

Heavy switchers in translearning: impact of social networks in education

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Research seminar at the workshop Science
Dissemination and On-line Certification for All,
International Centre for Theoretical Physics
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Learn

acquisition + knowledge

Teach

transmission + knowledge

Educational system

An efficient and effective way to:

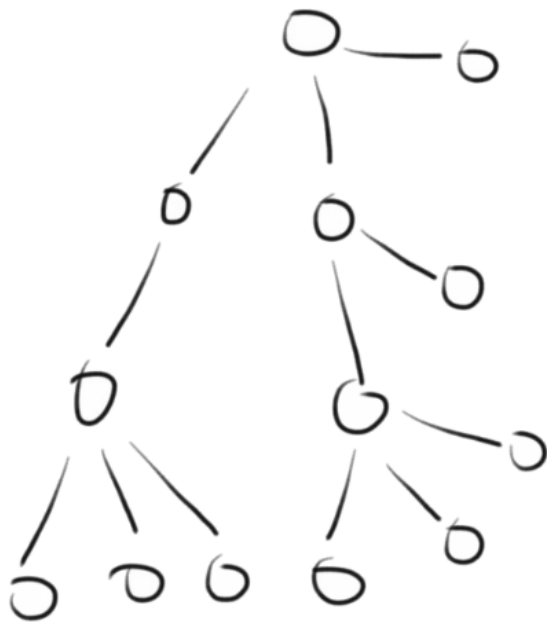
- transmit knowledge
- which is scarce
- and scattered
- to many targets

Industrial Education

$$\begin{array}{c} \text{Scarcity} \\ + \text{Transaction Costs} \\ = \\ \text{Intermediation} \end{array}$$

Intermediation

Hierarchy is efficient and effective



Scarcity

Transaction costs

Intermediation

Information

Decision-

management

making

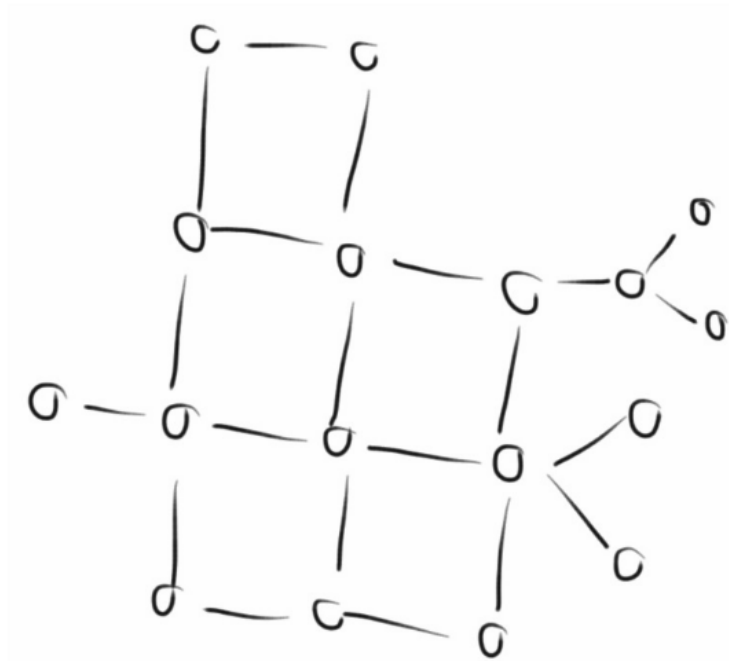
Digital Education


Scarcity
+ Transaction Costs
=

Intermediation?

Intermediation?

Networks are efficient and effective



Scarcity 

Transaction Costs 

  Facilitation

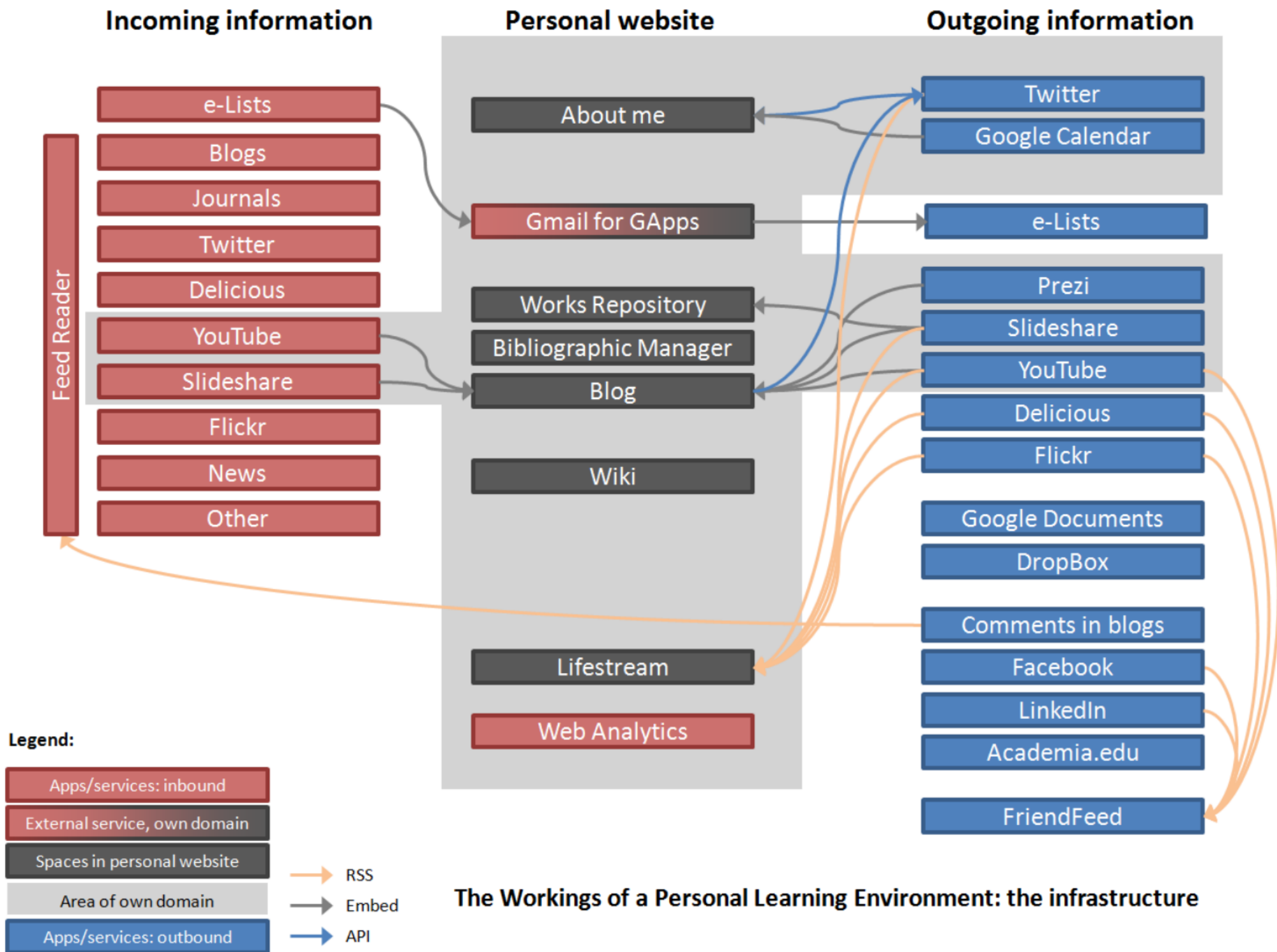
 Knowledge Management

  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".

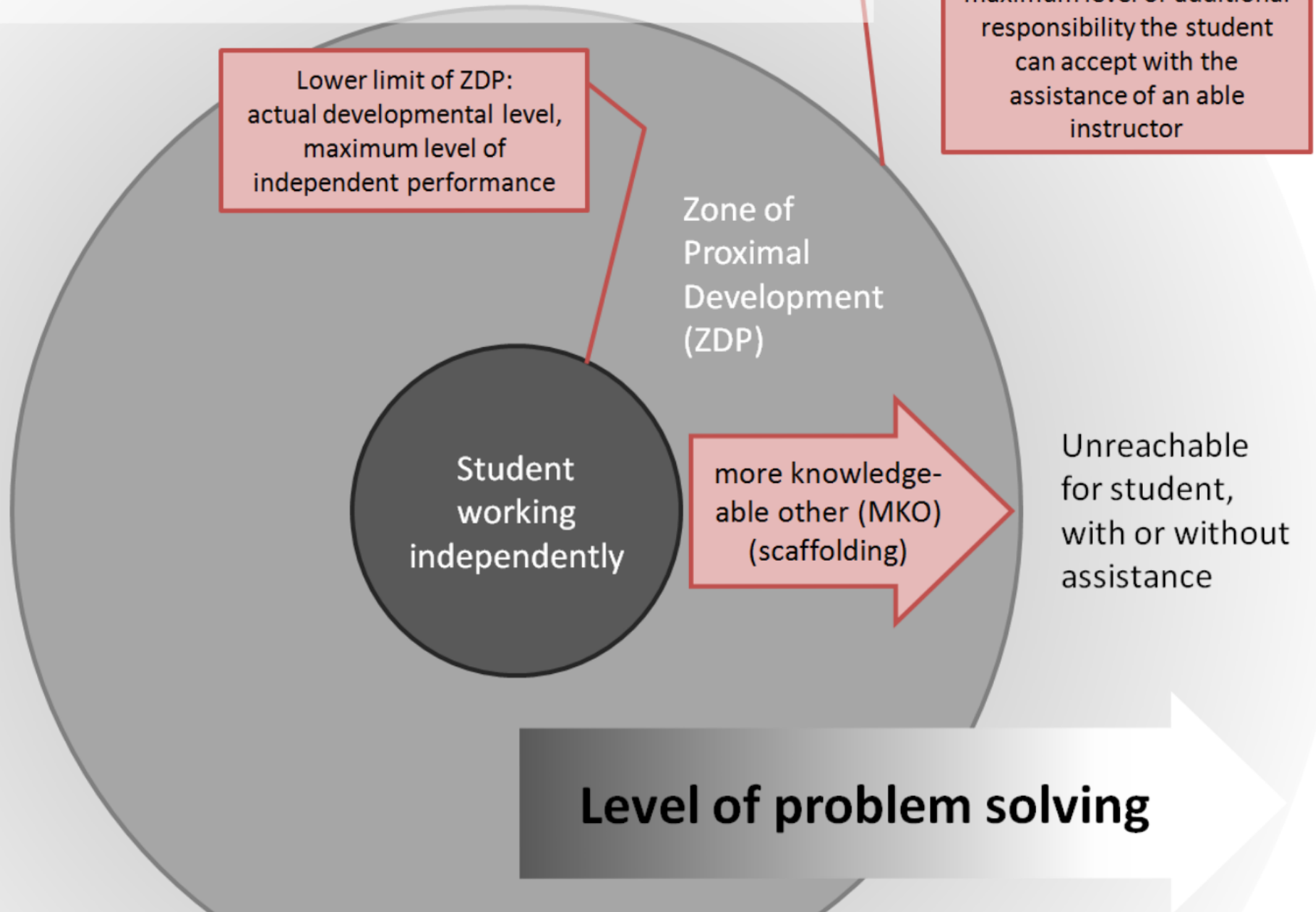
Peña-López, I. (2013). "Heavy switchers in translearning: From formal teaching to ubiquitous learning".
In *On the Horizon*, 21 (2), 127-137. Lincoln: NCB University Press.



The Zone of Proximal Development and the Personal Learning Environment

A static approach

Vygotsky's Zone of Proximal Development



The Zone of Proximal Development and the Personal Learning Environment

A dynamic approach

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

Lower limit of ZDP:
actual developmental level

Upper limit of ZDP?
potential developmental level?

Student
working
independently

PLE₁
MKO

PLE₂
MKO

PLE₃
MKO

PLE₄
MKO

PLE₅
MKO

Zone of Proximal Development
(ZDP)

Level of problem solving

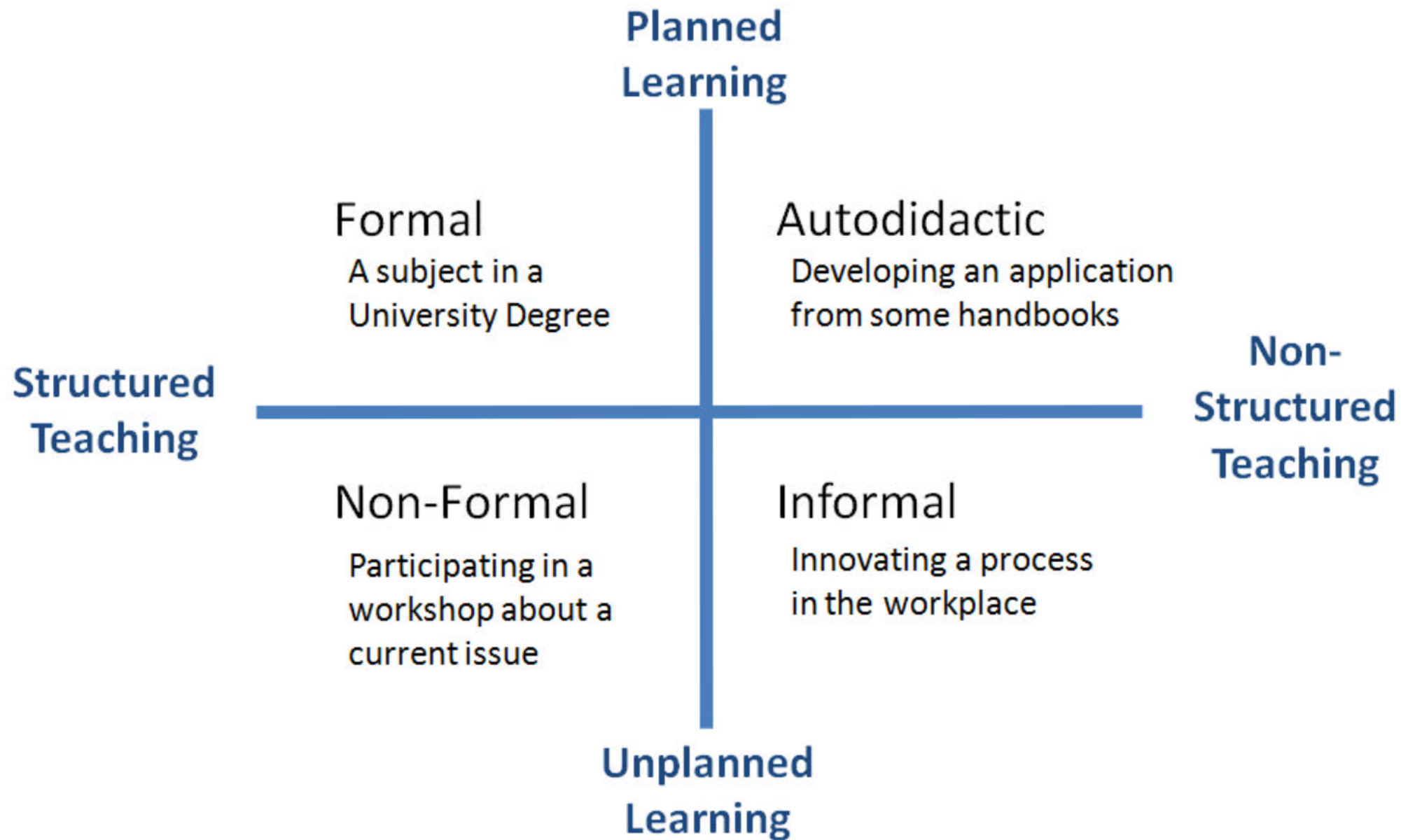
So,

the role of the teacher?

the role of the learner?

From formal education to informal learning

- Formal
- Non-Formal
- Autodidactic



From formal resoucrs to the resouces of informality

- Formal
- Open
- Informal

Syllabus

+

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
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Open Social Learning	S1	O2		O4	S5
	O1				
	I1		I3	I4	

PLE

Legend:

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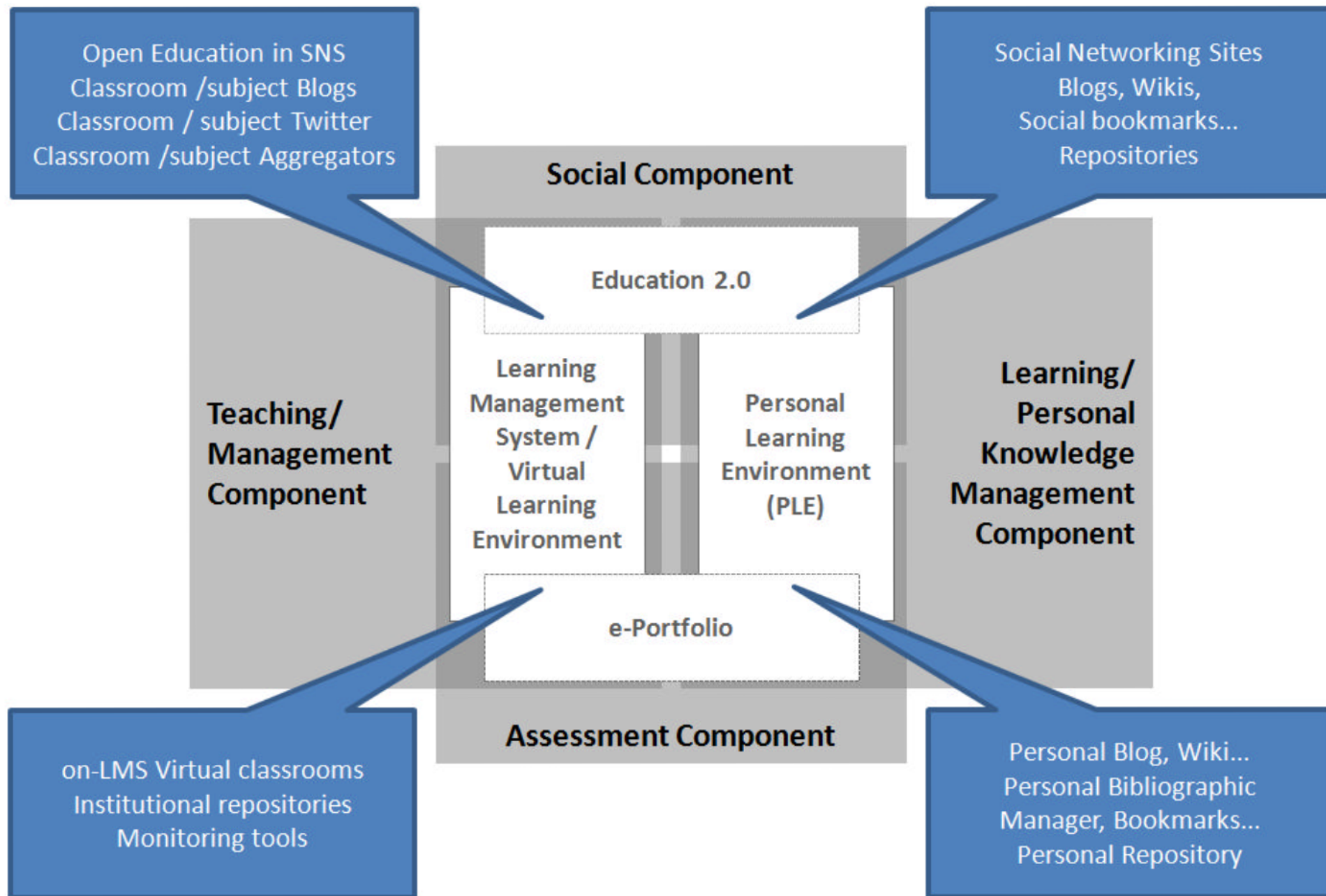
A reflection about the syllabus

- MOOC

A reflection about assessment and accreditation

- P2P assessment
- Badges

Switching students and translearning in institutions



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