Digital Curation as Learning Activity

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OUTLINE

- Space of Culture

- Cultural Trends of Information Society
    - Personal Identity Online (PIO)
    - Social Media (SM)
    - Data Intensive Science (DIS)

- Digital Curation - offspring of PIO, SM and DIS

- Our study. Curation tool. New learning environment
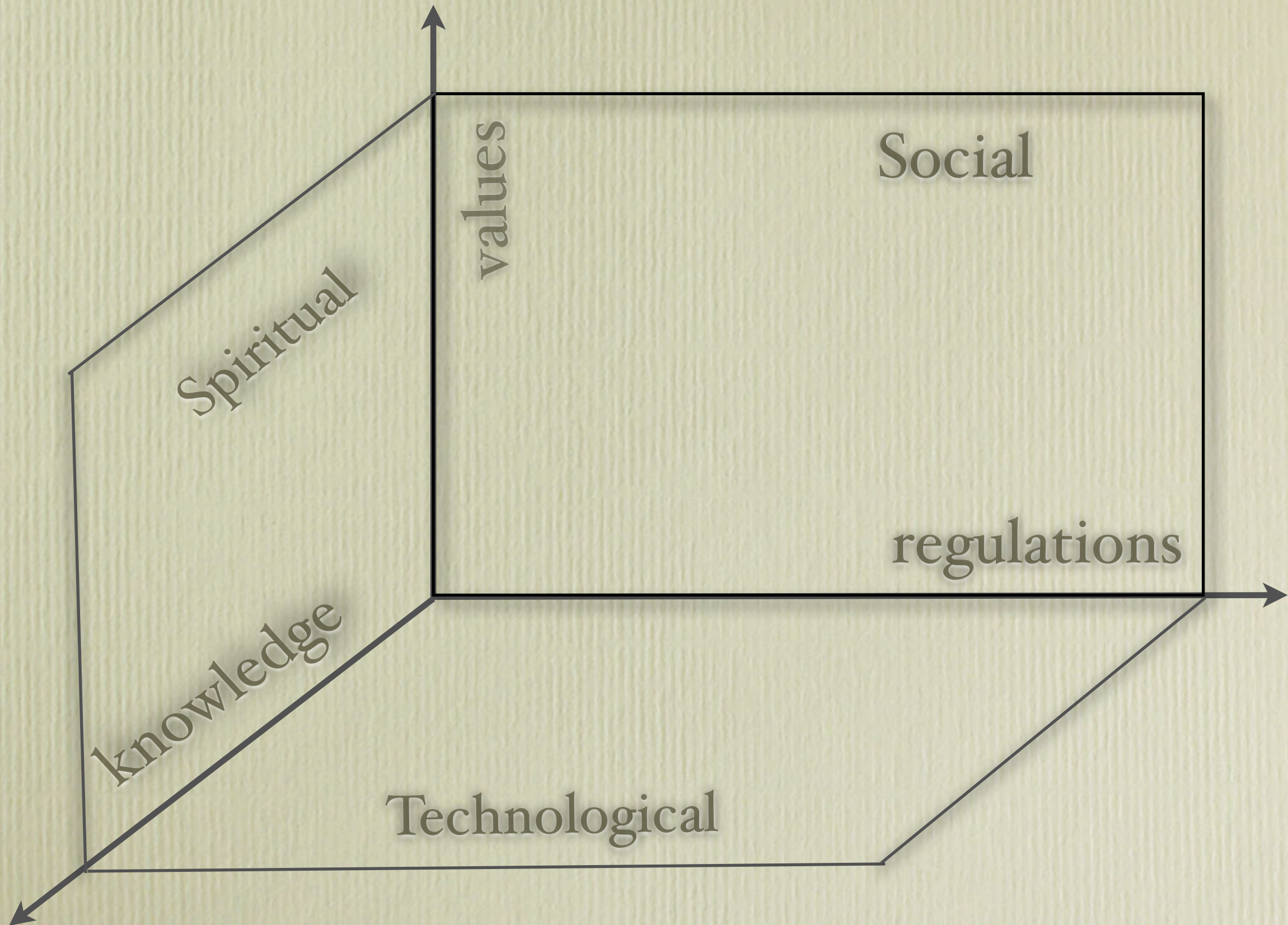
- Conclusions. Curation in PIO, SM and DIS space

Space of Culture

- Cognitive axis - knowledge

- Values axis - ideas
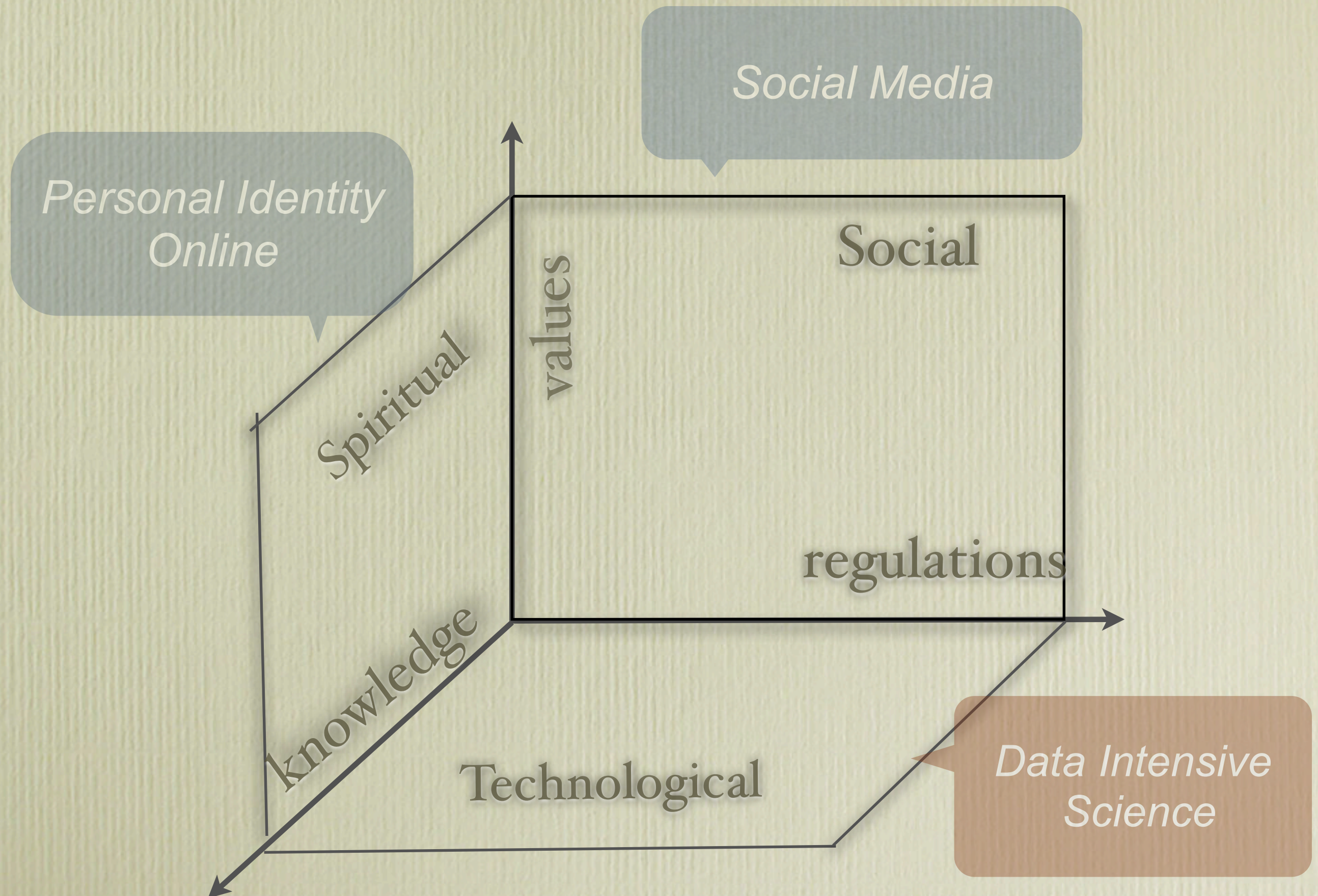
- Regulative axis - rules

Kinds of culture

values

Spiritual

Social

knowledge

regulations

Technological

Cultural Trends of Information Society

Definitions

	Neutral	Value-laden
Personal Identity Online	Ability of websites to distinguish one individual from another	Personal identity formed in cyberspace
Social Media	Use of Web applications supporting the creation of user-generated content	New way of forming social consciousness
Data - Intensive Science	Data growing faster then technology	Fourth paradigm of science

Personal Identity Online

- Infosphere

- Multi-personality

- Personality in Cyberspace

SOCIAL MEDIA

- Traditionally defined as a plurality of Web applications supporting the creating and exchange of user-generated content.

- We consider SM as a cultural phenomenon, enhancing interpersonal communication and changing the nature of relationship between an individual and a society.

DATA-INTENSIVE SCIENCE

the Fourth Paradigm of Science

- Empirical Science

- Theoretical Science

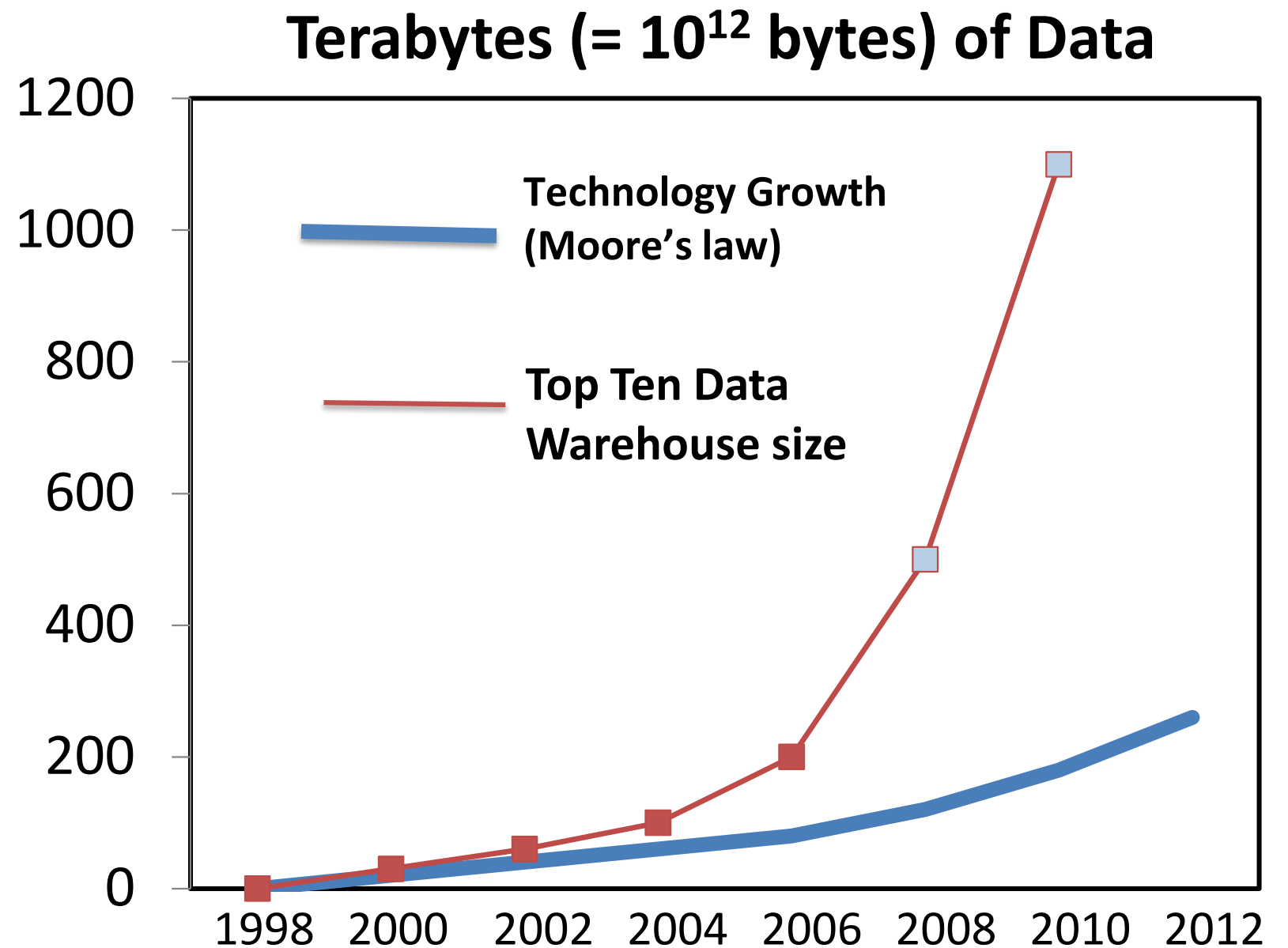- Computer based Science

- Data Intensive Science
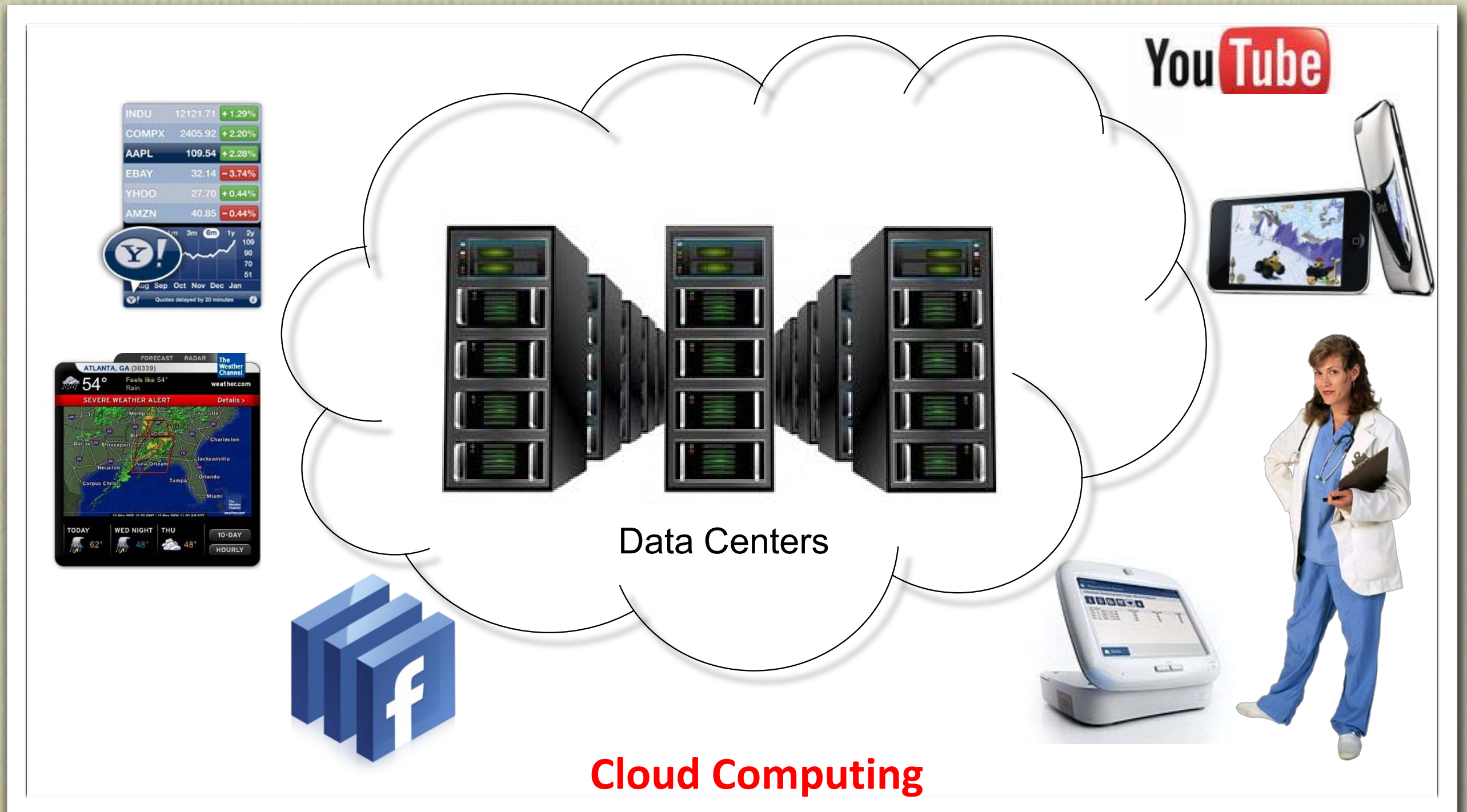
DATA-INTENSIVE COMPUTING
data growing faster then technology

- Commerce entirely data-driven

- Science handling massive data

- Companies spending $$$ to collect/analyze data

- Personalized computing

Terabytes (= 10^{12} bytes) of Data

Technology Growth (Moore's law)

Top Ten Data Warehouse size

All about accessing data

Data Centers

Cloud Computing

Digital Curation

Getting information off the Internet is like taking a drink from a fire hydrant.
Mitchell Kapor

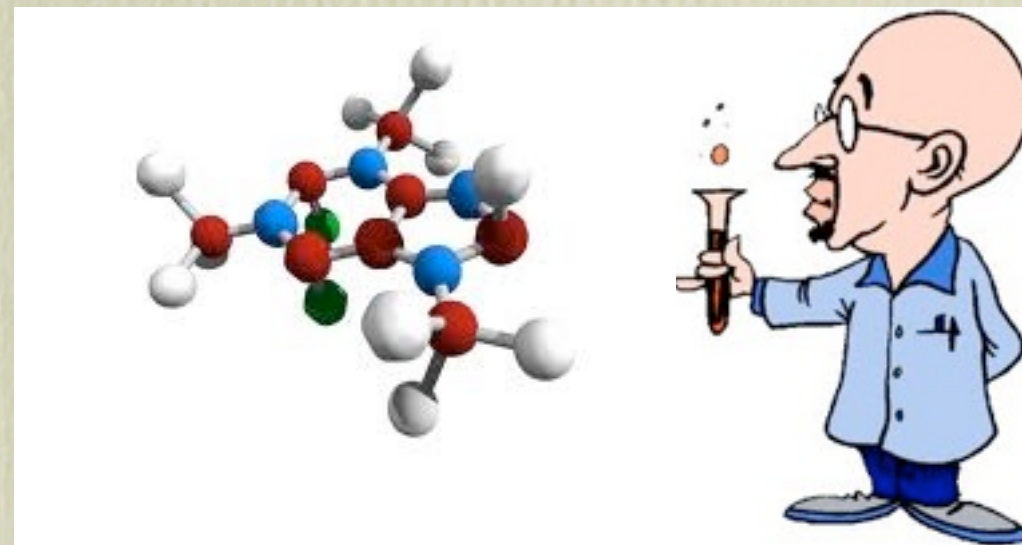# Digital Curation - offspring of PIO, SM and DIS

Selection, preservation, maintenance, collection and archiving of digital content

Curator

A curator is an information chemist. He mixes atoms together in a way to build an info-molecule. Then adds value to that molecule.

Scoble (2010)

Digital curation as a learning activity. Evolution of learning activities in class

- *In a traditional class*, the learning process goes: from observation - to forming the content, then to an oral and written statement of the content.

- *In the post-industrial class*, the process goes: from learning the material, web surfing, and searching, analysis and preservation of the content and, ultimately will lead to the curation.

Curation -
Personal Curriculum Development

- Personal Learning Environment

- Connected Micro-world

- Social Networking - personal media

- New kind of Personal Social Environment

- Advancement of constructionism

OUR STUDY

Participants: two groups of graduate students.

Group 1 (G1, n1=35) is a group of Science, Mathematics and Technology Education (M.A.) students, each participating in a research seminar.

Group 2 (G2, n2=14) is a group of Business and Management (M.B.A) students who were attending an advanced course.

The students of each group were requested to do their curations according to the original course's requirements

CURATION TOOL

Scoop (http://www.scoop.it/) was used as a curation tool by the students of both groups.

Students select, collect, tag, comment and share materials corresponding the chosen topic
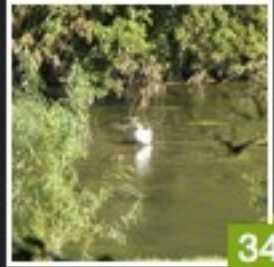
Scoop.*it!*

OUR STUDY

- Students of both groups received instructions about the curation in general and about using the Scoop in particular.

- Students were allowed to identify themselves in one of two ways:
a) by real names, or b) by nicknames.

- Students got instructions about requirements, such as: to diversify their resources, to use academic resources, to express their point of view while curating any item, to tag items, to use social tools, to share knowledge with others, etc.

Example

Personal Identity role in online learning

"role of the personal identity in the learning proces"

Curated by user1

34

| Filter ▲ | Suggest | ⚑ | 🔊 |

Type a keyword

Or select a Tag

Tag	#posts
cost	1
differentiation	1
ebook	1
education	1
iBook	1
individualization	1
iPad	1
learning	1
personalization	2
personalized environment	1
students	1
students at the center	1
teaching	1

30 Views ▲

Scoop.it Score	34
Visitors	20 (+2)
Created	Mar 14
Created by	user1
Updated	Jun 8
Posts	26
Followers	4
Reactions	4

OUR STUDY

The analysis of the students' curation activity was divided into three domains corresponding to:

- Personal Identity Online (PIO)
- Data Intensive Science (DIS)
- Social Media (SM)

Two Stages of Study

1. Analysis of participants' curation actions. Classification of students in accordance with their curation activities.

2. Observations of the class discussions and reports regarding the curation activity, in order to study students' beliefs about the curation process and about the change that occurred in their attitudes during their curation activity.
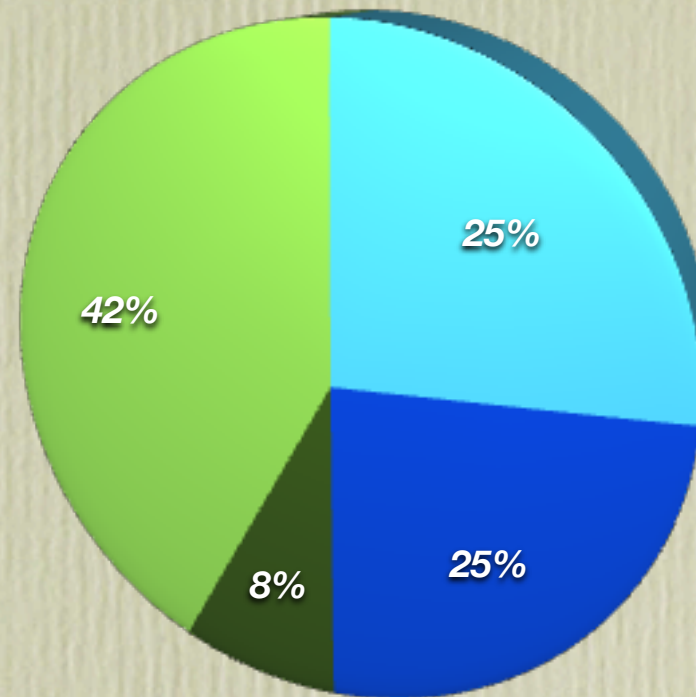
Personal Identity Online in Curation

Different types of behavior were realized during the study. Students can be divided into 4 groups in accordance with these types:

1. Students who prefer to use multiple resources and personalize the obtained content (8%).

2. Students prefers to use a limited number of resources and personalize the obtained content (42%).

3. Students used multiple resources of information, which was followed by the information socialization (25%).

4. Students used few resources of information, and put emphasis on socialization activities (25%).

Personal Identity Online in Curation

socialization & multiple resourses

socialization & few resourses

personalization & multiple resourses

personalization & few resourses

Conclusions:

Curation as Personal Identity Online activity

Degree of influence of the PIO in the personal curation process, may be expressed by:

• Style of expression of a personal opinion during publishing.

• Style of commenting the curated content of other curators.

• Frequency of tagging.

• Level of sharing and following others.

• Level of connecting with outside curators.

Conclusions:
Curation as Social Media tool

● Preliminary findings indicate that the contribution of socialization for the quality of curation is higher than the contribution of the diversity of resources.

● There is a direct correlation between the high level of personal activity of students - that is the level of the contribution of their personality to the process - and a high level of their social sharing.

Conclusions:
Curation as Data Intensive Science tool

- High level of redundancy in ways of achieving information

- Combining personally high graded resources with resources with high reputation.

- Intensive using mash-ups

- Domination of CURATION over SELECTION.

- Intensive grow of the input stream