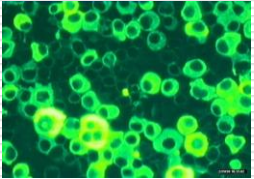


Content Curation to build and share Content Hubs for Knowledge Management and Information Literacies



Gilbert C Faure MD, PhD

Prof Emeritus

Immunologie

et CREM

Université Lorraine, Nancy, FRANCE

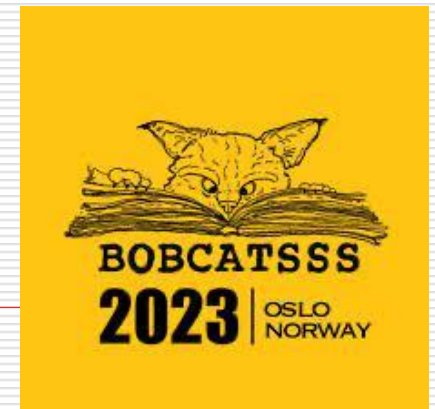
No conflict of interest to declare



After Riga, Paris

Bobcatsss 2023

Oslo, Norway



Objectives of the study



3 challenges for **medical students and medical teachers in 2022**

accessing relevant information and knowledge
teaching and learning to access knowledge
in other words, becoming and remaining
information and health literate



Compared to a doubling time of medical knowledge of 50 years in 1950, 7 years in 1980, and 3.5 years in 2010, the current doubling time is approximately 70 days.

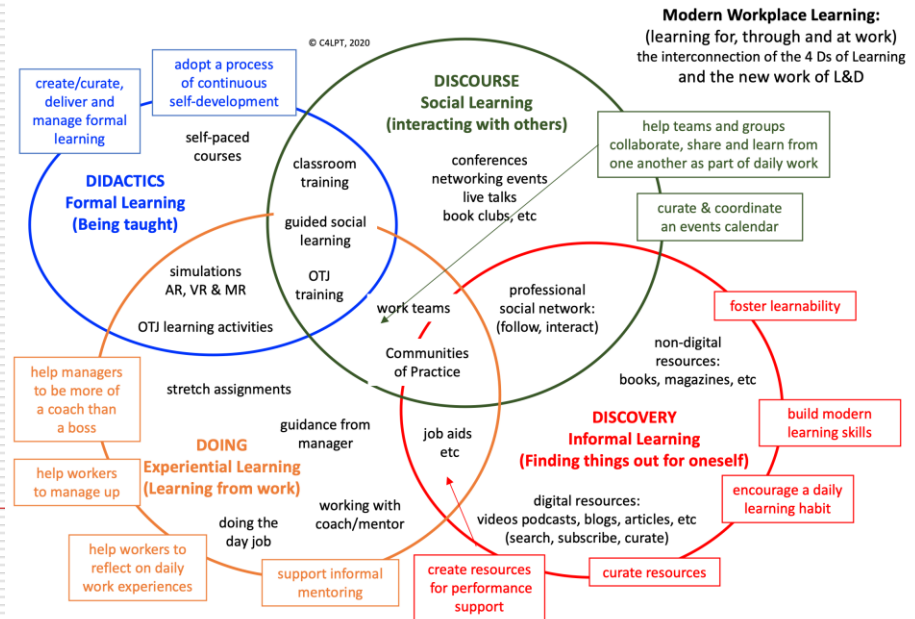
Collective knowledge and Investigative intelligence



Before: Libraries



Now: Internet / Infobesity



Thanks Sempé, Jane Hart

Is Content CURATION useful for Knowledge Management and metaliteracy?

A recent concept?

– Many tools: >50

- Pearltrees, Paper.li, Pinterest, TumbIR, Storify, Sharezy, Flipboard... Cronycle
- **Scoop.it**
 - A French/US Start-up
 - Various plans (Individual, Education, Business)



Scoop.it!

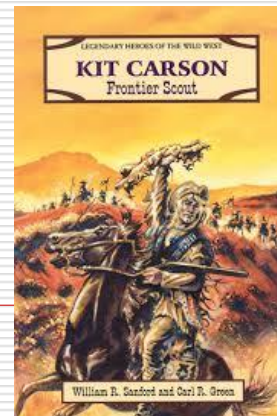


"A curator is an expert learner. Instead of dispensing knowledge, he creates spaces in which knowledge can be created, explored, and connected."

-George Siemens

Curator is:... gold-digger, DJ, Hunter-gatherer, Scout...

- Selection
 - Agregation, distillation,
- « Editorialisation », elevation
 - Commentaries
- Diffusion
 - Sharing



Methods

Research Action: **Open Knowledge Content curation (OKCC/C30)**

Personal and colleagues' networks experiences for Research, Teaching and Learning

Evaluation of topics from curators in Biology related fields

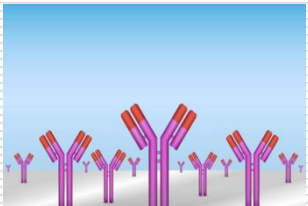
Other subjects mainly related to education

Immunology:

Topics covered by teachers (GCF et al.)



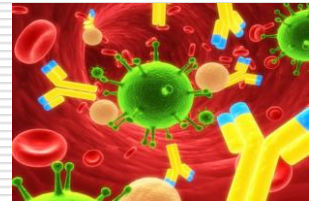
- Basic Science, Biotechnologies, BioTherapies
 - **Immunology (>7.7K scoops, >96K visitors, >126K views)**



From Flow Cytometry to Cytomics (>4.6K scoops, >15,3K visitors, >37,2K views)

Immunology and Biotherapies (>9,3K scoops, >14,8K visitors, >34,4K views)

- Mucosal Immunity (>4,9K scoops, >19,7 K views, >6,1 visitors)



- **Immuno-Pathology...**

- Auto-immunity, (>3,8K scoops, >15,3K views, >4,5K vis)
- Allergy and clinical immunology (>2,8K sc, >14,1K v, >4,3Kvis)
- Neuroimmunology (>2Ksc, >7,5Kv, >1,7K vis)
- History of Immunology (>1Ksc, >3,7Kv, >1,1Kvis)

And beyond...:

Fake news and vaccinations

A content Hub for « **vaccine literacy** »
of Health professionals and Medical
students

Social listening

> 1.5K selected posts

Since 1/2020 ...

<https://www.scoop.it/topic/assim-actualites>



Topics ... by other curators



Biology related

Virology <https://www.scoop.it/topic/virusworld>;

Entomology <https://www.scoop.it/topic/entomonews>;

Other Science Fields

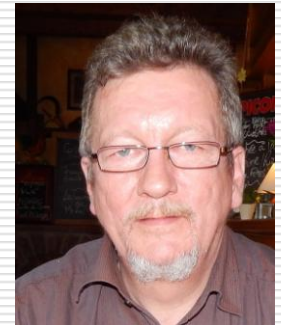
Geography <https://www.scoop.it/topic/geography-education>;



Education and Learning :

<https://www.scoop.it/topic/tools-for-learners>;

<https://www.scoop.it/topic/21st-century-learning-and-teaching>



Sino-french medical training program Nancy- Wuhan 2020: 危机

Covid-19: 23/1/2020




<https://www.scoop.it/topic/wuhan?page=6&tag=COVID-19>

Long Distance teaching and learning: classes 2015/6/7


Selected resources for homework

DIU: **Active learning** by students on
chosen topics building portfolio

**EPALE
COMMUNITY
STORIES**



“ The COVID-19 pandemic cancelled any scheduled face to face teaching sessions with the Nancy Faculty professors who were due to travel from France to China, as well as the scheduled local courses with a French professor teaching in Wuhan, who decided to stay in China while students were in lockdown with their families.
Gilbert Faure, France
Medical Doctor
and Professor of Immunology.”



UE Master 7.309

DIU Méthodologies de la recherche médicale et chirurgicales

Implementation of Scoop.it Content Curation tool for **active/hybrid learning** in a module on clinical research

50 students (medicine, maieutic) +10 chinese students
from Nancy Wuhan training program

Introductory course on Scientific Information

Access to Curated Resources by teachers

Open a medical topic of interest using Scoop.it free
plan (one topic, up to 50 posts)

Opinion and evaluation survey
after 3 months



Faculté
de **MÉDECINE**

DIU Méthodologies de la recherche
clinique médicale et chirurgicale

- 3 ECTS
 - Applications en recherche médicale
 - Hématologie-oncologie, Nutrition,
 - Pathologies du vieillissement (cardiovasculaire, artériel)
 - Pathologies inflammatoires aiguës et chroniques
- Applications en recherche chirurgicale
 - Chirurgie robotique, coelochirurgie, microchirurgie
 - Greffes et transplantations
- Applications dans les **biothérapies**
 - Thérapies cellulaires et génique
 - Thérapies moléculaires innovantes

Results

Knowledge management

Finding relevant information

Sharing information

Building **Content Hubs for communities of practice (CoPs)**

Retrieving information

Interests for

Teachers, Researchers, Medical Doctors,
Master and PhD students

Medical students



Finding information

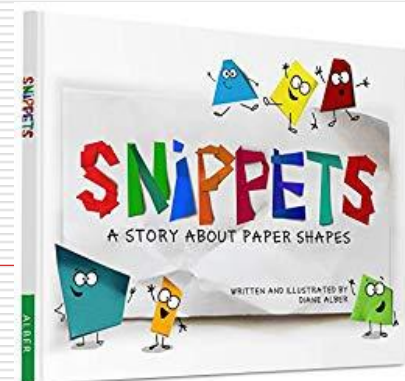
Either focused or serendipity



Building and enrichment of content hubs

with snippets of information

- **Classical info Research** (Pubmed, Google Scholar..)
- **Web « Crawling » of internet with Scoop.it** , personalized +++
- Sources: Published Journals, Websites, Blogs, Press releases, Social networks (Twitter, LinkedIn, Facebook..) Research social networks (Researchgate..)
- **Curating when browsing** (applet)
- **Shared scoops** (scoop.it network)
- **Creating scoops + publishing** (Slideshare)



Sharing and retrieving !

OPEN Webmagazine

Tagged, commented, discussed
Attractive (images)

Shared on other networks (Twitter, LinkedIn
(25) Facebook, Google+

Via e-mails, newsletters

Content Hub searchable



Benefits for teachers and researchers



- (1) **keeping abreast of information** scientific (and societal) for CPD and *e-learning*
- (2) Building **leadership** in specific areas
- (3) Joining specialists **networks and interest communities**



- (4) **Opening** new research fields (**serendipity**)
-

Benefits for research trainees

- (1) Building of research content hubs and **portfolios** (master and **PhD**)
- (2) Becoming **information literate, able** to surf the wave
 - (1) Resources, primary documents, databases, predatory journals, Open Access
 - (2) Foreign languages
- (3) for future **life- long learning** » in universities, research centres, industries...
 - (1) PLN « personal learning network »



Health and information literacies of medical students

Active learning

Discovery of

width of medical knowledge

information available for lay-people

communication with lay people

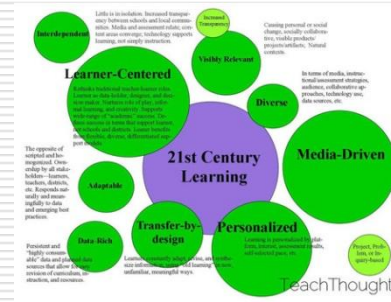
Interaction with professional networks

Understanding of fake news in health information

Self learning



Training Opportunities



New ways of learning: Flipped or **blended or hybrid**

Information and digital literacy : mastering information tools and techniques

Learning by reading and writing

Analysis (tags), summaries, comments

Stimulating **curiosity** in your research field and beyond



"Never lose a holy curiosity"
Albert Einstein



Overview

Context:

Collective knowledge

Infobesity

Information and Health Literacy

Curation: Tools... **Scoop.it**

Medical Immunology

Other curators, other topics

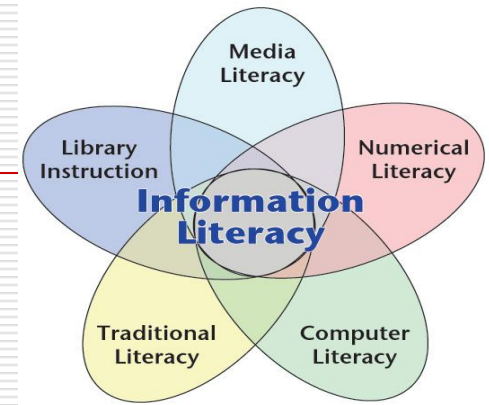
Research action projects

Open Knowledge management

Information literacies

Reading, Writing, Learning, and more

Advantages and challenges



Disclaimer once upon a time...



Europe SCICOM meetings

Paris MRES Comité stratégique IST

UHP Nancy 1 Chargé de mission DOC

AUF: ASSIM: maître toile

(<http://www.assim.refer.org>)

IUIS/ICSU with Michelle Letarte

Now: Emeritus, OKCC/C30

And Sino-French Medical Training programs (Wuhan
and Kunming)

<http://www.scoop.it/u/gilbertcfaure>

<https://fr2.slideshare.net/gcfaure>

No conflict of interest to declare



Content curation

Taking care of contents

Information and Knowledge

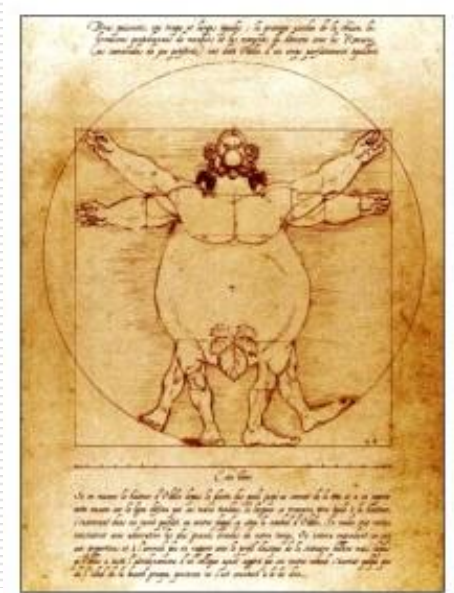
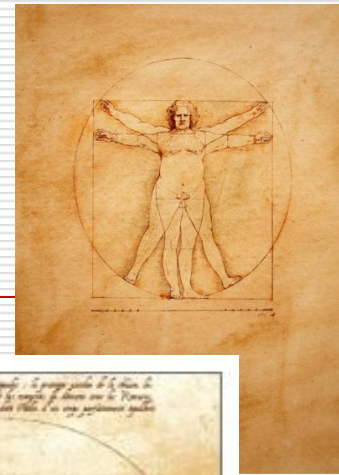
Accessing

Teaching and Learning

To be information literate

INFOBESITY

- « Trop d'information tue l'information... »
- **And knowledge**
 - Surinformation, Pollution informationnelle,
 - Harcèlement textuel
- **Publications ... hyperprolifics**
- **Social networks**
 - « Fake » news...



Curating information is

reading and writing

Title

Illustration

Summary

Comments

Tags: Keywords

Snippets or nuggets of information

THE ART of a **CURATED POST**

What should a piece of curated content look like?
Paint the perfect post by including these five elements . . .

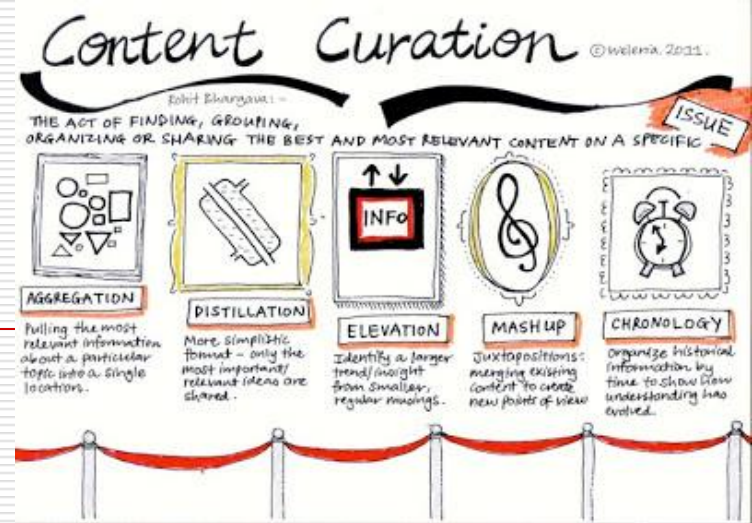
- 1 New Title**
Always create a headline that is different than the article you are curating.
- 2 New Image**
To add originality and avoid copyright issues, create a new image for your post.
- 3 Body Text**
Include a link to the original article, attribution of the author and your own commentary.
- 4 Quote**
Draw in an interesting and useful quote from the original article.
- 5 Call-to-action**
Provide readers with an additional resource to expand their knowledge on the topic.

Download our eBook today!

★ curata

If you use this graphic or framework, please cite and link to www.curata.com.

From Libfocus



Aggregation - compiling the most relevant information about a particular topic into a single location (this is the type of curation most people think of)

Distillation - simplifying information down to the key or essential ideas

Elevation - identifying a larger trend or 'the bigger picture' from individual posts, articles or details

Mash ups - merging and remixing existing content to create new ideas or perspectives

Chronology - organising information in a timeline to show the evolution of a subject, topic or idea

Topics covered by colleagues and trainees



- **By researchers and colleagues**

- M. de Carvalho Nancy Immune monitoring
- R.Creusot, Columbia NY USA Diabetes
- Complement JD Lambris, Philadelphia, Pa, USA



- **By students**

- *PhD students XW China ENT,*
- Master students from Nancy-Wuhan Training program :
Methodologies of medical clinical and surgical research
- 15 chinese + 20 french 2020
- 10 chinese +50 french 2021 students

Topics related to medicine and biology



Bonus points on activity (research, posts, comments, tags)

- Foreign language usage

Results



Diversity of topics (Alzheimer, Autoimmunity, Cancer, Cardiology, Gynecology, Grafts, HIV, Neurology... Phagotherapy)

At least 25 posts... up to full load (65%)

Medical (80%) Lay people resources

Keywords, Comments and summaries

Usage of English >60%

Plus

Knowledge base

Vu par le documentaliste

Vu par l'enseignant

Information literacy 5PMIS

Adding SMIL (Scientific and Media IL)

Online learning Connected Learning

Blended learning,

E-learning,

Self-learning

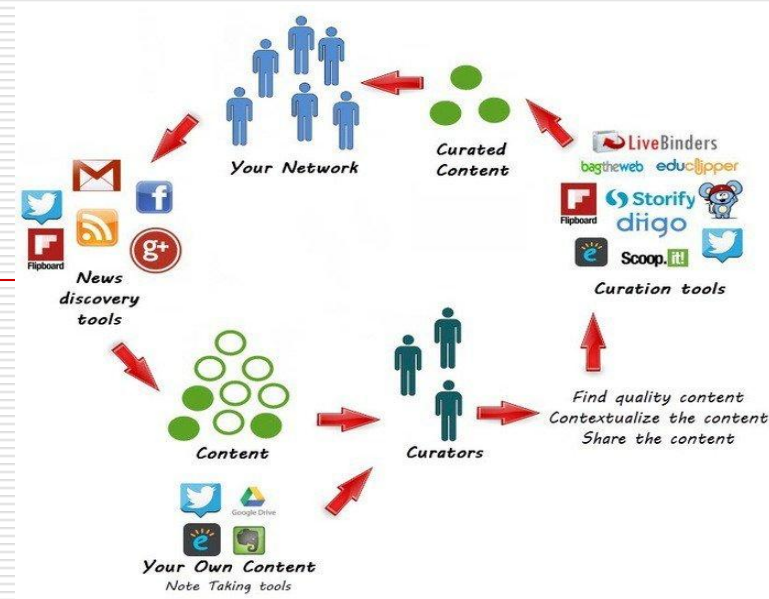
M-learning (micro-, mobile-)

Social learning

Invisible-, adaptative-

Reading and writing!

Digital Literacy, **Curiosity**



Summary



- In my experience, one of the best curation tools on the web for serious information
 - Crawling engine and enrichment capacities
- A virtual scientific news « journal » and database easy to browse with pictures
 - For information literacy and **curiosity**
 - Search engine inside is a major asset
- The **human factor of curation** is the **added value** compared to robots (SEO): selection, editorialism
- And *the limit*, requiring everyday work

Information Literacy (IL) in high education:

- **Society 2020**

- Multi-skilled learners
- Able to think critically
- Pose and solve problems
- Become independent and life long learners

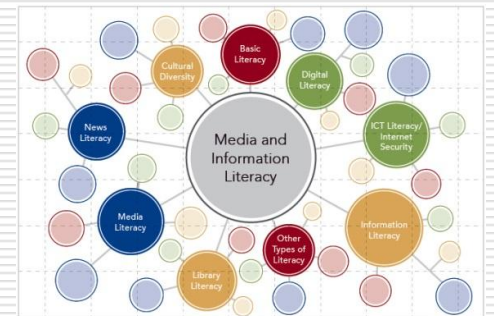
- **OCDE and UNESCO: (MIL) Media and Information Literacy**

Recognize needs of information!!

Localize information!

Select information

Organize information



Health Literacy

Challenges



Human factor of curation is added value
compared to algorithms: selection, editorialisation

But

Human dependency is the limit

Day to day duty of teachers, researchers like
« walking the dog »

**Individualism of teachers and
researchers: reluctance to share**



Permanence of tools

