To share or not to share: Open educational policies, methodologies & resources

Workshop @ Læringsfestivalen 2016

by **Christian M. Stracke**

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Welten Institute
Research Centre for Learning, Teaching and Technology

Open Universiteit
welten-institute.org

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Research Centre for Learning, Teaching and Technology

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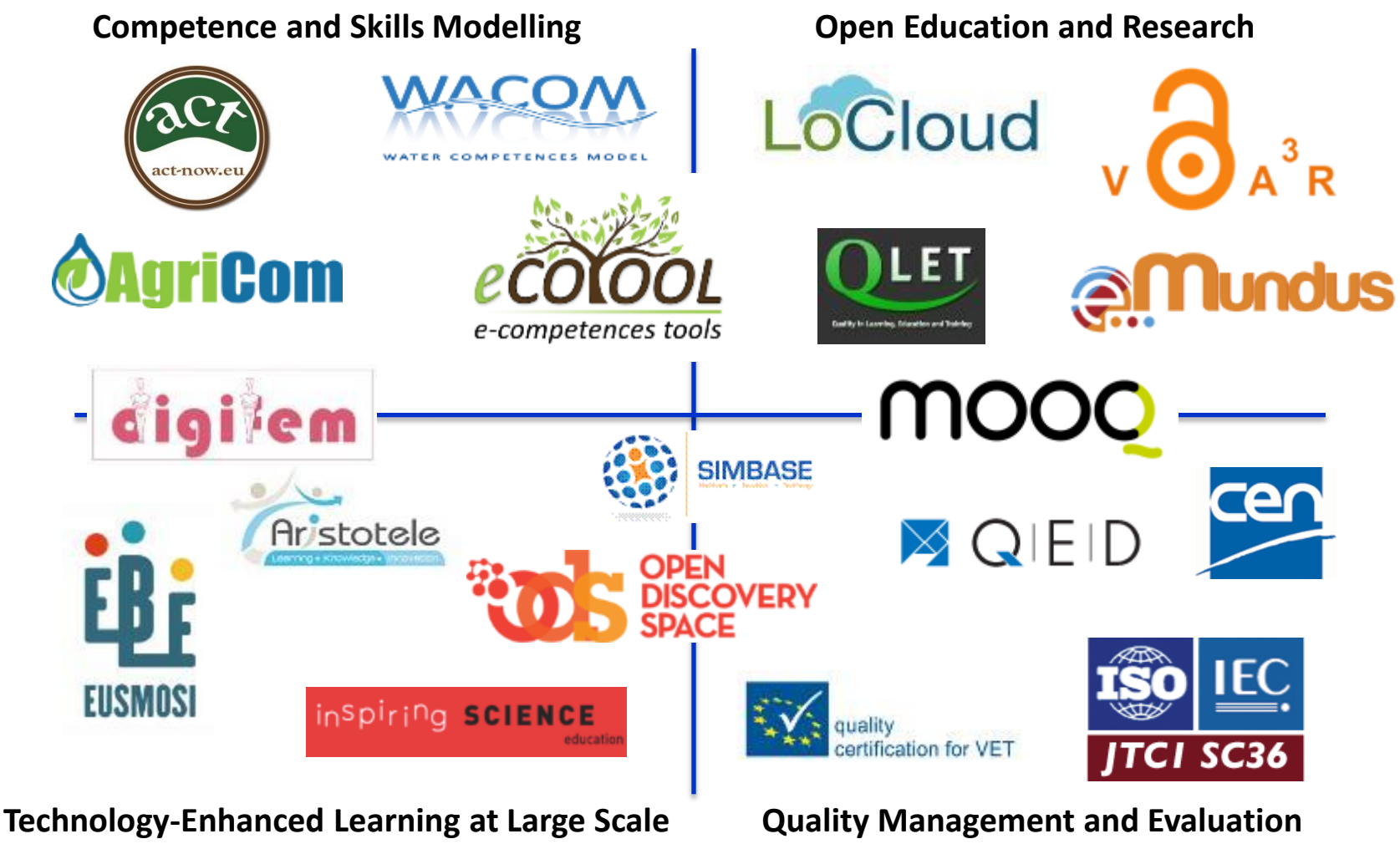
Selected Projects:



Selected Projects:

www.inclusive-education.net

www.ACT-now.de

www.aristotele-ip.eu

www.opendiscoveryspace.eu

www.ecompetence.eu

www.wacom-project.eu

www.simbase.co

www.mooc-quality.eu

www.agriculture-competences.eu

www.voa3r.eu

www.digifem.eu

www.eMundus-project.eu

www.locloud.eu

www.quality-development.eu

www.learning-standards.eu

www.inspiringscience.eu

Dr. Christian M. Stracke:
Open Learning & Education, Innovations, Policies, Quality & Competences, Impact

Open University of the Netherlands

Global cooperation: ECNU & KNOU

Global initiative ICORE for OR & OE

Annual international LINQ Conference

eLC European Institute

Standardization Chair in ISO & CEN

Welten Institute
Research Centre for Learning, Teaching and Technology

Open Universiteit
welten-institute.org

Speech Overview:

1. What is Open Education?
2. Why Change in Education?
3. What is Quality in Education?
4. How to Improve Quality?
5. How to Participate?

Speech Overview:

1. **What is Open Education?**
2. Why Change in Education?
3. What is Quality in Education?
4. How to Improve Quality?
5. How to Participate?

What is Open Education?

ATTENTION!!!

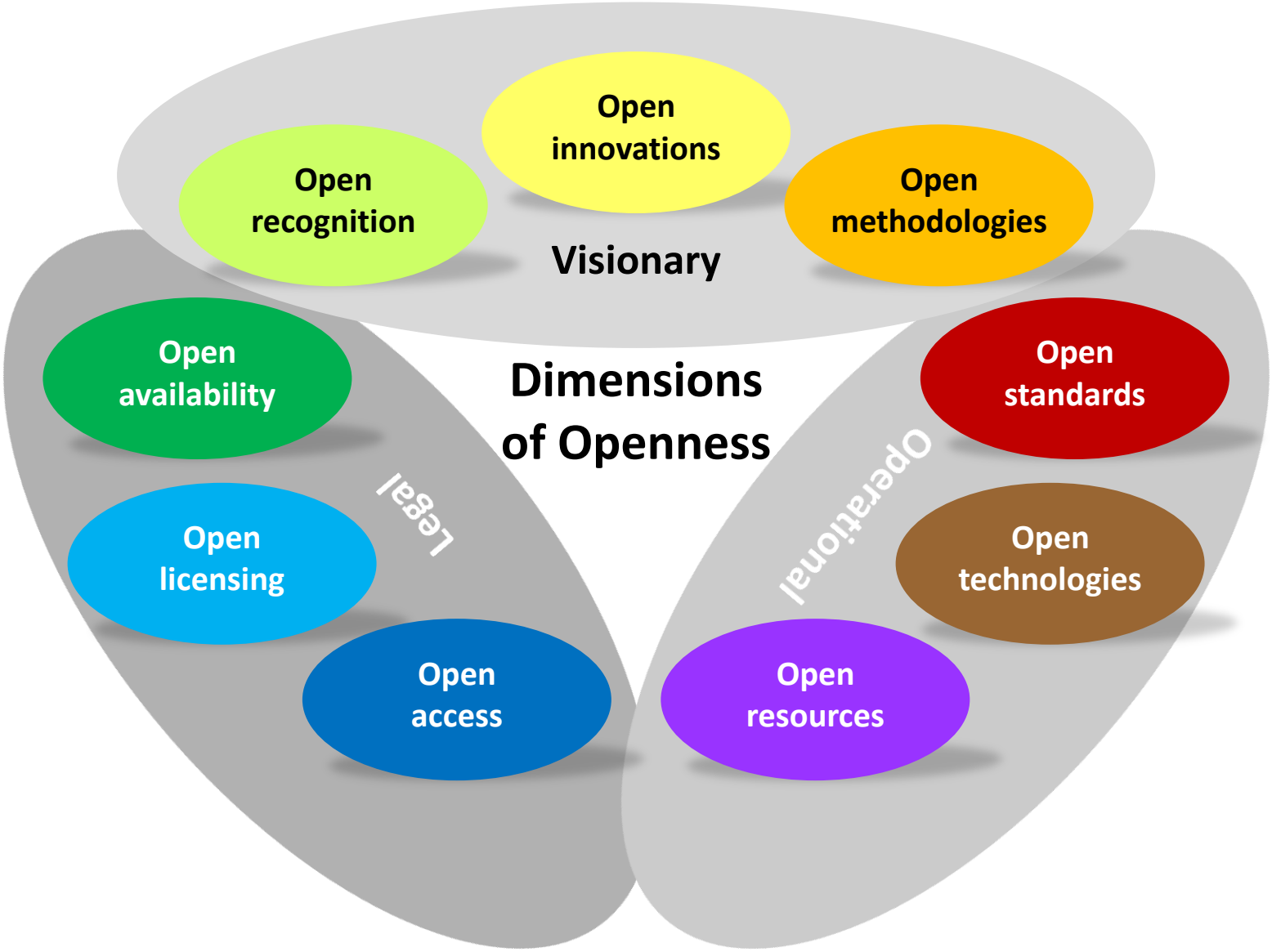
What is Open Education?

EXAMINATION!!!

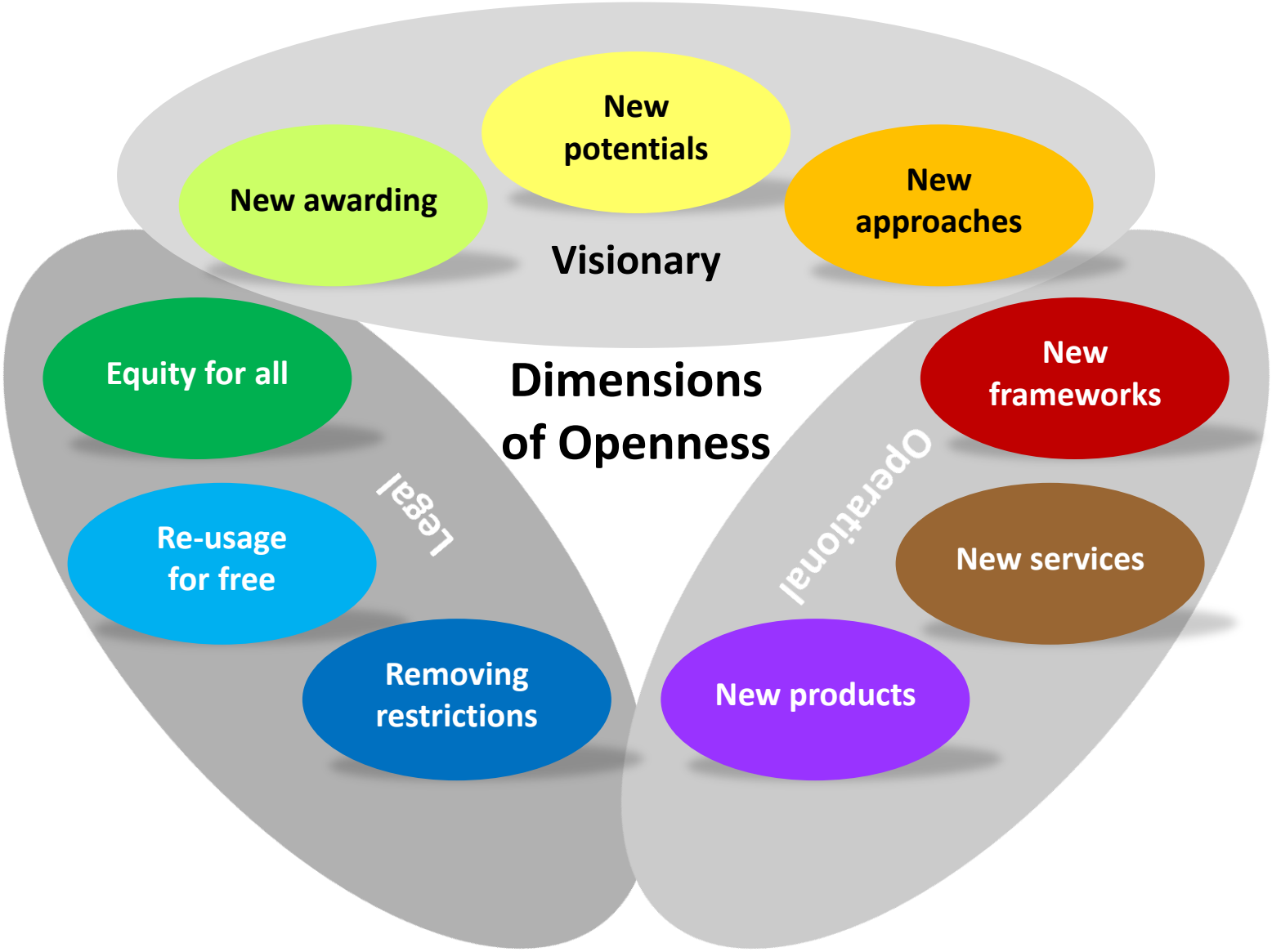
Your answers:

What is Open Education?

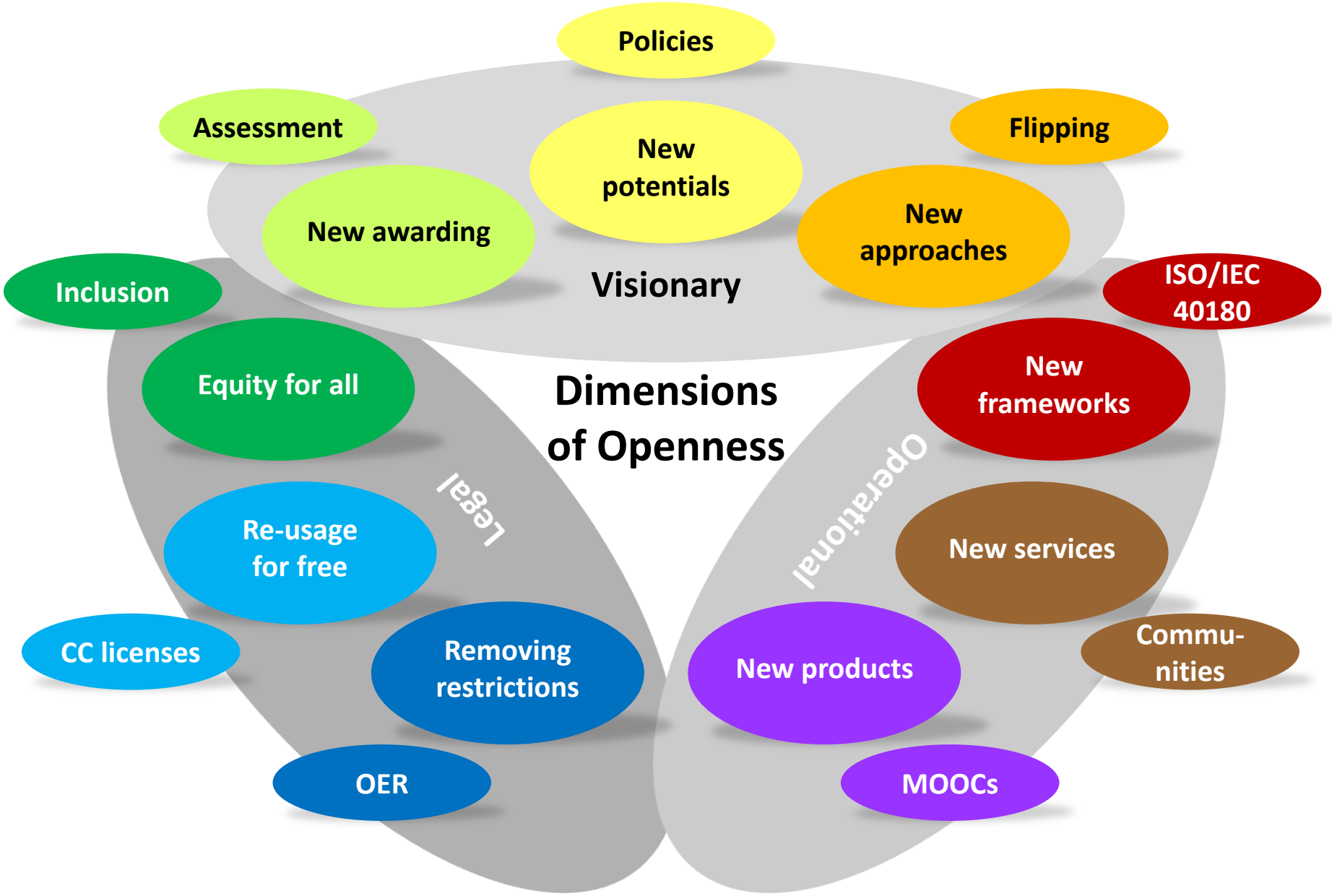
Source: https://www.flickr.com/photos/opensourceway/



Stracke, C.M., 2016



Stracke, C.M., 2016



Stracke, C.M., 2016

Open Education (OE): Innovations for changing & opening up education to improve the quality

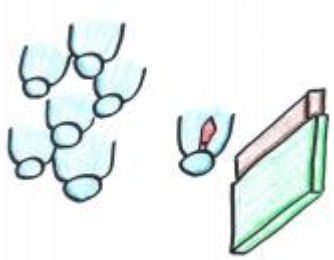
OPEN EDUCATIONAL RESOURCES

ICORE

OPEN EDUCATION CONSORTIUM
The Global Network for Open Education

UNESCO
United Nations Educational, Scientific and Cultural Organization

Waves of OE



1960s: Open Classrooms

1960s: Open Universities

1990s: Open Educational Resources

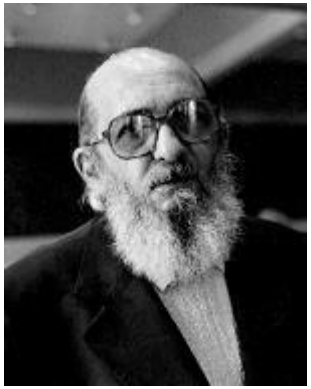
2000s: Open Online Collaboration

2010s: Open Educational Practices

Now: Open Educational Environments

Open Education

1960s: Open Learning



- Progressive education
- Flipped methodologies
- Open Universities

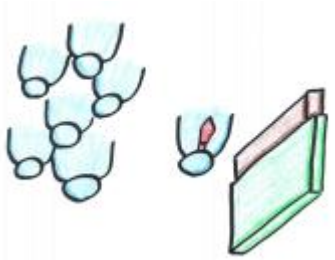
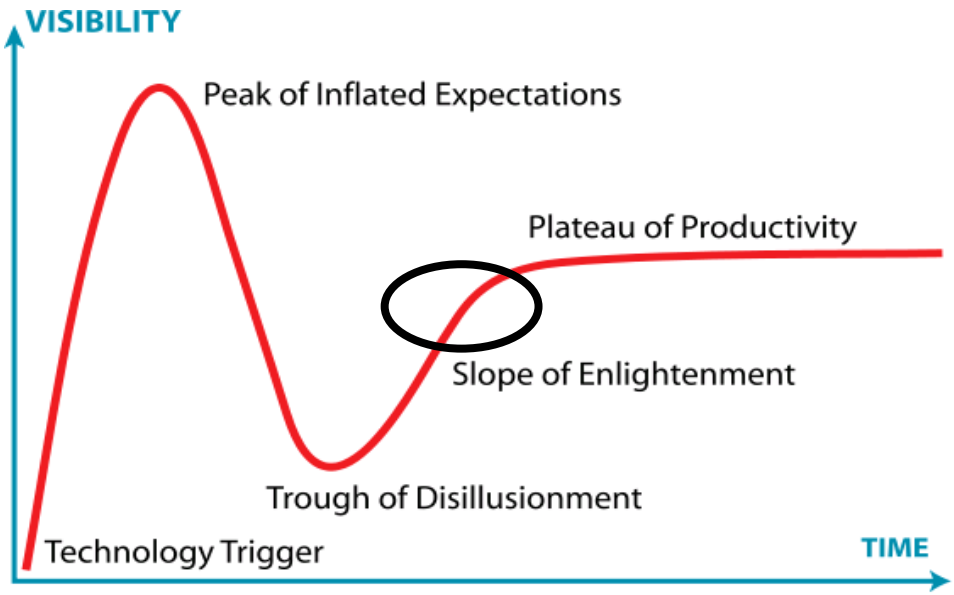


Photo: Slobodan Dimitrov

Open Education

1990s: Open Educational Resources

- Open content
- OER portals
- E-Learning hype



According to Gartner Hype Cycle

Open Education

2000s: Open Online Collaboration

- Open communities
- Web 2.0 & Social media
- MOOCs

Source: https://www.flickr.com/photos/catspyjamasnz/

Open Education

2010s: Open Educational Practices

- Open classrooms
- Competence focus
- OER declaration

United Nations
Educational, Scientific and
Cultural Organization

OPEN EDUCATIONAL RESOURCES

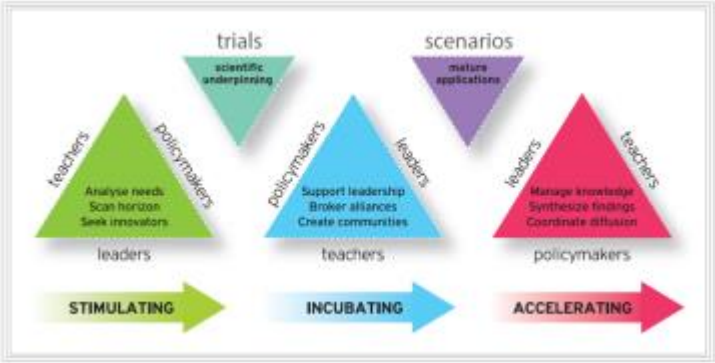
Back to Open Learning?

Now: Open Learning Environments

- Open methods
- Open policies
- Learner focus

OPEN EDUCATION CONSORTIUM
The Global Network for Open Education

ICORE



Open Education

Do not to forget the long-term history:

1000 BCE - : Open Educational Practices

- **Open discourse (Confucius, Socrates)**

1800 CE - : Open Learning

- **Progressive theory (Pestalozzi, Humboldt)**
- **Competence building (Piaget, Vygotsky)**

Open Education (OE)

Macro: Policies and Curricula

Strategic & organisational

Meso: Organisation and Design

Micro: Learner and Course

Open Education (OE): Innovations for changing & opening up education to improve the quality

Speech Overview:

1. What is Open Education?
2. **Why Change in Education?**
3. What is Quality in Education?
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5. How to Participate?

The Digital Age

Two core factors:

1. Globalisation &
2. Worldwide Internet

Photo: https://ec.europa.eu/digital-agenda/en/digital-life/education

Internationalization

Global Competitions and societal changes

Close the gaps & open new opportunities

Challenges: Learn to Learn

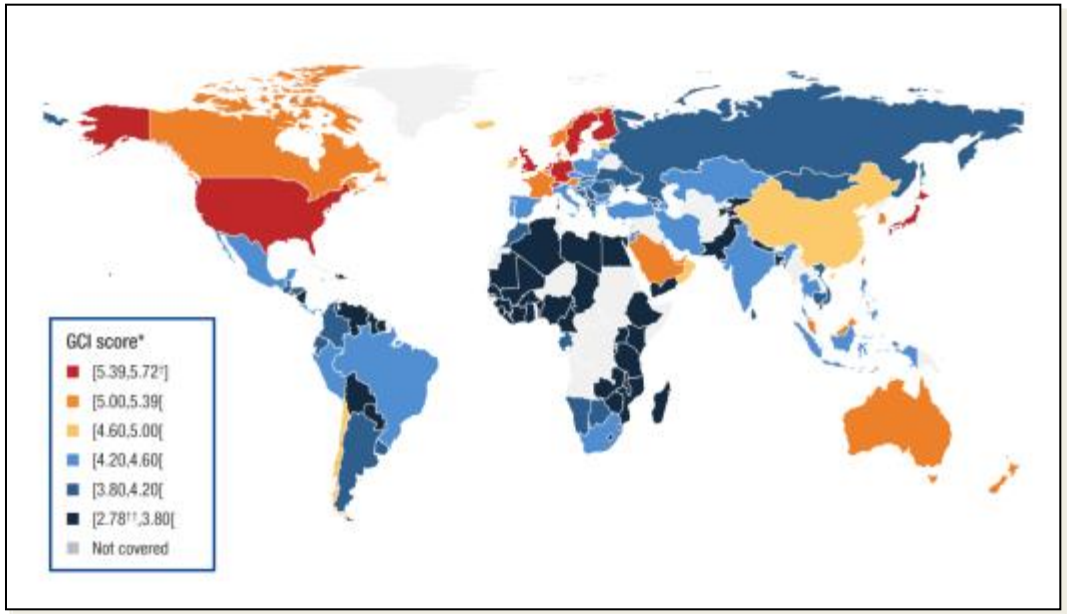


Figure: http://www.weforum.org/issues/global-competitiveness

SUSTAINABLE DEVELOPMENT GOALS
1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
10 REDUCED INEQUALITIES
11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
14 LIFE BELOW WATER
15 LIFE ON LAND
16 PEACE, JUSTICE AND STRONG INSTITUTIONS
17 PARTNERSHIPS FOR THE GOALS
SUSTAINABLE DEVELOPMENT GOALS

SUSTAINABLE DEVELOPMENT GOALS

Click on goals to show targets and topics related to the Sustainable Development Goals as defined in Transforming Our World - the 2030 Agenda for Sustainable Development

- Topics A-Z -

EXPAND ALL GOALS

End poverty in all its forms everywhere

End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Ensure healthy lives and promote well-being for all at all ages

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

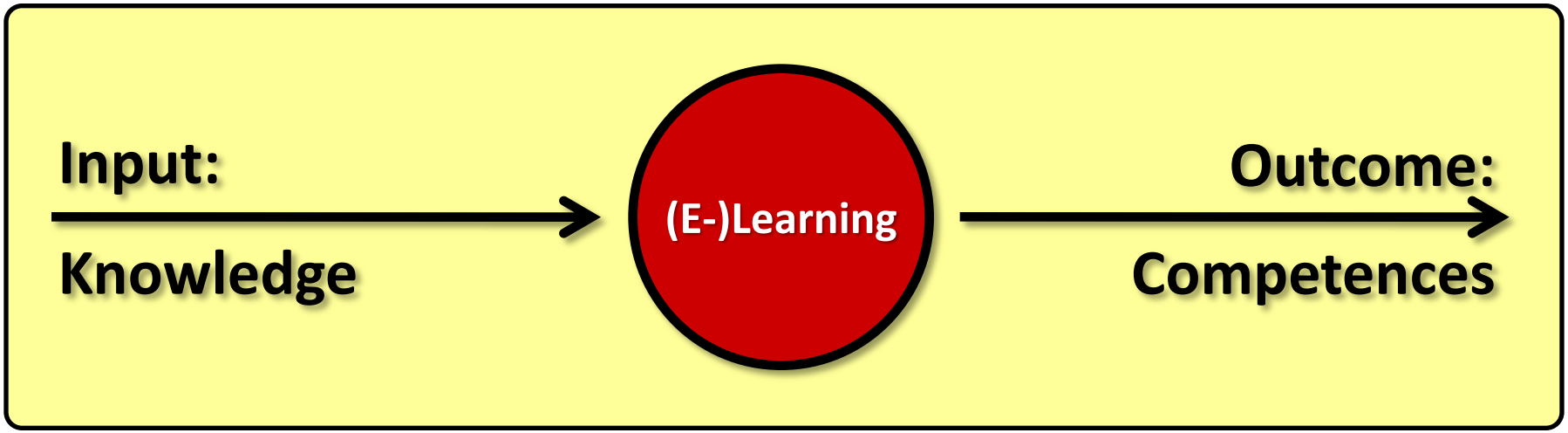
Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Inclusive:	**How to adapt?**	**OEP**
Equitable:	**How to offer?**	**OER**
Quality:	**How to improve?**	**IDEAL**
For all:	**How to deliver?**	**OA**

Learning cha(lle)nges

Not knowledge but competences are required to meet future jobs and tasks still unknown today

Change from input to outcome orientation



Solutions: Quality

Quality is key for success and results of learning processes

**Learners needs,
Learning objectives,
Learning outcomes
and competences**

Change in Education!

To improve Quality in Education!

Speech Overview:

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What is Quality in Education?

What is Quality?

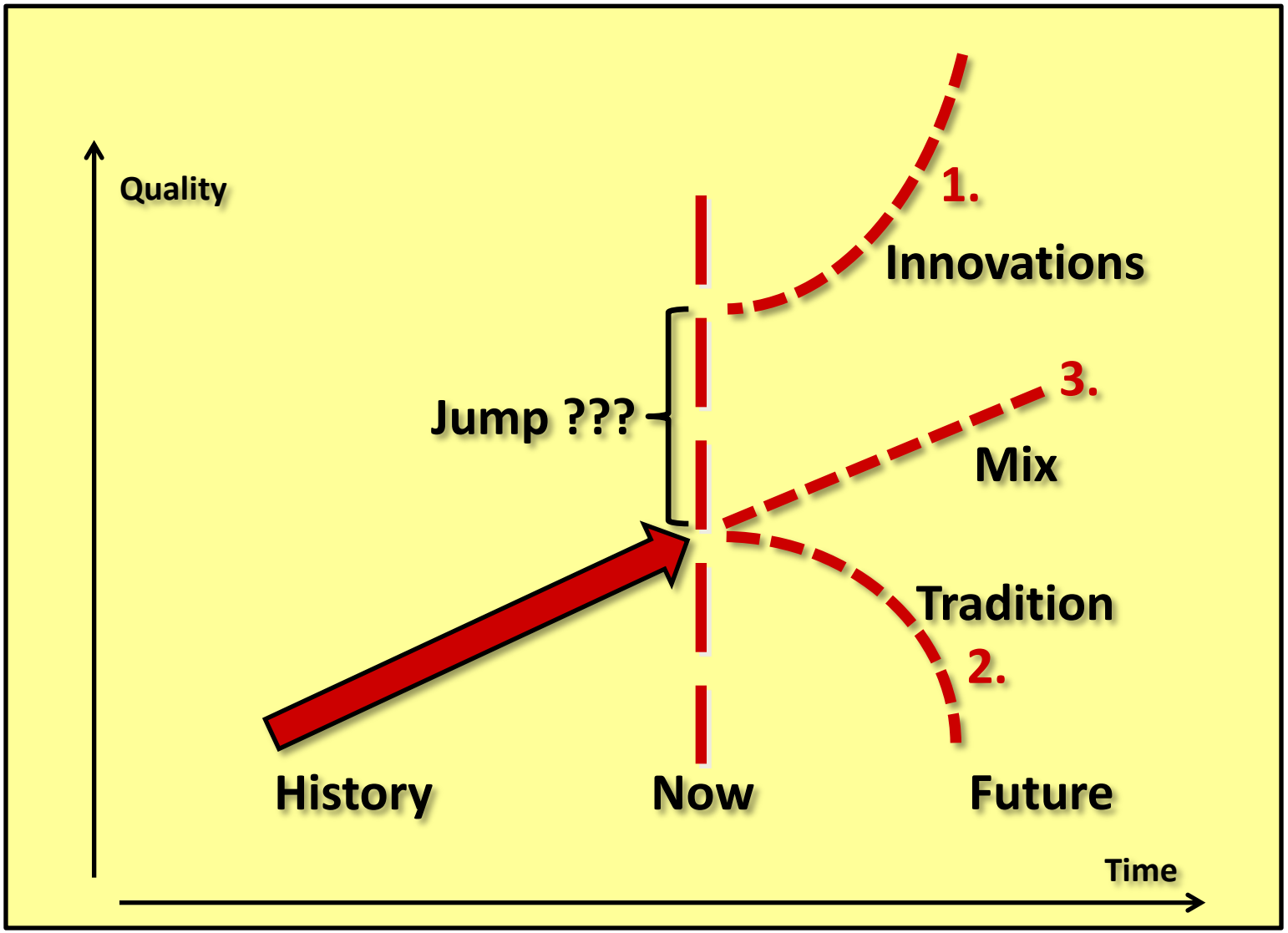
A simple experiment ...

A simple experiment:
Please imagine and define the quality of your favourite jelly bear

Quality
cannot be defined

... except through adaptation to your situation and context!

Innovations vs. Quality



Source: Stracke, C.M., 2012: "Learning Innovations and Learning Quality"

Innovations vs. Quality

1. **Learning history should not and cannot be ignored.**

2. **Learning innovations are mainly technology-driven.**

3. **Learning is not completely changing.**

Source: Stracke, C.M., 2012

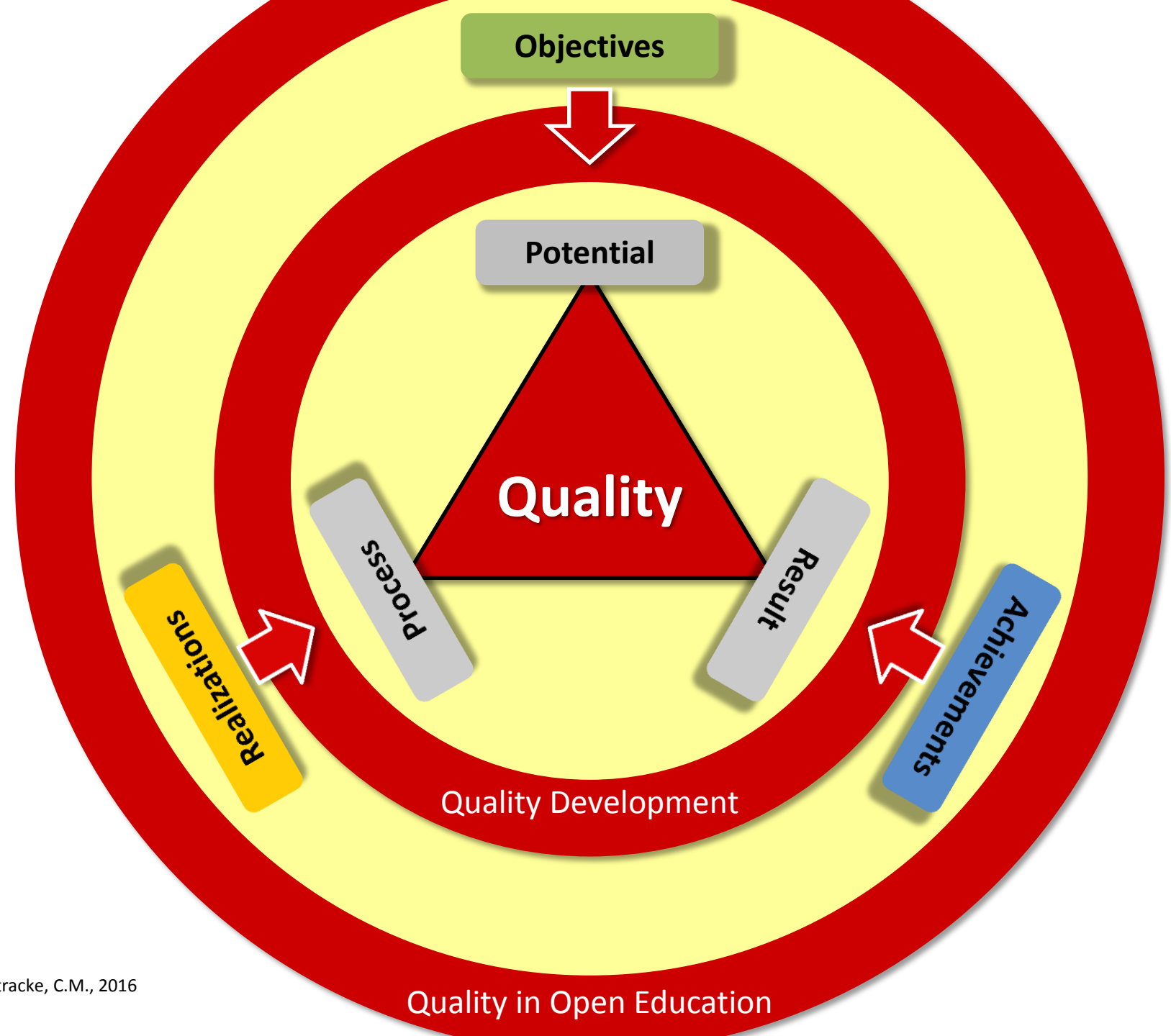
What is Quality?

Quality

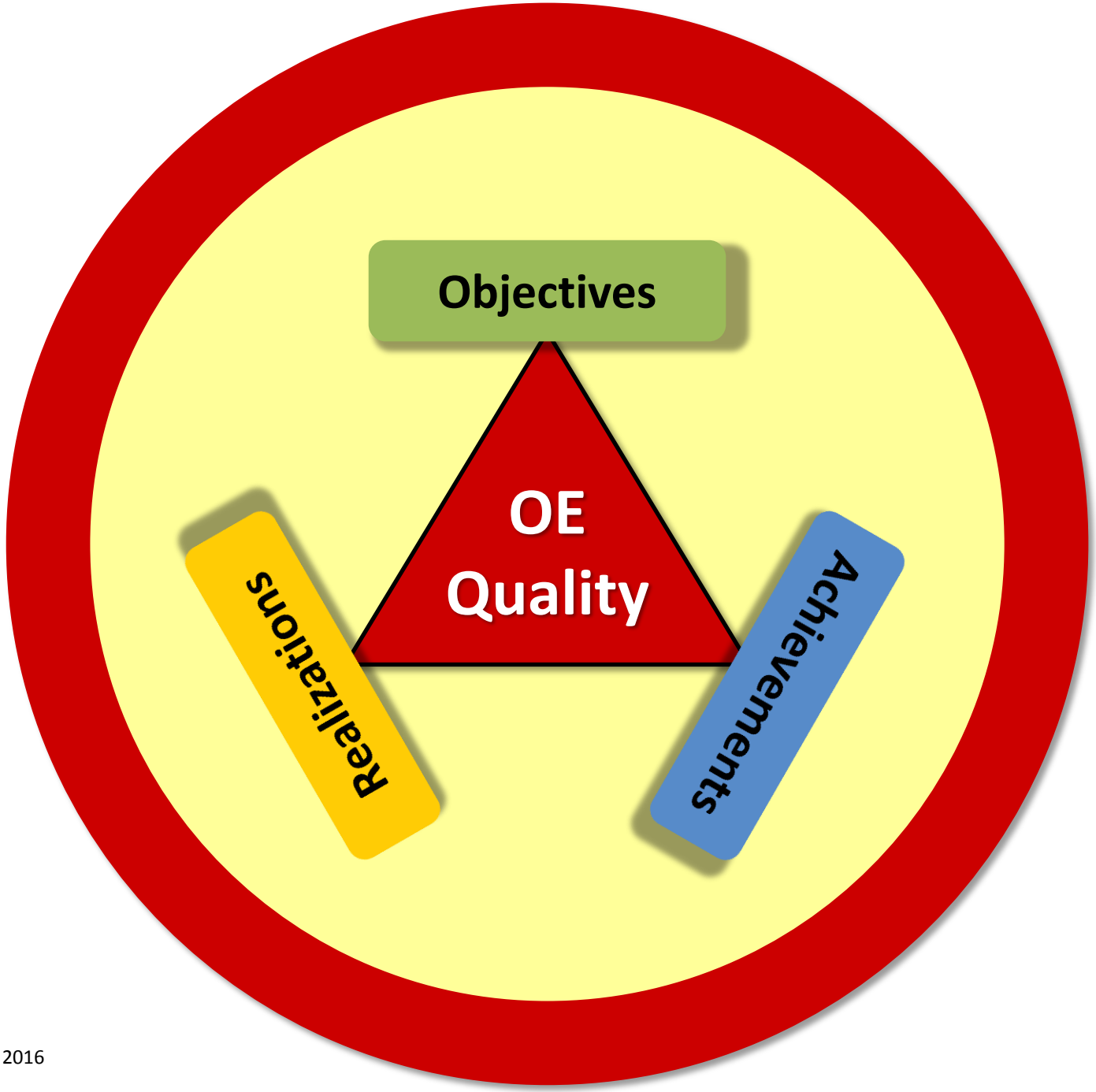
most important

for Learning, Education and Training!

Stracke, C.M., 2016



Stracke, C.M., 2016



Stracke, C.M., 2016

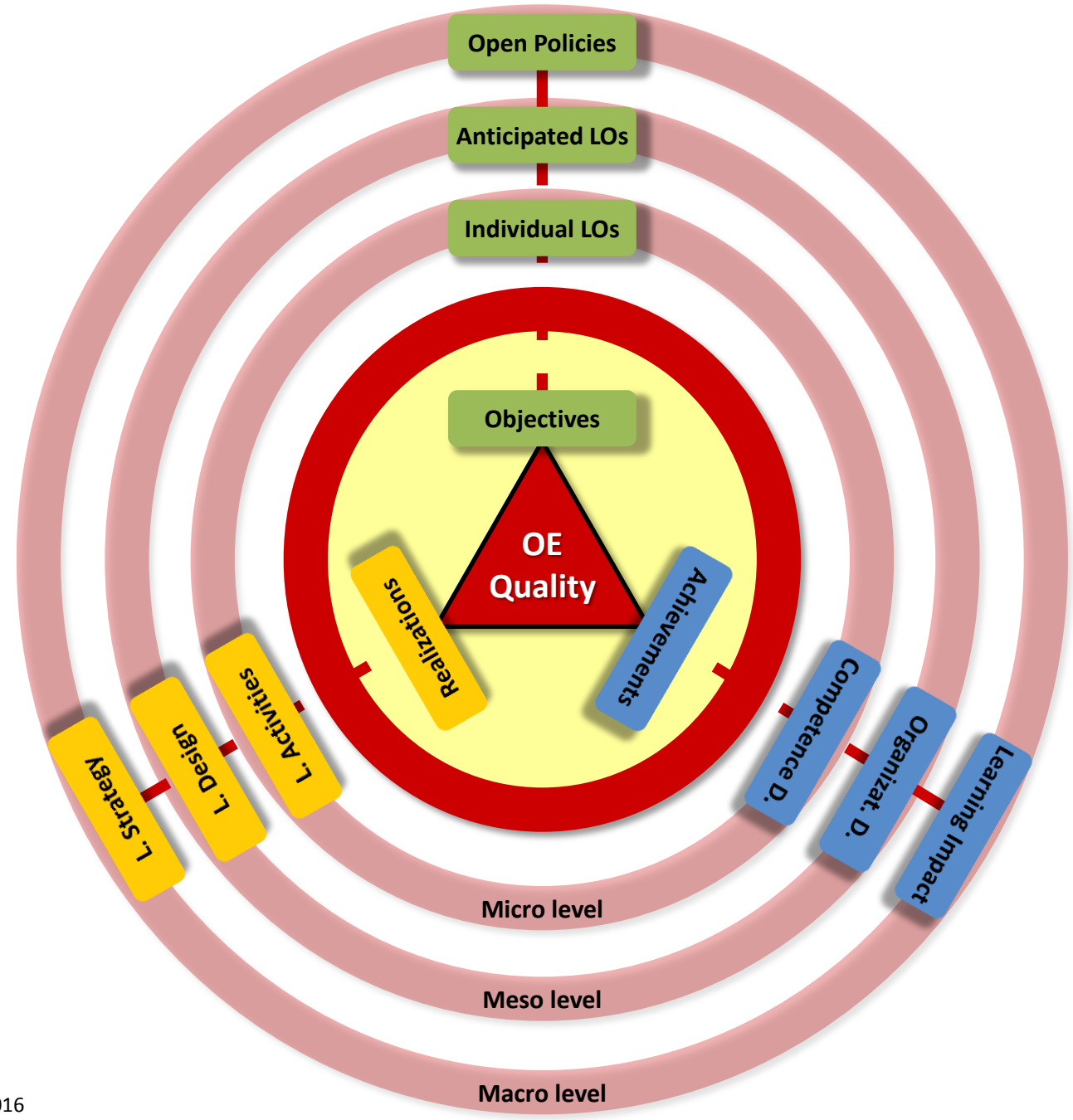
Open Education (OE)

Macro: Policies and Curricula

Strategic & organisational

Meso: Organisation and Design

Micro: Learner and Course



Stracke, C.M., 2016

Quality: Most important

... and "new pedagogy" is important just the same!

Quality
in Education!

Quality in Open Education!

... with fun!

Speech Overview:

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Open Education (OE)

Macro: Policies and Curricula

Strategic & organisational

Meso: Organisation and Design

Micro: Learner and Course

Quality by OE

Macro: Movement & Strategies

Strategic & organisational

Meso: Frameworks & Standards

Micro: Competence & Community

OE Examples: EC

Strict open policy:
All research results from H2020 and other funding programmes have to be published with “green” open access license

In addition: Open data policy

OE Examples: NL

Strict open policy:
All research results from Dutch funding programmes with open access license

In addition: Framework contracts with major publishers (Springer, Wiley) to opt for “gold” open access for free

OE Examples: OUNL

Strict open policy:
All research results and publications with “green” open access license on our own open repository Dspace
http://dspace.ou.nl/
In addition: Open Education research group in Welten Institute

OUNL Video

The Welten Research Institute: Leading in Learning Innovations

Quality by Open Learning

Macro: Movement & Strategies

Meso: Frameworks & Standards

Micro: Competences & Communities

Competences: LELLE

Learning-how-to-Learn

The key competence in 21st century

Focus on inclusion of learning skills in (not only Higher Education) curricula

Competences: PBL3.0

Problem-based Learning as method for key competences in 21st century

Focus on integrating learning analytics & semantics in problem-based learning

www.PBL3-project.eu

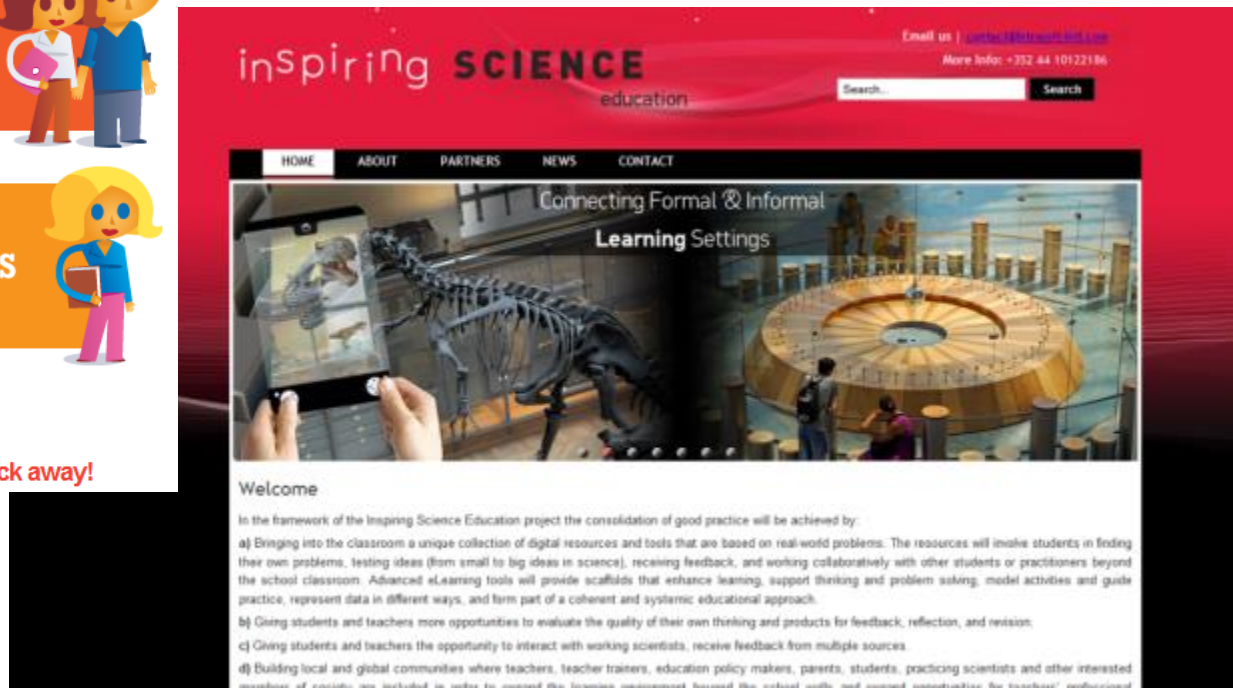
PBL Problem-Based Learning 3.0

Communities: ODS & ISE

> 10,000 teachers and

> 3,000 schools in 28 countries

www.opendiscoveryspace.eu



www.inspiring-science.eu & portal.opendiscoveryspace.eu/ise

Quality by Open Learning

Macro: Movement & Strategies

Meso: Frameworks & Standards

Micro: Competences & Communities

Frameworks: MOOQ

MOOQ for the quality of MOOCs:
“We will make MOOCs better”

Quality Reference Framework with indicators for design & comparison

www.MOOC-quality.eu

Quality Framework

as Reference Framework for MOOCs:

Which dimensions?
Which quality indicators for design?
More quality indicators for comparison?

www.MOOC-quality.eu

WE WILL MAKE MOOCs BETTER!

www.mooc-quality.eu

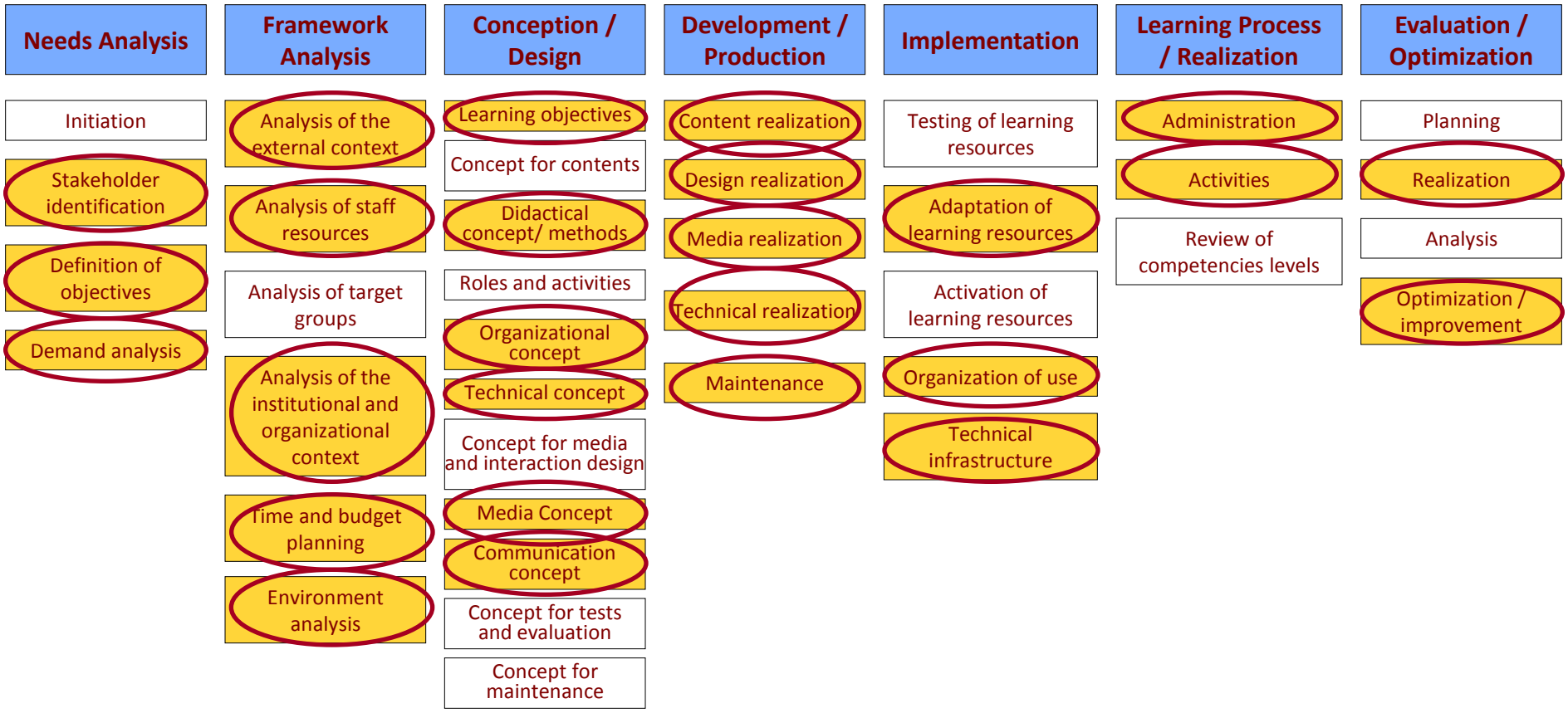
Standard: ISO/IEC 19796-1

The Reference Process Model:

Needs Analysis	Framework Analysis	Conception / Design	Development / Production	Implementation	Learning Process / Realization	Evaluation / Optimization
Initiation	Analysis of the external context	Learning objectives	Content realization	Testing of learning resources	Administration	Planning
Stakeholder identification	Analysis of staff resources	Concept for contents	Design realization	Adaptation of learning resources	Activities	Realization
Definition of objectives	Analysis of target groups	Didactical concept/ methods	Media realization	Activation of learning resources	Review of competencies levels	Analysis
Demand analysis	Analysis of the institutional and organizational context	Roles and activities	Technical realization	Organization of use		Optimization / improvement
	Time and budget planning	Organizational concept	Maintenance	Technical infrastructure		
	Environment analysis	Technical concept				
		Concept for media and interaction design				
		Media Concept				
		Communication concept				
		Concept for tests and evaluation				
		Concept for maintenance				

Standard: ISO/IEC 19796-1

Example of required adaptation:



Quality by Open Learning

Macro: Movement & Strategies

Meso: Frameworks & Standards

Micro: Competences & Communities

International Policies

UNESCO: OER Declaration

http://www.unesco.org/new/en/communication-and-information/access-to-knowledge/open-educational-resources/what-is-the-paris-oer-declaration

European Commission: Opening Up Education

http://ec.europa.eu/education/policy/strategic-framework/education-technology_en.htm

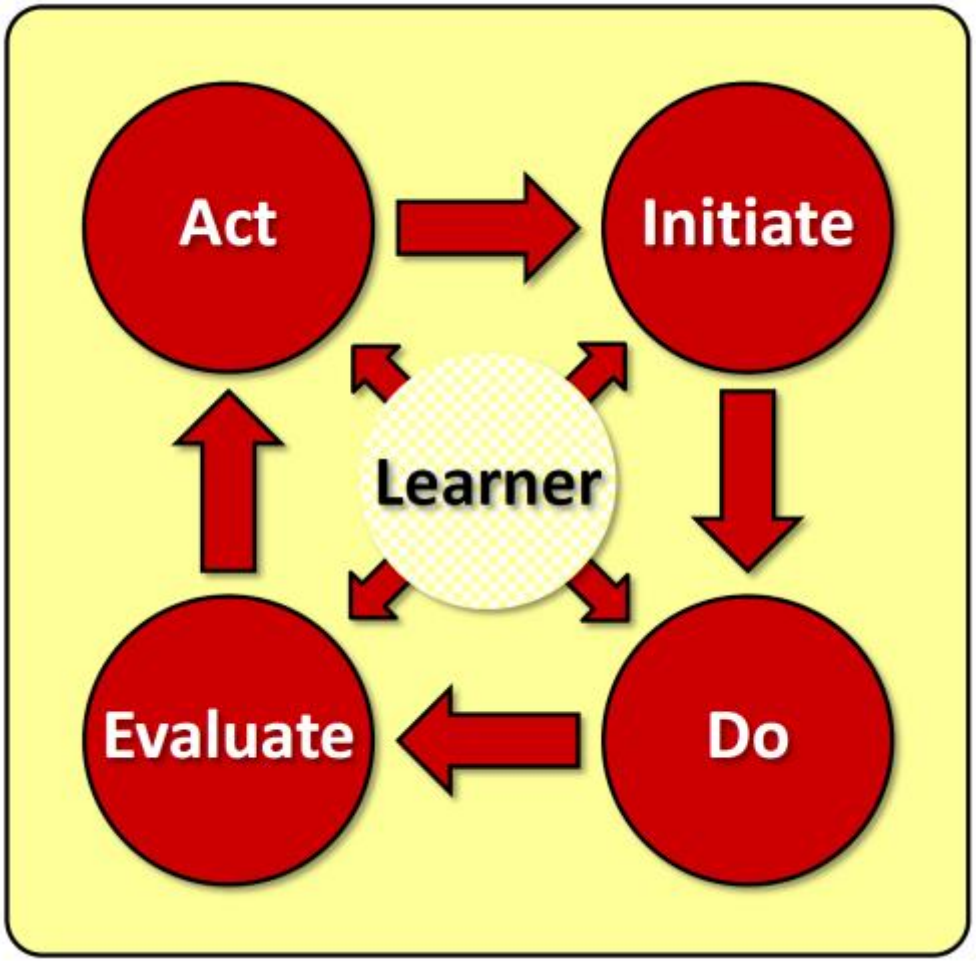
ICORE / OEC: Declaration of Crete

http://wiki.icore-online.org/index.php/ICORE_Declaration_of_Crete

Republic of the Philippines: Open Distance Learning Act

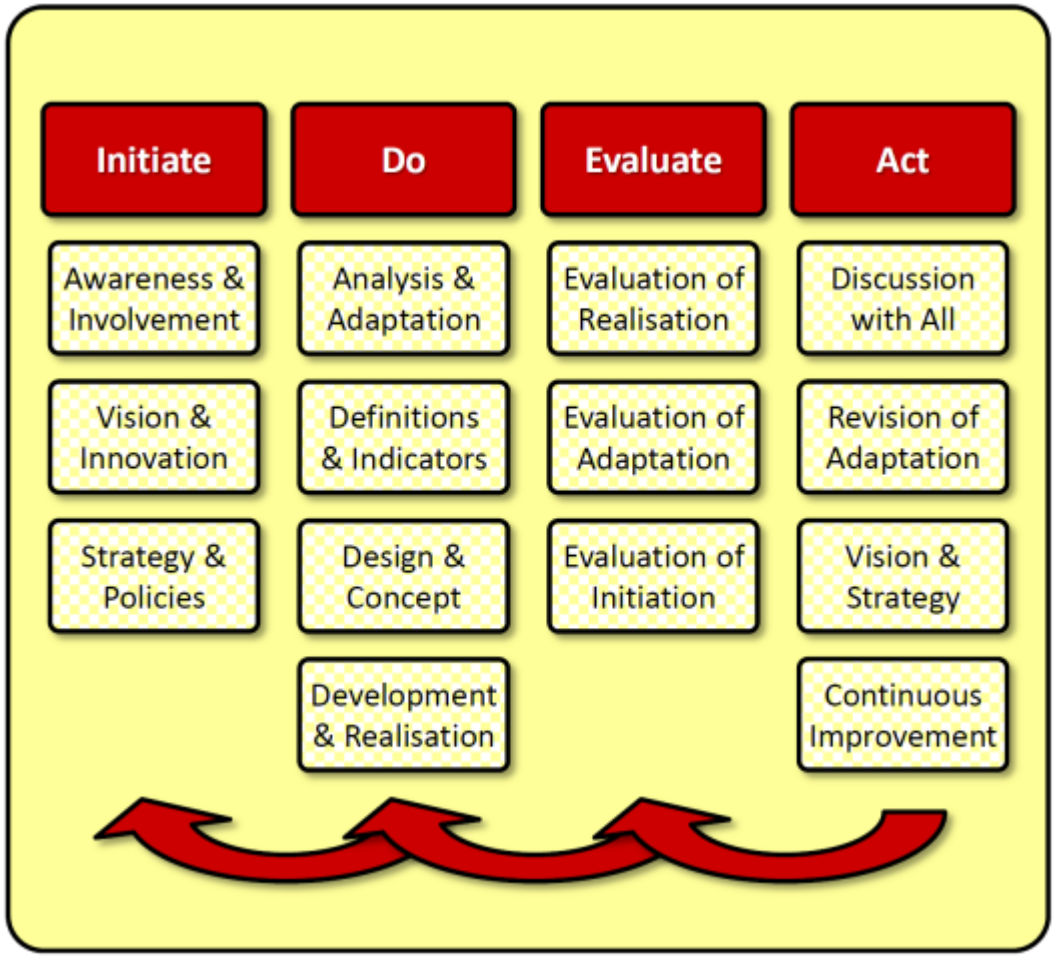
http://www.gov.ph/2014/12/09/republic-act-no-10650/

Strategies: IDEAL



Source: Stracke, C.M., 2012 and 2014

Strategies: IDEAL



Source: Stracke, C.M., 2012 and 2014

Speech Overview:

1. What is Open Education?
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5. **How to Participate?**

How to Open Education?

O Open your mind for openness
P Put an open license on it
E Enrich OER and share them
N Network with same minded
I Involve your management
N Notify your communities
G Generate consensus

How to Open Education?

U Unite your open collections
P Promote them worldwide

E Enter global movements
D Discuss with decision makers
U U make the difference!

LINQ

The leading European and international Conference on

Learning INnovations & Quality

www.learning-innovations.eu

LINQ 2013

Our Vision:

Open Learning for best future Learning Innovation and Learning Quality!

Please use: #LINQ2013
Follow: @LINQ_Conference

LINQ
2013

LINQ 2015

Our Vision:
Openness as Default!

First ICORE Workshops:
Follow up at ICDE 2015
in South Africa and at
OE Global 16 in Poland

Please use: #LINQ2015
Follow: @LINQ_Conference

ICORE

ICORE: International Community for Open Research and Open Education

Launched 15th May 2013 in Rome
Already more than 300 members within one year
First recognition by key stakeholders & EC:
Let us join forces and become ICORE member!

www.ICORE-online.org

LINQ 2014

Openness: Declaration of Crete!

Common ICORE and OEC Workshop

www.learning-innovations.eu

Please use: #LINQ2014
Follow: @LINQ_Conference

ICORE & OEC

Common ICORE & OEC Workshop: Connecting Open Research & Education

Declaration of Crete

Re-establishment of Openness as Default!

Approved 9th May 2014 (ICORE & OCW together with CC)

http://wiki.icore-online.org/index.php/ICORE_Declaration_of_Crete

www.ICORE-online.org

LINQ 2015

Our Vision:
Openness as Default!

First ICORE Workshops:
Follow up at ICDE 2015
in South Africa and at
OE Global 16 in Poland

Please use: #LINQ2015
Follow: @LINQ_Conference

ICORE

ICORE: The need for cooperation!

Series of ICORE Workshops with key organisations
“How to re-establish Openness as default?"
First ICORE Workshops at ICDE Conference
in South Africa & at OE Global 2016 in Poland!
Towards a global joint initiative!

www.ICORE-online.org

ATTENTION!!!

What is CC?

EXAMINATION!!!

ATTENTION!!!

What is CC?

What is Open Content?

EXAMINATION!!!

How can you participate?

Publish and share your content!

Re-use existing content!

Connect to colleagues!

creative commons

Conclusions

Source: https://www.flickr.com/photos/opensourceway/

Towards Open Learning

Let us Opening up Learning, Education and Training for ALL!

Open Education

for

inclusive & equitable quality education

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Inclusive:	**How to adapt?**	**OEP**
Equitable:	**How to offer?**	**OER**
Quality:	**How to improve?**	**IDEAL**
For all:	**How to deliver?**	**OA**

Innovation
and E-Learning
can help ...

but are only means

Open Education is a Vision that is happening!

Quality is most important for your situation & learners

Inclusion and equity for all for our Global Society!

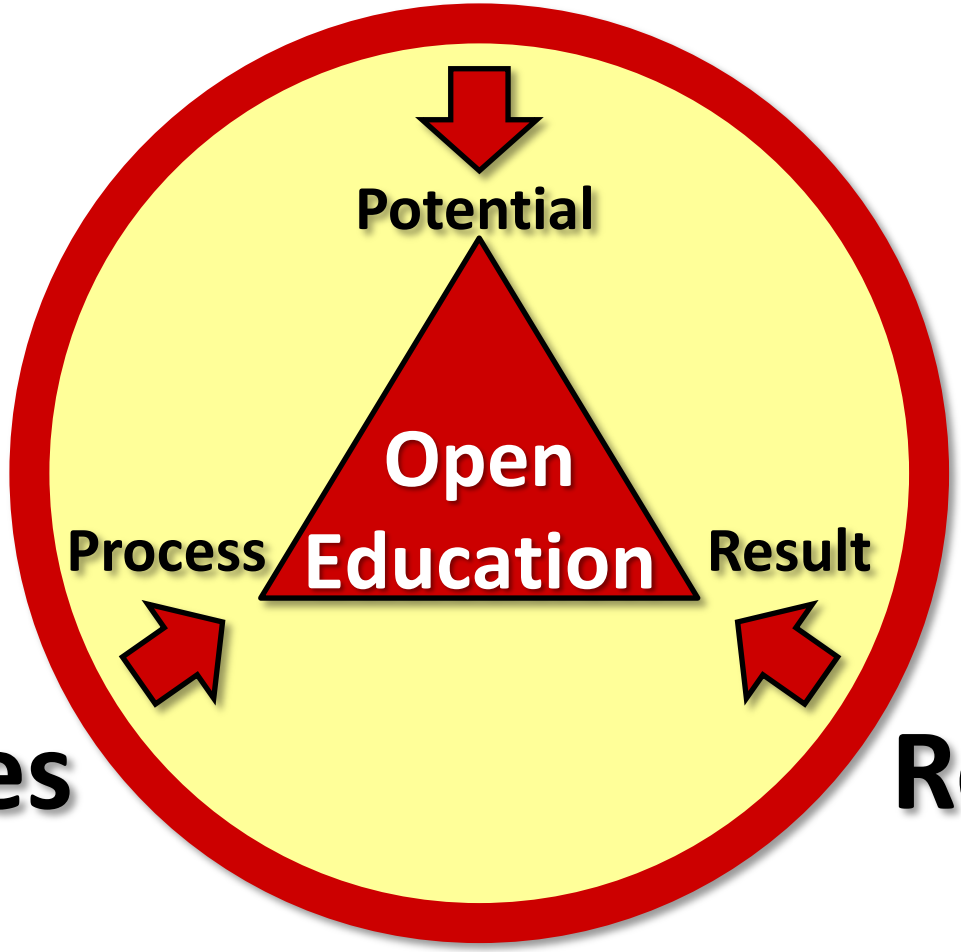
Change
in Education!

Quality

Quality
in Education!

... with fun!

Strategy



Practices

Resources

Based on Stracke, C.M., 2012 (adapted from Donabedian, 1980)

Quality: Most important

... and "new pedagogy" is important just the same!

Towards Open Learning

Let us Opening up Learning, Education and Training for ALL!

Further References

Stracke, C. M. (2016). Openness for learning quality and change by Open Education in theory and practice - Overview, history, innovations and policies: How can Open Learning, OER and MOOCs achieve impact for earners, organizations and in society? In T. Amiel (Ed.), *Utopias and Dystopias in Education*. Sao Paulo: UNICAMP. [in print]

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Stracke, C. M. (2015). The Need to Change Education towards Open Learning. In C. M. Stracke & T. Shamarina-Heidenreich (Eds.), *The Need for Change in Education: Openness as Default?*. Berlin: Logos. pp. 11-23.

All also online available at: http://www.opening-up.education

Further References

Stracke, C. M. (2014). How Innovations and Competence Development support Quality in Lifelong Learning. *The International Journal for Quality and Innovation* (INNOQUAL), Vol. 2 (3). pp. 35-44.

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Further References

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