
417	407	411	18	18.00	0.00857	******
418	398	414	34	34.00	0.00898	******
419	408	403	31	31.00	0.00916	******
420	416	417	28	28.00	0.01818	************
421	410	418	44	44.00	0.02004	************
422	412	419	47	47.00	0.02770	******************
423	422	421	91	91.00	0.08620	**********
424	420	423	119	119.00	0.10065	**********
425	415	424	213	213.00	0.12789	**********

SOMME DES INDICES DE NIVEAU = 0.49289

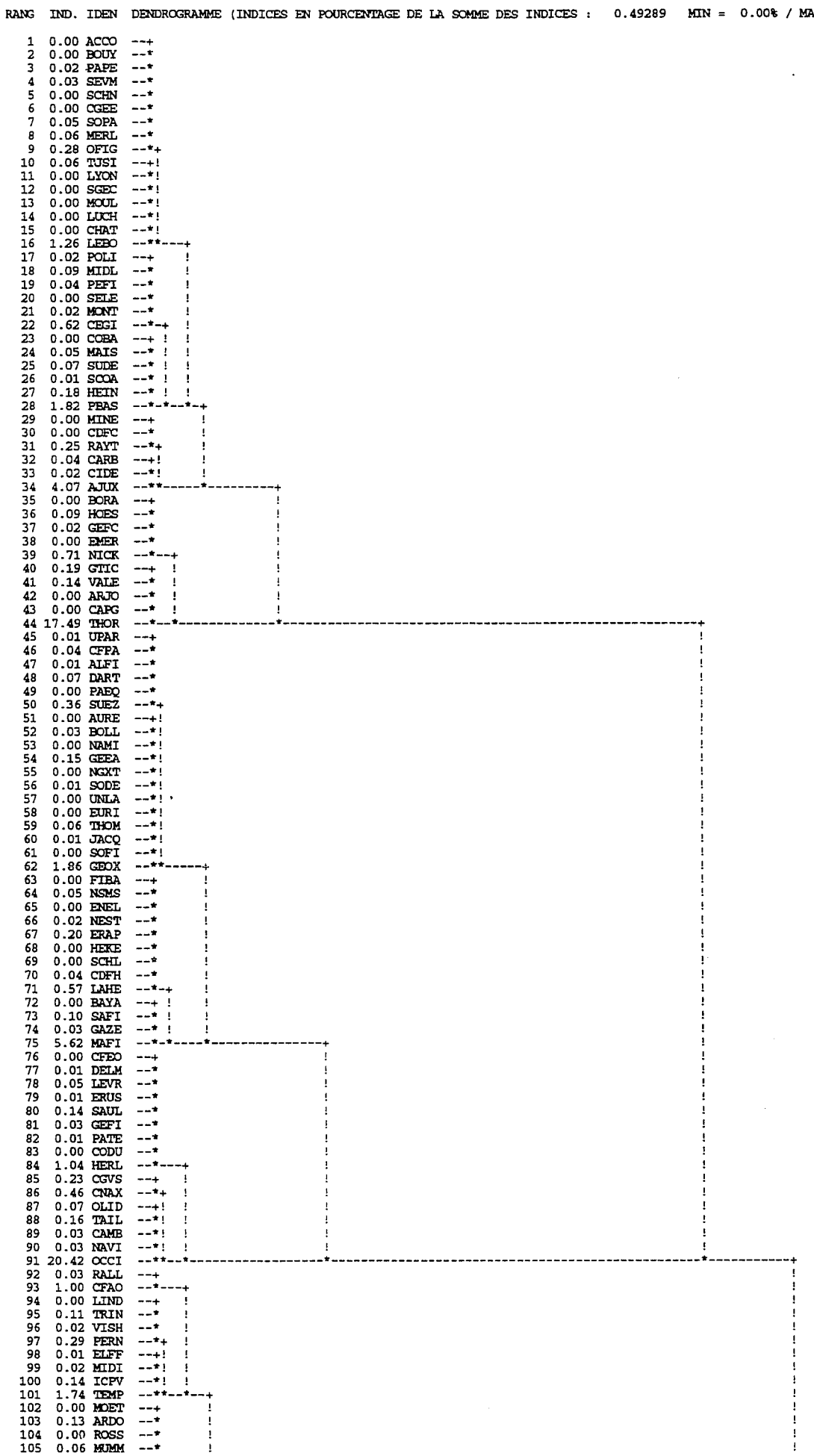
DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : 0.49289)

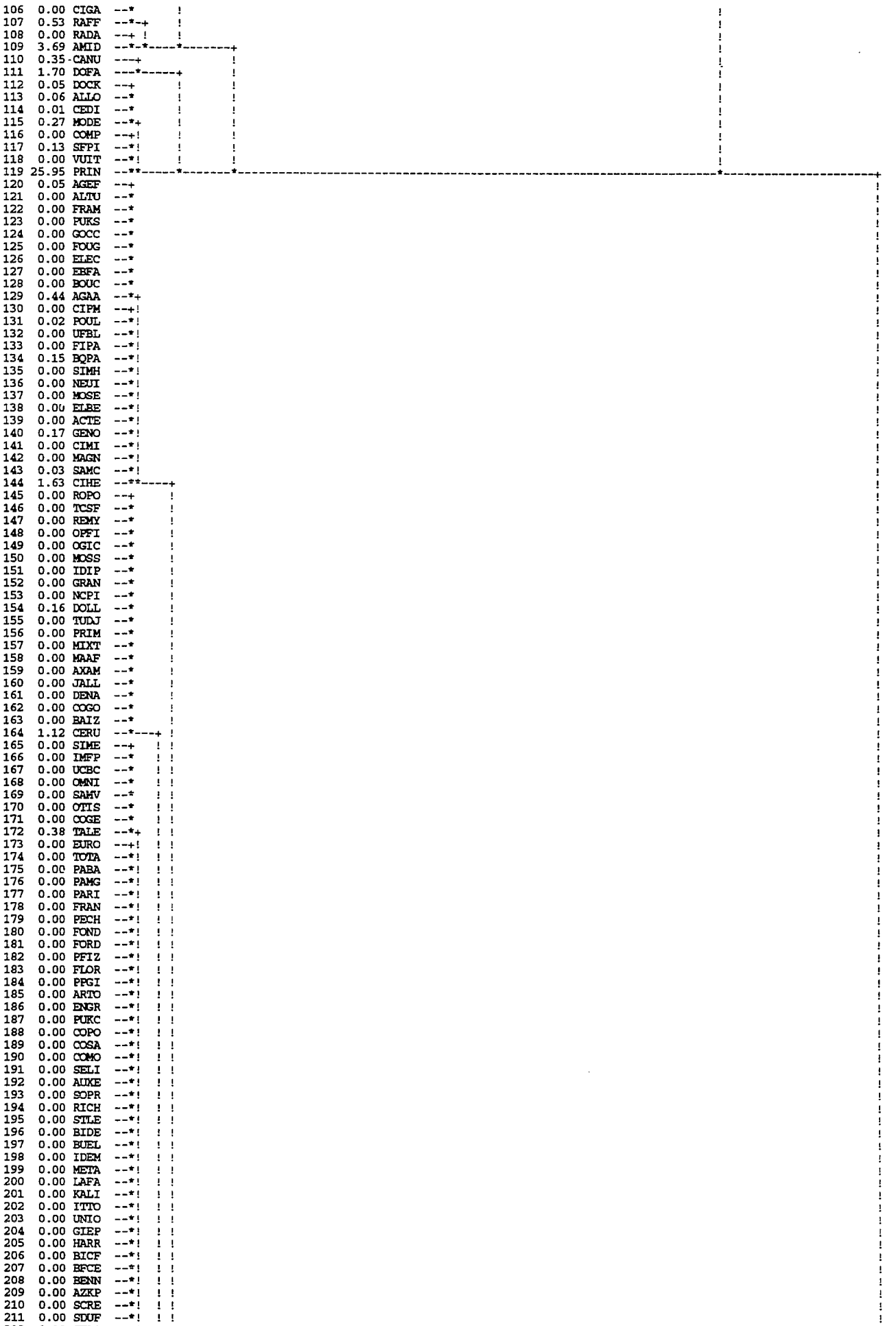
NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
214	0.00	2	1	2	2.00	1	2
215	0.00	7	6	2	2.00	6	7
216	0.00	215	5	3	3.00	5	7
217	0.00	12	11	2	2.00	11	12
218	0.00	129	128	2	2.00	128	129
219	0.00	218	127	3	3.00	127	129
220	0.00	219	126	4	4.00	126	129
221	0.00	220	125	5	5.00	125	129
222	0.00	221	124	6	6.00	124	129
223	0.00	222	123	7	7.00	123	129
224	0.00	223	122	8	8.00	122	129
225	0.00	224	121	9	9.00	121	129
226	0.00	134	133	2	2.00	133	134
227	0.00	16	15	2	2.00	15	16
228	0.00	227	14	3	3.00	14	16
229	0.00	228	13	4	4.00	13	16
230	0.00	131	130	2	2.00	130	131
231	0.00	56	55	2	2.00	55	56
232	0.00	24	23	2	2.00	23	24
233	0.00	21	20	2	2.00	20	21
234	0.00	39	38	2	2.00	38	39
235	0.00	54	53	2	2.00	53	54
236	0.00	140	139	2	2.00	139	140
237	0.00	236	138	3	3.00	138	140
238	0.00	237	137	4	4.00	137	140
239	0.00	238	136	5	5.00	136	140
240	0.00	239	135	6	6.00	135	140
241	0.00	62	61	2	2.00	61	62
242	0.00	59	58	2	2.00	58	59
243	0.00	242	57	3	3.00	57	59
244	0.00	143	142	2	2.00	142	143
245	0.00	154	153	2	2.00	153	154
246	0.00	245	152	3	3.00	152	154
247	0.00	246	151	4	4.00	151	154
248	0.00	247	150	5	5.00	150	154
249	0.00	248	149	6	6.00	149	154
250	0.00	249	148	7	7.00	148	154
251	0.00	250	147	8	8.00	147	154
252	0.00	146	145	2	2.00	145	146
253	0.00	66	65	2	2.00	65	66
254	0.00	50	49	2	2.00	49	50
255	0.00	251	252	10	10.00	145	154
256	0.00	164	163	2	2.00	163	164
257	0.00	256	162	3	3.00	162	164
258	0.00	257	161	4	4.00	161	164
259	0.00	258	160	5	5.00	160	164
260	0.00	259	159	6	6.00	159	164
261	0.00	260	158	7	7.00	158	164
262	0.00	261	157	8	8.00	157	164
263	0.00	156	155	2	2.00	155	156
264	0.00	213	212	2	2.00	212	213
265	0.00	264	211	3	3.00	211	213
266	0.00	265	210	4	4.00	210	213
267	0.00	266	209	5	5.00	209	213
268	0.00	267	208	6	6.00	208	213
269	0.00	268	207	7	7.00	207	213
270	0.00	269	206	8	8.00	206	213
271	0.00	197	196	2	2.00	196	197
272	0.00	271	195	3	3.00	195	197
273	0.00	272	194	4	4.00	194	197
274	0.00	273	193	5	5.00	193	197

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
275	0.00	274	192	6	6.00	192	197
276	0.00	275	191	7	7.00	191	197
277	0.00	276	190	8	8.00	190	197
278	0.00	189	188	2	2.00	188	189
279	0.00	278	187	3	3.00	187	189
280	0.00	279	186	4	4.00	186	189
281	0.00	280	185	5	5.00	185	189
282	0.00	281	184	6	6.00	184	189
283	0.00	282	183	7	7.00	183	189
284	0.00	283	182	8	8.00	182	189
285	0.00	181	180	2	2.00	180	181
286	0.00	285	179	3	3.00	179	181
287	0.00	286	178	4	4.00	178	181
288	0.00	287	177	5	5.00	177	181
289	0.00	288	176	6	6.00	176	181
290	0.00	289	175	7	7.00	175	181
291	0.00	290	174	8	8.00	174	181
292	0.00	205	204	2	2.00	204	205
293	0.00	292	203	3	3.00	203	205
294	0.00	293	202	4	4.00	202	205
295	0.00	294	201	5	5.00	201	205
296	0.00	295	200	6	6.00	200	205
297	0.00	296	199	7	7.00	199	205
298	0.00	297	198	8	8.00	198	205
299	0.00	270	298	16	16.00	198	213
300	0.00	299	277	24	24.00	190	213
301	0.00	300	284	32	32.00	182	213
302	0.00	301	291	40	40.00	174	213
303	0.00	302	173	41	41.00	173	213
304	0.00	172	171	2	2.00	171	172
305	0.00	304	170	3	3.00	170	172
306	0.00	305	169	4	4.00	169	172
307	0.00	306	168	5	5.00	168	172
308	0.00	307	167	6	6.00	167	172
309	0.00	308	166	7	7.00	166	172
310	0.00	309	165	8	8.00	165	172
311	0.00	95	94	2	2.00	94	95
312	0.00	103	102	2	2.00	102	103
313	0.00	84	83	2	2.00	83	84
314	0.00	31	30	2	2.00	30	31
315	0.00	314	29	3	3.00	29	31
316	0.00	105	104	2	2.00	104	105
317	0.00	107	106	2	2.00	106	107
318	0.00	36	35	2	2.00	35	36
319	0.00	44	43	2	2.00	43	44
320	0.00	319	42	3	3.00	42	44
321	0.00	70	69	2	2.00	69	70
322	0.00	321	68	3	3.00	68	70
323	0.00	73	72	2	2.00	72	73
324	0.00	262	263	10	10.00	155	164
325	0.00	109	108	2	2.00	108	109
326	0.00	117	116	2	2.00	116	117
327	0.00	119	118	2	2.00	118	119
328	0.00	52	51	2	2.00	51	52
329	0.00	64	63	2	2.00	63	64
330	0.00	77	76	2	2.00	76	77
331	0.00	226	132	3	3.00	132	134
332	0.00	3	214	3	3.00	1	3
333	0.00	244	141	3	3.00	141	143
334	0.00	229	217	6	6.00	11	16
335	0.01	27	26	2	2.00	26	27
336	0.01	48	47	2	2.00	47	48
337	0.01	99	98	2	2.00	98	99
338	0.01	80	79	2	2.00	79	80
339	0.01	46	45	2	2.00	45	46
340	0.01	78	330	3	3.00	76	78

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
341	0.01	241	60	3	3.00	60	62
342	0.01	313	82	3	3.00	82	84
343	0.01	115	114	2	2.00	114	115
344	0.01	243	231	5	5.00	55	59
345	0.02	22	233	3	3.00	20	22
346	0.02	4	332	4	4.00	1	4
347	0.02	67	253	3	3.00	65	67
348	0.02	97	96	2	2.00	96	97
349	0.02	34	33	2	2.00	33	34
350	0.02	234	37	3	3.00	37	39
351	0.02	331	230	5	5.00	130	134
352	0.02	18	17	2	2.00	17	18
353	0.02	100	337	3	3.00	98	100
354	0.03	235	328	4	4.00	51	54
355	0.03	91	90	2	2.00	90	91
356	0.03	93	92	2	2.00	92	93
357	0.03	144	333	4	4.00	141	144
358	0.03	216	346	7	7.00	1	7
359	0.03	75	74	2	2.00	74	75
360	0.03	355	89	3	3.00	89	91
361	0.03	342	81	4	4.00	81	84
362	0.04	345	19	4	4.00	19	22
363	0.04	336	339	4	4.00	45	48
364	0.04	349	32	3	3.00	32	34
365	0.04	71	322	4	4.00	68	71
366	0.05	225	120	10	10.00	120	129
367	0.05	8	358	8	8.00	1	8
368	0.05	25	232	3	3.00	23	25
369	0.05	347	329	5	5.00	63	67
370	0.05	113	112	2	2.00	112	113
371	0.05	338	340	5	5.00	76	80
372	0.06	9	367	9	9.00	1	9
373	0.06	317	316	4	4.00	104	107
374	0.06	334	10	7	7.00	10	16
375	0.06	341	344	8	8.00	55	62
376	0.06	343	370	4	4.00	112	115
377	0.07	88	87	2	2.00	87	88
378	0.07	335	368	5	5.00	23	27
379	0.07	254	363	6	6.00	45	50
380	0.09	362	352	6	6.00	17	22
381	0.09	350	318	5	5.00	35	39
382	0.10	359	323	4	4.00	72	75
383	0.11	348	311	4	4.00	94	97
384	0.13	373	312	6	6.00	102	107
385	0.13	327	326	4	4.00	116	119
386	0.14	101	353	4	4.00	98	101
387	0.14	320	41	4	4.00	41	44
388	0.14	361	371	9	9.00	76	84
389	0.15	240	351	11	11.00	130	140
390	0.15	375	354	12	12.00	51	62
391	0.16	324	255	20	20.00	145	164
392	0.16	360	377	5	5.00	87	91
393	0.17	357	389	15	15.00	130	144
394	0.18	28	378	6	6.00	23	28
395	0.19	387	40	5	5.00	40	44
396	0.20	365	369	9	9.00	63	71
397	0.23	86	85	2	2.00	85	86
398	0.25	364	315	6	6.00	29	34
399	0.27	385	376	8	8.00	112	119
400	0.28	374	372	16	16.00	1	16
401	0.29	386	383	8	8.00	94	101
402	0.35	111	110	2	2.00	110	111
403	0.36	390	379	18	18.00	45	62
404	0.38	303	310	49	49.00	165	213
405	0.44	393	366	25	25.00	120	144
406	0.46	392	397	7	7.00	85	91

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
407	0.53	325	384	8	8.00	102	109
408	0.57	382	396	13	13.00	63	75
409	0.62	394	380	12	12.00	17	28
410	0.71	395	381	10	10.00	35	44
411	1.00	401	356	10	10.00	92	101
412	1.04	406	388	16	16.00	76	91
413	1.12	404	391	69	69.00	145	213
414	1.26	409	400	28	28.00	1	28
415	1.63	413	405	94	94.00	120	213
416	1.70	399	402	10	10.00	110	119
417	1.74	407	411	18	18.00	92	109
418	1.82	398	414	34	34.00	1	34
419	1.86	408	403	31	31.00	45	75
420	3.69	416	417	28	28.00	92	119
421	4.07	410	418	44	44.00	1	44
422	5.62	412	419	47	47.00	45	91
423	17.49	422	421	91	91.00	1	91
424	20.42	420	423	119	119.00	1	119
425	25.95	415	424	213	213.00	1	213


RANG IND. IDEN DENDROGRAMME (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : 0.49289 MIN = 0.00% / MAX = 25.95%)
1 0.00 ACCO
2 0.00 BOUY
3 0.02 PAPE
4 0.03 SEVM
5 0.00 SCHN
6 0.00 CGEE
7 0.05 SOPA
8 0.06 MERL
9 0.28 OFIG
10 0.06 TJSI
11 0.00 LYON
12 0.00 SGEC
13 0.00 MOUL
14 0.00 LUCH
15 0.00 CHAT
16 1.26 LEBO
17 0.02 POLI
18 0.09 MIDL
19 0.04 PEFI
20 0.00 SELE
21 0.02 MONT
22 0.62 CEGI
23 0.00 COBA
24 0.05 MAIS
25 0.07 SUDE
26 0.01 SCOA
27 0.18 HEIN
28 1.82 PBAS
29 0.00 MINE
30 0.00 CDFC
31 0.25 RAYT
32 0.04 CARB
33 0.02 CIDE
34 4.07 AJUX
35 0.00 BORA
36 0.09 HOES
37 0.02 GEFC
38 0.00 EMER
39 0.71 NICK
40 0.19 GTIC
41 0.14 VALE
42 0.00 ARJO
43 0.00 CAPG
44 17.49 THOR
45 0.01 UPAR
46 0.04 CFPA
47 0.01 ALFI
48 0.07 DART
49 0.00 PAEQ
50 0.36 SUEZ
51 0.00 AURE
52 0.03 BOLL
53 0.00 NAMI
54 0.15 GEEA
55 0.00 NGXT
56 0.01 SODE
57 0.00 UNLA
58 0.00 EURI
59 0.06 THOM
60 0.01 JACQ
61 0.00 SOFI
62 1.86 GEOX
63 0.00 FIBA
64 0.05 NSMS
65 0.00 ENEL
66 0.02 NEST
67 0.20 ERAP
68 0.00 HEKE
69 0.00 SCHL
70 0.04 CDFH
71 0.57 LAHE
72 0.00 BAYA
73 0.10 SAFI
74 0.03 GAZE
75 5.62 MAFI
76 0.00 CFEO
77 0.01 DELM
78 0.05 LEVR
79 0.01 ERUS
80 0.14 SAUL
81 0.03 GEFI
82 0.01 PATE
83 0.00 CODU
84 1.04 HERL
85 0.23 CGVS
86 0.46 CNAX
87 0.07 OLID
88 0.16 TAIL
89 0.03 CAMB
90 0.03 NAVI
91 20.42 OCCI
92 0.03 RALL
93 1.00 CFAO
94 0.00 LIND
95 0.11 TRIN
96 0.02 VISH
97 0.29 PERN
98 0.01 ELFF
99 0.02 MIDI
100 0.14 ICPV
101 1.74 TEMP
102 0.00 MOET
103 0.13 ARDO
104 0.00 ROSS
105 0.06 MUMM


106 0.00 CIGA
107 0.53 RAFF
108 0.00 RADA
109 3.69 AMID
110 0.35 CANU
111 1.70 DOFA
112 0.05 DOCK
113 0.06 ALLO
114 0.01 CEDI
115 0.27 MODE
116 0.00 COMP
117 0.13 SFPI
118 0.00 VUIT
119 25.95 PRIN
120 0.05 AGEF
121 0.00 ALTU
122 0.00 FRAM
123 0.00 PUKS
124 0.00 GOCC
125 0.00 FOUG
126 0.00 ELEC
127 0.00 EBFA
128 0.00 BOUC
129 0.44 AGAA
130 0.00 CIPM
131 0.02 POUL
132 0.00 UFBL
133 0.00 FIPA
134 0.15 BQPA
135 0.00 SIMH
136 0.00 NEUI
137 0.00 MOSE
138 0.00 ELBE
139 0.00 ACTE
140 0.17 GENO
141 0.00 CIMI
142 0.00 MAGN
143 0.03 SAMC
144 1.63 CIHE
145 0.00 ROPO
146 0.00 TCSF
147 0.00 REMY
148 0.00 OPTI
149 0.00 OGIC
150 0.00 MOSS
151 0.00 IDIP
152 0.00 GRAN
153 0.00 NCPI
154 0.16 DOLL
155 0.00 TUDJ
156 0.00 PRIM
157 0.00 MIXT
158 0.00 MAAF
159 0.00 AXAM
160 0.00 JALL
161 0.00 DENA
162 0.00 COGO
163 0.00 BAIZ
164 1.12 CERU
165 0.00 SIME
166 0.00 IMFP
167 0.00 UCBC
168 0.00 OMNI
169 0.00 SAHV
170 0.00 OTIS
171 0.00 COGE
172 0.38 TALE
173 0.00 EURO
174 0.00 TOTA
175 0.00 PABA
176 0.00 PAMG
177 0.00 PARI
178 0.00 FRAN
179 0.00 PECH
180 0.00 FOND
181 0.00 FORD
182 0.00 PFIZ
183 0.00 FLOR
184 0.00 PPGI
185 0.00 ARTO
186 0.00 ENGR
187 0.00 PUKC
188 0.00 COPO
189 0.00 COSA
190 0.00 COMO
191 0.00 SELI
192 0.00 AUKE
193 0.00 SOPR
194 0.00 RICH
195 0.00 SILE
196 0.00 BIDE
197 0.00 BUEL
198 0.00 IDEM
199 0.00 META
200 0.00 LAFA
201 0.00 KALI
202 0.00 ITTO
203 0.00 UNIO
204 0.00 GIEP
205 0.00 HARR
206 0.00 BICP
207 0.00 BFCE
208 0.00 BENN
209 0.00 AZKP
210 0.00 SCRE
211 0.00 SDUF
212 0.00 SEAG

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213 ----- AZKO  --**--*-*-----------------------------------------------------------------------------------------------------*

==========================================================================================================================
                                                FIN DE LA PROCEDURE ** RECIP **
                                                   Arbre hiérarchique
==========================================================================================================================

---------- SPAD.N - MODIFICATION DE PARAMETRES ------------------------------------------------------------------------------

        NGRO='Macintosh HD:SPADN:Dicomb3.NGRO.test'

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ANNEXE n° 23

LES MOTIVATIONS EXPLICITES

LA PARTITION RETENUE
(analyse combinatoire)

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V4	[illegible]	4678.000	2292.000	-.087047	.9306351	-.087047	.9306351	68	68
V9	4638.000	4678.000	2292.000	-.087047	.9306351	-.087047	.9306351	68	68
V19	4875.000	4441.000	2095.000	-.944455	.3449445	-.944459	.3449421	68	68
V24	4616.000	4700.000	2270.000	-.182798	.8549579	-.182798	.8549579	68	68
V29	4750.000	4566.000	2220.000	-.400414	.6888543	-.400519	.6887769	68	68
V34	4711.000	4605.000	2259.000	-.230673	.8175701	-.230734	.8175231	68	68
V39	4839.000	4477.000	2131.000	-.787771	.4308365	-.787775	.4308343	68	68

N-2 N-1

CONSOLIDATION DE LA PARTITION AUTOUR DES 4 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	0.492885	0.314738	0.6386
1	0.492885	0.324466	0.6583
2	0.492885	0.327768	0.6650
3	0.492885	0.328744	0.6670
4	0.492885	0.328744	0.6670
5	0.492885	0.328744	0.6670

ARRET APRES L'ITERATION 5 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE 0.000 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 3 AXES

	INERTIES		EFFECTIFS		POIDS		DISTANCES	
	AVANT	APRES	AVANT	APRES	AVANT	APRES	AVANT	APRES
INERTIE INTER-CLASSES	0.3147	0.3287						
INERTIES INTRA-CLASSE								
CLASSE 1 / 4	0.0502	0.0554	44	50	44.00	50.00	0.4304	0.3660
CLASSE 2 / 4	0.0567	0.0320	47	31	47.00	31.00	0.3052	0.5818
CLASSE 3 / 4	0.0509	0.0446	28	25	28.00	25.00	0.6620	0.7594
CLASSE 4 / 4	0.0204	0.0322	94	107	94.00	107.00	0.1619	0.1374
INERTIE TOTALE	0.4929	0.4929						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... 0.6386
APRES ... 0.6670

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 3

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
COUPURE 'b' DE L'ARBRE EN 4 CLASSES													
bb1b - CLASSE 1 / 4	50	50.00	0.37	-0.96	0.38	1.06	0.00	0.00	-7.75	3.06	8.53	0.00	0.00
bb2b - CLASSE 2 / 4	31	31.00	0.58	-1.01	-1.23	-1.04	0.00	0.00	-6.05	-7.38	-6.27	0.00	0.00
bb3b - CLASSE 3 / 4	25	25.00	0.76	-0.07	1.90	-1.34	0.00	0.00	-0.39	10.07	-7.12	0.00	0.00
bb4b - CLASSE 4 / 4	107	107.00	0.14	0.76	-0.26	0.12	0.00	0.00	11.09	-3.87	1.77	0.00	0.00

COMPOSITION DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

----- CLASSE 1 / 4 -----

UPAR AJUX ARJO BOLL BORA BOUY CAPG CARB CDFC CEGI CGEE CHAT COBA GEEA GTIC HEIN LEBO LIND LUCH LYON MERL MIDL MINE MONT MOUL
RAYT SCOA SEVM SGEC SOPA SUDE TRIN VALE AURE CIDE GEFC PAPE POLI SCHN THOR TJSI VISH OFIG MAIS HOES SELE EMER PEFI NAMI NICK

----- CLASSE 2 / 4 -----

BAYA CAMB CFPA CNAX CODU DART DELM FIBA GAZE GEFI GEOX HERL MAFI OCCI OLID PATE SAFI SAUL TAIL CFEO ERUS LEVR PBAS SOFI SUEZ
CGVS PAEQ ALFI NAVI NSMS UPAR

----- CLASSE 3 / 4 -----

ALLO AMID ARDO CANU CEDI CIGA COMP DOCK ELFF ICPV MIDI MOET PERN PRIN RADA RAFF ROSS SFPI TEMP VUIT CFAO DOFA MODE MUMM RALL

----- CLASSE 4 / 4 -----

AGAA ARTO AUXE AZKO AZKP BAIZ BENN BFCE BICF BIDE BOUC BUEL CDFH CERU CIHE CIMI CIPM COGO COMO COPO COSA DENA DOLL EBFA ELEC
ENEL ENGR ERAP FIPA FLOR FOND FORD FOUG FRAN GENO GIEP GOCC GRAN HARR HEKE IDIP ITTO JACQ JALL KALI LAFA LAHE MAAF META MIXT
MOSE MOSS OGIC OMNI OPFI OTIS PABA PAMG PARI PECH PFIZ POUL PPGI PRIM PUKC PUKS REMY RICH ROPO SCHL SCRE SDUF SEAG SELI SIME
SIMH SODE SOPR STLE TALE TCSF THOM TUDJ UCBC UFBL UNIO UNLA AGEF AXAM EURI EURO FRAM SAMV TOTA IDEM COGE ACTE BQPA ALTU MAGN
SAMC ELBE IMFP NCPI NEST NEUI NGXT

ANNEXE n° 24

LES MOTIVATIONS EXPLICITES

LA DESCRIPTION DES CLASSES PAR LES LOGIQUES GENERIQUES (analyse combinatoire)

CARACTERISATION PAR LES MODALITES
DES CLASSES OU MODALITES DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

MODALITES CARACTERISTIQUES		IDEN	POURCENTAGES CLA/MOD	POURCENTAGES MOD/CLA	POURCENTAGES GLOBAL	POIDS	V.TEST	PROBA
CLASSE 1 / 4		bb1b			23.47	50		
dg8	presence	AI01	94.59	70.00	17.37	37	10.44	0.000
dg9	presence	AJ01	46.43	78.00	39.44	84	6.22	0.000
dg3	presence	AD01	50.00	58.00	27.23	58	5.19	0.000
dg2	presence	AC01	50.98	52.00	23.94	51	4.88	0.000
dg10	presence	AK01	40.54	30.00	17.37	37	2.39	0.008
dg10	absence	AK02	19.89	70.00	82.63	176	-2.39	0.008
dg2	absence	AC02	14.81	48.00	76.06	162	-4.88	0.000
dg3	absence	AD02	13.55	42.00	72.77	155	-5.19	0.000
dg9	absence	AJ02	8.53	22.00	60.56	129	-6.22	0.000
dg8	absence	AI02	8.52	30.00	82.63	176	-10.44	0.000
CLASSE 2 / 4		bb2b			14.55	31		
dg4	presence	AE01	67.65	74.19	15.96	34	8.07	0.000
dg5	presence	AF01	41.27	83.87	29.58	63	6.68	0.000
dg1	presence	AB01	32.20	61.29	27.70	59	4.09	0.000
dg2	presence	AC01	33.33	54.84	23.94	51	3.87	0.000
dg3	presence	AD01	29.31	54.84	27.23	58	3.35	0.000
dg3	absence	AD02	9.03	45.16	72.77	155	-3.35	0.000
dg2	absence	AC02	8.64	45.16	76.06	162	-3.87	0.000
dg1	absence	AB02	7.79	38.71	72.30	154	-4.09	0.000
dg5	absence	AF02	3.33	16.13	70.42	150	-6.68	0.000
dg4	absence	AE02	4.47	25.81	84.04	179	-8.07	0.000
CLASSE 3 / 4		bb3b			11.74	25		
dg7	presence	AH01	100.00	60.00	7.04	15	8.24	0.000
dg10	presence	AK01	56.76	84.00	17.37	37	7.85	0.000
dg8	absence	AI02	14.20	100.00	82.63	176	2.50	0.006
dg8	presence	AI01	0.00	0.00	17.37	37	-2.50	0.006
dg10	absence	AK02	2.27	16.00	82.63	176	-7.85	0.000
dg7	absence	AH02	5.05	40.00	92.96	198	-8.24	0.000

MODALITES CARACTERISTIQUES		IDEN	POURCENTAGES CLA/MOD	POURCENTAGES MOD/CLA	POURCENTAGES GLOBAL	POIDS	V.TEST	PROBA
CLASSE 4 / 4		bb4b			50.23	107		
dg2	absence	AC02	64.20	97.20	76.06	162	7.60	0.000
dg10	absence	AK02	60.80	100.00	82.63	176	7.31	0.000
dg3	absence	AD02	64.52	93.46	72.77	155	6.95	0.000
dg8	absence	AI02	60.23	99.07	82.63	176	6.75	0.000
dg9	absence	AJ02	66.67	80.37	60.56	129	5.90	0.000
dg5	absence	AF02	62.00	86.92	70.42	150	5.25	0.000
dg7	absence	AH02	54.04	100.00	92.96	198	4.15	0.000
dg4	absence	AE02	56.42	94.39	84.04	179	4.07	0.000
dg1	absence	AB02	58.44	84.11	72.30	154	3.76	0.000
dg1	presence	AB01	28.81	15.89	27.70	59	-3.76	0.000
dg4	presence	AE01	17.65	5.61	15.96	34	-4.07	0.000
dg7	presence	AH01	0.00	0.00	7.04	15	-4.15	0.000
dg5	presence	AF01	22.22	13.08	29.58	63	-5.25	0.000
dg9	presence	AJ01	25.00	19.63	39.44	84	-5.90	0.000
dg8	presence	AI01	2.70	0.93	17.37	37	-6.75	0.000
dg3	presence	AD01	12.07	6.54	27.23	58	-6.95	0.000
dg10	presence	AK01	0.00	0.00	17.37	37	-7.31	0.000
dg2	presence	AC01	5.88	2.80	23.94	51	-7.60	0.000

ANNEXE n° 25

LA COMPOSITION DES ECHANTILLONS D'ENTREPRISES POUR L'ETUDE DES MOTIVATIONS, RAISONS ET STRATEGIES DES OFFRES PUBLIQUES D'ACHAT ET D'ECHANGE

(avec l'identificateur utilisé pour les analyses de données)

ANNEXE 25-A

LA COMPOSITION DE L'ECHANTIILLON D'ENTREPRISES INITIATRICES DE 1970 à 1982

• SA TELECOMMUNICATIONS (1982)	SATE
• AUXILIAIRE D'ENTREPRISE (1980)	SAEX
• GRANDS MOULINS DE PANTIN (1980)	PANT
• L'ALLOBROGE (1980)	ALLO
• DOCKS DE FRANCE (1980)	DOCK
• PRINTEMPS (1979)	PRIN
• HAVAS (1979)	HAVA
• AMIDIS (1979)	AMID
• CIE FRANCAISE DES PETROLES (1978)	FRAN
• CIMENTS PORTLAND LORRAINE (1978)	PORT
• LUCHAIRE (1978)	LUCH
• COMPTOIRS MODERNES (1978)	COMP
• CIE FRANCAISE DE RAFFINAGE (1977)	RAFF
• SEV MARCHAL (1977)	SEVM
• THOMSON BRANDT (1977)	THOM
• CEDIS (1977)	CEDI
• COMPTOIRS MODERNES (1977)	COMX
• FONDERIES MONTUPET (1976)	FOND
• ARJOMARI PRIOUX (1976)	ARJO
• JACQUES BOREL INTERNATIONAL (1975)	JACQ
• MINES DE BITUME ET D'ASPHALTE DU CENTRE (1974)	MINE
• MERLIN GERIN (1973)	MERL
• FOUGEROLLE (1973)	FOUG
• SCREG (1972)	SCRE
• CGEE ALSTHOM (1972)	CGEE
• FONDERIES DE PONT-A-MOUSSON (1971)	PAMX
• LE NICKEL (1970)	NICK

ANNEXE 25-B

LA COMPOSITION DE L'ECHANTILLON D'ENTREPRISES INITIATRICES DE 1987 à 1990 ET DES ENTREPRISES TEMOINS

Entreprises initiatrices		Entreprises témoins
• GENERALE DES EAUX (1987)	EAUX	• BOUYGUES
• EPEDA BERTRAND FAURE (1987)	EBFA	• SOMMER ALLIBERT
• GTI (1988)	GTIX	• CGEA
• SCOA (1988)	SCOA	• CIE OPTORG
• LYONNAISE DES EAUX (1988)	LYON	• GTM ENTREPOSE
• OLIPAR (1988)	OLIP	• PERNOD RICARD
• VALEO (1988)	VALE	• ECIA
• AU PRINTEMPS (1988)	PRIN	• GALERIES LAFAYETTE
• SCHNEIDER (1988)	SCHN	• MICHELIN
• CFAO (1989)	CFAO	• LAFARGE COPPEE
• COMPTOIRS MODERNES (1989)	COMP	• ALSACIENNE DE SUPERMARCHES
• POLIET (1989)	POLI	• CIMENTS VICAT
• DOCKS DE FRANCE (1989)	DOCK	• CASINO GUICHARD PERRACHON

ANNEXE 25-C

COMPOSITION DE L'ECHANTILLON D'ENTREPRISES CIBLES DE 1970 à 1985

• MUMM (1985)	MUMM
• SINTRA (1985)	SINT
• CARBONE LORRAINE (1985)	CARB
• PEINTURES CORONA (1983)	CORO
• SILEC (1982)	SILE
• BANANIA (1981)	BANA
• ENTREPRISE TRAVAUX PUBLICS ANDRE BORIE (1980)	BORI
• MALTERIES FRANCO-BELGE (1980)	MALT
• CEC (1980)	CECX
• SABLIERES DE LA SEINE (1980)	SABL
• GRAND BAZAR DE LYON (1980)	GRAN
• LAIT MONT BLANC (1980)	LAIT
• PARIS FRANCE (1979)	PARI
• AVENIR PUBLICITE (1979)	AVEN
• TUILERIES GILARDONI FRERES (1979)	TUIL
• SABLIERES DE LA SEINE (1978)	SABX
• CIMENTS DE DANNES ET LAVOCAT (1978)	CIME
• PERMALI (1978)	PERM
• HUILES GOUDRONS ET DERIVES (1978)	HUIL
• LES FILS CHARVET (1977)	FILS
• QUARTZ ET SILICE (1977)	QUAR
• OCEANIC (1977)	OCE
• STE DE PARIS ET DU RHONE (1977)	PARX
• STE FRANCAISE DES TELEPHONES ERICSSON (1977)	SFTE
• ECONOMIQUES TROYENS ET DOCKS REUNIS (1977)	TROY
• ECONOMIQUES DE RENNES (1977)	RENN
• GENERALE ALIMENTAIRE (1976)	GENE
• ANTAR (1976)	ANTA
• CEFILAC (1976)	CEFI
• FONDERIES DE PRECISION (1976)	FOND
• DOCKS DU NORD LES ECO (1976)	DOCK
• ETS B. MIELLE (1976)	MIEL
• SANAL ECO (1976)	SANA
• SADAL (1976)	SADA

• CANSON ET MONTGOLFIER (1976)	CANS
• ACIERIES ET TREFILERIES DE NEUVES MAISONS CHATILLON (1976)	ACIE
• CLAUDEL (1975)	CLAU
• CONSIP ENTREPRISE (1975)	COMS
• RIPOLIN GEORGET FREITAG (1975)	RIPO
• SOFITEL (1975)	SOFI
• FORCLUM (1975)	FORC
• CUSENIER (1975)	CUSE
• DISTILLERIES REUNIES (1975)	DIST
• ALBRA (1975)	ALBR
• LABORATOIRES SARBACH (1975)	SARB
• CIMENTS DU NORD (1975)	NORD
• FRANCAISE D'ASCENSEURS WESTINGHOUSE (1974)	WEST
• NIVEA (1974)	NIVE
• CIE AUXILIAIRE DE NAVIGATION (1974)	AUXI
• FEREM (1974)	FERE
• ASTRAL (1974)	ASTR
• FRANCO-BELGE DE MATERIELS DE CHEMIN DE FER (1973)	FBMC
• CHIMIQUE DE LA ROUTE (1973)	CHIM
• POMMERY ET GRENO (1973)	POMM
• GLACIERES DE PARIS (1972)	GLAC
• DECAUVILLE (1972)	DECA
• STE DU GRAND HOTEL (1972)	HOTE
• MERRELL TORAUDE (1972)	MERR
• STE DE L'HOTEL MEURICE (1972)	MEUR
• BERNARD MOTEURS (1972)	BERN
• MINES DE BITUMES ET D'ASPHALTE DU CENTRE (1972)	BITU
• EVERITUBE (1971)	EVER
• FONDERIES DE PONT-A-MOUSSON (1971)	PONT
• PAPETERIES DE FRANCE (1971)	PAPE
• MARINONI (1970)	MARI
• WOOD-MILNE (1970)	WOOD
• CIE DE MOKTA (1970)	MOKT
• BRASSERIES ET MALTERIE MOTTE CORDONNIER (1970)	MOTT

ANNEXE 25-D

LA COMPOSITION DE L'ECHANTILLON D'ENTREPRISES CIBLES DE 1987 à 1990 ET DES ENTREPRISES TEMOINS

Entreprises cibles		Entreprises témoins
• DUFFOUR & IGON (1987)	DUFF	• CARBOXYQUE FRANCAISE
• CCMC (1987)	CCMC	• SLIGOS
• ADOLPHE LAFONT (1987)	ADOL	• ALBERT S.A.
• FICHET BAUCHE (1987)	FICH	• ZIEGLER
• LUCHAIRE (1987)	LUCH	• PRECISION MECANIQUE LABINAL
• RHIN RHONE (1988)	RHIN	• SAFIC ALCAN
• GUERIMAND VOIRON (1988)	GUER	• PAPETERIES DE CLAIREFONTAINE
• SEMA METRA (1988)	SEMA	• CAP GEMINI SOGETI
• UFINER (1988)	UFIN	• DYNACTION
• EMGP (1988)	EMGX	• GARONOR
• EPEDA BERTRAND FAURE (1988)	EFBA	• SOMMER ALLIBERT
• GUITEL ETIENNE MOBILOR (1988)	GUIT	• VIRAX
• TALCS DE LUZENAC (1988)	TALC	• CIE DES SALINS DU MIDI
• SFERNICE (1988)	SFER	• LE MATERIEL ELECTRONIQUE
• EUROPEENNE DE SOUFRES INDUSTRIELS (1988)	ESIN	• MANUFACTURE LANDAISE DE PRODUITS CHIMIQUE
• HOLOPHANE (1988)	HOLO	• POCHET
• LA REDOUTE (1988)	REDO	• NOUVELLES GALERIES REUNIES
• BADIN (1988)	BADI	• ETS RUBY
• TELEMECANIQUE (1988)	TELE	• MERLIN GERIN
• MARTELL (1988)	MART	• TAITTINGER
• CONSTRUCTIONS ELECTRIQUES DE NANCY (1989)	CONS	• CEE
• BERGER LEVRAULT (1989)	IMPB	• ISTRA
• LA RUCHE MERIDIONALE (1989)	RUCH	• GENTY S.A.
• LAMBERT FRERES (1989)	LAMB	• PORCHER
• ECONOMATS DU CENTRE (1989)	ECON	• GEL 2000
• AUSSEDAT REY (1989)	AUSS	• LA ROCHETTE
• MINES DE LA LUCETTE (1990)	MINE	• MANUFACTURE LANDAISE DE PRODUITS CHIMIQUES
• DEFONTAINE (1990)	DEFO	• PEUGEOT MOTOCYCLES
• IPA (1990)	IPAX	• COFIDEP
• EMGP (1990)	EMGP	• FINANCIERE SOGEPARC
• SAFAA (1990)	SAFA	• SIMOTRA
• BISCUITS GARDEIL (1990)	BISC	• BISCUITS POULT

ANNEXE 25-E

LA COMPOSITION DE L'ECHANTILLON DES COUPLES D'ENTREPRISES INITIATRICES ET CIBLES DE 1970 à 1982 (INITIATRICES/CIBLES)

• SA TELECOMMUNICATIONS/SILEC (1982)	SASI
• AUXILIAIRE D'ENTREPRISES SAE/A. BORIE (1980)	SABO
• GRANDS MOULINS DE PANTIN/MALTERIES FRANCO BELGE (1980)	PAMA
• L'ALLOBROGE/GRAND BAZAR DE LYON (1980)	ALLY
• AU PRINTEMPS/PARIS FRANCE (1979)	PRPA
• HAVAS/AVENIR PUBLICITE (1979)	HAPU
• CIMENTS PORTLAND LORRAINE/CIMENTS DE DANNES ET LAVOCAT (1978)	CICI
• LUCHAIRE/PERMALI (1978)	LUPE
• CIE FRANCAISE DE RAFFINAGE/LES FILS CHARVET (1977)	RACH
• SEV MARCHAL/PARIS RHONE (1977)	SEPR
• THOMSON BRANDT/SFT ERICSSON (1977)	THER
• CEDIS/ECONOMIQUES TROYENS ET DOCKS REUNIS (1977)	CEEC
• COMPTOIRS MODERNES/ECONOMIQUES DE RENNES (1977)	CDEC
• FONDERIES MONTUPET/FONDERIES DE PRECISION (1976)	FOFO
• ARJOMARI PRIOUX/CANSON & MONTGOLFIER (1976)	ARCA
• JACQUES BOREL INTERNATIONAL/SOFITEL (1975)	JBSO
• MINES DE BITUME ET D'ASPHALTE DU CENTRE/FEREM (1974)	MIFE
• FOUGEROLLE/CHIMIQUE DE LA ROUTE (1973)	FOCH
• SCREG/MINES DE BITUME ET D'ASPHALTE DU CENTRE (1972)	SCMI
• LE NICKEL/CIE DE MOKTA (1970)	NIMO

ANNEXE n° 26

LES MOTIVATIONS GENERALES 1970-1985

RESULTATS STATISTIQUES

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	665.0000	820.0000	287.0000	-1.34075	.1800118	-1.34075	.1800118	27	27
V6	675.0000	810.0000	297.0000	-1.16775	.2429169	-1.16775	.2429169	27	27
V17	787.0000	698.0000	320.0000	-.76985	.4413952	-.76985	.4413952	27	27
V22	751.0000	734.0000	356.0000	-.14705	.8830937	-.14705	.8830937	27	27
V27	731.0000	754.0000	353.0000	-.19895	.8423033	-.19895	.8423033	27	27
V32	679.0000	806.0000	301.0000	-1.09855	.2719733	-1.09855	.2719733	27	27
V37	749.0000	736.0000	358.0000	-.11245	.9104674	-.11245	.9104674	27	27

N-5 N-1

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V4	762.5000	762.5000	344.5000	-.346000	.7293453	-.346006	.7293404	27	27
V9	714.5000	770.5000	336.5000	-.484399	.6281058	-.484409	.6280993	27	27
V20	717.5000	767.5000	339.5000	-.432499	.6653814	-.432508	.6653754	27	27
V25	770.5000	714.5000	336.5000	-.484399	.6281058	-.484409	.6280993	27	27
V30	728.5000	756.5000	350.5000	-.242200	.8086270	-.242204	.8086234	27	27
V35	723.5000	761.5000	345.5000	-.328700	.7423850	-.328706	.7423802	27	27
V40	751.5000	733.5000	355.5000	-.155700	.8762707	-.155703	.8762683	27	27

N-2 N-1

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V3	[illegible]	782.5000	324.5000	-.691999	.4889430	-.692012	.4889347	27	27
V8	724.5000	760.5000	346.5000	-.311400	.7554989	-.311406	.7554944	27	27
V19	774.5000	710.5000	332.5000	-.553599	.5798570	-.553610	.5798498	27	27
V24	732.5000	752.5000	354.5000	-.173000	.8626527	-.173003	.8626501	27	27
V29	743.5000	741.5000	363.5000	-.017300	.9861974	-.017300	.9861971	27	27
V34	741.5000	743.5000	363.5000	-.017300	.9861974	-.017300	.9861971	27	27
V39	754.5000	730.5000	352.5000	-.207600	.8355429	-.207604	.8355398	27	27

N-3 N-2

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V2	708.5000	776.5000	330.5000	-.588199	.5564028	-.588210	.5563952	27	27
V7	716.5000	768.5000	338.5000	-.449799	.6528581	-.449808	.6528519	27	27
V18	775.5000	709.5000	331.5000	-.570899	.5680720	-.570910	.5680646	27	27
V23	731.5000	753.5000	353.5000	-.190300	.8490754	-.190303	.8490726	27	27
V28	735.5000	749.5000	357.5000	-.121100	.9036127	-.121102	.9036109	27	27
V33	700.5000	784.5000	322.5000	-.726599	.4674770	-.726613	.4674684	27	27
V38	745.5000	739.5000	361.5000	-.051900	.9586087	-.051901	.9586080	27	27

N-4 N-3

STATISTICA MANN-WHITNEY U TEST
NONPARAM By variable V0
STATS Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	[redacted]	755.5000	351.5000	-.224900	.8220587	-.224904	.8220554	27	27
V6	732.5000	752.5000	354.5000	-.173000	.8626527	-.173003	.8626501	27	27
V17	750.5000	734.5000	356.5000	-.138400	.8899253	-.138402	.8899232	27	27
V22	739.5000	745.5000	361.5000	-.051900	.9586087	-.051901	.9586080	27	27
V27	752.0000	733.0000	355.0000	-.164350	.8694568	-.164356	.8694519	27	27
V32	740.0000	745.0000	362.0000	-.043250	.9655026	-.043252	.9655012	27	27
V37	718.5000	766.5000	340.5000	-.415199	.6779987	-.415207	.6779929	27	27

N-5 N-4

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V12
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V5	179.0000	199.0000	88.00000	-.14558	.884255	-.14558
V10	182.0000	196.0000	91.00000	.00000	1.000000	.00000
V11	201.5000	176.5000	71.50000	-.94626	.344023	-1.73720
V14	162.5000	215.5000	71.50000	-.94626	.344023	-1.06299
V16	223.0000	155.0000	50.00000	-1.98957	.046647	-1.99079
V21	191.0000	187.0000	82.00000	-.43674	.662306	-.43674
V26	178.0000	200.0000	87.00000	-.19410	.846095	-.19410
V31	199.0000	179.0000	74.00000	-.82494	.409409	-.82494
V36	218.0000	160.0000	55.00000	-1.74694	.080657	-1.74694
V41	204.0000	174.0000	69.00000	-1.06758	.285720	-1.06758

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V12
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V5	.884255	13	14
V10	1.000000	13	14
V11	.082362	13	14
V14	.287793	13	14
V16	.046513	13	14
V21	.662306	13	14
V26	.846095	13	14
V31	.409409	13	14
V36	.080657	13	14
V41	.285720	13	14

Variable dépendante
MODE DE PAIEMENT

Groupe 1 : OPE
Groupe 2 : OPA

ANNEXE n° 27

LES MOTIVATIONS GENERALES 1987-1990

ANALYSE UNIVARIEE STATIQUE

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	147.0000	204.0000	56.00000	-1.46154	.1438776	-1.46154
V2	146.0000	205.0000	55.00000	-1.51282	.1303352	-1.51282
V3	160.0000	191.0000	69.00000	-.79487	.4266940	-.79487
V4	212.0000	139.0000	48.00000	-1.87179	.0612441	-1.87179
V5	176.0000	175.0000	84.00000	-.02564	.9795438	-.02564
V6	174.0000	177.0000	83.00000	-.07692	.9386852	-.07698
V7	190.0000	161.0000	70.00000	-.74359	.4571302	-.74359
V8	180.0000	171.0000	80.00000	-.23077	.8174956	-.23077
V9	177.0000	174.0000	83.00000	-.07692	.9386852	-.07692

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.1438776	13	13
V2	.1303352	13	13
V3	.4266940	13	13
V4	.0612441	13	13
V5	.9795438	13	13
V6	.9386433	13	13
V7	.4571302	13	13
V8	.8174956	13	13
V9	.9386852	13	13

ANNEXE n° 28

LES MOTIVATIONS GENERALES 1987-1990

ANALYSE MULTIVARIEE STATIQUE

MULTINOMIAL LOGIT ANALYSIS
****

Modèle n° 1

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 26

NUMBER OF CHOICES IN EACH CATEGORY

1	13
2	13

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	0.7824E-01	.1547
3	V2	0.6667E-01	.1094
4	V3	.3119	.3586
5	V5	0.8215E-01	0.7928E-01
6	V6	.2690	.3132
7	V8	.2498	.2347
8	V9	1.282	1.208

LOG LIKELIHOOD AT ITERATION 1 IS -18.0218
LOG LIKELIHOOD AT ITERATION 2 IS -12.4933
LOG LIKELIHOOD AT ITERATION 3 IS -10.8982
LOG LIKELIHOOD AT ITERATION 4 IS -10.1218
LOG LIKELIHOOD AT ITERATION 5 IS -9.84179
LOG LIKELIHOOD AT ITERATION 6 IS -9.79273
LOG LIKELIHOOD AT ITERATION 7 IS -9.79128
LOG LIKELIHOOD AT ITERATION 8 IS -9.79128
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -9.79128

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-16.3170	9.93021	-1.6432
2	V1	29.0573	18.2710	1.5904
3	V2	-195.975	108.780	-1.8016
4	V3	30.0990	16.9709	1.7736
5	V5	8.21724	8.57110	.95871
6	V6	-7.21762	5.17480	-1.3948
7	V8	37.9070	21.6907	1.7476
8	V9	10.0808	6.10849	1.6503

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 16.4611
WITH 7 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.550543
2	.500000	.449457

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-4.038	4.038
2	V1	7.190	-7.190
3	V2	-48.49	48.49
4	V3	7.448	-7.448
5	V5	2.033	-2.033
6	V6	-1.786	1.786
7	V8	9.380	-9.380
8	V9	2.494	-2.494

MULTINOMIAL LOGIT ANALYSIS
****

Modèle n°2

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 26

NUMBER OF CHOICES IN EACH CATEGORY

1	13
2	13

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V2	0.6667E-01	.1094
3	V3	.3119	.3586
4	V8	.2498	.2347
5	V9	1.282	1.208

LOG LIKELIHOOD AT ITERATION 1 IS -18.0218
LOG LIKELIHOOD AT ITERATION 2 IS -13.6851
LOG LIKELIHOOD AT ITERATION 3 IS -13.0747
LOG LIKELIHOOD AT ITERATION 4 IS -13.0225
LOG LIKELIHOOD AT ITERATION 5 IS -13.0219
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -13.0219

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-4.85531	2.81683	-1.7237
2	V2	-50.5650	22.5974	-2.2376
3	V3	9.44006	5.53531	1.7054
4	V8	12.4141	7.06705	1.7566
5	V9	2.48437	1.36752	1.8167

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 9.99991
WITH 4 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.489670
2	.500000	.510330

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-1.213	1.213
2	V2	-12.64	12.64
3	V3	2.359	-2.359
4	V8	3.102	-3.102
5	V9	.6208	-.6208

ANNEXE n° 29

LES MOTIVATIONS GENERALES 1987-1990

ANALYSE STATIQUE UNIVARIEE AVEC LES INDICATEURS DE SECOND ORDRE

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V14
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	71.00000	20.00000	14.00000	-.16903	.865773	-.16903	.865773	10	3
V2	70.00000	21.00000	15.00000	.00000	1.000000	.00000	1.000000	10	3
V3	68.00000	23.00000	13.00000	-.33806	.735319	-.33806	.735319	10	3
V4	69.00000	22.00000	14.00000	-.16903	.865773	-.16903	.865773	10	3
V5	60.00000	31.00000	5.00000	-1.69031	.090979	-1.69031	.090979	10	3
V6	72.00000	19.00000	13.00000	-.33806	.735319	-.33853	.734968	10	3
V7	62.00000	29.00000	7.00000	-1.35225	.176306	-1.35225	.176306	10	3
V8	80.00000	11.00000	5.00000	-1.69031	.090979	-1.69031	.090979	10	3
V9	59.00000	32.00000	4.00000	-1.85934	.062988	-1.85934	.062988	10	3
V10	72.00000	19.00000	13.00000	-.33806	.735319	-.33806	.735319	10	3
V11	68.00000	23.00000	13.00000	-.33806	.735319	-.33806	.735319	10	3
V12	78.50000	12.50000	6.50000	-1.43676	.150795	-1.96299	.049656	10	3
V13	69.00000	22.00000	14.00000	-.16903	.865773	-.20000	.841482	10	3
V15	80.50000	10.50000	4.50000	-1.77482	.075936	-1.86684	.061933	10	3
V16	68.00000	23.00000	13.00000	-.33806	.735319	-.33806	.735319	10	3

Variable dépendante

Nombre d'initiateur

Groupe 1 : = 1

Groupe 2 : > 1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V13
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	28.00000	63.00000	13.00000	-1.02470	.3055149	-1.02470	.3055149	5	8
V2	49.00000	42.00000	6.00000	-2.04939	.0404321	-2.04939	.0404321	5	8
V3	48.00000	43.00000	7.00000	-1.90301	.0570488	-1.90301	.0570488	5	8
V4	25.00000	66.00000	10.00000	-1.46385	.1432448	-1.46385	.1432448	5	8
V5	43.00000	48.00000	12.00000	-1.17108	.2415754	-1.17108	.2415753	5	8
V6	30.50000	60.50000	15.50000	-.65873	.5100723	-.65964	.5094901	5	8
V7	33.00000	58.00000	18.00000	-.29277	.7696999	-.29277	.7696998	5	8
V8	24.00000	67.00000	9.00000	-1.61024	.1073565	-1.61024	.1073565	5	8
V9	37.00000	54.00000	18.00000	-.29277	.7696999	-.29277	.7696998	5	8
V10	34.00000	57.00000	19.00000	-.14638	.8836184	-.14639	.8836184	5	8
V11	43.00000	48.00000	12.00000	-1.17108	.2415754	-1.17108	.2415753	5	8
V12	36.00000	55.00000	19.00000	-.14638	.8836184	-.20000	.8414819	5	8
V14	34.00000	57.00000	19.00000	-.14638	.8836184	-.20000	.8414819	5	8
V15	37.00000	54.00000	18.00000	-.29277	.7696999	-.30795	.7581229	5	8
V16	26.00000	65.00000	11.00000	-1.31747	.1876922	-1.31747	.1876922	5	8

Variable dépendante

Mode de paiement

Groupe 1 : OPE

Groupe 2 : OPA

ANNEXE n° 30

LES MOTIVATIONS GENERALES 1987-1990

ANALYSE UNIVARIEE DYNAMIQUE

ANALYSE UNIVARIEE

N-3 / N - 1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	165.0000	186.0000	74.00000	-.53846	.5902622	-.53846
V2	173.0000	178.0000	82.00000	-.12821	.8979874	-.12821
V3	173.0000	178.0000	82.00000	-.12821	.8979874	-.12821
V4	204.0000	147.0000	56.00000	-1.46154	.1438776	-1.46154
V5	178.0000	173.0000	82.00000	-.12821	.8979874	-.12821
V6	160.0000	191.0000	69.00000	-.79487	.4266940	-.79487
V7	171.0000	180.0000	80.00000	-.23077	.8174956	-.23097
V8	179.0000	172.0000	81.00000	-.17949	.8575563	-.17949
V9	129.0000	222.0000	38.00000	-2.38462	.0171028	-2.38462
V10	205.0000	146.0000	55.00000	-1.51282	.1303352	-1.51282
V11	185.0000	166.0000	75.00000	-.48718	.6261345	-.48718
V12	156.0000	195.0000	65.00000	-1.00000	.3173181	-1.00000

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.5902622	13	13
V2	.8979874	13	13
V3	.8979874	13	13
V4	.1438776	13	13
V5	.8979874	13	13
V6	.4266940	13	13
V7	.8173422	13	13
V8	.8575563	13	13
V9	.0171028	13	13
V10	.1303352	13	13
V11	.6261345	13	13
V12	.3173181	13	13

ANALYSE UNIVARIEE

N-2 / N-1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	159.0000	192.0000	68.00000	-.84615	.3974732	-.84615
V2	167.0000	184.0000	76.00000	-.43590	.6629141	-.43590
V3	187.0000	164.0000	73.00000	-.58974	.5553668	-.58974
V4	208.0000	143.0000	52.00000	-1.66667	.0955905	-1.66667
V5	174.0000	177.0000	83.00000	-.07692	.9386852	-.07692
V6	168.0000	183.0000	77.00000	-.38462	.7005250	-.38462
V7	174.5000	176.5000	83.50000	-.05128	.9591011	-.05133
V8	174.0000	177.0000	83.00000	-.07692	.9386852	-.07692
V9	153.0000	198.0000	62.00000	-1.15385	.2485719	-1.15385
V10	202.0000	149.0000	58.00000	-1.35897	.1741643	-1.35897
V11	188.0000	163.0000	72.00000	-.64103	.5215106	-.64103
V12	163.0000	188.0000	72.00000	-.64103	.5215106	-.64103

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.3974732	13	13
V2	.6629141	13	13
V3	.5553668	13	13
V4	.0955905	13	13
V5	.9386852	13	13
V6	.7005250	13	13
V7	.9590661	13	13
V8	.9386852	13	13
V9	.2485719	13	13
V10	.1741643	13	13
V11	.5215106	13	13
V12	.5215106	13	13

ANNEXE n° 31

LES MOTIVATIONS GENERALES 1987-1990

ANALYSE MULTIVARIEE DYNAMIQUE

MULTINOMIAL LOGIT ANALYSIS
****

DEPENDENT VARIABLE: A

Modèle 1
(N-3 / N-1)

NUMBER OF RECORDS PROCESSED: 26

NUMBER OF CHOICES IN EACH CATEGORY

1	13
2	13

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V4	0.7903E-01	-.4088E-01
3	V9	-.9358E-01	0.1136E-01
4	V10	0.4726E-01	0.2900E-01

LOG LIKELIHOOD AT ITERATION 1 IS -18.0218
LOG LIKELIHOOD AT ITERATION 2 IS -13.7298
LOG LIKELIHOOD AT ITERATION 3 IS -11.9931
LOG LIKELIHOOD AT ITERATION 4 IS -11.0156
LOG LIKELIHOOD AT ITERATION 5 IS -10.8682
LOG LIKELIHOOD AT ITERATION 6 IS -10.8637
LOG LIKELIHOOD AT ITERATION 7 IS -10.8637
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -10.8637

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-2.02417	1.20351	-1.6819
2	V4	20.2020	9.73106	2.0760
3	V9	-12.3361	5.13894	-2.4005
4	V10	55.5489	32.0946	1.7308

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 14.3163
WITH 3 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.728403
2	.500000	.271597

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-.4004	.4004
2	V4	3.997	-3.997
3	V9	-2.440	2.440
4	V10	10.99	-10.99

MULTINOMIAL LOGIT ANALYSIS
****

Modèle 1
(N-2 / N-1)

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 26

NUMBER OF CHOICES IN EACH CATEGORY

1	13
2	13

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	-.3867	.3483
3	V3	-.3279E-01	-.7762E-02
4	V4	0.5902E-01	-.3258E-01
5	V6	.1189	.2723
6	V8	.1514	.2033
7	V10	0.2308E-01	0.2144E-01
8	V11	.1405	0.4274E-01
9	V12	-.4689E-01	0.1250E-02

LOG LIKELIHOOD AT ITERATION 1 IS -18.0218
LOG LIKELIHOOD AT ITERATION 2 IS -11.0388
LOG LIKELIHOOD AT ITERATION 3 IS -10.2419
LOG LIKELIHOOD AT ITERATION 4 IS -10.1395
LOG LIKELIHOOD AT ITERATION 5 IS -10.1363
LOG LIKELIHOOD AT ITERATION 6 IS -10.1363
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -10.1363

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-0.997168E-01	.855311	-.11659
2	V1	-.701268	.517703	-1.3546
3	V3	37.2234	20.3855	1.8260
4	V4	28.7286	12.1830	2.3581
5	V6	-2.03698	1.84167	-1.1060
6	V8	-14.3676	7.88333	-1.8225
7	V10	178.918	93.3528	1.9166
8	V11	-5.97866	5.64975	-1.0582
9	V12	-7.67774	6.23675	-1.2310

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 15.7710
WITH 8 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.550293
2	.500000	.449707

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-.2468E-01	0.2468E-01
2	V1	-.1735	.1735
3	V3	9.212	-9.212
4	V4	7.109	-7.109
5	V6	-.5041	.5041
6	V8	-3.556	3.556
7	V10	44.28	-44.28
8	V11	-1.480	1.480
9	V12	-1.900	1.900

MULTINOMIAL LOGIT ANALYSIS
****

DEPENDENT VARIABLE: A

Modèle 2
(N-2 / N-1)

NUMBER OF RECORDS PROCESSED: 26

NUMBER OF CHOICES IN EACH CATEGORY

1	13
2	13

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V4	0.5902E-01	-.3258E-01
3	V9	-.5785E-01	-.9656E-02
4	V3	-.3279E-01	-.7762E-02

LOG LIKELIHOOD AT ITERATION 1 IS -18.0218
LOG LIKELIHOOD AT ITERATION 2 IS -13.7867
LOG LIKELIHOOD AT ITERATION 3 IS -13.1459
LOG LIKELIHOOD AT ITERATION 4 IS -13.0436
LOG LIKELIHOOD AT ITERATION 5 IS -13.0415
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -13.0415

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-.141621	.486967	-.29082
2	V4	22.8800	10.4113	2.1976
3	V9	-8.56061	4.81683	-1.7772
4	V3	13.0874	9.47514	1.3812

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 9.96063
WITH 3 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.545976
2	.500000	.454024

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-.3511E-01	0.3511E-01
2	V4	5.672	-5.672
3	V9	-2.122	2.122
4	V3	3.244	-3.244

ANNEXE n° 32

LES MOTIVATIONS SPECIFIQUES 1970-1985

LES RESULTATS STATISTIQUES DE L'A.C.P.

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS : TRACE AVANT DIAGONALISATION 7.0000
SOMME DES VALEURS PROPRES 7.0000

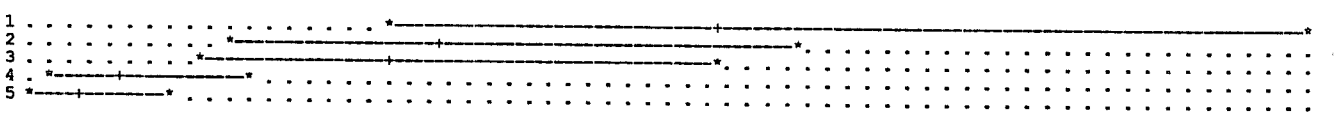
HISTOGRAMME DES 7 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	2.7077	38.68	38.68	**********
2	1.7020	24.31	62.99	**********
3	1.5287	21.84	84.83	**********
4	0.5832	8.33	93.16	**********
5	0.4282	6.12	99.28	**********
6	0.0293	0.42	99.70	*
7	0.0210	0.30	100.00	*

INTERVALLES LAPLACIENS D'ANDERSON AU SEUIL 0.95

NUMERO	BORNE INFERIEURE	VALEUR PROPRE	BORNE SUPERIEURE
1	1.5377	2.7077	4.7678
2	0.9666	1.7020	2.9969
3	0.8681	1.5287	2.6918
4	0.3312	0.5832	1.0270
5	0.2432	0.4282	0.7539

ETENDUE ET POSITION RELATIVE DES INTERVALLES



COORDONNEES DES VARIABLES SUR LES AXES 1 A 3

VARIABLES	COORDONNEES					CORRELATIONS VARIABLE-FACTEUR					ANCIENS AXES UNITAIRES				
IDEN - LIBELLE COURT	1	2	3	0	0	1	2	3	0	0	1	2	3	0	0
VARIABLES ACTIVES															
V001 - CA	-0.68	0.66	0.22	0.00	0.00	-0.68	0.66	0.22	0.00	0.00	-0.42	0.51	0.18	0.00	0.00
V002 - ACTIF	-0.68	0.72	-0.02	0.00	0.00	-0.68	0.72	-0.02	0.00	0.00	-0.41	0.55	-0.02	0.00	0.00
V009 - RN/CA	0.36	0.29	-0.77	0.00	0.00	0.36	0.29	-0.77	0.00	0.00	0.22	0.23	-0.62	0.00	0.00
V010 - CA/ACTIF	-0.17	-0.41	0.74	0.00	0.00	-0.17	-0.41	0.74	0.00	0.00	-0.10	-0.31	0.60	0.00	0.00
V011 - DLMT/ACT	0.68	0.50	0.39	0.00	0.00	0.68	0.50	0.39	0.00	0.00	0.42	0.39	0.32	0.00	0.00
V012 - DLMT/CP	0.72	0.48	0.43	0.00	0.00	0.72	0.48	0.43	0.00	0.00	0.44	0.37	0.35	0.00	0.00
V013 - RN/CP	0.80	0.09	-0.06	0.00	0.00	0.80	0.09	-0.06	0.00	0.00	0.49	0.07	-0.05	0.00	0.00
VARIABLES ILLUSTRATIVES															
V006 - %DETENU	-0.59	0.01	-0.29	0.00	0.00	-0.59	0.01	-0.29	0.00	0.00					
V008 - %OBTENU	0.27	-0.05	0.33	0.00	0.00	0.27	-0.05	0.33	0.00	0.00					

COORDOONNEES ET VALEURS-TEST DES MODALITES SUR LES AXES 1 A 3

MODALITES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFF.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
3 . NATURE													
AC01 - HOSTILE	3	3.00	0.62	0.10	-0.04	-0.60	0.00	0.00	0.1	-0.1	-0.9	0.0	0.0
AC02 - AMICALE	22	22.00	0.01	-0.01	0.01	0.08	0.00	0.00	-0.1	0.1	0.9	0.0	0.0
4 . PAIEMENT													
AD01 - OPE	12	12.00	0.34	0.55	0.03	-0.03	0.00	0.00	1.6	0.1	-0.1	0.0	0.0
AD02 - OPA	13	13.00	0.29	-0.51	-0.03	0.02	0.00	0.00	-1.6	-0.1	0.1	0.0	0.0
5 . CONCURRENCE													
AE01 - UNIQUE	23	23.00	0.03	-0.12	-0.08	0.05	0.00	0.00	-1.2	-1.1	0.7	0.0	0.0
AE02 - PLUSIEURS	2	2.00	3.39	1.38	0.98	-0.61	0.00	0.00	1.2	1.1	-0.7	0.0	0.0
7 . PARTICIPATION													
AG01 - <50%	10	10.00	1.39	-1.03	0.19	-0.49	0.00	0.00	-2.5	0.6	-1.6	0.0	0.0
AG02 - >50%	15	15.00	0.62	0.68	-0.13	0.33	0.00	0.00	2.5	-0.6	1.6	0.0	0.0

FIN DE LA PROCEDURE ** COPRI **
Analyse en composantes principales

ANNEXE n° 33

LES MOTIVATIONS SPECIFIQUES 1970-1985

LES RESULTATS STATISTIQUES DE LA C.A.H.

CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES NOEUDS

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
26	3	16	2	2.00	0.00102	*
27	22	1	2	2.00	0.00355	*
28	26	2	3	3.00	0.00403	*
29	9	12	2	2.00	0.00413	*
30	14	17	2	2.00	0.00741	*
31	15	7	2	2.00	0.00911	*
32	19	27	3	3.00	0.01117	*
33	21	29	3	3.00	0.01173	*
34	30	20	3	3.00	0.01711	*
35	25	5	2	2.00	0.01965	*
36	31	10	3	3.00	0.03252	**
37	13	24	2	2.00	0.03748	**
38	6	23	2	2.00	0.04936	**
39	4	33	4	4.00	0.06795	***
40	34	32	6	6.00	0.08171	****
41	28	36	6	6.00	0.08969	****
42	35	37	4	4.00	0.10869	*****
43	8	39	5	5.00	0.14403	******
44	41	40	12	12.00	0.25584	**********
45	38	44	14	14.00	0.30502	**********
46	43	18	6	6.00	0.31228	**********
47	46	42	10	10.00	0.85853	**********
48	47	45	24	24.00	1.49908	**********
49	11	48	25	25.00	2.00722	**********

SOMME DES INDICES DE NIVEAU = 5.93830

DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POUCENTAGE DE LA SOMME DES INDICES : 5.93830)

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
26	0.02	12	11	2	2.00	11	12
27	0.06	2	1	2	2.00	1	2
28	0.07	26	10	3	3.00	10	12
29	0.07	21	20	2	2.00	20	21
30	0.12	6	5	2	2.00	5	6
31	0.15	9	8	2	2.00	8	9
32	0.19	3	27	3	3.00	1	3
33	0.20	22	29	3	3.00	20	22
34	0.29	30	4	3	3.00	4	6
35	0.33	18	17	2	2.00	17	18
36	0.55	31	7	3	3.00	7	9
37	0.63	16	15	2	2.00	15	16
38	0.83	14	13	2	2.00	13	14
39	1.14	23	33	4	4.00	20	23
40	1.38	34	32	6	6.00	1	6
41	1.51	28	36	6	6.00	7	12
42	1.83	35	37	4	4.00	15	18
43	2.43	24	39	5	5.00	20	24
44	4.31	41	40	12	12.00	1	12
45	5.14	38	44	14	14.00	1	14
46	5.26	43	19	6	6.00	19	24
47	14.46	46	42	10	10.00	15	24
48	25.24	47	45	24	24.00	1	24
49	33.80	25	48	25	25.00	1	25

```
RANG  IND. IDEN  DENDROGRAMME (INDICES EN POURCENTAGE DE LA SOMME DES INDICES :   5.93830   MIN =  0.02% / MAX = 33.80%)

   1  0.06 SATE  --+
   2  0.19 SCRE  --*
   3  1.38 MINE  --*---+
   4  0.29 MERL  --+   !
   5  0.12 ARJO  --*   !
   6  4.31 CEDI  --*---*--------+
   7  0.55 COMP  ---+           !
   8  0.15 AMID  --+!           !
   9  1.51 COMX  --**--+        !
  10  0.07 PANT  --+   !        !
  11  0.02 FOND  --*   !        !
  12  5.14 ALLO  --*---*--------*--+
  13  0.83 CGEE  ----+             !
  14 25.24 HAVA  ----*-------------*-------------------------------------------------------------+
  15  0.63 PAMX  ---+                                                                            !
  16  1.83 THOM  ---*---+                                                                        !
  17  0.33 PRIN  ---+   !                                                                        !
  18 14.46 NICK  ---*---*-----------------------------------------+                              !
  19  5.26 JACQ  -------------------+                             !                              !
  20  0.07 SEVM  --+                !                             !                              !
  21  0.20 LUCH  --*                !                             !                              !
  22  1.14 FOUG  --*--+             !                             !                              !
  23  2.43 DOCK  -----*---+         !                             !                              !
  24 33.80 PORT  ---------*---------*-----------------------------*-----------------------------*-----------------------+
  25 ----- RAFF  ------------------------------------------------------------------------------------------------------*
```

FIN DE LA PROCEDURE ** RECIP **
Arbre hiérarchique

---------- SPAD.N - MODIFICATION DE PARAMETRES ----------

NGRO='Macintosh HD:SPADN:anain70.NGRO.test'

ANNEXE n° 34

LES MOTIVATIONS SPECIFIQUES 1970-1985

LA PARTITION EN 4 CLASSES

COUPURE 'b' DE L'ARBRE EN 4 CLASSES

DESCRIPTION SOMMAIRE

CLASSE	EFFECTIF	POIDS	CONTENU
bb1b	14	14.00	1 A 14
bb2b	4	4.00	15 A 18
bb3b	6	6.00	19 A 24
bb4b	1	1.00	25 A 25

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 3

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
COUPURE 'b' DE L'ARBRE EN 4 CLASSES													
bb1b - CLASSE 1 / 4	14	14.00	1.06	-0.52	-0.86	0.24	0.00	0.00	-1.74	-3.63	1.09	0.00	0.00
bb2b - CLASSE 2 / 4	4	4.00	4.51	0.24	0.78	-1.96	0.00	0.00	0.31	1.28	-3.39	0.00	0.00
bb3b - CLASSE 3 / 4	6	6.00	4.68	1.95	0.79	0.49	0.00	0.00	3.26	1.68	1.10	0.00	0.00
bb4b - CLASSE 4 / 4	1	1.00	48.17	-5.42	4.09	1.46	0.00	0.00	-3.29	3.13	1.18	0.00	0.00

CONSOLIDATION DE LA PARTITION AUTOUR DES 4 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	5.938298	4.364835	0.7350
1	5.938298	4.401091	0.7411
2	5.938298	4.401091	0.7411
3	5.938298	4.401091	0.7411

ARRET APRES L'ITERATION 3 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE 0.000 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 3 AXES

	INERTIES		EFFECTIFS		POIDS		DISTANCES	
	AVANT	APRES	AVANT	APRES	AVANT	APRES	AVANT	APRES
INERTIE INTER-CLASSES	4.3648	4.4011						
INERTIES INTRA-CLASSE								
CLASSE 1 / 4	0.8675	0.7571	14	13	14.00	13.00	1.0601	1.3059
CLASSE 2 / 4	0.1658	0.1658	4	4	4.00	4.00	4.5127	4.5127
CLASSE 3 / 4	0.5401	0.6143	6	7	6.00	7.00	4.6759	3.8323
CLASSE 4 / 4	0.0000	0.0000	1	1	1.00	1.00	48.1733	48.1733
INERTIE TOTALE	5.9383	5.9383						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... 0.7350
APRES ... 0.7411

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 3

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
COUPURE 'b' DE L'ARBRE EN 4 CLASSES													
bb1b - CLASSE 1 / 4	13	13.00	1.31	-0.60	-0.95	0.23	0.00	0.00	-1.86	-3.69	0.94	0.00	0.00
bb2b - CLASSE 2 / 4	4	4.00	4.51	0.24	0.78	-1.96	0.00	0.00	0.31	1.28	-3.39	0.00	0.00
bb3b - CLASSE 3 / 4	7	7.00	3.83	1.75	0.72	0.49	0.00	0.00	3.25	1.70	1.21	0.00	0.00
bb4b - CLASSE 4 / 4	1	1.00	48.17	-5.42	4.09	1.46	0.00	0.00	-3.29	3.13	1.18	0.00	0.00

COMPOSITION DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

----- CLASSE 1 / 4 -----

NICK PANT ALLO HAVA AMID COMP CEDI COMX FOND ARJO MINE SCRE CGEE

----- CLASSE 2 / 4 -----

PRIN THOM PAMX NICK

----- CLASSE 3 / 4 -----

DOCK PORT LUCH SEVM JACQ MERL FOUG

----- CLASSE 4 / 4 -----

RAFF

POINTS LES PLUS PROCHES DU CENTRE DE GRAVITE

CLASSE 1/ 4 (EFFECTIF 13)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.27992	FOND	2	0.37352	SATE	3	0.53646	ALLO
4	0.62943	MINE	5	0.66353	PANT			

CLASSE 2/ 4 (EFFECTIF 4)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.43363	PRIN	2	1.1189	THOM	3	1.1767	PAMX
4	1.4164	NICK						

CLASSE 3/ 4 (EFFECTIF 7)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.33123	DOCK	2	0.66613	SEVM	3	0.95539	LUCH
4	1.4547	FOUG	5	1.5902	MERL			

CLASSE 4/ 4 (EFFECTIF 1)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.00000	RAFF						

DESCRIPTION DE LA COUPURE 'b' DE L'ARBRE EN 4 CLASSES

- CARACTERISATION DES CLASSES PAR LES MODALITES
- CARACTERISATION DES CLASSES PAR LES CONTINUES

CARACTERISATION PAR LES CONTINUES
DES CLASSES OU MODALITES DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

NUM.	LIBELLE	IDEN	MOYENNES CLASSE	MOYENNES GENERALE	ECARTS TYPES CLASSE	ECARTS TYPES GENERAL	V.TEST	PROBA
	CLASSE 1 / 4	bb1b		(POIDS =	13.00	EFFECTIF =	13)	
10.	CA/ACTIF	V010	2.028	1.621	0.943	0.883	2.35	0.009
11.	DIMT/ACT	V011	0.103	0.153	0.052	0.103	-2.49	0.006
9.	RN/CA	V009	0.011	0.021	0.005	0.021	-2.53	0.006
12.	DIMT/CP	V012	0.362	0.558	0.190	0.360	-2.78	0.003
	CLASSE 2 / 4	bb2b		(POIDS =	4.00	EFFECTIF =	4)	
9.	RN/CA	V009	0.060	0.021	0.021	0.021	3.94	0.000
	CLASSE 3 / 4	bb3b		(POIDS =	7.00	EFFECTIF =	7)	
12.	DIMT/CP	V012	1.049	0.558	0.231	0.360	4.17	0.000
11.	DIMT/ACT	V011	0.254	0.153	0.130	0.103	3.00	0.001
13.	RN/CP	V013	0.117	0.080	0.033	0.040	2.83	0.002

ANNEXE n° 35

LES MOTIVATIONS SPECIFIQUES 1987-1990

LES RESULTATS STATISTIQUES DE L'A.C.P.

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS :
TRACE AVANT DIAGONALISATION 11.0000
SOMME DES VALEURS PROPRES 11.0000

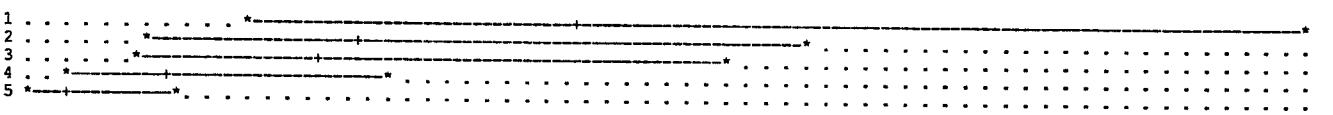
HISTOGRAMME DES 11 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	3.9361	35.78	35.78	**********
2	2.4542	22.31	58.09	**********
3	2.2174	20.16	78.25	**********
4	1.2134	11.03	89.28	**********
5	0.5792	5.27	94.55	**********
6	0.2138	1.94	96.49	*****
7	0.1807	1.64	98.13	****
8	0.1102	1.00	99.14	***
9	0.0741	0.67	99.81	**
10	0.0140	0.13	99.94	*
11	0.0068	0.06	100.00	*

INTERVALLES LAPLACIENS D'ANDERSON AU SEUIL 0.95

NUMERO	BORNE INFERIEURE	VALEUR PROPRE	BORNE SUPERIEURE
1	1.7683	3.9361	8.7615
2	1.1025	2.4542	5.4627
3	0.9962	2.2174	4.9358
4	0.5451	1.2134	2.7009
5	0.2602	0.5792	1.2893

ETENDUE ET POSITION RELATIVE DES INTERVALLES



COORDONNEES DES VARIABLES SUR LES AXES 1 A 3

VARIABLES	COORDONNEES					CORRELATIONS VARIABLE-FACTEUR					ANCIENS AXES UNITAIRES				
IDEN - LIBELLE COURT	1	2	3	0	0	1	2	3	0	0	1	2	3	0	0
VARIABLES ACTIVES															
V001 - RN/CP	0.65	0.24	0.48	0.00	0.00	0.65	0.24	0.48	0.00	0.00	0.33	0.16	0.32	0.00	0.00
V002 - EBE/CA	0.79	-0.48	0.24	0.00	0.00	0.79	-0.48	0.24	0.00	0.00	0.40	-0.31	0.16	0.00	0.00
V003 - VA/CA	0.60	-0.51	0.27	0.00	0.00	0.60	-0.51	0.27	0.00	0.00	0.30	-0.32	0.18	0.00	0.00
V004 - CPER/VA	-0.70	0.32	-0.15	0.00	0.00	-0.70	0.32	-0.15	0.00	0.00	-0.35	0.21	-0.10	0.00	0.00
V005 - BFR/CA	0.04	-0.76	-0.55	0.00	0.00	0.04	-0.76	-0.55	0.00	0.00	0.02	-0.49	-0.37	0.00	0.00
V006 - DIV/RN	0.53	0.52	0.20	0.00	0.00	0.53	0.52	0.20	0.00	0.00	0.27	0.33	0.13	0.00	0.00
V007 - CA	0.27	0.52	-0.75	0.00	0.00	0.27	0.52	-0.75	0.00	0.00	0.14	0.33	-0.50	0.00	0.00
V008 - CA/ACTIF	-0.52	0.58	0.50	0.00	0.00	-0.52	0.58	0.50	0.00	0.00	-0.26	0.37	0.33	0.00	0.00
V009 - ACTIF	0.45	0.27	-0.83	0.00	0.00	0.45	0.27	-0.83	0.00	0.00	0.23	0.17	-0.56	0.00	0.00
V010 - DET/ACTIF	-0.84	-0.46	0.02	0.00	0.00	-0.84	-0.46	0.02	0.00	0.00	-0.42	-0.29	0.01	0.00	0.00
V011 - CP/DETTES	0.72	0.23	0.00	0.00	0.00	0.72	0.23	0.00	0.00	0.00	0.36	0.15	0.00	0.00	0.00
VARIABLES ILLUSTRATIVES															
V015 - %DETENU	-0.13	0.38	-0.28	0.00	0.00	-0.13	0.38	-0.28	0.00	0.00					
V016 - %OBTENU	0.02	0.11	0.21	0.00	0.00	0.02	0.11	0.21	0.00	0.00					

COORDOONNEES ET VALEURS-TEST DES MODALITES SUR LES AXES 1 A 3

MODALITES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFF.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
12 . NATURE													
AL01 - HOSTILE	3	3.00	2.87	1.02	-0.70	0.14	0.00	0.00	1.0	-0.8	0.2	0.0	0.0
AL02 - AMICALE	10	10.00	0.26	-0.30	0.21	-0.04	0.00	0.00	-1.0	0.8	-0.2	0.0	0.0
13 . PAIEMENT													
AM01 - OPE	5	5.00	1.94	0.74	-1.09	-0.27	0.00	0.00	1.0	-1.9	-0.5	0.0	0.0
AM02 - OPA	8	8.00	0.76	-0.46	0.68	0.17	0.00	0.00	-1.0	1.9	0.5	0.0	0.0
14 . CONCURRENCE													
AN01 - UNIQUE	10	10.00	0.22	-0.17	0.13	0.37	0.00	0.00	-0.5	0.5	1.6	0.0	0.0
AN02 - PLUSIEURS	3	3.00	2.44	0.56	-0.43	-1.22	0.00	0.00	0.5	-0.5	-1.6	0.0	0.0
17 . PARTICIPATION													
AQ01 - <50%	10	10.00	0.16	0.25	-0.11	0.13	0.00	0.00	0.8	-0.5	0.6	0.0	0.0
AQ02 - >50%	3	3.00	1.75	-0.83	0.37	-0.43	0.00	0.00	-0.8	0.5	-0.6	0.0	0.0

FIN DE LA PROCEDURE ** COPRI **
Analyse en composantes principales

ANNEXE n° 36

LES MOTIVATIONS SPECIFIQUES 1987-1990

LES RESULTATS STATISTIQUES DE LA C.A.H.

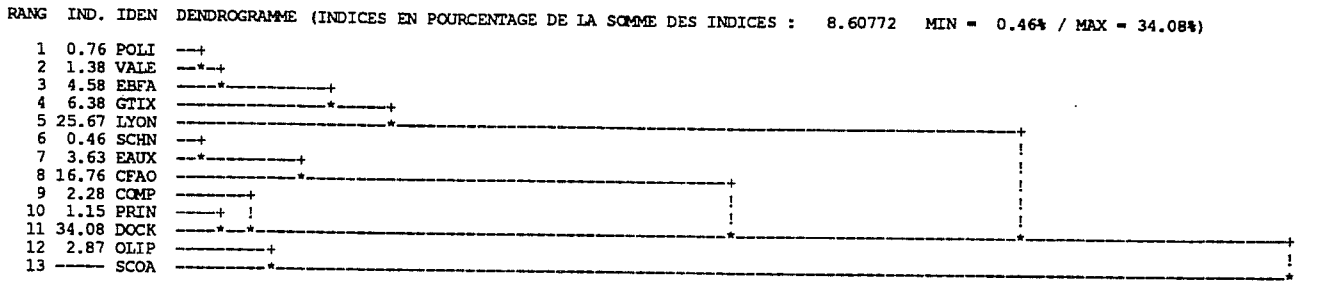
CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES NOEUDS

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
14	12	5	2	2.00	0.03991	**
15	7	1	2	2.00	0.06509	**
16	2	6	2	2.00	0.09869	***
17	13	15	3	3.00	0.11863	****
18	16	3	3	3.00	0.19652	******
19	10	8	2	2.00	0.24738	*******
20	4	14	3	3.00	0.31244	*********
21	11	17	4	4.00	0.39463	**********
22	9	21	5	5.00	0.54952	***************
23	18	20	6	6.00	1.44256	**
24	23	22	11	11.00	2.20924	***
25	19	24	13	13.00	2.93312	**

SOMME DES INDICES DE NIVEAU = 8.60772

DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : 8.60772)

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
14	0.46	7	6	2	2.00	6	7
15	0.76	2	1	2	2.00	1	2
16	1.15	11	10	2	2.00	10	11
17	1.38	3	15	3	3.00	1	3
18	2.28	16	9	3	3.00	9	11
19	2.87	13	12	2	2.00	12	13
20	3.63	8	14	3	3.00	6	8
21	4.58	4	17	4	4.00	1	4
22	6.38	5	21	5	5.00	1	5
23	16.76	18	20	6	6.00	6	11
24	25.67	23	22	11	11.00	1	11
25	34.08	19	24	13	13.00	1	13



FIN DE LA PROCEDURE ** RECIP **
Arbre hiérarchique

---------- SPAD.N - MODIFICATION DE PARAMETRES ----------

NGRO='Macintosh HD:SPADN:anain70.NGRO.test'

ANNEXE n° 37

LES MOTIVATIONS SPECIFIQUES 1987-1990

LA PARTITION EN 4 CLASSES

COUPURE 'b' DE L'ARBRE EN 4 CLASSES

DESCRIPTION SOMMAIRE

CLASSE	EFFECTIF	POIDS	CONTENU
bb1b	5	5.00	1 A 5
bb2b	3	3.00	6 A 8
bb3b	3	3.00	9 A 11
bb4b	2	2.00	12 A 13

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 3

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
COUPURE 'b' DE L'ARBRE EN 4 CLASSES													
bb1b - CLASSE 1 / 4	5	5.00	4.03	1.42	-1.17	0.81	0.00	0.00	1.95	-2.05	1.48	0.00	0.00
bb2b - CLASSE 2 / 4	3	3.00	4.71	0.63	0.65	-1.97	0.00	0.00	0.60	0.79	-2.51	0.00	0.00
bb3b - CLASSE 3 / 4	3	3.00	6.36	-0.52	2.28	0.95	0.00	0.00	-0.50	2.76	1.21	0.00	0.00
bb4b - CLASSE 4 / 4	2	2.00	16.13	-3.71	-1.46	-0.49	0.00	0.00	-2.76	-1.38	-0.49	0.00	0.00

CONSOLIDATION DE LA PARTITION AUTOUR DES 4 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	8.607720	6.584915	0.7650
1	8.607720	6.584915	0.7650
2	8.607720	6.584915	0.7650

ARRET APRES L'ITERATION 2 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE 0.000 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 3 AXES

	INERTIES		EFFECTIFS		POIDS		DISTANCES	
	AVANT	APRES	AVANT	APRES	AVANT	APRES	AVANT	APRES
INERTIE INTER-CLASSES	6.5849	6.5849						
INERTIES INTRA-CLASSE								
CLASSE 1 / 4	1.1279	1.1279	5	5	5.00	5.00	4.0281	4.0281
CLASSE 2 / 4	0.3524	0.3524	3	3	3.00	3.00	4.7067	4.7067
CLASSE 3 / 4	0.2952	0.2952	3	3	3.00	3.00	6.3596	6.3596
CLASSE 4 / 4	0.2474	0.2474	2	2	2.00	2.00	16.1322	16.1322
INERTIE TOTALE	8.6077	8.6077						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... 0.7650
APRES ... 0.7650

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 3

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
COUPURE 'b' DE L'ARBRE EN 4 CLASSES													
bb1b - CLASSE 1 / 4	5	5.00	4.03	1.42	-1.17	0.81	0.00	0.00	1.95	-2.05	1.48	0.00	0.00
bb2b - CLASSE 2 / 4	3	3.00	4.71	0.63	0.65	-1.97	0.00	0.00	0.60	0.79	-2.51	0.00	0.00
bb3b - CLASSE 3 / 4	3	3.00	6.36	-0.52	2.28	0.95	0.00	0.00	-0.50	2.76	1.21	0.00	0.00
bb4b - CLASSE 4 / 4	2	2.00	16.13	-3.71	-1.46	-0.49	0.00	0.00	-2.76	-1.38	-0.49	0.00	0.00

COMPOSITION DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

----- CLASSE 1 / 4 -----

EBFA VALE LYON GTIX EBFA

----- CLASSE 2 / 4 -----

CFAO SCHN EAUX

----- CLASSE 3 / 4 -----

DOCK COMP PRIN

----- CLASSE 4 / 4 -----

OLIP SCOA

POINTS LES PLUS PROCHES DU CENTRE DE GRAVITE

CLASSE 1/ 4 (EFFECTIF 5)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.12550	POLI	2	1.3202	EBFA	3	1.9418	VALE
4	5.5597	GTIX	5	5.7150	LYON			

CLASSE 2/ 4 (EFFECTIF 3)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.53476	SCHN	2	1.3380	EAUX	3	2.7078	CFAO

CLASSE 3/ 4 (EFFECTIF 3)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.67656	PRIN	2	1.4580	DOCK	3	1.7032	COMP

CLASSE 4/ 4 (EFFECTIF 2)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	1.6079	OLIP	2	1.6079	SCOA			

```
+-----------------------------------------------------------------------+
!                                                                       !
!        DESCRIPTION DE LA COUPURE 'b' DE L'ARBRE EN  4 CLASSES         !
!                                                                       !
!   - CARACTERISATION DES CLASSES PAR LES MODALITES                     !
!   - CARACTERISATION DES CLASSES PAR LES CONTINUES                     !
!                                                                       !
+-----------------------------------------------------------------------+
```

CARACTERISATION PAR LES CONTINUES
DES CLASSES OU MODALITES DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

NUM.	LIBELLE	IDEN	MOYENNES CLASSE	MOYENNES GENERALE	ECARTS TYPES CLASSE	ECARTS TYPES GENERAL	V.TEST	PROBA
	CLASSE 1 / 4	bb1b	(POIDS =	5.00	EFFECTIF =	5)		
2.	EBE/CA	V002	0.116	0.066	0.019	0.044	3.12	0.001
3.	VA/CA	V003	0.466	0.312	0.124	0.166	2.55	0.005
	CLASSE 2 / 4	bb2b	(POIDS =	3.00	EFFECTIF =	3)		
7.	CA	V007	33579.762	16660.273	10502.812	11913.831	2.69	0.004
9.	ACTIF	V009	4.510	3.941	0.221	0.450	2.40	0.008
	CLASSE 3 / 4	bb3b	(POIDS =	3.00	EFFECTIF =	3)		
8.	CA/ACTIF	V008	2.440	1.554	0.531	0.649	2.59	0.005
5.	BFR/CA	V005	-0.070	0.081	0.008	0.095	-3.00	0.001
	CLASSE 4 / 4	bb4b	(POIDS =	2.00	EFFECTIF =	2)		
10.	DET/ACTIF	V010	0.525	0.250	0.015	0.135	3.00	0.001
6.	DIV/RN	V006	0.000	0.269	0.000	0.160	-2.49	0.006
1.	RN/CP	V001	-0.175	0.078	0.085	0.126	-2.95	0.002

ANNEXE n° 38

LES RAISONS GENERALES 1970-1985

RESULTATS STATISTIQUES

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	4453.000	4863.000	2107.000	-.89223	.3722781	-.89223	.3722781	68	68
V6	4466.500	4849.500	2120.500	-.83347	.4045857	-.83347	.4045851	68	68
V16	5168.000	4148.000	1802.000	-2.21969	.0264471	-2.21969	.0264470	68	68
V21	4553.000	4763.000	2207.000	-.45699	.6476783	-.45699	.6476783	68	68
V26	4337.000	4979.000	1991.000	-1.39710	.1623942	-1.39846	.1619852	68	68
V31	4203.000	5113.000	1857.000	-1.98031	.0476774	-1.98224	.0474611	68	68
V36	5102.000	4214.000	1868.000	-1.93243	.0533149	-1.93243	.0533149	68	68

N-5 N-1

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V4	4638.000	4678.000	2292.000	-.087047	.9306351	-.087047	.9306351	68	68
V9	4638.000	4678.000	2292.000	-.087047	.9306351	-.087047	.9306351	68	68
V19	4875.000	4441.000	2095.000	-.944455	.3449445	-.944459	.3449421	68	68
V24	4616.000	4700.000	2270.000	-.182798	.8549579	-.182798	.8549579	68	68
V29	4750.000	4566.000	2220.000	-.400414	.6888543	-.400519	.6887769	68	68
V34	4711.000	4605.000	2259.000	-.230673	.8175701	-.230734	.8175231	68	68
V39	4839.000	4477.000	2131.000	-.787771	.4308365	-.787775	.4308343	68	68

N-2 N-1

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V3	4599.000	4717.000	2253.000	-.256787	.7973447	-.256787	.7973447	68	68
V8	4619.000	4697.000	2273.000	-.169741	.8652151	-.169741	.8652151	68	68
V18	4615.000	4701.000	2269.000	-.187150	.8515442	-.187151	.8515435	68	68
V23	4618.000	4698.000	2272.000	-.174093	.8617935	-.174093	.8617935	68	68
V28	4522.000	4794.000	2176.000	-.591916	.5539109	-.592118	.5537755	68	68
V33	4471.000	4845.000	2125.000	-.813885	.4157169	-.814163	.4155578	68	68
V38	4620.000	4696.000	2274.000	-.165388	.8686393	-.165389	.8686387	68	68

N-3 N-2

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V2	4609.000	4707.000	2263.000	-.213264	.8311224	-.213264	.8311224	68	68
V7	4599.000	4717.000	2253.000	-.256787	.7973447	-.256787	.7973447	68	68
V17	4835.000	4481.000	2135.000	-.770362	.4410911	-.770362	.4410911	68	68
V22	4663.000	4653.000	2307.000	-.021762	.9826382	-.021762	.9826382	68	68
V27	4543.000	4773.000	2197.000	-.500517	.6167142	-.500852	.6164787	68	68
V32	4457.000	4859.000	2111.000	-.874817	.3816798	-.875402	.3813615	68	68
V37	4817.000	4499.000	2153.000	-.692020	.4889299	-.692020	.4889299	68	68

N-4 N-3

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	4555.000	4761.000	2209.000	-.448290	.6539472	-.448290	.6539472	68	68
V6	4588.000	4728.000	2242.000	-.304663	.7606249	-.304663	.7606249	68	68
V16	4828.000	4488.000	2142.000	-.739895	.4593689	-.739895	.4593689	68	68
V21	4612.000	4704.000	2266.000	-.200207	.8413200	-.200207	.8413200	68	68
V26	4512.000	4804.000	2166.000	-.635440	.5251464	-.636610	.5243835	68	68
V31	4523.000	4793.000	2177.000	-.587564	.5568291	-.588646	.5561028	68	68
V36	4754.000	4562.000	2216.000	-.417823	.6760792	-.417823	.6760791	68	68

N-5 N-4

Variable dépendante
MODE DE PAIEMENT

groupe 1 : OPE
groupe 2 : OPA

Variable dépendante
MODE DE PAIEMENT

Groupe 1 : OPE
Groupe 2 : OPA

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable V14 Group 1: 1	Group 2: 2				
variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V5	1172.000	1174.000	394.0000	-2.12666	.0334556	-2.12666
V10	1296.000	1050.000	270.0000	-3.66431	.0002484	-3.66431
V11	1169.000	1177.000	397.0000	-2.08946	.0366739	-2.08956
V12	860.500	1485.500	425.5000	-1.73605	.0825642	-2.62893
V15	885.000	1461.000	450.0000	-1.43224	.1520840	-1.46477
V20	940.000	1406.000	505.0000	-.75022	.4531262	-.75022
V25	852.000	1494.000	417.0000	-1.84146	.0655641	-1.84146
V30	1132.000	1214.000	434.0000	-1.63065	.1029743	-1.63096
V35	1128.000	1218.000	438.0000	-1.58105	.1138770	-1.58135
V40	902.000	1444.000	467.0000	-1.22144	.2219297	-1.22144

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable V14 Group 1: 1	Group 2: 2		
variable	p-level	Valid N Group 1	Valid N Group 2	
V5	.0334556	29	39	
V10	.0002484	29	39	
V11	.0366650	29	39	
V12	.0085694	29	39	
V15	.1429939	29	39	
V20	.4531262	29	39	
V25	.0655641	29	39	
V30	.1029086	29	39	
V35	.1138080	29	39	
V40	.2219297	29	39	

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V12
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V5	1911.000	435.0000	315.0000	-.33783	.7354921	-.33783
V10	1936.000	410.0000	332.0000	-.06435	.9486928	-.06435
V11	2034.000	312.0000	234.0000	-1.64090	.1008284	-1.64098
V14	1792.000	554.0000	196.0000	-2.25221	.0243156	-2.62893
V15	1746.500	599.5000	150.5000	-2.98418	.0028455	-3.05195
V20	1929.000	417.0000	333.0000	-.04826	.9615080	-.04826
V25	1886.000	460.0000	290.0000	-.74001	.4592977	-.74001
V30	1999.000	347.0000	269.0000	-1.07784	.2811112	-1.07805
V35	1990.000	356.0000	278.0000	-.93306	.3507962	-.93324
V40	1908.000	438.0000	312.0000	-.38609	.6994299	-.38609

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V12
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V5	.7354921	56	12
V10	.9486928	56	12
V11	.1008121	56	12
V14	.0085694	56	12
V15	.0022755	56	12
V20	.9615080	56	12
V25	.4592977	56	12
V30	.2810193	56	12
V35	.3507042	56	12
V40	.6994299	56	12

Variable dépendante
NATIONALITE DE L'INITIATEUR
Groupe 1 : France
Groupe 2 : Etranger

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable V41 Group 1: 1 Group 2: 2					
variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V5	1183.000	1163.000	363.0000	-2.45484	.0141000	-2.45484
V10	1259.000	1087.000	439.0000	-1.50780	.1316168	-1.50780
V12	1208.000	1138.000	388.0000	-2.14331	.0320955	-3.24565
V14	1314.000	1032.000	494.0000	-.82243	.4108361	-.96000
V20	1434.000	912.000	506.0000	-.67290	.5010155	-.67290
V25	1302.000	1044.000	482.0000	-.97197	.3310742	-.97197
V30	1356.000	990.000	536.0000	-.29907	.7648910	-.29912
V35	1371.000	975.000	551.0000	-.11215	.9107051	-.11217
V40	1393.000	953.000	547.0000	-.16199	.8713112	-.16199

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable V41 Group 1: 1 Group 2: 2		
variable	p-level	Valid N Group 1	Valid N Group 2
V5	.0141000	40	28
V10	.1316168	40	28
V12	.0011730	40	28
V14	.3370627	40	28
V20	.5010155	40	28
V25	.3310742	40	28
V30	.7648474	40	28
V35	.9106882	40	28
V40	.8713112	40	28

Variable dépendante :

PARTICIPATION AU CAPITAL AVANT L'OPERATION (INITIATEUR)

Groupe 1 : < 50%
Groupe 2 : > 50%

ANNEXE n° 39

LES RAISONS GENERALES 1987-1990

ANALYSE UNIVARIEE STATIQUE

Analyse univariée statique N-3

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable A Group 1: 1 Group 2: 2					
variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	964.000	1116.000	436.0000	-1.02046	.3075163	-1.02046
V2	965.000	1115.000	437.0000	-1.00704	.3139248	-1.00704
V3	1023.000	1057.000	495.0000	-.22826	.8194443	-.22826
V4	1190.000	890.000	362.0000	-2.01407	.0440102	-2.01407
V5	1130.000	950.000	422.0000	-1.20844	.2268855	-1.20844
V6	1112.000	968.000	440.0000	-.96676	.3336738	-.98182
V7	986.000	1094.000	458.0000	-.72507	.4684167	-.72507
V8	1025.000	1055.000	497.0000	-.20141	.8403814	-.20141
V9	1105.000	975.000	447.0000	-.87277	.3827977	-.87277

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable A Group 1: 1 Group 2: 2		
variable	p-level	Valid N Group 1	Valid N Group 2
V1	.3075163	32	32
V2	.3139248	32	32
V3	.8194443	32	32
V4	.0440102	32	32
V5	.2268855	32	32
V6	.3261968	32	32
V7	.4684167	32	32
V8	.8403814	32	32
V9	.3827977	32	32

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	977.000	1103.000	449.0000	-.84591	.3976088	-.84591
V2	924.000	1156.000	396.0000	-1.55755	.1193499	-1.55755
V3	1026.000	1054.000	498.0000	-.18798	.8508934	-.18798
V4	1193.000	887.000	359.0000	-2.05435	.0399495	-2.05435
V5	1106.000	974.000	446.0000	-.88619	.3755206	-.88619
V6	1062.000	1018.000	490.0000	-.29540	.7676922	-.29820
V7	1012.000	1068.000	484.0000	-.37596	.7069489	-.37596
V8	1022.000	1058.000	494.0000	-.24169	.8090229	-.24169
V9	1091.000	989.000	461.0000	-.68478	.4934846	-.68478

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.3976089	32	32
V2	.1193498	32	32
V3	.8508934	32	32
V4	.0399495	32	32
V5	.3755207	32	32
V6	.7655556	32	32
V7	.7069489	32	32
V8	.8090229	32	32
V9	.4934847	32	32

Analyse univariée statique N-2

Analyse univariée statique N-1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST — By variable A — Group 1: 1 — Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	912.000	1168.000	384.0000	-1.71868	.0856831	-1.71868
V2	901.000	1179.000	373.0000	-1.86637	.0619981	-1.86637
V3	1032.000	1048.000	504.0000	-.10742	.9144586	-.10742
V4	1214.000	866.000	338.0000	-2.33632	.0194805	-2.33632
V5	1091.000	989.000	461.0000	-.68478	.4934846	-.68478
V6	1076.500	1003.500	475.5000	-.49009	.6240728	-.49395
V7	1023.000	1057.000	495.0000	-.22826	.8194443	-.22826
V8	1033.000	1047.000	505.0000	-.09399	.9251176	-.09399
V9	1079.000	1001.000	473.0000	-.52366	.6005194	-.52366

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST — By variable A — Group 1: 1 — Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.0856831	32	32
V2	.0619981	32	32
V3	.9144586	32	32
V4	.0194805	32	32
V5	.4934847	32	32
V6	.6213441	32	32
V7	.8194443	32	32
V8	.9251176	32	32
V9	.6005194	32	32

ANNEXE n° 40

LES RAISONS GENERALES 1987-1990

ANALYSE MULTIVARIEE STATIQUE

MULTINOMIAL LOGIT ANALYSIS
****

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V3	.4191	.4210
3	V4	.6763	.5940
4	V5	.1873	.1286
5	V6	.2664	.1897
6	V8	.2586	.2974
7	V9	3.998	1.335

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -38.9945
LOG LIKELIHOOD AT ITERATION 3 IS -37.4069
LOG LIKELIHOOD AT ITERATION 4 IS -36.9947
LOG LIKELIHOOD AT ITERATION 5 IS -36.9695
LOG LIKELIHOOD AT ITERATION 6 IS -36.9692
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -36.9692

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-4.15013	1.91595	-2.1661
2	V3	-3.42027	2.26865	-1.5076
3	V4	5.82243	2.61062	2.2303
4	V5	3.63896	2.10487	1.7288
5	V6	1.17259	1.30063	.90156
6	V8	1.25485	2.21411	.56675
7	V9	.297008	.153772	1.9315

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 14.7843
WITH 6 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.523554
2	.500000	.476446

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-1.035	1.035
2	V3	-.8532	.8532

3	V4	1.452	−1.452
4	V5	.9077	−.9077
5	V6	.2925	−.2925
6	V8	.3130	−.3130
7	V9	0.7409E-01	−.7409E-01

MULTINOMIAL LOGIT ANALYSIS
****

Modèle n° 2

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V2	.1102	.1535
3	V5	.1873	.1286
4	V6	.2664	.1897
5	V8	.2586	.2974
6	V9	3.998	1.335

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -39.3880
LOG LIKELIHOOD AT ITERATION 3 IS -37.9058
LOG LIKELIHOOD AT ITERATION 4 IS -37.3991
LOG LIKELIHOOD AT ITERATION 5 IS -37.3480
LOG LIKELIHOOD AT ITERATION 6 IS -37.3471
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -37.3471

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-.335662	.856182	-.39205
2	V2	-12.2582	6.08830	-2.0134
3	V5	3.73436	2.23615	1.6700
4	V6	1.13249	1.21626	.93113
5	V8	1.28867	2.26311	.56942
6	V9	.303312	.165665	1.8309

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 14.0286
WITH 5 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.515880
2	.500000	.484120

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-.8383E-01	0.8383E-01
2	V2	-3.061	3.061
3	V5	.9326	-.9326

4	V6	.2828	-.2828
5	V8	.3218	-.3218
6	V9	0.7575E-01	-.7575E-01

MULTINOMIAL LOGIT ANALYSIS
****

DEPENDENT VARIABLE: A

Modèle n° 1

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	.1109	.1357
3	V3	.4146	.4119
4	V4	.6847	.5818
5	V5	.1878	.1342
6	V7	1.476	1.527
7	V8	.2554	.2885
8	V9	3.663	1.653

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -39.3134
LOG LIKELIHOOD AT ITERATION 3 IS -37.8650
LOG LIKELIHOOD AT ITERATION 4 IS -37.5153
LOG LIKELIHOOD AT ITERATION 5 IS -37.5017
LOG LIKELIHOOD AT ITERATION 6 IS -37.5017
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -37.5017

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-4.27811	2.64308	-1.6186
2	V1	4.08953	2.77549	1.4734
3	V3	-4.88052	2.93370	-1.6636
4	V4	7.88673	3.15002	2.5037
5	V5	2.30521	2.31185	.99713
6	V7	-.623728	.709758	-.87879
7	V8	2.18923	2.47629	.88408
8	V9	.303633	.146852	2.0676

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 13.7194
WITH 7 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.510194
2	.500000	.489806

INDEPENDENT VARIABLE DERIV

VARIABLE	D = 1	D = 2

1	CONSTANT	-1.069	1.069
2	V1	1.022	-1.022
3	V3	-1.220	1.220
4	V4	1.971	-1.971
5	V5	.5761	-.5761
6	V7	-.1559	.1559
7	V8	.5471	-.5471
8	V9	0.7588E-01	-.7588E-01

MULTINOMIAL LOGIT ANALYSIS

DEPENDENT VARIABLE: A

Modèle n° 2

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V2	.1072	.1528
3	V5	.1878	.1342
4	V9	3.663	1.653

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -41.0671
LOG LIKELIHOOD AT ITERATION 3 IS -39.9787
LOG LIKELIHOOD AT ITERATION 4 IS -39.7557
LOG LIKELIHOOD AT ITERATION 5 IS -39.7478
LOG LIKELIHOOD AT ITERATION 6 IS -39.7478
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION

LOG LIKELIHOOD: -39.7478

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	.263463	.559978	.47049
2	V2	-8.96226	4.88892	-1.8332
3	V5	2.40186	1.87144	1.2834
4	V9	.211558	.112712	1.8770

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 9.22730
WITH 3 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.511875
2	.500000	.488125

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	0.6583E-01	-.6583E-01
2	V2	-2.239	2.239
3	V5	.6001	-.6001
4	V9	0.5286E-01	-.5286E-01

MULTINOMIAL LOGIT ANALYSIS
****

N-1

DEPENDENT VARIABLE: A

Modèle n° 1

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V3	.4138	.4189
3	V4	.6903	.5870
4	V7	1.410	1.526
5	V8	.2525	.2657
6	V9	3.559	1.848

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -37.7467
LOG LIKELIHOOD AT ITERATION 3 IS -37.0098
LOG LIKELIHOOD AT ITERATION 4 IS -36.9571
LOG LIKELIHOOD AT ITERATION 5 IS -36.9569
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -36.9569

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-2.47096	2.11459	-1.1685
2	V3	-3.68713	2.38620	-1.5452
3	V4	6.61375	2.36722	2.7939
4	V7	-1.07867	.650371	-1.6585
5	V8	3.05167	2.89564	1.0539
6	V9	.233391	.125954	1.8530

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 14.8091
WITH 5 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.513955
2	.500000	.486045

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-.6173	.6173
2	V3	-.9211	.9211
3	V4	1.652	-1.652
4	V7	-.2695	.2695
5	V8	.7623	-.7623

6	V9	0.5830E-01	-.5830E-01

MULTINOMIAL LOGIT ANALYSIS
****

DEPENDENT VARIABLE: A

Modèle n° 2

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V3	.4138	.4189
3	V4	.6903	.5870
4	V7	1.410	1.526
5	V8	.2525	.2657

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -39.5717
LOG LIKELIHOOD AT ITERATION 3 IS -39.3829
LOG LIKELIHOOD AT ITERATION 4 IS -39.3806
LOG LIKELIHOOD AT ITERATION 5 IS -39.3806
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -39.3806

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	-.494208	1.79222	-.27575
2	V3	-2.48733	2.23415	-1.1133
3	V4	5.29854	2.00701	2.6400
4	V7	-1.17263	.658937	-1.7796
5	V8	-.666555	2.16214	-.30828

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 9.96165
WITH 4 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.489985
2	.500000	.510015

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	-.1235	.1235
2	V3	-.6216	.6216
3	V4	1.324	-1.324
4	V7	-.2930	.2930
5	V8	-.1666	.1666

ANNEXE n° 41

LES RAISONS GENERALES 1987-1990

ANALYSE UNIVARIEE STATIQUE AVEC LES INDICATEURS DE SECOND ORDRE

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V18
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	505.0000	23.0000	13.00000	-2.45015	.0142849	-2.45015	.0142849	28	4
V2	468.0000	60.0000	50.00000	-.34188	.7324421	-.34188	.7324421	28	4
V3	472.0000	56.0000	46.00000	-.56980	.5688154	-.56980	.5688154	28	4
V4	458.0000	70.0000	52.00000	-.22792	.8197090	-.22792	.8197090	28	4
V5	486.0000	42.0000	32.00000	-1.36753	.1714698	-1.36753	.1714698	28	4
V6	473.0000	55.0000	45.00000	-.62678	.5308059	-.63002	.5286828	28	4
V7	468.0000	60.0000	50.00000	-.34188	.7324421	-.34188	.7324421	28	4
V8	463.0000	65.0000	55.00000	-.05698	.9545612	-.05698	.9545612	28	4
V9	458.0000	70.0000	52.00000	-.22792	.8197090	-.22792	.8197090	28	4
V10	483.0000	45.0000	35.00000	-1.19659	.2314768	-1.19659	.2314768	28	4
V11	439.0000	89.0000	33.00000	-1.31055	.1900204	-1.31055	.1900204	28	4
V12	503.0000	25.0000	15.00000	-2.33619	.0194874	-2.33641	.0194762	28	4
V13	470.0000	58.0000	48.00000	-.45584	.6485065	-.54336	.5868870	28	4
V14	440.0000	88.0000	34.00000	-1.25357	.2100089	-1.52307	.1277523	28	4
V15	482.0000	46.0000	36.00000	-1.13961	.2544591	-1.68488	.0920211	28	4
V16	478.0000	50.0000	40.00000	-.91168	.3619416	-1.21499	.2243805	28	4
V17	406.0000	122.0000	.00000	-3.19090	.0014197	-3.66976	.0002432	28	4

Variable dépendante

PARTICIPATION DANS LE CAPITAL

Groupe 1 : $\leq$ 50%
Groupe 2 : $>$ 50%

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V15
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	97.0000	431.0000	76.00000	-.09656	.9230757	-.09656	.9230757	6	26
V2	107.0000	421.0000	70.00000	-.38624	.6993188	-.38624	.6993188	6	26
V3	138.0000	390.0000	39.00000	-1.88294	.0597178	-1.88294	.0597179	6	26
V4	107.0000	421.0000	70.00000	-.38624	.6993188	-.38624	.6993188	6	26
V5	85.0000	443.0000	64.00000	-.67593	.4990923	-.67593	.4990923	6	26
V6	138.0000	390.0000	39.00000	-1.88294	.0597178	-1.89268	.0584100	6	26
V7	111.0000	417.0000	66.00000	-.57937	.5623467	-.57937	.5623467	6	26
V8	64.0000	464.0000	43.00000	-1.68982	.0910729	-1.68982	.0910730	6	26
V9	127.0000	401.0000	50.00000	-1.35185	.1764320	-1.35185	.1764320	6	26
V10	68.0000	460.0000	47.00000	-1.49669	.1344827	-1.49669	.1344827	6	26
V11	123.0000	405.0000	54.00000	-1.15873	.2465745	-1.15873	.2465746	6	26
V12	93.5000	434.5000	72.50000	-.26554	.7905933	-.26557	.7905746	6	26
V13	79.0000	449.0000	58.00000	-.96561	.3342471	-1.15099	.2497435	6	26
V14	116.0000	412.0000	61.00000	-.82077	.4117847	-.99722	.3186647	6	26
V16	75.0000	453.0000	54.00000	-1.15873	.2465745	-1.54422	.1225449	6	26
V17	115.5000	412.5000	61.50000	-.79663	.4256733	-.91618	.3595797	6	26

Variable dépendante
MODE DE PAIEMENT

Groupe 1 : OPE
Groupe 2 : OPA

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V14
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	202.0000	326.0000	95.0000	-.81336	.4160191	-.81336	.4160191	11	21
V2	207.0000	321.0000	90.0000	-1.01174	.3116712	-1.01174	.3116712	11	21
V3	204.0000	324.0000	93.0000	-.89271	.3720195	-.89271	.3720195	11	21
V4	163.0000	365.0000	97.0000	-.73401	.4629507	-.73401	.4629507	11	21
V5	197.0000	331.0000	100.0000	-.61498	.5385739	-.61498	.5385739	11	21
V6	200.0000	328.0000	97.0000	-.73401	.4629507	-.73780	.4606404	11	21
V7	200.0000	328.0000	97.0000	-.73401	.4629507	-.73401	.4629507	11	21
V8	175.0000	353.0000	109.0000	-.25789	.7964905	-.25789	.7964905	11	21
V9	196.0000	332.0000	101.0000	-.57530	.5650913	-.57530	.5650913	11	21
V10	136.0000	392.0000	70.0000	-1.80526	.0710438	-1.80526	.0710438	11	21
V11	228.0000	300.0000	69.0000	-1.84493	.0650565	-1.84493	.0650565	11	21
V12	161.0000	367.0000	95.0000	-.81336	.4160191	-.81343	.4159764	11	21
V13	179.5000	348.5000	113.5000	-.07935	.9367532	-.09459	.9246439	11	21
V15	198.5000	329.5000	98.5000	-.67449	.5000037	-.99722	.3186647	11	21
V16	265.5000	262.5000	31.5000	-3.33278	.0008608	-4.44154	.0000090	11	21
V17	183.0000	345.0000	114.0000	-.05951	.9525431	-.06845	.9454315	11	21

Variable dépendante

NATURE

Groupe 1 : hostile
Groupe 2 : amicale

ANNEXE n° 42

LES RAISONS GENERALES 1987-1990

ANALYSE UNIVARIEE DYNAMIQUE

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	1082.000	1078.000	474.0000	-.51023	.6098925	-.51023	.6098925	32	32
V2	975.000	1105.000	447.0000	-.87277	.3827977	-.87277	.3827977	32	32
V3	967.000	1113.000	439.0000	-.98018	.3270035	-.98018	.3270036	32	32
V4	1109.000	971.000	443.0000	-.92647	.3542069	-.92647	.3542069	32	32
V5	1015.000	1065.000	487.0000	-.33568	.7371153	-.33568	.7371153	32	32
V6	1021.000	1059.000	493.0000	-.25512	.7986352	-.25512	.7986330	32	32
V7	1021.000	1059.000	493.0000	-.25512	.7986352	-.25622	.7977864	32	32
V8	911.000	1169.000	383.0000	-1.73210	.0832649	-1.73210	.0832649	32	32
V9	1025.000	1055.000	497.0000	-.20141	.8403814	-.20141	.8403814	32	32
V10	896.000	1184.000	368.0000	-1.93351	.0531822	-1.93351	.0531822	32	32
V11	1161.000	919.000	391.0000	-1.62469	.1042394	-1.62469	.1042394	32	32
V12	954.000	1126.000	426.0000	-1.15474	.2482075	-1.15474	.2482075	32	32

Aba Analyse univariée N-3 / N-1

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	1054.000	1026.000	498.0000	-.18798	.8508934	-.18798	.8508934	32	32
V2	1001.000	1079.000	473.0000	-.52366	.6005194	-.52366	.6005194	32	32
V3	1027.000	1053.000	499.0000	-.17455	.8614320	-.17455	.8614320	32	32
V4	1043.000	1037.000	509.0000	-.04028	.9678690	-.04028	.9678690	32	32
V5	1053.000	1027.000	499.0000	-.17455	.8614320	-.17455	.8614320	32	32
V6	1079.000	1001.000	473.0000	-.52366	.6005194	-.52366	.6005152	32	32
V7	1043.500	1036.500	508.5000	-.04700	.9625175	-.04720	.9623544	32	32
V8	934.000	1146.000	406.0000	-1.42328	.1546653	-1.42328	.1546653	32	32
V9	981.000	1099.000	453.0000	-.79220	.4282487	-.79220	.4282488	32	32
V10	995.000	1085.000	467.0000	-.60422	.5457004	-.60422	.5457004	32	32
V11	1199.000	881.000	353.0000	-2.13492	.0327753	-2.13492	.0327753	32	32
V12	948.000	1132.000	420.0000	-1.23530	.2167286	-1.23530	.2167286	32	32

Analyse univariée N-2 / N-1

ANNEXE n° 43

LES RAISONS GENERALES 1987-1990

ANALYSE MULTIVARIEE DYNAMIQUE

MULTINOMIAL LOGIT ANALYSIS
****

N-3 / N-1

DEPENDENT VARIABLE: A

Modèle n° 1

NUMBER OF RECORDS PROCESSED: 65

NUMBER OF RECORDS DELETED FOR MISSING DATA: 1

NUMBER OF CHOICES IN EACH CATEGORY
==========

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	.3219	15.82
3	V2	-.4396E-01	0.5081E-01
4	V3	-.1301E-01	-.1113E-01
5	V5	0.4899E-01	.5770
6	V8	.1454	.2928
7	V9	-.5086E-01	-.2976E-01
8	V10	0.2503E-01	0.4392E-01
9	V12	.1605	.3763

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -35.4922
LOG LIKELIHOOD AT ITERATION 3 IS -34.6515
LOG LIKELIHOOD AT ITERATION 4 IS -34.4723
LOG LIKELIHOOD AT ITERATION 5 IS -34.2883
LOG LIKELIHOOD AT ITERATION 6 IS -34.1615
LOG LIKELIHOOD AT ITERATION 7 IS -34.1519
LOG LIKELIHOOD AT ITERATION 8 IS -34.1517
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -34.1517

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	1.09425	.459549	2.3811
2	V1	-0.894908E-01	.100577	-.88977
3	V2	1.13956	1.04845	1.0869
4	V3	-4.79314	3.78133	-1.2676
5	V5	-.729089	.356053	-2.0477
6	V8	3.61720	2.81975	1.2828
7	V9	-11.3567	4.80705	-2.3625
8	V10	-51.7718	25.8506	-2.0027
9	V12	-1.12753	.494240	-2.2814

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 20.4194
WITH 8 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.347097
2	.500000	.652903

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	.2480	-.2480
2	V1	-.2028E-01	0.2028E-01
3	V2	.2582	-.2582
4	V3	-1.086	1.086
5	V5	-.1652	.1652
6	V8	.8197	-.8197
7	V9	-2.574	2.574
8	V10	-11.73	11.73
9	V12	-.2555	.2555

MULTINOMIAL LOGIT ANALYSIS
****

N-2 / N-1

DEPENDENT VARIABLE: A

Modèle n° 1

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	-1.201	-2.410
3	V2	-.1782	0.5739E-01
4	V4	0.6204E-02	2.469
5	V5	0.5149E-01	.2538
6	V7	.2006	.1994
7	V9	-.3163E-01	-.7980E-02
8	V10	0.1421E-01	0.2374E-01
9	V11	-.6225E-02	-.2102E-01
10	V12	0.7820E-01	.1924

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -36.7000
LOG LIKELIHOOD AT ITERATION 3 IS -35.9434
LOG LIKELIHOOD AT ITERATION 4 IS -35.8608
LOG LIKELIHOOD AT ITERATION 5 IS -35.8437
LOG LIKELIHOOD AT ITERATION 6 IS -35.8273
LOG LIKELIHOOD AT ITERATION 7 IS -35.7025
LOG LIKELIHOOD AT ITERATION 8 IS -34.6326
LOG LIKELIHOOD AT ITERATION 9 IS -34.2468
LOG LIKELIHOOD AT ITERATION 10 IS -34.2415
LOG LIKELIHOOD AT ITERATION 11 IS -34.2415
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -34.2415

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	.747345	.461955	1.6178
2	V1	0.775154E-01	0.443340E-01	1.7484
3	V2	-2.81790	1.67201	-1.6853
4	V4	-8.65456	5.44921	-1.5882
5	V5	-.769156	.561795	-1.3691
6	V7	.518698	.609869	.85051
7	V9	-8.44160	3.73535	-2.2599
8	V10	-24.7733	16.6532	-1.4876
9	V11	-3.22216	2.47715	-1.3008
10	V12	-3.32174	1.62873	-2.0395

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 20.2398
WITH 9 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

OBSERVED	PREDICTED

1	.500000	0.235886E-04
2	.500000	.999976

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	0.1763E-04	-.1763E-04
2	V1	0.1828E-05	-.1828E-05
3	V2	-.6647E-04	0.6647E-04
4	V4	-.2041E-03	0.2041E-03
5	V5	-.1814E-04	0.1814E-04
6	V7	0.1224E-04	-.1224E-04
7	V9	-.1991E-03	0.1991E-03
8	V10	-.5844E-03	0.5844E-03
9	V11	-.7600E-04	0.7600E-04
10	V12	-.7835E-04	0.7835E-04

MULTINOMIAL LOGIT ANALYSIS
****

N-2 / N-1

Modèle n° 2

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	-1.201	-2.410
3	V2	-.1782	0.5739E-01
4	V4	0.6204E-02	2.469
5	V5	0.5149E-01	.2538
6	V7	.2006	.1994
7	V9	-.3163E-01	-.7980E-02
8	V10	0.1421E-01	0.2374E-01
9	V12	0.7820E-01	.1924

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -37.7230
LOG LIKELIHOOD AT ITERATION 3 IS -37.2770
LOG LIKELIHOOD AT ITERATION 4 IS -37.2335
LOG LIKELIHOOD AT ITERATION 5 IS -37.2140
LOG LIKELIHOOD AT ITERATION 6 IS -37.1882
LOG LIKELIHOOD AT ITERATION 7 IS -36.6906
LOG LIKELIHOOD AT ITERATION 8 IS -35.4209
LOG LIKELIHOOD AT ITERATION 9 IS -35.3594
LOG LIKELIHOOD AT ITERATION 10 IS -35.3584
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -35.3584

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	.682600	.451749	1.5110
2	V1	0.534320E-01	0.437585E-01	1.2211
3	V2	-2.00545	1.25222	-1.6015
4	V4	-7.94989	4.59028	-1.7319
5	V5	-.828633	.552574	-1.4996
6	V7	.470402	.583216	.80657
7	V9	-7.97623	3.57462	-2.2314
8	V10	-29.4059	16.7430	-1.7563
9	V12	-1.63731	.829138	-1.9747

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 18.0061
WITH 8 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	0.562938E-04
2	.500000	.999944

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	0.3842E-04	-.3842E-04
2	V1	0.3008E-05	-.3008E-05
3	V2	-.1129E-03	0.1129E-03
4	V4	-.4475E-03	0.4475E-03
5	V5	-.4664E-04	0.4664E-04
6	V7	0.2648E-04	-.2648E-04
7	V9	-.4490E-03	0.4490E-03
8	V10	-.1655E-02	0.1655E-02
9	V12	-.9217E-04	0.9217E-04

MULTINOMIAL LOGIT ANALYSIS
****

N-2 / N-1

DEPENDENT VARIABLE: A

Modèle n° 3

NUMBER OF RECORDS PROCESSED: 64

NUMBER OF CHOICES IN EACH CATEGORY

1	32
2	32

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	-1.201	-2.410
3	V2	-.1782	0.5739E-01
4	V5	0.5149E-01	.2538
5	V7	.2006	.1994
6	V9	-.3163E-01	-.7980E-02
7	V10	0.1421E-01	0.2374E-01
8	V12	0.7820E-01	.1924

LOG LIKELIHOOD AT ITERATION 1 IS -44.3614
LOG LIKELIHOOD AT ITERATION 2 IS -38.0019
LOG LIKELIHOOD AT ITERATION 3 IS -37.6108
LOG LIKELIHOOD AT ITERATION 4 IS -37.6009
LOG LIKELIHOOD AT ITERATION 5 IS -37.6009
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -37.6009

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	.642163	.450939	1.4241
2	V1	0.440645E-01	0.395879E-01	1.1131
3	V2	-.776215	.715255	-1.0852
4	V5	-1.00874	.587514	-1.7170
5	V7	.248930	.512775	.48546
6	V9	-6.89541	3.06835	-2.2473
7	V10	-24.9902	16.4689	-1.5174
8	V12	-1.43226	.837049	-1.7111

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 13.5210
WITH 7 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.493472
2	.500000	.506528

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	.1605	-.1605

2	V1	0.1101E-01	-.1101E-01
3	V2	-.1940	.1940
4	V5	-.2521	.2521
5	V7	0.6222E-01	-.6222E-01
6	V9	-1.724	1.724
7	V10	-6.246	6.246
8	V12	-.3580	.3580

ANNEXE n° 44

LES RAISONS SPECIFIQUES 1970-1985

LES RESULTATS STATISTIQUES DE L'A.C.P.

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS :
TRACE AVANT DIAGONALISATION 7.0000
SOMME DES VALEURS PROPRES 7.0000

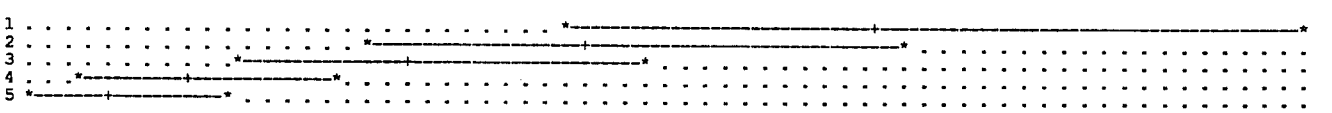
HISTOGRAMME DES 7 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	2.3413	33.45	33.45	**********
2	1.7138	24.48	57.93	*******
3	1.3151	18.79	76.72	*****
4	0.8192	11.70	88.42	***
5	0.6409	9.16	97.58	***
6	0.1359	1.94	99.52	*
7	0.0339	0.48	100.00	*

INTERVALLES LAPLACIENS D'ANDERSON AU SEUIL 0.95

NUMERO	BORNE INFERIEURE	VALEUR PROPRE	BORNE SUPERIEURE
1	1.6645	2.3413	3.2933
2	1.2184	1.7138	2.4107
3	0.9349	1.3151	1.8498
4	0.5824	0.8192	1.1523
5	0.4556	0.6409	0.9015

ETENDUE ET POSITION RELATIVE DES INTERVALLES



COORDONNEES DES VARIABLES SUR LES AXES 1 A 5

VARIABLES	COORDONNEES					CORRELATIONS VARIABLE-FACTEUR					ANCIENS AXES UNITAIRES				
IDEN - LIBELLE COURT	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
VARIABLES ACTIVES															
V001 - CA	-0.59	-0.58	0.53	0.01	-0.15	-0.59	-0.58	0.53	0.01	-0.15	-0.39	-0.44	0.46	0.01	-0.18
V002 - ACTIF	-0.81	-0.48	0.12	-0.26	-0.09	-0.81	-0.48	0.12	-0.26	-0.09	-0.53	-0.37	0.11	-0.28	-0.11
V007 - RN/CA	0.06	0.38	0.67	-0.40	0.49	0.06	0.38	0.67	-0.40	0.49	0.04	0.29	0.58	-0.44	0.61
V008 - CA/ACTIF	0.40	-0.18	0.63	0.64	0.02	0.40	-0.18	0.63	0.64	0.02	0.26	-0.14	0.55	0.70	0.02
V009 - DIMT/ACT	-0.72	0.59	-0.08	0.25	0.06	-0.72	0.59	-0.08	0.25	0.06	-0.47	0.45	-0.07	0.27	0.08
V010 - DIMT/CP	-0.78	0.50	0.03	0.28	0.03	-0.78	0.50	0.03	0.28	0.03	-0.51	0.38	0.03	0.31	0.04
V011 - RN/CP	0.21	0.61	0.41	-0.23	-0.60	0.21	0.61	0.41	-0.23	-0.60	0.14	0.46	0.36	-0.25	-0.75
VARIABLES ILLUSTRATIVES															
V003 - %OBTENU	0.04	0.11	-0.15	0.07	-0.12	0.04	0.11	-0.15	0.07	-0.12					
V006 - %DETENU	-0.10	-0.23	0.17	0.10	0.10	-0.10	-0.23	0.17	0.10	0.10					

COORDOONNEES ET VALEURS-TEST DES MODALITES SUR LES AXES 1 A 5

MODALITES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFF.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
4 . NATION													
AD01 - FRANCE	55	55.00	0.01	-0.10	0.01	-0.03	0.02	0.02	-1.2	0.1	-0.4	0.3	0.4
AD02 - ETRANGER	12	12.00	0.25	0.47	-0.03	0.13	-0.07	-0.08	1.2	-0.1	0.4	-0.3	-0.4
5 . MODEPAIE													
AE01 - OPE	28	28.00	0.56	-0.69	-0.14	-0.11	-0.12	-0.18	-3.1	-0.7	-0.7	-0.9	-1.6
AE02 - OPA	39	39.00	0.29	0.49	0.10	0.08	0.09	0.13	3.1	0.7	0.7	0.9	1.6
12 . PARTICIPATION													
AL01 - <50%	40	40.00	0.08	0.06	0.23	-0.15	-0.05	-0.04	0.4	1.7	-1.3	-0.6	-0.6
AL02 - >50%	27	27.00	0.18	-0.09	-0.34	0.22	0.08	0.07	-0.4	-1.7	1.3	0.6	0.6

FIN DE LA PROCEDURE ** COPRI **
Analyse en composantes principales

ANNEXE n° 45

LES RAISONS SPECIFIQUES 1970-1985

LES RESULTATS STATISTIQUES DE LA C.A.H.

CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES 60 NOEUDS D'INDICES LES PLUS ELEVES

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
74	42	14	2	2.00	0.00151	*
75	38	52	2	2.00	0.00171	*
76	4	61	2	2.00	0.00188	*
77	57	53	2	2.00	0.00189	*
78	76	60	3	3.00	0.00217	*
79	34	43	2	2.00	0.00239	*
80	15	55	2	2.00	0.00294	*
81	6	8	2	2.00	0.00310	*
82	48	1	2	2.00	0.00318	*
83	50	67	2	2.00	0.00334	*
84	74	68	4	4.00	0.00366	*
85	71	30	3	3.00	0.00369	*
86	17	3	2	2.00	0.00389	*
87	7	77	3	3.00	0.00417	*
88	33	20	2	2.00	0.00418	*
89	27	2	2	2.00	0.00545	*
90	29	18	2	2.00	0.00589	*
91	79	21	3	3.00	0.00621	*
92	73	13	3	3.00	0.00625	*
93	49	40	2	2.00	0.00628	*
94	84	83	6	6.00	0.00664	*
95	31	75	3	3.00	0.00679	*
96	19	63	2	2.00	0.00726	*
97	88	36	3	3.00	0.00732	*
98	12	81	3	3.00	0.00813	*
99	86	45	3	3.00	0.00884	*
100	80	64	3	3.00	0.00900	*
101	78	22	4	4.00	0.00902	*
102	70	93	4	4.00	0.01024	*
103	85	32	4	4.00	0.01121	*
104	9	54	2	2.00	0.01158	*
105	94	69	8	8.00	0.01220	*
106	90	91	5	5.00	0.01343	*
107	87	104	5	5.00	0.01561	*
108	99	39	4	4.00	0.01986	*
109	28	82	3	3.00	0.01997	*
110	51	35	2	2.00	0.02020	*
111	96	46	3	3.00	0.02188	**
112	101	95	7	7.00	0.02390	**
113	98	72	5	5.00	0.02755	**
114	107	58	6	6.00	0.02760	**
115	103	97	7	7.00	0.03606	**
116	102	111	7	7.00	0.03771	**
117	105	113	13	13.00	0.04214	***
118	92	56	4	4.00	0.04406	***
119	24	89	3	3.00	0.04597	***
120	100	118	7	7.00	0.05000	***
121	112	106	12	12.00	0.07217	****
122	108	109	7	7.00	0.07490	****
123	117	114	19	19.00	0.10946	******
124	121	120	19	19.00	0.13910	*******
125	119	110	5	5.00	0.15154	********
126	116	124	26	26.00	0.22166	**********
127	62	125	6	6.00	0.27678	**********
128	123	126	45	45.00	0.31672	**********
129	128	115	52	52.00	0.61878	**********
130	127	122	13	13.00	0.68459	**********
131	66	37	2	2.00	0.71398	**********
132	129	131	54	54.00	1.18146	**********
133	132	130	67	67.00	1.63453	**********

SOMME DES INDICES DE NIVEAU = 6.83027

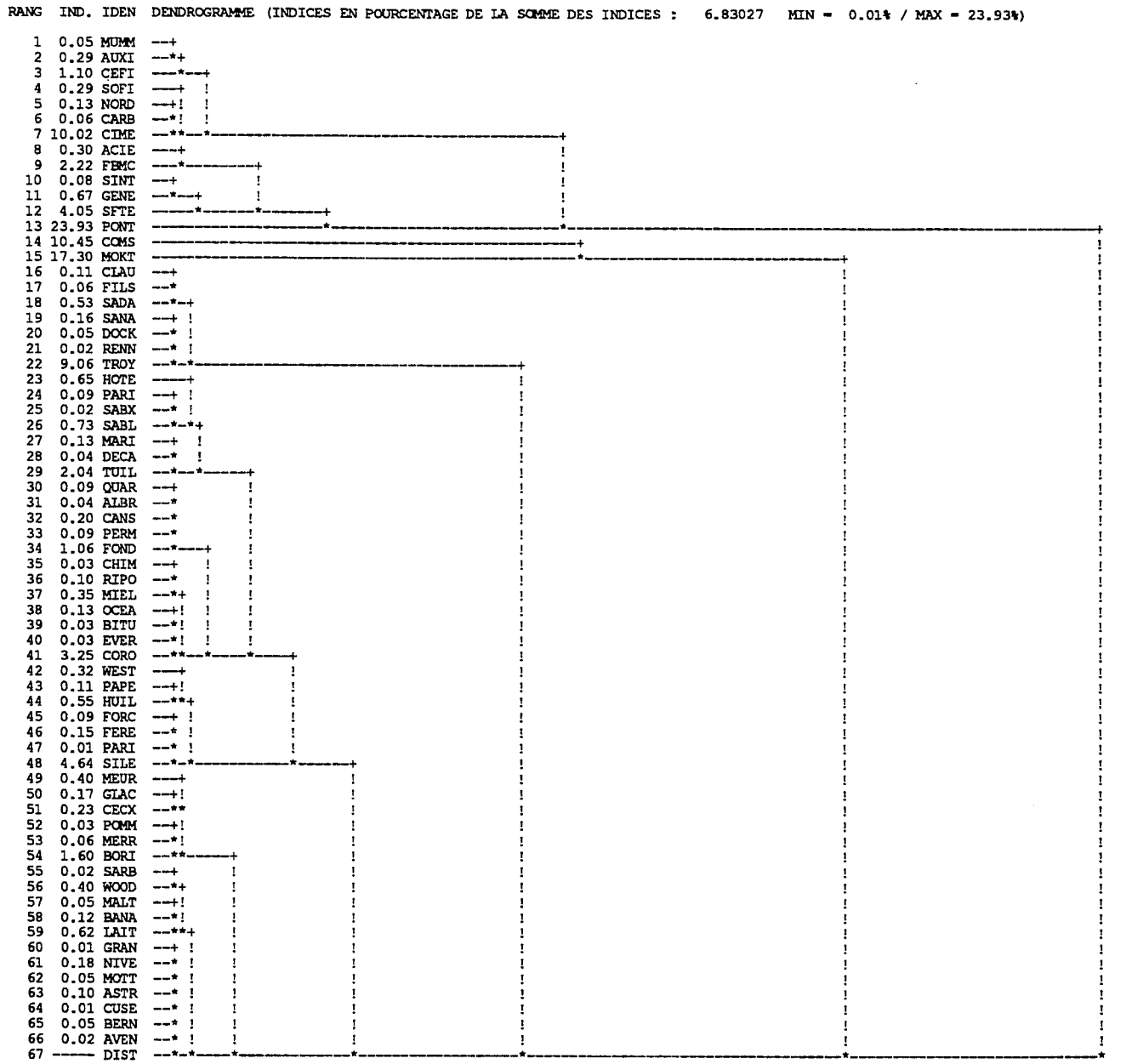
NOUVEL ORDRE DES INDIVIDUS : NOUVEAU NUMERO ET IDENTIFICATEUR D'ORIGINE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MUMM	AUXI	CEFI	SOFI	NORD	CARB	CIME	ACIE	FBMC	SINT	GENE	SFTE	PONT	COMS	MOKT	CLAU	FILS	SADA	SANA	DOCK
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
RENN	TROY	HOTE	PARI	SABX	SABL	MARI	DECA	TUIL	QUAR	ALBR	CANS	PERM	FOND	CHIM	RIPO	MIEL	OCEA	BITU	EVER
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CORO	WEST	PAPE	HUIL	FORC	FERE	PARI	SILE	MEUR	GLAC	CECX	POMM	MERR	BORI	SARB	WOOD	MALT	BANA	LAIT	GRAN
61	62	63	64	65	66	67													
NIVE	MOTT	ASTR	CUSE	BERN	AVEN	DIST													

DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : 6.83027)

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
68	0.01	65	64	2	2.00	64	65
69	0.01	61	60	2	2.00	60	61
70	0.01	48	47	2	2.00	47	48
71	0.02	22	21	2	2.00	21	22
72	0.02	56	55	2	2.00	55	56
73	0.02	26	25	2	2.00	25	26
74	0.02	67	66	2	2.00	66	67
75	0.03	36	35	2	2.00	35	36
76	0.03	41	40	2	2.00	40	41
77	0.03	53	52	2	2.00	52	53
78	0.03	76	39	3	3.00	39	41
79	0.04	32	31	2	2.00	31	32
80	0.04	29	28	2	2.00	28	29
81	0.05	58	57	2	2.00	57	58
82	0.05	2	1	2	2.00	1	2
83	0.05	63	62	2	2.00	62	63
84	0.05	74	68	4	4.00	64	67
85	0.05	71	20	3	3.00	20	22
86	0.06	7	6	2	2.00	6	7
87	0.06	54	77	3	3.00	52	54
88	0.06	18	17	2	2.00	17	18
89	0.08	11	10	2	2.00	10	11
90	0.09	34	33	2	2.00	33	34
91	0.09	79	30	3	3.00	30	32
92	0.09	73	24	3	3.00	24	26
93	0.09	46	45	2	2.00	45	46
94	0.10	84	83	6	6.00	62	67
95	0.10	37	75	3	3.00	35	37
96	0.11	44	43	2	2.00	43	44
97	0.11	88	16	3	3.00	16	18
98	0.12	59	81	3	3.00	57	59
99	0.13	86	5	3	3.00	5	7
100	0.13	80	27	3	3.00	27	29
101	0.13	78	38	4	4.00	38	41
102	0.15	70	93	4	4.00	45	48
103	0.16	85	19	4	4.00	19	22
104	0.17	51	50	2	2.00	50	51
105	0.18	94	69	8	8.00	60	67
106	0.20	90	91	5	5.00	30	34
107	0.23	87	104	5	5.00	50	54
108	0.29	99	4	4	4.00	4	7
109	0.29	3	82	3	3.00	1	3
110	0.30	9	8	2	2.00	8	9
111	0.32	96	42	3	3.00	42	44
112	0.35	101	95	7	7.00	35	41
113	0.40	98	72	5	5.00	55	59
114	0.40	107	49	6	6.00	49	54
115	0.53	103	97	7	7.00	16	22
116	0.55	102	111	7	7.00	42	48
117	0.62	105	113	13	13.00	55	67
118	0.65	92	23	4	4.00	23	26
119	0.67	12	89	3	3.00	10	12
120	0.73	100	118	7	7.00	23	29
121	1.06	112	106	12	12.00	30	41
122	1.10	108	109	7	7.00	1	7
123	1.60	117	114	19	19.00	49	67
124	2.04	121	120	19	19.00	23	41
125	2.22	119	110	5	5.00	8	12
126	3.25	116	124	26	26.00	23	48
127	4.05	13	125	6	6.00	8	13
128	4.64	123	126	45	45.00	23	67

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
129	9.06	128	115	52	52.00	16	67
130	10.02	127	122	13	13.00	1	13
131	10.45	15	14	2	2.00	14	15
132	17.30	129	131	54	54.00	14	67
133	23.93	132	130	67	67.00	1	67


RANG IND. IDEN DENDROGRAMME (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : 6.83027 MIN = 0.01% / MAX = 23.93%)
1 0.05 MUMM
2 0.29 AUXI
3 1.10 CEFI
4 0.29 SOFI
5 0.13 NORD
6 0.06 CARB
7 10.02 CIME
8 0.30 ACIE
9 2.22 FBMC
10 0.08 SINT
11 0.67 GENE
12 4.05 SFTE
13 23.93 PONT
14 10.45 COMS
15 17.30 MOKT
16 0.11 CLAU
17 0.06 FILS
18 0.53 SADA
19 0.16 SANA
20 0.05 DOCK
21 0.02 RENN
22 9.06 TROY
23 0.65 HOTE
24 0.09 PARI
25 0.02 SABX
26 0.73 SABL
27 0.13 MARI
28 0.04 DECA
29 2.04 TUIL
30 0.09 QUAR
31 0.04 ALBR
32 0.20 CANS
33 0.09 PERM
34 1.06 FOND
35 0.03 CHIM
36 0.10 RIPO
37 0.35 MIEL
38 0.13 OCEA
39 0.03 BITU
40 0.03 EVER
41 3.25 CORO
42 0.32 WEST
43 0.11 PAPE
44 0.55 HUIL
45 0.09 FORC
46 0.15 FERE
47 0.01 PARI
48 4.64 SILE
49 0.40 MEUR
50 0.17 GLAC
51 0.23 CECX
52 0.03 POMM
53 0.06 MERR
54 1.60 BORI
55 0.02 SARB
56 0.40 WOOD
57 0.05 MALT
58 0.12 BANA
59 0.62 LAIT
60 0.01 GRAN
61 0.18 NIVE
62 0.05 MOTT
63 0.10 ASTR
64 0.01 CUSE
65 0.05 BERN
66 0.02 AVEN
67 ----- DIST

ANNEXE n° 46

LES RAISONS SPECIFIQUES 1970-1985

LA PARTITION EN 3 CLASSES

CONSOLIDATION DE LA PARTITION AUTOUR DES 3 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	6.830271	2.815992	0.4123
1	6.830271	2.829741	0.4143
2	6.830271	2.829741	0.4143
3	6.830271	2.829741	0.4143

ARRET APRES L'ITERATION 3 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE 0.000 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 5 AXES

	INERTIES		EFFECTIFS		POIDS		DISTANCES	
	AVANT	APRES	AVANT	APRES	AVANT	APRES	AVANT	APRES
INERTIE INTER-CLASSES	2.8160	2.8297						
INERTIES INTRA-CLASSE								
CLASSE 1 / 3	1.3152	1.4475	13	14	13.00	14.00	6.7896	6.2797
CLASSE 2 / 3	0.7140	0.7140	2	2	2.00	2.00	38.0280	38.0280
CLASSE 3 / 3	1.9851	1.8390	52	51	52.00	51.00	0.4683	0.5024
INERTIE TOTALE	6.8303	6.8303						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... 0.4123
APRES ... 0.4143

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 5

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'a' DE L'ARBRE EN 3 CLASSES													
aa1a - CLASSE 1 / 3	14	14.00	6.28	-2.39	0.76	0.05	0.01	-0.03	-6.51	2.43	0.18	0.04	-0.15
aa2a - CLASSE 2 / 3	2	2.00	38.03	-0.80	-4.01	-4.41	1.37	-0.04	-0.74	-4.36	-5.48	2.15	-0.07
aa3a - CLASSE 3 / 3	51	51.00	0.50	0.69	-0.05	0.16	-0.06	0.01	6.51	-0.58	2.01	-0.89	0.17

COMPOSITION DE : COUPURE 'a' DE L'ARBRE EN 3 CLASSES

----- CLASSE 1 / 3 -----

MUMM SINT CARB CIME SFTE GENE CEFI ACIE SOFI NORD AUXI FBMC HOTE PONT

----- CLASSE 2 / 3 ----------

COMS MOKT

----- CLASSE 3 / 3 ----------

CORO SILE BANA BORI MALT CECX SABL GRAN LAIT PARI AVEN TUIL SABX PERM HUIL FILS QUAR OCEA PARI TROY RENN FOND DOCK MIEL SANA SADA CANS CIAU RIPO FORC CUSE DIST ALBR SARB WEST NIVE FERE ASTR CHIM POMM GLAC DECA MERR MEUR BERN BITU EVER PAPE MARI WOOD MOTT

POINTS LES PLUS PROCHES DU CENTRE DE GRAVITE

CLASSE 1/ 3 (EFFECTIF 14)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	1.1546	MUMM	2	1.4684	CEFI	3	1.8221	SINT
4	2.0183	AUXI	5	3.5762	CARB			

CLASSE 2/ 3 (EFFECTIF 2)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	23.918	COMS	2	23.918	MOKT			

CLASSE 3/ 3 (EFFECTIF 51)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.75566E-01	CHIM	2	0.19238	RIPO	3	0.35573	ASTR
4	0.43664	EVER	5	0.62281	ALBR			

FIN DE LA PROCEDURE ** PARTI **
Coupure de l'arbre

COUPURE 'a' DE L'ARBRE EN 3 CLASSES

DESCRIPTION SOMMAIRE

CLASSE	EFFECTIF	POIDS	CONTENU
aa1a	13	13.00	1 A 13
aa2a	2	2.00	14 A 15
aa3a	52	52.00	16 A 67

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 5

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'a' DE L'ARBRE EN 3 CLASSES													
aa1a - CLASSE 1 / 3	13	13.00	6.79	-2.53	0.61	0.07	0.07	-0.06	-6.59	1.87	0.24	0.32	-0.32
aa2a - CLASSE 2 / 3	2	2.00	38.03	-0.80	-4.01	-4.41	1.37	-0.04	-0.74	-4.36	-5.48	2.15	-0.07
aa3a - CLASSE 3 / 3	52	52.00	0.47	0.66	0.00	0.15	-0.07	0.02	6.56	0.01	2.01	-1.18	0.33

CARACTERISATION PAR LES CONTINUES
DES CLASSES OU MODALITES DE : COUPURE 'a' DE L'ARBRE EN 3 CLASSES

NUM. LIBELLE	VARIABLES CARACTERISTIQUES	IDEN	MOYENNES CLASSE	MOYENNES GENERALE	ECARTS TYPES CLASSE	ECARTS TYPES GENERAL	V.TEST	PROBA
	CLASSE 1 / 3	aa1a		(POIDS =	14.00	EFFECTIF = 14)		
9.	DLMT/ACT	V009	0.320	0.139	0.108	0.121	6.29	0.000
10.	DLMT/CP	V010	1.306	0.520	0.603	0.540	6.08	0.000
2.	ACTIF	V002	354.608	175.297	263.788	175.986	4.25	0.000
1.	CA	V001	273.961	178.660	252.520	158.669	2.51	0.006
8.	CA/ACTIF	V008	0.746	1.264	0.302	0.753	-2.87	0.002
	CLASSE 2 / 3	aa2a		(POIDS =	2.00	EFFECTIF = 2)		
11.	RN/CP	V011	-1.305	-0.017	1.095	0.332	-5.52	0.000
7.	RN/CA	V007	-0.990	-0.015	0.720	0.221	-6.28	0.000
	CLASSE 3 / 3	aa3a		(POIDS =	51.00	EFFECTIF = 51)		
8.	CA/ACTIF	V008	1.440	1.264	0.763	0.753	3.39	0.000
1.	CA	V001	151.956	178.660	105.667	158.669	-2.44	0.007
2.	ACTIF	V002	119.109	175.297	84.073	175.986	-4.63	0.000
10.	DLMT/CP	V010	0.321	0.520	0.258	0.540	-5.36	0.000
9.	DLMT/ACT	V009	0.093	0.139	0.066	0.121	-5.53	0.000

FIN DE LA PROCEDURE ** DECLA **
Description des partitions

ANNEXE n° 47

LES RAISONS SPECIFIQUES 1987-1990

LES RESULTATS STATISTIQUES DE L'A.C.P.

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS :
TRACE AVANT DIAGONALISATION 11.0000
SOMME DES VALEURS PROPRES 11.0000

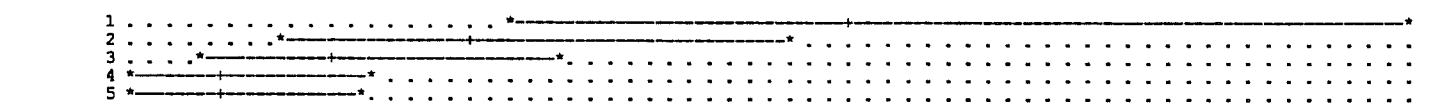
HISTOGRAMME DES 11 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	3.8117	34.65	34.65	**********
2	2.1478	19.53	54.18	******
3	1.5342	13.95	68.12	****
4	1.0392	9.45	77.57	***
5	1.0149	9.23	86.80	***
6	0.6628	6.03	92.82	**
7	0.4233	3.85	96.67	*
8	0.1990	1.81	98.48	*
9	0.1200	1.09	99.57	*
10	0.0301	0.27	99.85	*
11	0.0169	0.15	100.00	*

INTERVALLES LAPLACIENS D'ANDERSON AU SEUIL 0.95

NUMERO	BORNE INFERIEURE	VALEUR PROPRE	BORNE SUPERIEURE
1	2.3169	3.8117	6.2708
2	1.3055	2.1478	3.5335
3	0.9326	1.5342	2.5240
4	0.6317	1.0392	1.7097
5	0.6169	1.0149	1.6697

ETENDUE ET POSITION RELATIVE DES INTERVALLES



COORDONNEES DES VARIABLES SUR LES AXES 1 A 5

VARIABLES	COORDONNEES					CORRELATIONS VARIABLE-FACTEUR					ANCIENS AXES UNITAIRES				
IDEN - LIBELLE COURT	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
VARIABLES ACTIVES															
V001 - RN/CP	0.45	-0.51	0.00	-0.19	-0.49	0.45	-0.51	0.00	-0.19	-0.49	0.23	-0.35	0.00	-0.18	-0.49
V002 - EBE/CA	0.89	-0.12	-0.03	-0.28	0.04	0.89	-0.12	-0.03	-0.28	0.04	0.46	-0.08	-0.03	-0.27	0.04
V003 - VA/CA	0.80	0.16	0.14	0.42	0.04	0.80	0.16	0.14	0.42	0.04	0.41	0.11	0.11	0.41	0.04
V004 - CPERS/VA	-0.74	0.29	-0.07	0.52	0.07	-0.74	0.29	-0.07	0.52	0.07	-0.38	0.20	-0.05	0.51	0.06
V005 - BFR/CA	-0.05	0.14	0.83	-0.04	0.18	-0.05	0.14	0.83	-0.04	0.18	-0.03	0.09	0.67	-0.04	0.18
V006 - DIV/RN	0.22	-0.33	0.33	0.58	-0.53	0.22	-0.33	0.33	0.58	-0.53	0.11	-0.22	0.27	0.57	-0.53
V007 - CA	-0.32	-0.88	-0.10	0.13	0.27	-0.32	-0.88	-0.10	0.13	0.27	-0.16	-0.60	-0.08	0.12	0.27
V008 - CA/ACTIF	-0.76	-0.03	-0.51	0.01	-0.22	-0.76	-0.03	-0.51	0.01	-0.22	-0.39	-0.02	-0.41	0.01	-0.22
V009 - ACTIF	-0.12	-0.88	0.14	0.09	0.39	-0.12	-0.88	0.14	0.09	0.39	-0.06	-0.60	0.11	0.09	0.39
V010 - DET/ACTIF	-0.65	0.13	0.59	-0.19	-0.01	-0.65	0.13	0.59	-0.19	-0.01	-0.34	0.09	0.47	-0.19	-0.01
V011 - CP/DET	0.67	0.26	-0.26	0.28	0.42	0.67	0.26	-0.26	0.28	0.42	0.34	0.18	-0.21	0.27	0.41
VARIABLES ILLUSTRATIVES															
V012 - OBTENU	0.10	-0.09	0.29	-0.16	-0.18	0.10	-0.09	0.29	-0.16	-0.18					
V017 - DETENU	-0.17	0.01	-0.37	-0.01	0.15	-0.17	0.01	-0.37	-0.01	0.15					

COORDOONNEES ET VALEURS-TEST DES MODALITES SUR LES AXES 1 A 5

MODALITES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFF.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
13 . NATION													
AM01 - FRANCE	20	20.00	0.19	-0.03	-0.26	-0.28	0.06	0.14	-0.1	-1.3	-1.6	0.4	1.0
AM02 - ETRANGER	12	12.00	0.52	0.05	0.44	0.47	-0.09	-0.24	0.1	1.3	1.6	-0.4	-1.0
14 . NATURE													
AN01 - HOSTILE	11	11.00	0.50	0.33	-0.34	0.03	0.12	0.09	0.7	-0.9	0.1	0.5	0.3
AN02 - AMICALE	21	21.00	0.14	-0.17	0.18	-0.01	-0.06	-0.04	-0.7	0.9	-0.1	-0.5	-0.3
15 . MODEPAIE													
AO01 - OPE	6	6.00	2.00	0.92	-0.15	0.07	0.90	-0.31	1.3	-0.3	0.1	2.4	-0.8
AO02 - OPA	26	26.00	0.11	-0.21	0.04	-0.02	-0.21	0.07	-1.3	0.3	-0.1	-2.4	0.8
16 . NBREINIT													
AP01 - UNIQUE	24	24.00	0.12	-0.05	0.31	-0.07	0.04	-0.01	-0.3	2.0	-0.6	0.4	-0.1
AP02 - PLUSIEURS	8	8.00	1.07	0.16	-0.92	0.22	-0.12	0.03	0.3	-2.0	0.6	-0.4	0.1
18 . PARTICIPATION													
AR01 - <50%	28	28.00	0.04	0.02	-0.06	0.14	-0.03	-0.08	0.1	-0.6	1.7	-0.4	-1.2
AR02 - >50%	4	4.00	1.85	-0.14	0.40	-1.00	0.20	0.56	-0.1	0.6	-1.7	0.4	1.2

FIN DE LA PROCEDURE ** COPRI **
Analyse en composantes principales

ANNEXE n° 48

LES RAISONS SPECIFIQUES 1987-1990

LES RESULTATS STATISTIQUES DE LA C.A.H.

CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES NOEUDS

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
33	5	28	2	2.00	0.01226	*
34	6	31	2	2.00	0.01860	*
35	27	10	2	2.00	0.01974	*
36	32	11	2	2.00	0.02039	*
37	33	21	3	3.00	0.02187	*
38	4	2	2	2.00	0.03277	**
39	26	17	2	2.00	0.03329	**
40	7	9	2	2.00	0.03427	**
41	14	22	2	2.00	0.03439	**
42	30	19	2	2.00	0.03893	**
43	15	34	3	3.00	0.03957	**
44	20	1	2	2.00	0.05676	***
45	41	24	3	3.00	0.05889	***
46	3	23	2	2.00	0.06852	***
47	29	37	4	4.00	0.07682	***
48	39	44	4	4.00	0.08517	****
49	25	36	3	3.00	0.09329	****
50	47	38	6	6.00	0.11196	*****
51	43	50	9	9.00	0.18232	*******
52	45	40	5	5.00	0.18999	********
53	49	48	7	7.00	0.20667	********
54	8	35	3	3.00	0.21536	********
55	52	16	6	6.00	0.25933	**********
56	13	42	3	3.00	0.41433	*****************
57	46	12	3	3.00	0.45593	******************
58	18	51	10	10.00	0.49510	********************
59	56	53	10	10.00	0.64443	************************
60	54	58	13	13.00	0.75451	*****************************
61	55	59	16	16.00	1.21519	**
62	60	61	29	29.00	1.49592	**
63	57	62	32	32.00	2.16125	**

SOMME DES INDICES DE NIVEAU = 9.54782

NOUVEL ORDRE DES INDIVIDUS : NOUVEAU NUMERO ET IDENTIFICATEUR D'ORIGINE

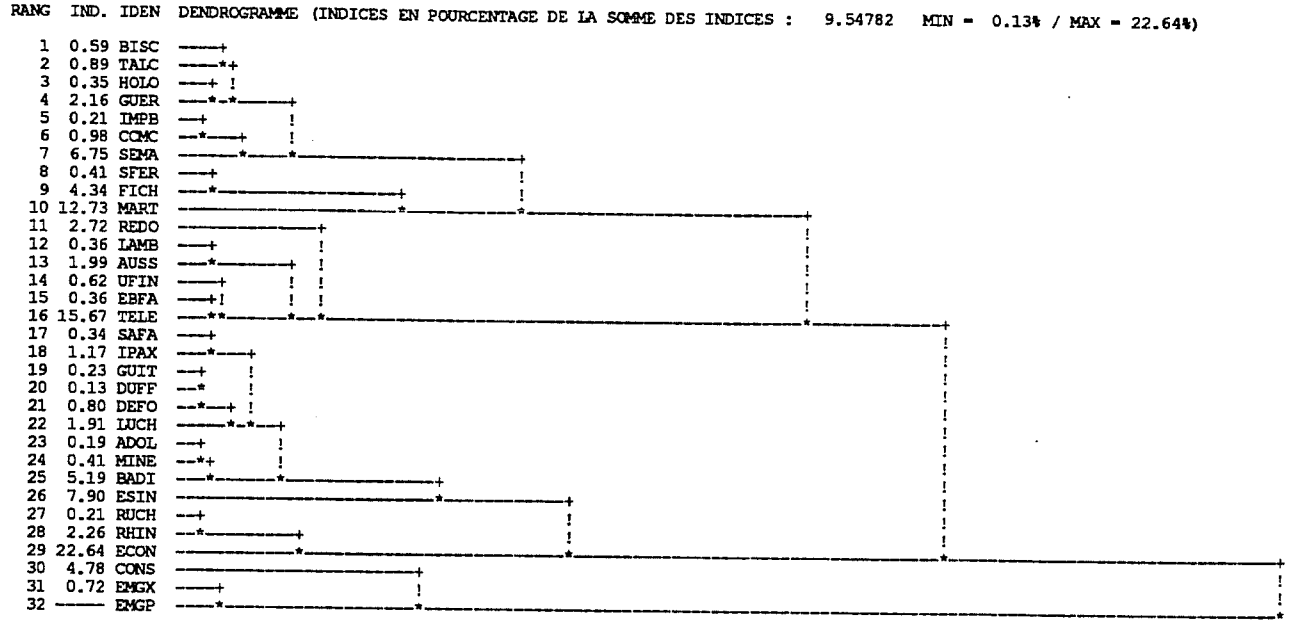
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BISC	TALC	HOLO	GUER	IMPB	CCMC	SEMA	SFER	FICH	MART	REDO	LAMB	AUSS	UFIN	EBFA	TELE	SAFA	IPAX	GUIT	DUFF

21	22	23	24	25	26	27	28	29	30	31	32
DEFO	LUCH	ADOL	MINE	BADI	ESIN	RUCH	RHIN	ECON	CONS	EMGX	EMGP

DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : 9.54782)

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
33	0.13	21	20	2	2.00	20	21
34	0.19	24	23	2	2.00	23	24
35	0.21	28	27	2	2.00	27	28
36	0.21	6	5	2	2.00	5	6
37	0.23	33	19	3	3.00	19	21
38	0.34	18	17	2	2.00	17	18
39	0.35	4	3	2	2.00	3	4
40	0.36	13	12	2	2.00	12	13
41	0.36	16	15	2	2.00	15	16
42	0.41	9	8	2	2.00	8	9
43	0.41	25	34	3	3.00	23	25
44	0.59	2	1	2	2.00	1	2
45	0.62	41	14	3	3.00	14	16
46	0.72	32	31	2	2.00	31	32
47	0.80	22	37	4	4.00	19	22
48	0.89	39	44	4	4.00	1	4
49	0.98	7	36	3	3.00	5	7
50	1.17	47	38	6	6.00	17	22
51	1.91	43	50	9	9.00	17	25
52	1.99	45	40	5	5.00	12	16
53	2.16	49	48	7	7.00	1	7
54	2.26	29	35	3	3.00	27	29
55	2.72	52	11	6	6.00	11	16
56	4.34	10	42	3	3.00	8	10
57	4.78	46	30	3	3.00	30	32
58	5.19	26	51	10	10.00	17	26
59	6.75	56	53	10	10.00	1	10
60	7.90	54	58	13	13.00	17	29
61	12.73	55	59	16	16.00	1	16
62	15.67	60	61	29	29.00	1	29
63	22.64	57	62	32	32.00	1	32

RANG IND. IDEN DENDROGRAMME (INDICES EN POURCENTAGE DE LA SOMME DES INDICES : 9.54782 MIN = 0.13% / MAX = 22.64%)



FIN DE LA PROCEDURE ** RECIP **
Arbre hiérarchique

SPAD.N - MODIFICATION DE PARAMETRES

NGRO='Macintosh HD:SPADN:ana87.NGRO.test'

ANNEXE n° 49

LES RAISONS SPECIFIQUES 1987-1990

LA PARTITION RETENUE EN 4 CLASSES

COUPURE 'a' DE L'ARBRE EN 4 CLASSES

DESCRIPTION SOMMAIRE

CLASSE	EFFECTIF	POIDS	CONTENU
aa1a	10	10.00	1 A 10
aa2a	6	6.00	11 A 16
aa3a	13	13.00	17 A 29
aa4a	3	3.00	30 A 32

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 5

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'a' DE L'ARBRE EN 4 CLASSES													
aa1a - CLASSE 1 / 4	10	10.00	1.90	0.90	0.00	0.49	0.21	-0.89	1.74	-0.01	1.50	0.77	-3.32
aa2a - CLASSE 2 / 4	6	6.00	6.35	-0.50	-2.33	0.16	0.06	0.79	-0.69	-4.26	0.35	0.15	2.10
aa3a - CLASSE 3 / 4	13	13.00	2.78	-1.40	0.82	-0.23	-0.30	0.00	-3.31	2.58	-0.85	-1.34	0.01
aa4a - CLASSE 4 / 4	3	3.00	20.89	4.07	1.12	-0.99	0.48	1.38	3.73	1.37	-1.43	0.84	2.45

CONSOLIDATION DE LA PARTITION AUTOUR DES 4 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	9.547824	4.872362	0.5103
1	9.547824	5.132057	0.5375
2	9.547824	5.132057	0.5375
3	9.547824	5.132057	0.5375

ARRET APRES L'ITERATION 3 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE 0.000 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 5 AXES

	INERTIES		EFFECTIFS		POIDS		DISTANCES	
	AVANT	APRES	AVANT	APRES	AVANT	APRES	AVANT	APRES
INERTIE INTER-CLASSES	4.8724	5.1321						
INERTIES INTRA-CLASSE								
CLASSE 1 / 4	1.5933	1.6619	10	12	10.00	12.00	1.8972	1.7017
CLASSE 2 / 4	0.5769	0.5769	6	6	6.00	6.00	6.3550	6.3550
CLASSE 3 / 4	1.9809	1.6525	13	11	13.00	11.00	2.7798	3.9090
CLASSE 4 / 4	0.5244	0.5244	3	3	3.00	3.00	20.8921	20.8921
INERTIE TOTALE	9.5478	9.5478						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... 0.5103
APRES ... 0.5375

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 5

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	4	5	1	2	3	4	5
COUPURE 'a' DE L'ARBRE EN 4 CLASSES													
aa1a - CLASSE 1 / 4	12	12.00	1.70	0.80	0.11	0.53	0.15	-0.86	1.76	0.34	1.85	0.65	-3.69
aa2a - CLASSE 2 / 4	6	6.00	6.35	-0.50	-2.33	0.16	0.06	0.79	-0.69	-4.26	0.35	0.15	2.10
aa3a - CLASSE 3 / 4	11	11.00	3.91	-1.71	0.84	-0.40	-0.33	0.13	-3.52	2.32	-1.30	-1.30	0.53
aa4a - CLASSE 4 / 4	3	3.00	20.89	4.07	1.12	-0.99	0.48	1.38	3.73	1.37	-1.43	0.84	2.45

COMPOSITION DE : COUPURE 'a' DE L'ARBRE EN 4 CLASSES

----- CLASSE 1 / 4 -----

BISC DEFO IMPB MART HOLO SFER TALC SEMA GUER DUFF FICH CCMC

----- CLASSE 2 / 4 -----

AUSS LAMB TELE REDO EBFA UFIN

----- CLASSE 3 / 4 -----

SAFA IPAX MINE ECON RUCH BADI ESIN GUIT RHIN LUCH ADOL

----- CLASSE 4 / 4 -----

EMGP CONS EMGX

POINTS LES PLUS PROCHES DU CENTRE DE GRAVITE

CLASSE 1/ 4 (EFFECTIF 12)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.60278	DUFF	2	1.2933	DEFO	3	1.2972	HOLO
4	1.5908	TALC	5	1.7398	IMPB			

CLASSE 2/ 4 (EFFECTIF 6)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.23631	EBFA	2	2.2234	AUSS	3	2.7614	UFIN
4	3.0682	LAMB	5	3.2549	TELE			

CLASSE 3/ 4 (EFFECTIF 11)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	1.2003	BADI	2	1.3295	SAFA	3	1.7851	MINE
4	2.2151	IPAX	5	2.8012	GUIT			

CLASSE 4/ 4 (EFFECTIF 3)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.81385	EMGX	2	6.2420	EMGP	3	9.7265	CONS

FIN DE LA PROCEDURE ** PARTI **
Coupure de l'arbre

CARACTERISATION PAR LES CONTINUES
DES CLASSES OU MODALITES DE : COUPURE 'a' DE L'ARBRE EN 4 CLASSES

NUM. LIBELLE	VARIABLES CARACTERISTIQUES	IDEN	MOYENNES CLASSE	MOYENNES GENERALE	ECARTS TYPES CLASSE	ECARTS TYPES GENERAL	V.TEST	PROBA
	CLASSE 1 / 4	aa1a		(POIDS = 12.00	EFFECTIF = 12)			
6.	DIV/RN	V006	0.387	0.236	0.188	0.197	3.33	0.000
	CLASSE 2 / 4	aa2a		(POIDS = 6.00	EFFECTIF = 6)			
9.	ACTIF	V009	4335.703	1375.120	1112.576	1619.690	4.89	0.000
7.	CA	V007	5865.200	1885.821	2541.309	2410.752	4.42	0.000
	CLASSE 3 / 4	aa3a		(POIDS = 11.00	EFFECTIF = 11)			
8.	CA/ACTIF	V008	1.860	1.409	0.566	0.584	3.11	0.001
4.	CPERS/VA	V004	0.806	0.691	0.131	0.167	2.79	0.003
1.	RN/CP	V001	0.010	0.103	0.174	0.138	-2.71	0.003
2.	EBE/CA	V002	0.038	0.110	0.041	0.095	-3.06	0.001
6.	DIV/RN	V006	0.086	0.236	0.114	0.197	-3.07	0.001
3.	VA/CA	V003	0.283	0.415	0.104	0.165	-3.22	0.001
	CLASSE 4 / 4	aa4a		(POIDS = 3.00	EFFECTIF = 3)			
11.	CP/DET	V011	22.383	3.558	6.342	6.604	5.10	0.000
3.	VA/CA	V003	0.713	0.415	0.045	0.165	3.23	0.001
2.	EBE/CA	V002	0.273	0.110	0.172	0.095	3.07	0.001
8.	CA/ACTIF	V008	0.593	1.409	0.415	0.584	-2.50	0.006
10.	DET/ACTIF	V010	0.037	0.253	0.012	0.135	-2.87	0.002

FIN DE LA PROCEDURE ** DECLA **
Description des partitions

ANNEXE n° 50

LES STRATEGIES GENERALES 1970-1985

L'ANALYSE UNIVARIEE

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	269.0000	551.0000	59.0000	-3.81406	.0001370	-3.81406
V2	291.0000	529.0000	81.0000	-3.21896	.0012878	-3.21896
V3	329.0000	491.0000	119.0000	-2.19106	.0284548	-2.19106
V4	392.0000	428.0000	182.0000	-.48690	.6263313	-.48690
V5	390.0000	430.0000	180.0000	-.54100	.5885101	-.54100
V6	392.0000	428.0000	182.0000	-.48690	.6263313	-.48690
V7	300.0000	520.0000	90.0000	-2.97551	.0029272	-2.97551

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable A
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.0001370	20	20
V2	.0012878	20	20
V3	.0284548	20	20
V4	.6263314	20	20
V5	.5885101	20	20
V6	.6263314	20	20
V7	.0029272	20	20

Groupe 1 : entreprises cibles

Groupe 2 : entreprises initiatrices

ANNEXE n° 51

LES STRATEGIES GENERALES 1970-1985

L'ANALYSE MULTIVARIEE

Modèle n° 1

MULTINOMIAL LOGIT ANALYSIS
****

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 40

NUMBER OF CHOICES IN EACH CATEGORY

1	20
2	20

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V1	170.4	1172.
3	V4	1.377	1.500
4	V5	.1349	.1457
5	V7	-.2357E-01	0.9734E-01

LOG LIKELIHOOD AT ITERATION 1 IS -27.7259
LOG LIKELIHOOD AT ITERATION 2 IS -21.0378
LOG LIKELIHOOD AT ITERATION 3 IS -19.3331
LOG LIKELIHOOD AT ITERATION 4 IS -16.9539
LOG LIKELIHOOD AT ITERATION 5 IS -14.9928
LOG LIKELIHOOD AT ITERATION 6 IS -14.7014
LOG LIKELIHOOD AT ITERATION 7 IS -14.6913
LOG LIKELIHOOD AT ITERATION 8 IS -14.6912
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -14.6912

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	2.72090	1.47935	1.8393
2	V1	-0.738054E-02	0.283902E-02	-2.5997
3	V4	.203556	.639300	.31840
4	V5	-1.63227	4.06541	-.40150
5	V7	-11.5132	5.75291	-2.0013

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 26.0693
WITH 4 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	0.695229E-01
2	.500000	.930477

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	.1760	-.1760
2	V1	-.4774E-03	0.4774E-03
3	V4	0.1317E-01	-.1317E-01
4	V5	-.1056	.1056

5	V7	|	-.7448	.7448

MULTINOMIAL LOGIT ANALYSIS
****

Modèle n° 2

DEPENDENT VARIABLE: A

NUMBER OF RECORDS PROCESSED: 40

NUMBER OF CHOICES IN EACH CATEGORY

1	20
2	20

INDEPENDENT VARIABLE MEANS

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.000	1.000
2	V2	157.5	810.9
3	V3	-.8693E-01	0.2939E-01
4	V4	1.377	1.500
5	V5	.1349	.1457

LOG LIKELIHOOD AT ITERATION 1 IS -27.7259
LOG LIKELIHOOD AT ITERATION 2 IS -24.4423
LOG LIKELIHOOD AT ITERATION 3 IS -21.9307
LOG LIKELIHOOD AT ITERATION 4 IS -18.5879
LOG LIKELIHOOD AT ITERATION 5 IS -16.4601
LOG LIKELIHOOD AT ITERATION 6 IS -15.6632
LOG LIKELIHOOD AT ITERATION 7 IS -15.6025
LOG LIKELIHOOD AT ITERATION 8 IS -15.6021
CONVERGENCE ACHIEVED.

RESULTS OF ESTIMATION
****

LOG LIKELIHOOD: -15.6021

	PARAMETER	ESTIMATE	STANDARD ERROR	T-STATISTIC
1	CONSTANT	5.23708	1.99551	2.6244
2	V2	-0.895673E-02	0.346277E-02	-2.5866
3	V3	-49.4647	21.9600	-2.2525
4	V4	-1.31068	.660771	-1.9836
5	V5	-3.92027	4.17738	-.93845

-2 TIMES LOG LIKELIHOOD RATIO (CHI SQUARED) : 24.2475
WITH 4 DEGREES OF FREEDOM

CHOICE PROBABILITIES FOR EACH CATEGORY
ACTUAL & PREDICTED USING MEAN X'S

	OBSERVED	PREDICTED
1	.500000	.472129
2	.500000	.527871

INDEPENDENT VARIABLE DERIV

	VARIABLE	D = 1	D = 2
1	CONSTANT	1.305	-1.305
2	V2	-.2232E-02	0.2232E-02
3	V3	-12.33	12.33
4	V4	-.3267	.3267

5	V5	|	-.9770	.9770

ANNEXE n° 52

LES STRATEGIES SPECIFIQUES 1970-1985

LES RESULTATS STATISTIQUES DE L'A.C.P.

EDITION DES VALEURS PROPRES

APERCU DE LA PRECISION DES CALCULS :
TRACE AVANT DIAGONALISATION 7.0000
SOMME DES VALEURS PROPRES 7.0000

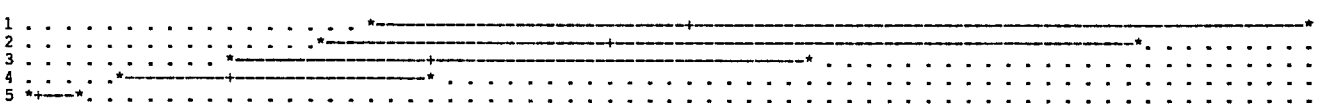
HISTOGRAMME DES 7 PREMIERES VALEURS PROPRES

NUMERO	VALEUR PROPRE	POURCENT.	POURCENT. CUMULE	
1	2.4014	34.31	34.31	**********
2	2.0973	29.96	64.27	*********
3	1.4946	21.35	85.62	*******
4	0.7861	11.23	96.85	***
5	0.1317	1.88	98.73	*
6	0.0875	1.25	99.98	*
7	0.0015	0.02	100.00	*

INTERVALLES LAPLACIENS D'ANDERSON AU SEUIL 0.95

NUMERO	BORNE INFERIEURE	VALEUR PROPRE	BORNE SUPERIEURE
1	1.2714	2.4014	4.5355
2	1.1104	2.0973	3.9612
3	0.7913	1.4946	2.8229
4	0.4162	0.7861	1.4847
5	0.0697	0.1317	0.2487

ETENDUE ET POSITION RELATIVE DES INTERVALLES



COORDONNEES DES VARIABLES SUR LES AXES 1 A 3

VARIABLES	COORDONNEES					CORRELATIONS VARIABLE-FACTEUR					ANCIENS AXES UNITAIRES				
IDEN - LIBELLE COURT	1	2	3	0	0	1	2	3	0	0	1	2	3	0	0
VARIABLES ACTIVES															
V001 - CA	-0.56	-0.63	-0.50	0.00	0.00	-0.56	-0.63	-0.50	0.00	0.00	-0.36	-0.44	-0.41	0.00	0.00
V002 - ACTIF	-0.62	-0.44	-0.63	0.00	0.00	-0.62	-0.44	-0.63	0.00	0.00	-0.40	-0.31	-0.51	0.00	0.00
V003 - RN/CA	0.47	-0.42	-0.05	0.00	0.00	0.47	-0.42	-0.05	0.00	0.00	0.31	-0.29	-0.04	0.00	0.00
V004 - CA/ACTIF	0.40	-0.77	0.28	0.00	0.00	0.40	-0.77	0.28	0.00	0.00	0.26	-0.53	0.23	0.00	0.00
V005 - DIMT/ACT	-0.77	-0.23	0.54	0.00	0.00	-0.77	-0.23	0.54	0.00	0.00	-0.50	-0.16	0.44	0.00	0.00
V006 - DIMT/CP	-0.66	-0.19	0.67	0.00	0.00	-0.66	-0.19	0.67	0.00	0.00	-0.42	-0.13	0.55	0.00	0.00
V007 - RN/CP	0.54	-0.80	0.18	0.00	0.00	0.54	-0.80	0.18	0.00	0.00	0.35	-0.55	0.15	0.00	0.00

FIN DE LA PROCEDURE ** COPRI **
Analyse en composantes principales

ANNEXE n° 53

LES STRATEGIES SPECIFIQUES 1970-1985

LES RESULTATS STATISTIQUES DE LA C.A.H.

CLASSIFICATION ASCENDANTE HIERARCHIQUE : DESCRIPTION DES NOEUDS

NUM.	AINE	BENJ	EFF.	POIDS	INDICE	HISTOGRAMME DES INDICES DE NIVEAU
21	13	14	2	2.00	0.00094	*
22	7	11	2	2.00	0.00112	*
23	12	3	2	2.00	0.00204	*
24	18	5	2	2.00	0.00573	*
25	23	1	3	3.00	0.00621	*
26	21	6	3	3.00	0.00630	*
27	26	19	4	4.00	0.00903	*
28	24	8	3	3.00	0.01379	*
29	27	22	6	6.00	0.01440	*
30	10	17	2	2.00	0.02178	*
31	2	28	4	4.00	0.03339	**
32	15	25	4	4.00	0.03914	**
33	4	30	3	3.00	0.09383	****
34	31	32	8	8.00	0.13927	******
35	29	34	14	14.00	0.15119	*******
36	33	20	4	4.00	0.17496	********
37	9	36	5	5.00	1.52408	**********
38	16	35	15	15.00	1.82815	**********
39	37	38	20	20.00	1.92786	**********

SOMME DES INDICES DE NIVEAU = 5.99320

NOUVEL ORDRE DES INDIVIDUS : NOUVEAU NUMERO ET IDENTIFICATEUR D'ORIGINE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SASI	PAMA	CEEC	ARCA	LUPE	PRPA	FOCH	SABO	THER	CICI	SCMI	HAPU	FOFO	COEC	JBSO	NIMO	MIFE	SEPR	ALLY	RACH

DESCRIPTION DES NOEUDS DE LA HIERARCHIE. (INDICES EN POUCENTAGE DE LA SOMME DES INDICES : 5.99320)

NOEUD		SUCCESSEURS				COMPOSITION	
NUMERO	INDICE	AINE	BENJ	EFFECT.	POIDS	PREMIER	DERNIER
21	0.02	14	13	2	2.00	13	14
22	0.02	10	9	2	2.00	9	10
23	0.03	3	2	2	2.00	2	3
24	0.10	7	6	2	2.00	6	7
25	0.10	23	1	3	3.00	1	3
26	0.11	21	12	3	3.00	12	14
27	0.15	26	11	4	4.00	11	14
28	0.23	24	5	3	3.00	5	7
29	0.24	27	22	6	6.00	9	14
30	0.36	18	17	2	2.00	17	18
31	0.56	8	28	4	4.00	5	8
32	0.65	4	25	4	4.00	1	4
33	1.57	19	30	3	3.00	17	19
34	2.32	31	32	8	8.00	1	8
35	2.52	29	34	14	14.00	1	14
36	2.92	33	16	4	4.00	16	19
37	25.43	20	36	5	5.00	16	20
38	30.50	15	35	15	15.00	1	15
39	32.17	37	38	20	20.00	1	20

```
RANG  IND. IDEN  DENDROGRAMME (INDICES EN POURCENTAGE DE LA SOMME DES INDICES :   5.99320   MIN =  0.02% / MAX = 32.17%)

   1  0.10 SASI  --+
   2  0.03 PAMA  --*
   3  0.65 CEEC  --*-+
   4  2.32 ARCA  ----*----+
   5  0.23 LUPE  --+      !
   6  0.10 PRPA  --*      !
   7  0.56 FOCH  --*+     !
   8  2.52 SABO  ---*-----*+
   9  0.02 THER  --+       !
  10  0.24 CICI  --*       !
  11  0.15 SCMI  --*       !
  12  0.11 HAPU  --*       !
  13  0.02 FOFO  --*       !
  14 30.50 COEC  --*-------*-------------------------------------------------------------------------------------+
  15 32.17 JBSO  ---------------------------------------------------------------------------------------------*----+
  16  2.92 NIMO  -----------+                                                                                      !
  17  0.36 MIFE  ---+       !                                                                                      !
  18  1.57 SEPR  ---*---+   !                                                                                      !
  19 25.43 ALLY  -------*---*-------------------------------------------------------------------+                   !
  20 ----- RACH  ---------------------------------------------------------------------------------*-----------------*
```

FIN DE LA PROCEDURE ** RECIP **
Arbre hiérarchique

---------- SPAD.N - MODIFICATION DE PARAMETRES ----------

NGRO='Macintosh HD:SPADN:anaco.NGRO.test'

ANNEXE n° 54

LES STRATEGIES SPECIFIQUES 1970-1985

LA PARTITION RETENUE EN 4 CLASSES

COUPURE 'b' DE L'ARBRE EN 4 CLASSES

DESCRIPTION SOMMAIRE

CLASSE	EFFECTIF	POIDS	CONTENU
bb1b	14	14.00	1 A 14
bb2b	1	1.00	15 A 15
bb3b	4	4.00	16 A 19
bb4b	1	1.00	20 A 20

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 3

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
COUPURE 'b' DE L'ARBRE EN 4 CLASSES													
bb1b - CLASSE 1 / 4	14	14.00	0.76	0.54	0.59	-0.35	0.00	0.00	2.31	2.72	-1.89	0.00	0.00
bb2b - CLASSE 2 / 4	1	1.00	35.55	3.34	-4.83	1.06	0.00	0.00	2.15	-3.33	0.86	0.00	0.00
bb3b - CLASSE 3 / 4	4	4.00	5.94	-1.67	-0.17	1.76	0.00	0.00	-2.35	-0.26	3.15	0.00	0.00
bb4b - CLASSE 4 / 4	1	1.00	35.62	-4.17	-2.77	-3.25	0.00	0.00	-2.69	-1.91	-2.66	0.00	0.00

CONSOLIDATION DE LA PARTITION AUTOUR DES 4 CENTRES DE CLASSES,
REALISEE PAR 10 ITERATIONS A CENTRES MOBILES

PROGRESSION DE L'INERTIE INTER-CLASSES

ITERATION	I.TOTALE	I.INTER	QUOTIENT
0	5.993201	5.280087	0.8810
1	5.993201	5.280087	0.8810
2	5.993201	5.280087	0.8810

ARRET APRES L'ITERATION 2 : L'ACCROISSEMENT DE L'INERTIE INTER-CLASSES
PAR RAPPORT A L'ITERATION PRECEDENTE N'EST QUE DE 0.000 %.

DECOMPOSITION DE L'INERTIE CALCULEE SUR 3 AXES

	INERTIES		EFFECTIFS		POIDS		DISTANCES	
	AVANT	APRES	AVANT	APRES	AVANT	APRES	AVANT	APRES
INERTIE INTER-CLASSES	5.2801	5.2801						
INERTIES INTRA-CLASSE								
CLASSE 1 / 4	0.4225	0.4225	14	14	14.00	14.00	0.7606	0.7606
CLASSE 2 / 4	0.0000	0.0000	1	1	1.00	1.00	35.5538	35.5538
CLASSE 3 / 4	0.2906	0.2906	4	4	4.00	4.00	5.9449	5.9449
CLASSE 4 / 4	0.0000	0.0000	1	1	1.00	1.00	35.6198	35.6198
INERTIE TOTALE	5.9932	5.9932						

QUOTIENT (INERTIE INTER / INERTIE TOTALE) : AVANT ... 0.8810
APRES ... 0.8810

COORDONNEES ET VALEURS-TEST SUR LES AXES 1 A 3

CLASSES				COORDONNEES					VALEURS-TEST				
IDEN - LIBELLE	EFFEC.	P.ABS	DISTO	1	2	3	0	0	1	2	3	0	0
COUPURE 'b' DE L'ARBRE EN 4 CLASSES													
bb1b - CLASSE 1 / 4	14	14.00	0.76	0.54	0.59	-0.35	0.00	0.00	2.31	2.72	-1.89	0.00	0.00
bb2b - CLASSE 2 / 4	1	1.00	35.55	3.34	-4.83	1.06	0.00	0.00	2.15	-3.33	0.86	0.00	0.00
bb3b - CLASSE 3 / 4	4	4.00	5.94	-1.67	-0.17	1.76	0.00	0.00	-2.35	-0.26	3.15	0.00	0.00
bb4b - CLASSE 4 / 4	1	1.00	35.62	-4.17	-2.77	-3.25	0.00	0.00	-2.69	-1.91	-2.66	0.00	0.00

COMPOSITION DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

----- CLASSE 1 / 4 -----

NIMO SABO PAMA PRPA HAPU CICI LUPE THER CEEC COEC FOFO ARCA FOCH SCMI

----- CLASSE 2 / 4 -----

JBSO

----- CLASSE 3 / 4 -----

ALLY SEPR MIFE NIMO

----- CLASSE 4 / 4 -----

RACH

POINTS LES PLUS PROCHES DU CENTRE DE GRAVITE

CLASSE 1/ 4 (EFFECTIF 14)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.12361	THER	2	0.16623	CICI	3	0.20462	CEEC
4	0.34371	SCMI	5	0.35775	FOFO			

CLASSE 2/ 4 (EFFECTIF 1)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.00000	JBSO						

CLASSE 3/ 4 (EFFECTIF 4)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.52360	MIFE	2	0.58580	SEPR	3	2.0777	ALLY
4	2.6244	NIMO						

CLASSE 4/ 4 (EFFECTIF 1)

rg	Distance	ident.	rg	Distance	ident.	rg	Distance	ident.
1	0.00000	RACH						

CARACTERISATION PAR LES CONTINUES
DES CLASSES OU MODALITES DE : COUPURE 'b' DE L'ARBRE EN 4 CLASSES

NUM.	LIBELLE	IDEN	MOYENNES CLASSE	MOYENNES GENERALE	ECARTS TYPES CLASSE	ECARTS TYPES GENERAL	V.TEST	PROBA
	CLASSE 1 / 4	bb1b		(POIDS = 14.00	EFFECTIF = 14)			
6.	DIMT/CP	V006	1.064	1.720	0.703	1.387	-3.15	0.001
5.	DIMT/ACT	V005	0.898	1.432	0.357	1.030	-3.46	0.000
	CLASSE 3 / 4	bb3b		(POIDS = 4.00	EFFECTIF = 4)			
6.	DIMT/CP	V006	4.045	1.720	0.919	1.387	3.65	0.000
5.	DIMT/ACT	V005	3.113	1.432	0.770	1.030	3.56	0.000

ANNEXE n° 55

La performance des offres publiques d'achat et d'échange pour les entreprises initiatrices (1970-1980)

RESULTATS STATISTIQUES

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V2	400.5000	419.5000	190.5000	-.256976	.7971991	-.256988	.7971898	20	20
V9	398.5000	421.5000	188.5000	-.311076	.7557448	-.311091	.7557337	20	20
V19	410.5000	409.5000	199.5000	-.013525	.9892090	-.013526	.9892085	20	20
V26	411.5000	408.5000	198.5000	-.040575	.9676349	-.040577	.9676334	20	20
V33	421.5000	398.5000	188.5000	-.311076	.7557448	-.311091	.7557337	20	20
V40	428.0000	392.0000	182.0000	-.486902	.6263313	-.486902	.6263314	20	20
V47	446.0000	374.0000	164.0000	-.973803	.3301616	-.973803	.3301616	20	20

N N+1

STATISTICA
NONPARAM
STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V3	391.5000	428.5000	181.5000	-.500427	.6167781	-.500450	.6167616	20	20
V10	403.5000	416.5000	193.5000	-.175826	.8604321	-.175834	.8604256	20	20
V20	439.5000	380.5000	170.5000	-.797978	.4248894	-.798015	.4248677	20	20
V27	401.5000	418.5000	191.5000	-.229926	.8181509	-.229937	.8181425	20	20
V34	426.5000	393.5000	183.5000	-.446326	.6553645	-.446347	.6553493	20	20
V41	413.5000	406.5000	196.5000	-.094675	.9245733	-.094680	.9245698	20	20
V48	417.5000	402.5000	192.5000	-.202876	.8392335	-.202885	.8392261	20	20

N+1 N+2

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V4	329.5000	336.5000	158.5000	-.110735	.9118271	-.110742	.9118214	18	18
V11	338.5000	327.5000	156.5000	-.174012	.8618569	-.174023	.8618481	18	18
V21	331.5000	334.5000	160.5000	-.047458	.9621485	-.047461	.9621462	18	18
V28	328.5000	337.5000	157.5000	-.142374	.8867857	-.142383	.8867785	18	18
V35	327.5000	338.5000	156.5000	-.174012	.8618569	-.174023	.8618481	18	18
V42	324.5000	341.5000	153.5000	-.268928	.7879868	-.268945	.7879735	18	18
V49	322.5000	343.5000	151.5000	-.332205	.7397364	-.332227	.7397203	18	18

N+2 N+3

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V5	225.5000	239.5000	105.5000	-.290346	.7715530	-.290379	.7715284	15	15
V22	225.5000	239.5000	105.5000	-.290346	.7715530	-.290379	.7715284	15	15

N+3 N+4

Chiffre d'affaires et RN/CA

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V12	151.5000	148.5000	70.50000	-.086603	.9309880	-.086621	.9309730	12	12
V29	145.5000	154.5000	67.50000	-.259808	.7950138	-.259864	.7949703	12	12
V36	143.5000	156.5000	65.50000	-.375278	.7074565	-.375359	.7073958	12	12
V43	144.5000	155.5000	66.50000	-.317543	.7508339	-.317612	.7507815	12	12
V50	146.5000	153.5000	68.50000	-.202073	.8398612	-.202117	.8398269	12	12

N+3 N+4

autres ratios

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V6	236.5000	228.5000	108.5000	-.165912	.8682270	-.165931	.8682125	15	15
V23	240.5000	224.5000	104.5000	-.331825	.7400239	-.331861	.7399960	15	15

N+4 N+5

Chiffre d'affaires et RN/CA

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V13	128.5000	124.5000	58.50000	-.131330	.8955151	-.131367	.8954858	11	11
V30	124.5000	128.5000	58.50000	-.131330	.8955151	-.131367	.8954858	11	11
V37	130.5000	122.5000	56.50000	-.262660	.7928143	-.262734	.7927571	11	11
V44	122.5000	130.5000	56.50000	-.262660	.7928143	-.262734	.7927571	11	11
V51	116.5000	136.5000	50.50000	-.656650	.5114107	-.656836	.5112914	11	11

N+4 N+5

Autres ratios

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V2	218.0000	247.0000	98.00000	-.601432	.5475566	-.601432	.5475566	15	15
V19	254.5000	210.5000	90.50000	-.912517	.3615032	-.912619	.3614499	15	15

N N+5

Chiffre d'affaires et RN/CA

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V9	121.0000	132.0000	55.00000	-.36116	.717984	-.36116	.717984	11	11
V26	124.0000	129.0000	58.00000	-.16416	.869604	-.16416	.869604	11	11
V33	144.0000	109.0000	43.00000	-1.14914	.250508	-1.14914	.250508	11	11
V40	132.0000	121.0000	55.00000	-.36116	.717984	-.36116	.717984	11	11
V47	126.5000	126.5000	60.50000	.00000	1.000000	.00000	1.000000	11	11

N N+5

Autres ratios

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	212.0000	253.0000	92.0000	-.850300	.3951645	-.850300	.3951645	15	15
V18	242.5000	222.5000	102.5000	-.414781	.6783053	-.414827	.6782715	15	15

N-1 N+5

Chiffre d'affaires et RN/CA

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V8	113.0000	140.0000	47.00000	-.886478	.3753669	-.886478	.3753669	11	11
V25	128.0000	125.0000	59.00000	-.098498	.9215379	-.098498	.9215379	11	11
V32	135.0000	118.0000	52.00000	-.558153	.5767441	-.558153	.5767441	11	11
V39	131.0000	122.0000	56.00000	-.295493	.7676196	-.295493	.7676196	11	11
V46	134.5000	118.5000	52.50000	-.525320	.5993644	-.525468	.5992612	11	11

N-1 N+5

Autres ratios

ANNEXE n° 56

La performance des offres publiques d'achat et d'échange pour les entreprises cibles (1970-1985)

RESULTATS STATISTIQUES

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	1841.000	1900.000	895.0000	-.25479	.7988859	-.25479	.7988859	43	43
V4	1847.000	1894.000	901.0000	-.20297	.8391603	-.20297	.8391603	43	43
V11	1729.000	2012.000	783.0000	-1.22213	.2216658	-1.22213	.2216658	43	43
V14	1840.000	1901.000	894.0000	-.26343	.7922222	-.26343	.7922222	43	43
V17	1813.000	1928.000	867.0000	-.49663	.6194555	-.49667	.6194224	43	43
V20	1795.000	1946.000	849.0000	-.65209	.5143459	-.65215	.5143062	43	43
V23	1620.000	2121.000	674.0000	-2.16357	.0305050	-2.16357	.0305050	43	43

N N+1

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V2	1848.000	1893.000	902.0000	-.19433	.8459169	-.19433	.8459169	43	43
V5	1842.000	1899.000	896.0000	-.24615	.8055644	-.24615	.8055644	43	43
V12	2009.000	1732.000	786.0000	-1.19622	.2316182	-1.19622	.2316182	43	43
V15	1864.000	1877.000	918.0000	-.05614	.9552302	-.05614	.9552302	43	43
V18	1939.000	1802.000	856.0000	-.59163	.5540999	-.59166	.5540812	43	43
V21	1894.000	1847.000	901.0000	-.20297	.8391603	-.20298	.8391528	43	43
V24	1975.000	1766.000	820.0000	-.90257	.3667632	-.90257	.3667632	43	43

N+1 N+2

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V3	1359.000	1416.000	656.0000	-.30811	.7580021	-.30811	.7580021	37	37
V9	1399.000	1376.000	673.0000	-.12432	.9010593	-.12432	.9010593	37	37
V19	1543.000	1232.000	529.0000	-1.68108	.0927569	-1.68108	.0927569	37	37
V25	1338.000	1437.000	635.0000	-.53514	.5925601	-.53514	.5925601	37	37
V31	1439.000	1336.000	633.0000	-.55676	.5776975	-.55677	.5776863	37	37
V37	1462.000	1313.000	610.0000	-.80541	.4205918	-.80543	.4205780	37	37
V43	1525.000	1250.000	547.0000	-1.48649	.1371604	-1.48649	.1371604	37	37

N+2 N+3

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V4	1249.000	1236.000	606.0000	-.076350	.9391415	-.076350	.9391415	35	35
V20	1238.000	1247.000	608.0000	-.052857	.9578458	-.052857	.9578458	35	35

N+3 N+4

Chiffre d'affaires et RN/CA

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V10	983.0000	970.0000	474.0000	-.091511	.9270874	-.091511	.9270874	31	31
V26	978.0000	975.0000	479.0000	-.021118	.9831518	-.021118	.9831518	31	31
V32	978.5000	974.5000	478.5000	-.028157	.9775370	-.028158	.9775367	31	31
V38	979.5000	973.5000	477.5000	-.042236	.9663110	-.042236	.9663106	31	31
V44	958.0000	995.0000	462.0000	-.260454	.7945156	-.260454	.7945156	31	31

N+3 N+4

Autres ratios

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V5	1042.000	1038.000	510.0000	-.026854	.9785761	-.026854	.9785761	32	32
V21	1036.000	1044.000	508.0000	-.053709	.9571676	-.053709	.9571676	32	32

N+4 N+5

Chiffre d'affaires et RN/CA

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V11	672.0000	706.0000	321.0000	-.311120	.7557112	-.311120	.7557112	26	26
V27	723.0000	655.0000	304.0000	-.622240	.5337882	-.622240	.5337882	26	26
V33	648.0000	730.0000	297.0000	-.750349	.4530502	-.750349	.4530502	26	26
V39	645.0000	733.0000	294.0000	-.805252	.4206800	-.805252	.4206800	26	26
V45	742.0000	636.0000	285.0000	-.969963	.3320723	-.969963	.3320723	26	26

N+4 N+5 Autres ratios

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V1	1005.000	1075.000	477.0000	-.469950	.6383936	-.469950	.6383936	32	32
V17	1110.000	970.000	442.0000	-.939901	.3472756	-.939901	.3472756	32	32

N+1 N+5

Chiffre d'affaires et RN/CA

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V7	676.0000	702.0000	325.0000	-.237915	.8119482	-.237915	.8119482	26	26
V23	675.0000	703.0000	324.0000	-.256217	.7977852	-.256217	.7977852	26	26
V29	704.0000	674.0000	323.0000	-.274518	.7836884	-.274524	.7836840	26	26
V35	700.0000	678.0000	327.0000	-.201313	.8404551	-.201317	.8404517	26	26
V41	720.0000	658.0000	307.0000	-.567337	.5704893	-.567337	.5704893	26	26

N+1 N+5

Autres ratios

STATISTICA NONPARAM STATS

MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted	p-level	Valid N Group 1	Valid N Group 2
V6	725.0000	653.0000	302.0000	-.658843	.5100014	-.658843	.5100014	26	26
V12	699.0000	679.0000	328.0000	-.183012	.8547899	-.183012	.8547899	26	26
V22	676.0000	702.0000	325.0000	-.237915	.8119482	-.237915	.8119482	26	26
V28	726.0000	652.0000	301.0000	-.677144	.4983195	-.677144	.4983195	26	26
V34	665.0000	713.0000	314.0000	-.439229	.6604989	-.439266	.6604717	26	26
V40	688.0000	690.0000	337.0000	-.018301	.9853987	-.018303	.9853975	26	26
V46	683.0000	695.0000	332.0000	-.109807	.9125630	-.109807	.9125630	26	26

N+5 N-1

ANNEXE n° 57

L'efficacité des raisons spécifiques (entreprises cibles 1970-1985)

RESULTATS STATISTIQUES

N+2 / N-

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable CLASSE
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V3	56.00000	49.00000	21.00000	-.44721	.6547239	-.44721
V6	50.00000	55.00000	22.00000	-.31944	.7493963	-.31944
V13	49.00000	56.00000	21.00000	-.44721	.6547239	-.44721
V16	57.00000	48.00000	20.00000	-.57499	.5653028	-.57499
V19	43.00000	62.00000	15.00000	-1.21387	.2248080	-1.21387
V22	43.00000	62.00000	15.00000	-1.21387	.2248080	-1.21387
V25	54.00000	51.00000	23.00000	-.19166	.8480074	-.19166

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable CLASSE
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V3	.6547239	7	7
V6	.7493963	7	7
V13	.6547239	7	7
V16	.5653028	7	7
V19	.2248080	7	7
V22	.2248080	7	7
V25	.8480074	7	7

Classe 1

N+2 / N-1

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable CLASSE Group 1: 1		Group 2: 2			
variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V3	1258.000	1088.000	493.0000	-1.04257	.2971544	-1.04257
V6	1237.000	1109.000	514.0000	-.78500	.4324621	-.78500
V13	1192.000	1154.000	559.0000	-.23305	.8157275	-.23305
V16	1237.000	1109.000	514.0000	-.78500	.4324621	-.78500
V19	1168.000	1178.000	573.0000	-.06133	.9510986	-.06134
V22	1217.000	1129.000	534.0000	-.53968	.5894185	-.53979
V25	1246.000	1100.000	505.0000	-.89539	.3705878	-.89539

STATISTICA NONPARAM STATS	MANN-WHITNEY U TEST By variable CLASSE Group 1: 1		Group 2: 2	
variable	p-level	Valid N Group 1	Valid N Group 2	
V3	.2971544	34	34	
V6	.4324621	34	34	
V13	.8157275	34	34	
V16	.4324621	34	34	
V19	.9510893	34	34	
V22	.5893474	34	34	
V25	.3705878	34	34	

Classe 3

N+5 / N-1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	27.00000	28.00000	12.00000	-.104447	.9168156	-.104447
V2	30.00000	25.00000	10.00000	-.522233	.6015117	-.522233
V3	27.00000	28.00000	12.00000	-.104447	.9168156	-.104447
V4	26.00000	29.00000	11.00000	-.313340	.7540246	-.313340
V5	23.00000	32.00000	8.00000	-.940019	.3472147	-.940019
V6	23.00000	32.00000	8.00000	-.940019	.3472147	-.940019
V7	29.00000	26.00000	11.00000	-.313340	.7540246	-.313340

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.9168156	5	5
V2	.6015118	5	5
V3	.9168156	5	5
V4	.7540246	5	5
V5	.3472147	5	5
V6	.3472147	5	5
V7	.7540246	5	5

Classe 1

N+5 / N-1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V1	403.0000	338.0000	148.0000	-.948829	.3427146	-.948829
V2	386.0000	355.0000	165.0000	-.452519	.6508985	-.452519
V3	340.0000	401.0000	150.0000	-.890440	.3732365	-.890440
V4	398.0000	343.0000	153.0000	-.802855	.4220642	-.802856
V5	377.0000	364.0000	174.0000	-.189766	.8494939	-.189807
V6	379.0000	362.0000	172.0000	-.248155	.8040158	-.248210
V7	350.0000	391.0000	160.0000	-.598492	.5495157	-.598492

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V1	.3427146	19	19
V2	.6508985	19	19
V3	.3732365	19	19
V4	.4220642	19	19
V5	.8494613	19	19
V6	.8039738	19	19
V7	.5495157	19	19

Classe 3

ANNEXE n° 58

L'efficacité des motivations explicites (entreprises cibles 1970-1985)

RESULTATS STATISTIQUES

N+5 / N-1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V6	104.0000	106.0000	49.00000	-.075593	.9397435	-.075593
V12	99.0000	111.0000	44.00000	-.453557	.6501505	-.453557
V22	107.0000	103.0000	48.00000	-.151186	.8798301	-.151186
V28	109.0000	101.0000	46.00000	-.302372	.7623708	-.302372
V34	94.0000	116.0000	39.00000	-.831522	.4056851	-.831522
V40	97.0000	113.0000	42.00000	-.604743	.5453539	-.604743
V46	106.0000	104.0000	49.00000	-.075593	.9397435	-.075593

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V6	.9397435	10	10
V12	.6501505	10	10
V22	.8798301	10	10
V28	.7623708	10	10
V34	.4056851	10	10
V40	.5453539	10	10
V46	.9397435	10	10

Classe 1

N+5 / N-1

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	Rank Sum Group 1	Rank Sum Group 2	U	Z	p-level	Z adjusted
V6	141.0000	112.0000	46.00000	-.952143	.3410318	-.952143
V12	136.0000	117.0000	51.00000	-.623818	.5327519	-.623818
V22	116.0000	137.0000	50.00000	-.689483	.4905246	-.689483
V28	137.0000	116.0000	50.00000	-.689483	.4905246	-.689483
V34	118.0000	135.0000	52.00000	-.558153	.5767441	-.558153
V40	127.0000	126.0000	60.00000	-.032833	.9738083	-.032833
V46	118.0000	135.0000	52.00000	-.558153	.5767441	-.558153

STATISTICA NONPARAM STATS — MANN-WHITNEY U TEST
By variable V0
Group 1: 1 Group 2: 2

variable	p-level	Valid N Group 1	Valid N Group 2
V6	.3410318	11	11
V12	.5327519	11	11
V22	.4905246	11	11
V28	.4905246	11	11
V34	.5767441	11	11
V40	.9738083	11	11
V46	.5767441	11	11

MOTIVATIONS ET EFFICACITE DES OFFRES PUBLIQUES D'ACHAT ET D'ECHANGE EN FRANCE DE 1970 à 1990

Thèse présentée et soutenue en vue du Doctorat Nouveau Régime ès Sciences de Gestion par

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le 5 Janvier 1994

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Equipe de recherche : ERESTRATE - I.A.E. de Nancy II

RESUME

La thèse est consacrée à l'étude des motifs et de l'efficacité des OPA/E en France de 1970 à 1990 et se situe à l'interface de deux domaines : la stratégie et la finance. Elle comprend trois parties :

— la recension des connaissances sur le sujet dont il ressort une faiblesse de la recherche française ;

— la présentation de la démarche et des choix méthodologiques. L'ensemble de la recherche s'inscrit dans le cadre d'un processus inductif et exploratoire cohérent avec une problématique complexe de la décision stratégique d'offre publique.

— les résultats de la recherche sont scindés en deux parties : les motivations et l'efficacité des OPA. L'analyse des motivations (pré-OPA) distingue les motivations explicites (232 opérations analysées) et implicites (140 entreprises analysées) et met en évidence la cohérence des motivations ainsi que le rôle instrumental des OPA pour la mise en œuvre de la stratégie des entreprises. L'analyse de l'efficacité (post-OPA) conclut à une absence d'efficacité des OPA pour des raisons essentiellement liées au processus d'intégration.

ABSTRACT

The thesis is devoted to the study of takeovers' motives and effectiveness in France between 1970 and 1990, and, is at the meeting point of the research fields of strategy and finance. It contains three main parts :

— the state of the art on the subject wich stresses the weakness of french research ;

— the presentation of processes and methodological choices. The research comes within the scope of an empirical, inductive and exploratory process consistent with a strategic decision-making problematics.

— the empirical study results are divided in two parts : motives and effectiveness. The analysis of motives distinguishes explicit motives (232 takeovers) and implicit motives (140 companies), it underscores the motives consistency and the instrumental function of takeovers for strategy. The analysis of effectiveness concludes that takeovers lack of effectiveness can be explained by integration process problems.

Mots-clés : Stratégie, finance, marché financier, théorie de l'efficience, théorie de l'agence, théorie du free cash flow, décision stratégique, complexité, performances, efficacité, motivations, motivations explicites, motivations implicites, OPA, OPE, environnement, actionnaires, entreprises françaises, croissance externe, analyse lexicale.

Key-words : Strategy, finance, financial market, efficiency theory, agency theory, free cash flow theory, strategic decision, complexity, performance, effectiveness, motives, explicit motives, implicit motives, takeover, environment, stockholder, french companies, external growth, lexical analysis.