Workshop on Science Dissemination: New Tools and Strategies

30 September - 2 October, 2013

Educational Impact of Social Networks

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Heavy switchers in translearning: impact of social networks in education

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Trieste, 1 October 2013.
Research seminar at the workshop Science
Dissemination and On-line Certification for All,
International Centre for Theoretical Physics
(ICTP), 30 September-2 October 2013

Learn
acquisition + knowledge

Teach
transmission + knowledge
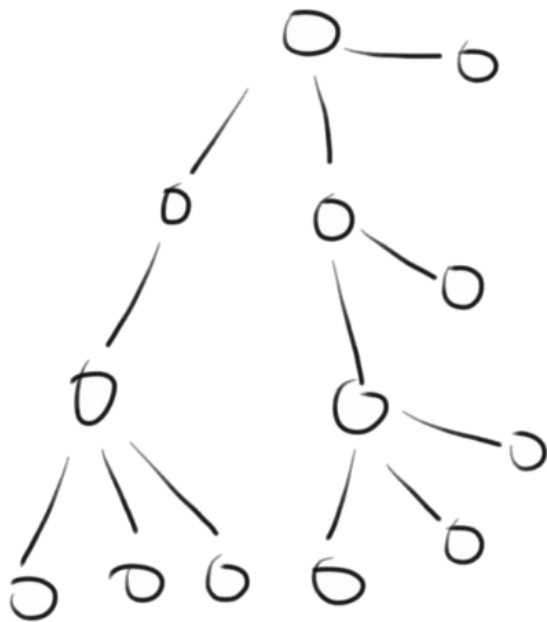
Educational system

An efficient and effective way to:
- tramsmit knowledge
- which is scarce
- and scattered
- to many targets

Industrial Education

Scarcity
+ Transaction Costs

=

Intermediation

Intermediation

Hierarchy is efficient and effective

Scarcity　　Transaction costs

Intermediation

Information management　　Decision-making

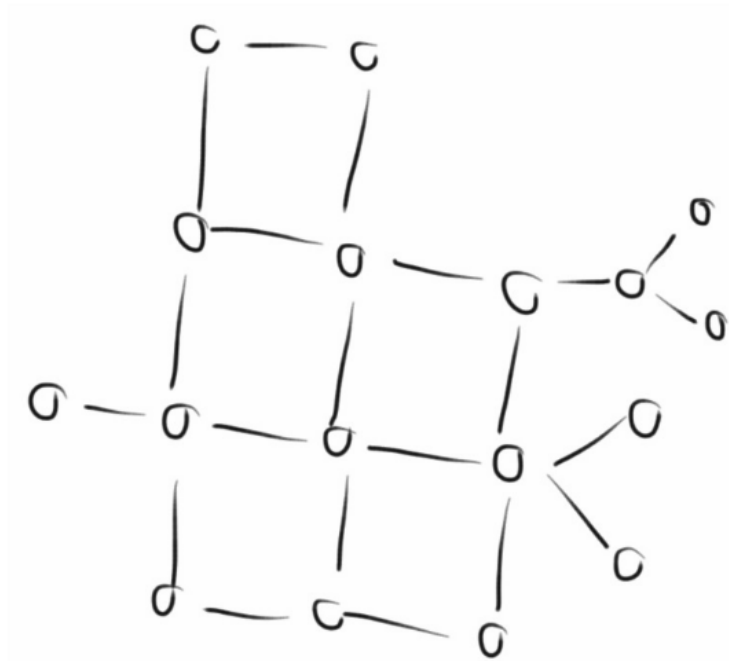# Digital Education

Scarcity

+ Transaction Costs

=

Intermediation?

Intermediation?

Networks are efficient and effective

Scarcity ✗   Transaction Costs ✗

Facilitation

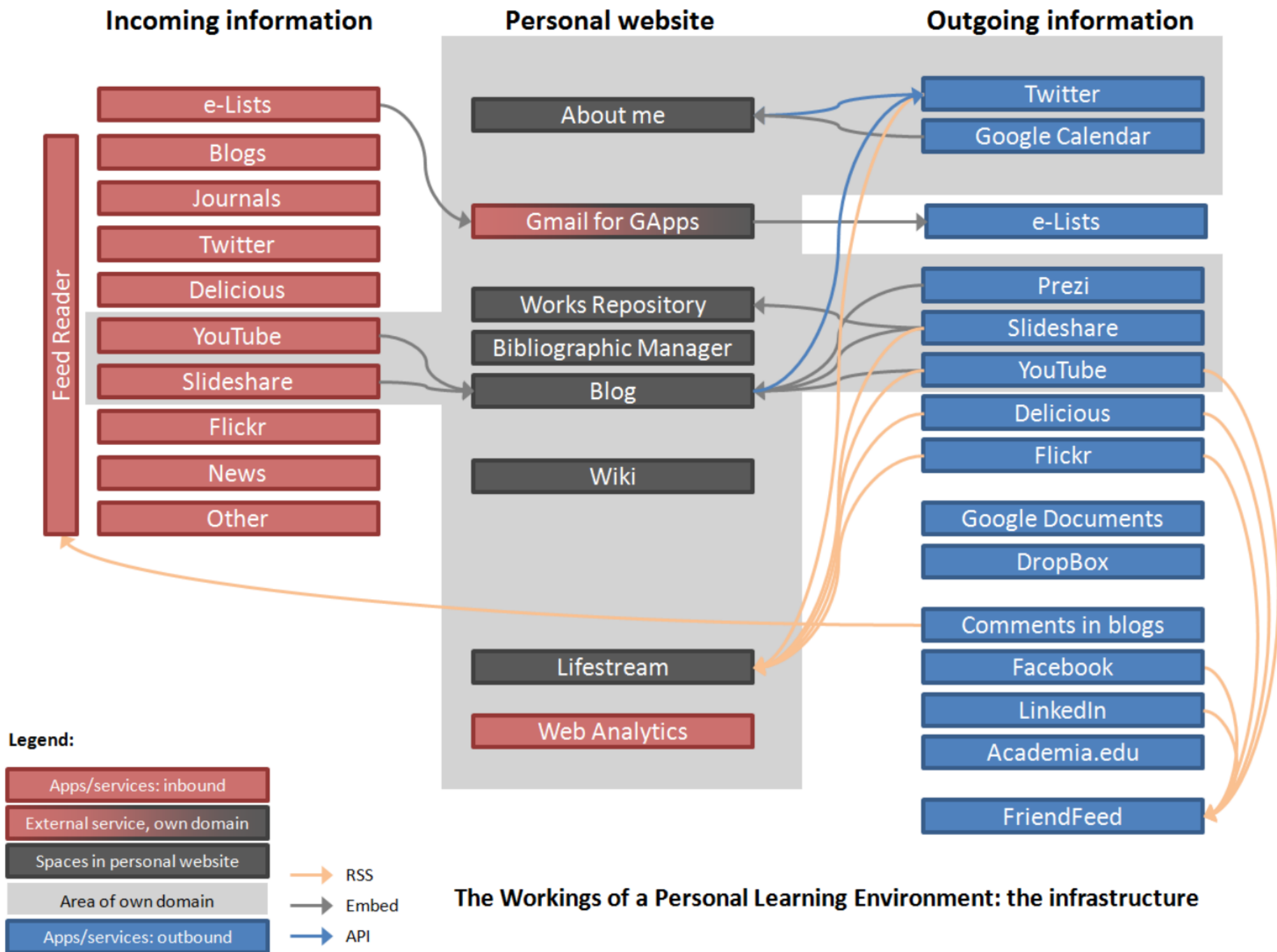Knowledge Management → Decision-making ✗

The Personal Learning Environment

"a set of conscious strategies
to use technological tools
to gain access to the knowledge
contained in objects and people and [...]
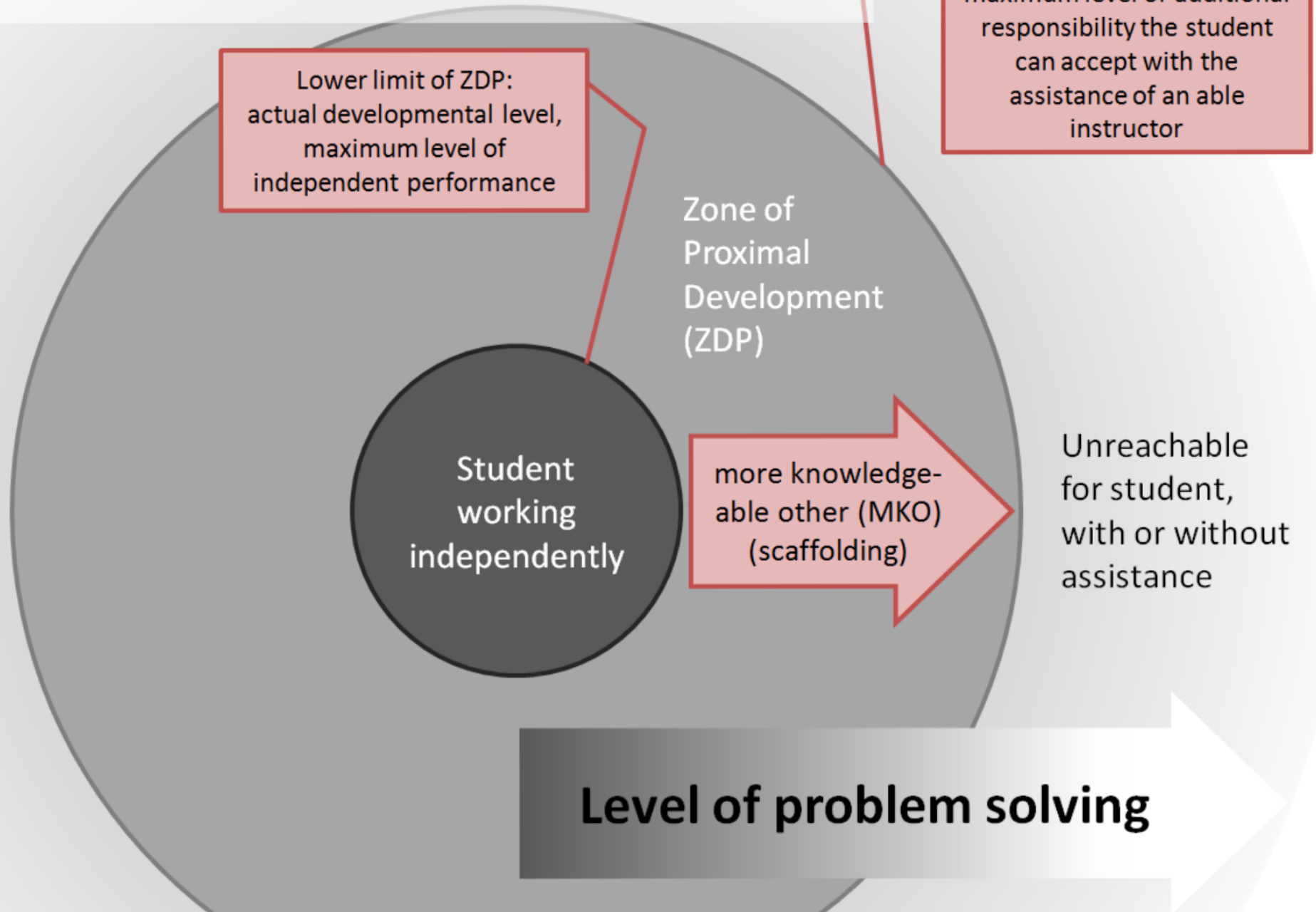achieve specific learning goals".

Peña-López, I. (2013). "Heavy switchers in translearning: From formal teaching to ubiquitous learning".
In On the Horizon, 21 (2), 127-137. Lincoln: NCB University Press.

Incoming information

- e-Lists
- Blogs
- Journals
- Twitter
- Delicious
- YouTube
- Slideshare
- Flickr
- News
- Other

Feed Reader

Personal website

- About me
- Gmail for GApps
- Works Repository
- Bibliographic Manager
- Blog
- Wiki
- Lifestream
- Web Analytics

Outgoing information

- Twitter
- Google Calendar
- e-Lists
- Prezi
- Slideshare
- YouTube
- Delicious
- Flickr
- Google Documents
- DropBox
- Comments in blogs
- Facebook
- LinkedIn
- Academia.edu
- FriendFeed

Legend:

- Apps/services: inbound
- External service, own domain
- Spaces in personal website
- Area of own domain
- Apps/services: outbound

- RSS
- Embed
- API

The Workings of a Personal Learning Environment: the infrastructure

The Zone of Proximal Development and the Personal Learning Environment

A static approach

Vygotsky's Zone of Proximal Development

Upper limit of ZDP: potential developmental level, maximum level of additional responsibility the student can accept with the assistance of an able instructor

Lower limit of ZDP: actual developmental level, maximum level of independent performance

Zone of Proximal Development (ZDP)

Student working independently

more knowledge-able other (MKO) (scaffolding)

Unreachable for student, with or without assistance

Level of problem solving

The Zone of Proximal Development and the Personal Learning Environment

A dymanic approach

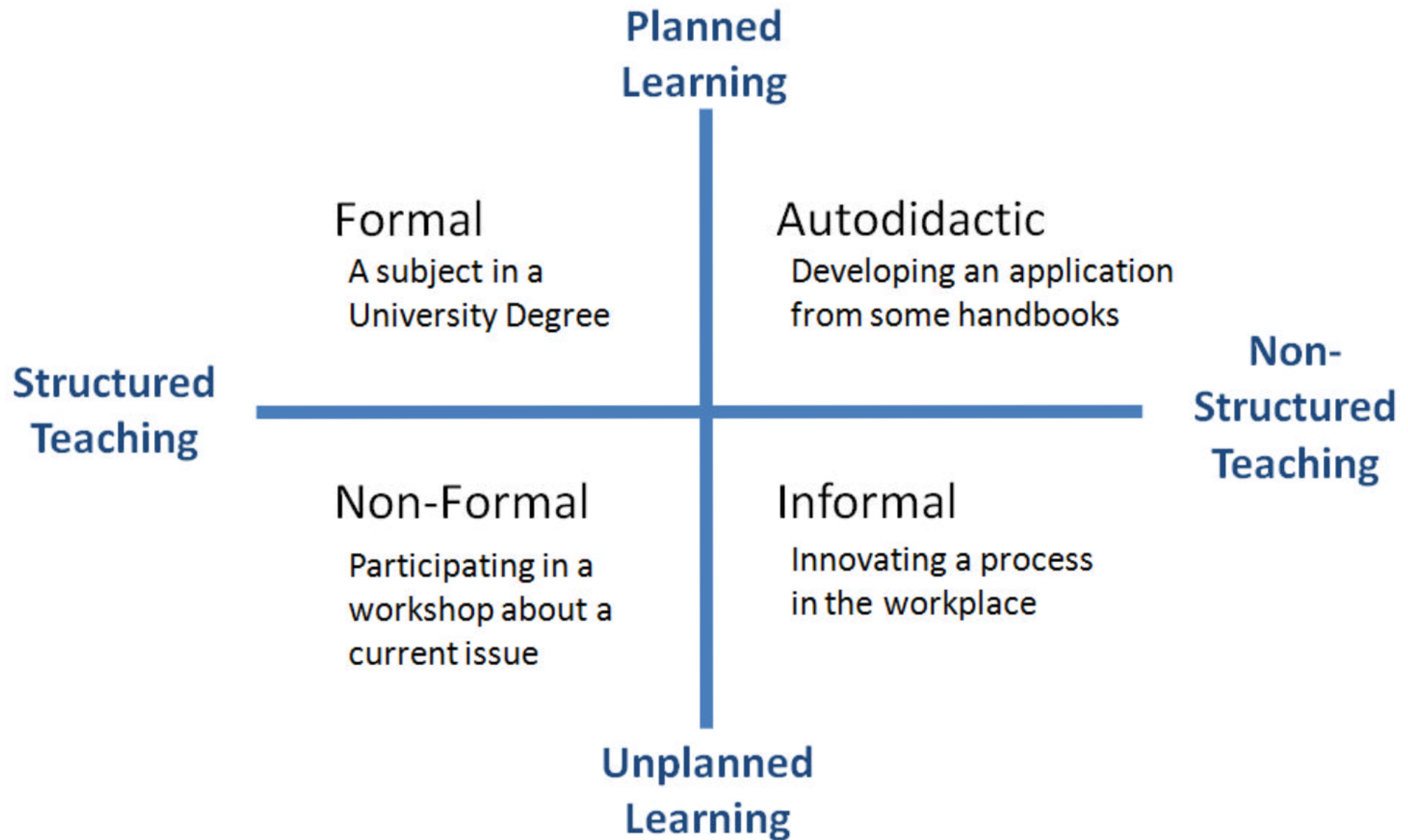Personal Learning Environments and the revolution of Vygotsky's Zone of Proximal Development

So,
the role of the teacher?
the role of the learner?

From formal education to informal learning

- Formal
- Non-Formal
- Autodidactic

Planned Learning

Structured Teaching

Formal
A subject in a
University Degree

Autodidactic
Developing an application
from some handbooks

Non-Structured Teaching

Non-Formal
Participating in a
workshop about a
current issue

Informal
Innovating a process
in the workplace

Unplanned Learning

From formal resoucres to the resouces of informality

- Formal
- Open
- Informal

Syllabus

	S1	S2	S3	S4	S5
Formal	S1	S2	S3	S4	S5
Open Formal	O1	S2	O3	S4	S5
Non-Formal		S2			S5
Informal	I1		I3		
Self-taught / autodidactic	I1	I2	O3	I4	O5

+

Translearning	S1	I2	I3	O4	S5

PLE

Open Social Learning	S1	O2		O4	S5
	O1				
	I1		I3	I4	

Legend: Formal content (F)   Open content (O)   Informal content (I)
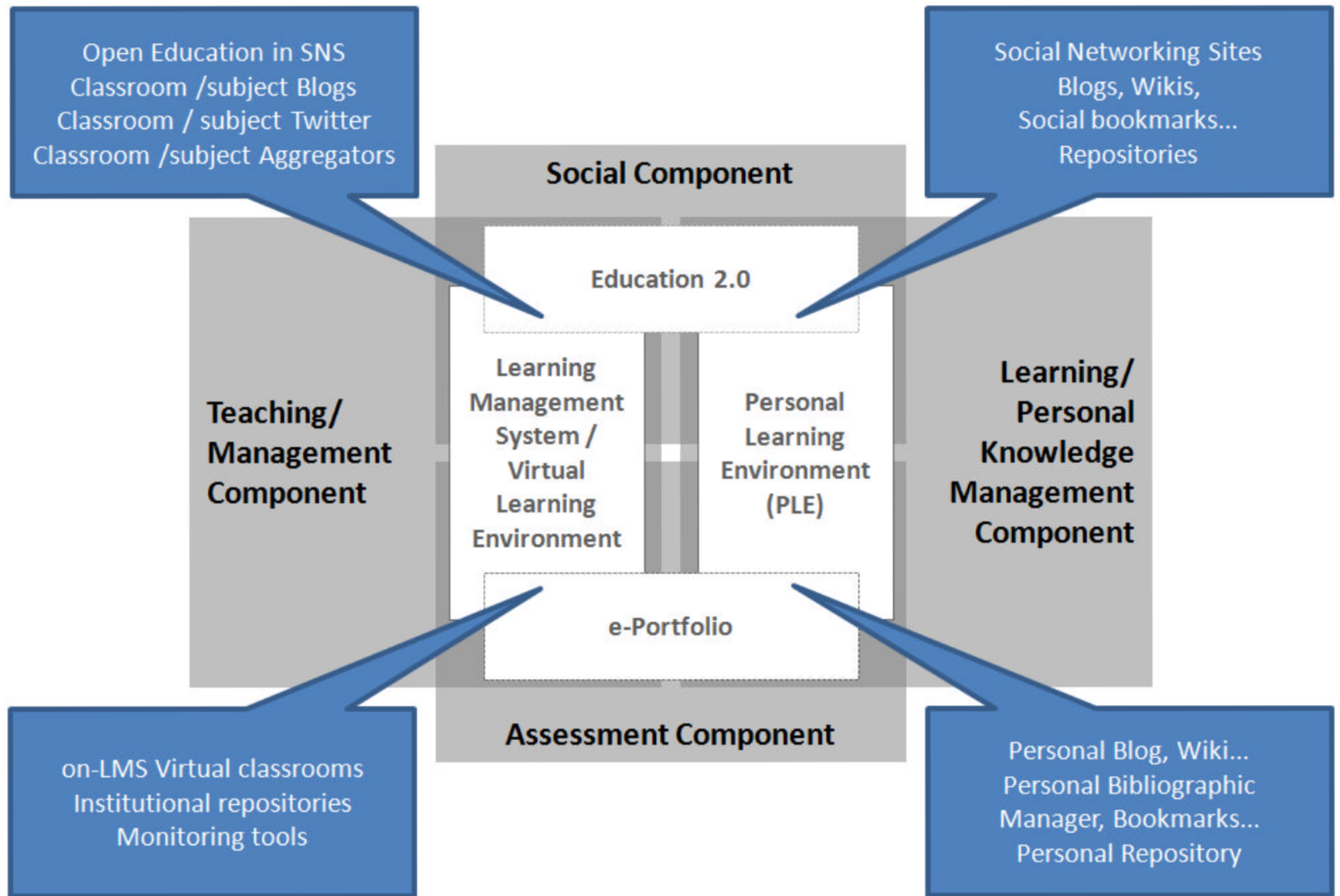
A reflection about the syllabus

- MOOC

A reflection about assessment and accreditation

- P2P assessment
- Badges

Switching students and translearning in institutions

Open Education in SNS
Classroom /subject Blogs
Classroom / subject Twitter
Classroom /subject Aggregators

Social Networking Sites
Blogs, Wikis,
Social bookmarks...
Repositories

Social Component

Education 2.0

**Teaching/
Management
Component**

Learning
Management
System /
Virtual
Learning
Environment

Personal
Learning
Environment
(PLE)

**Learning/
Personal
Knowledge
Management
Component**

e-Portfolio

Assessment Component

on-LMS Virtual classrooms
Institutional repositories
Monitoring tools

Personal Blog, Wiki...
Personal Bibliographic
Manager, Bookmarks...
Personal Repository

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