



Open Education and Quality: The Need for Changing Strategies and Learning Experiences

@ UNESCO IITE 2016, St. Petersburg
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Research Centre for Learning, Teaching and Technology

Open Universiteit
welten-institute.org



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Welten Institute

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Selected Projects:

Competence and Skills Modelling



Technology-Enhanced Learning at Large Scale

Open Education and Research



Quality Management and Evaluation

Selected Projects:



www.inclusive-education.net



www.pure-h2o-learning.eu



www.aristotele-ip.eu



www.opendiscoveryspace.eu



www.ecompetence.eu



www.wacom-project.eu



www.isecure-edu.eu



www.mooc-quality.eu



www.agriculture-competences.eu



www.voa3r.eu



www.digifem.eu



www.eMundus-project.eu



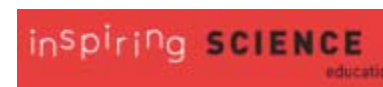
www.aristotele-ip.eu



www.learning-standards.eu



<http://lelle.gtk.uni-pannon.hu>



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

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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?**
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What is Open Education?

Open Questions 4U

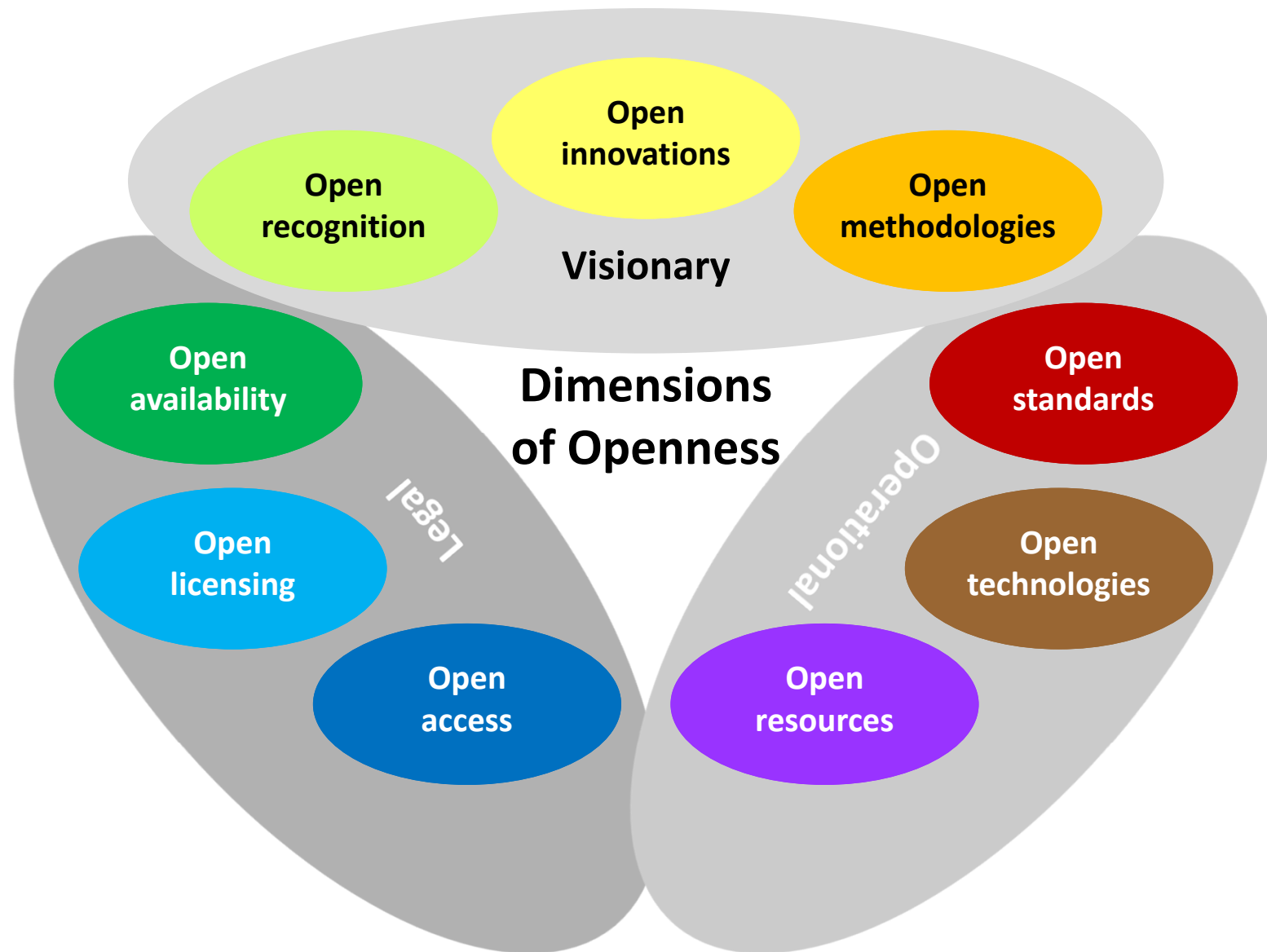
Who owns what you are designing?

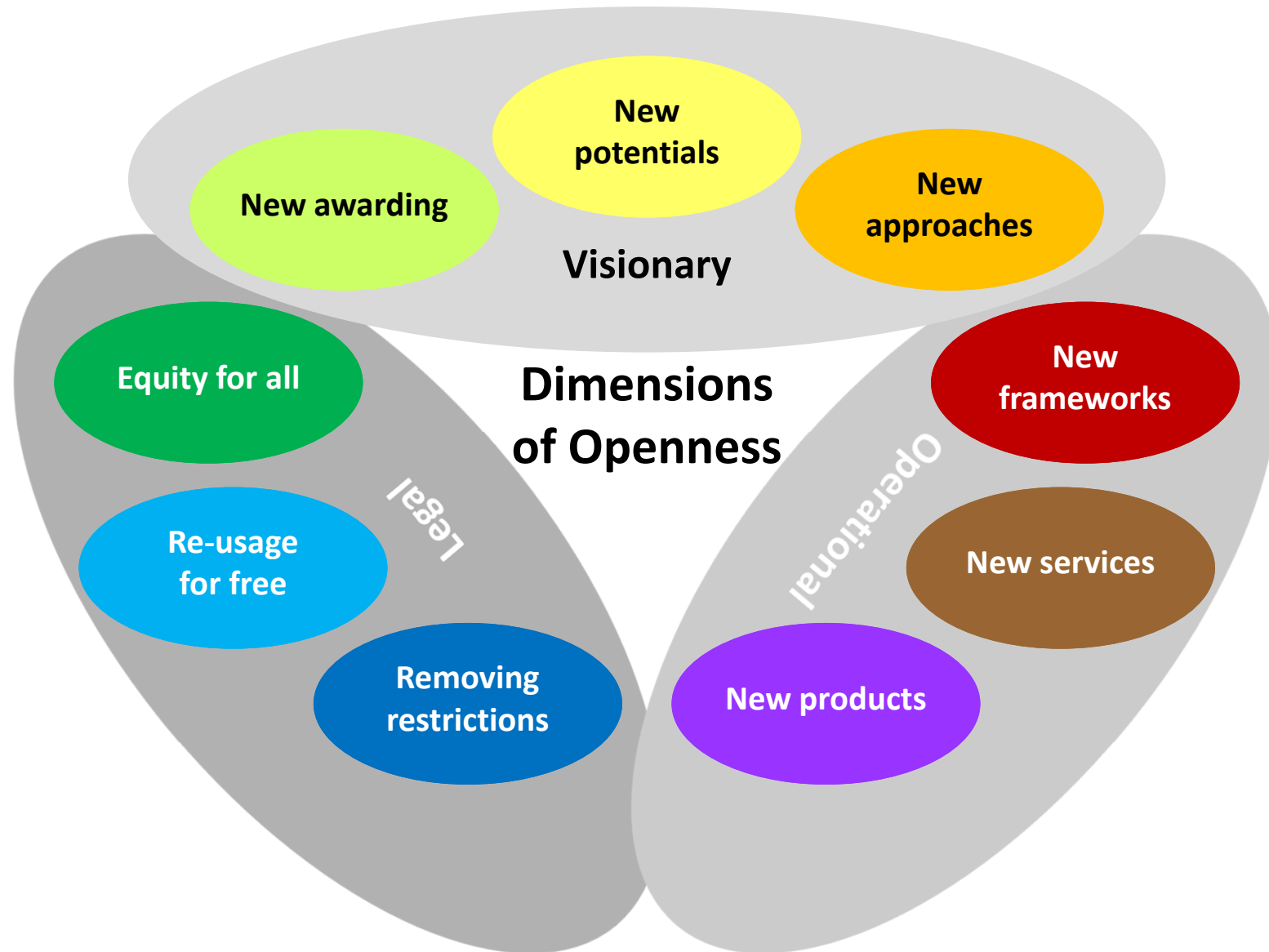
Who shares materials with colleagues?

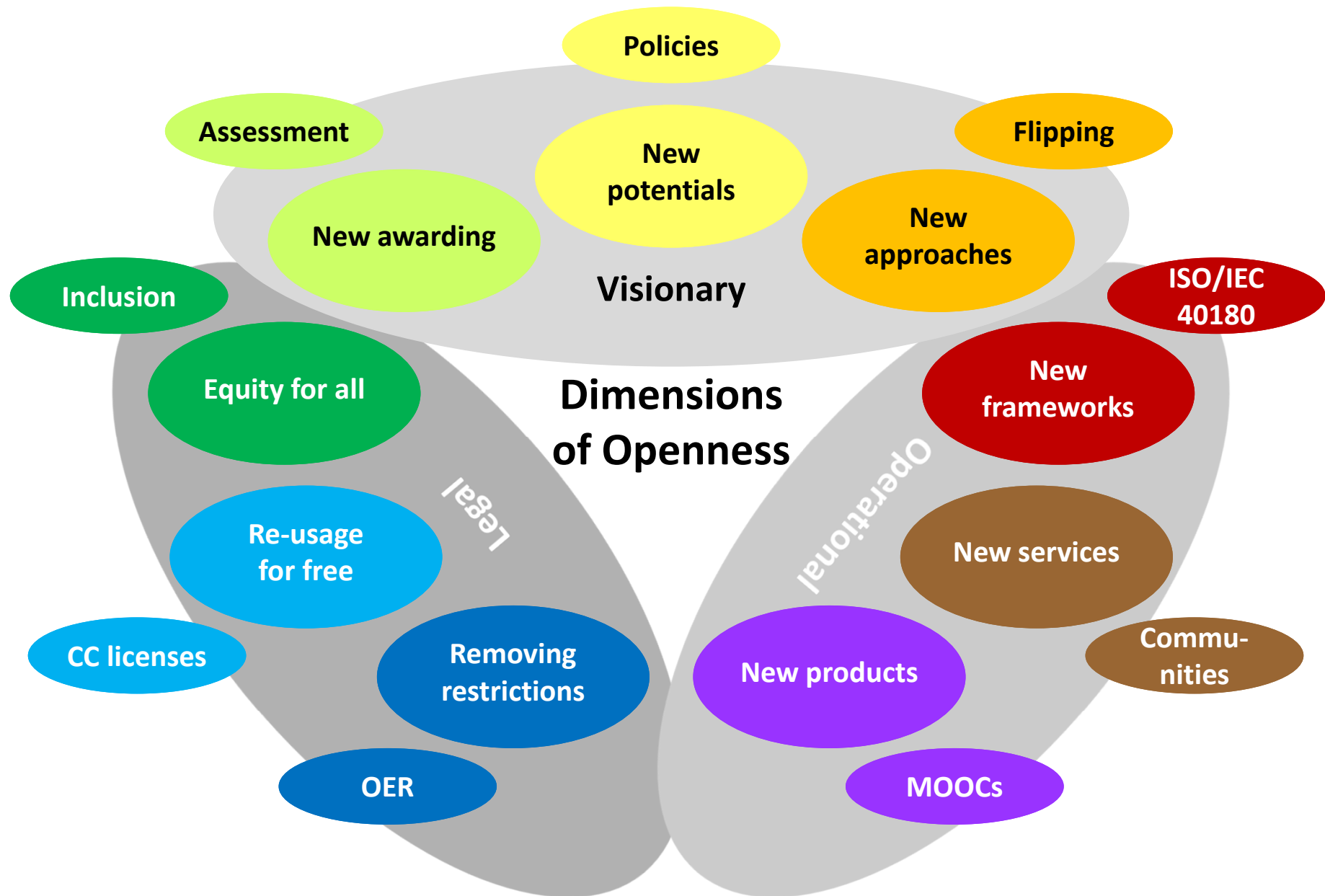
Who knows Open Education?



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

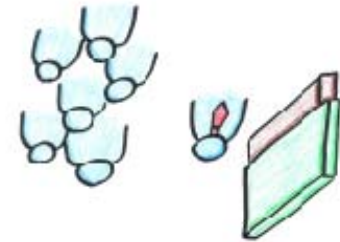








Waves of OE



1960s: Open Classrooms

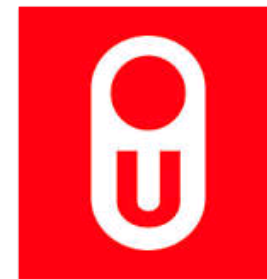
1960s: Open Universities

1990s: Open Educational Resources

2000s: Open Online Collaboration

2010s: Open Educational Practices

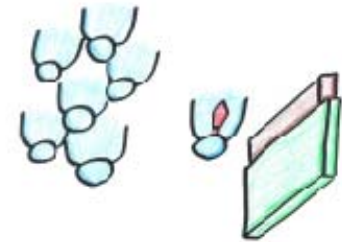
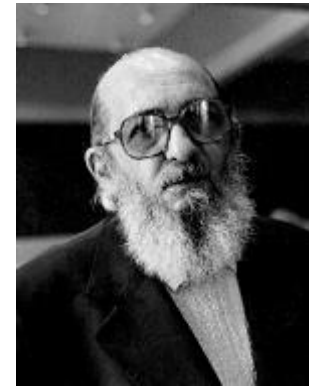
Now: Open Educational Environments



Open Education

1960s: Open Learning

- **Progressive education**
- **Flipped methodologies**
- **Open Universities**

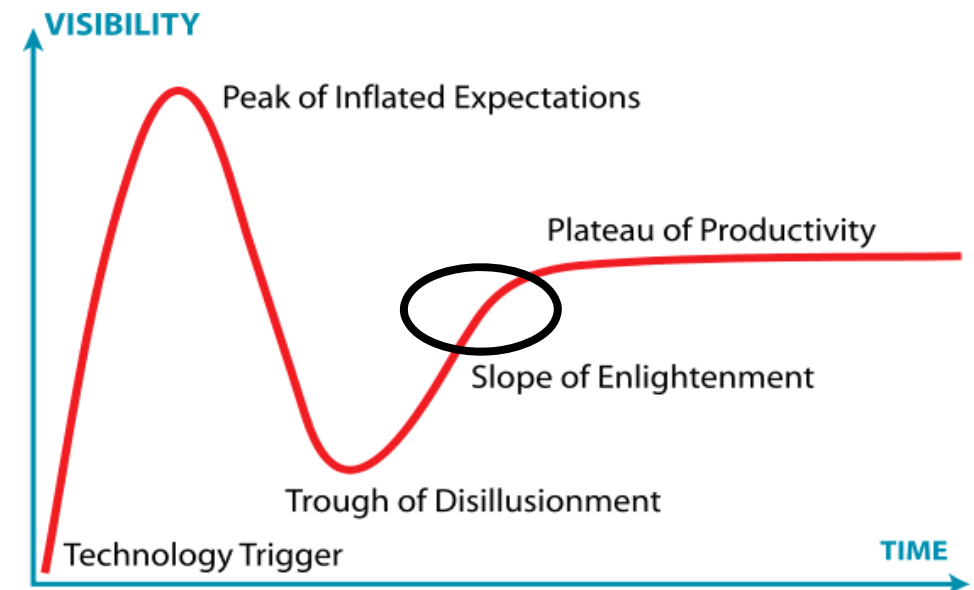


Open Education



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

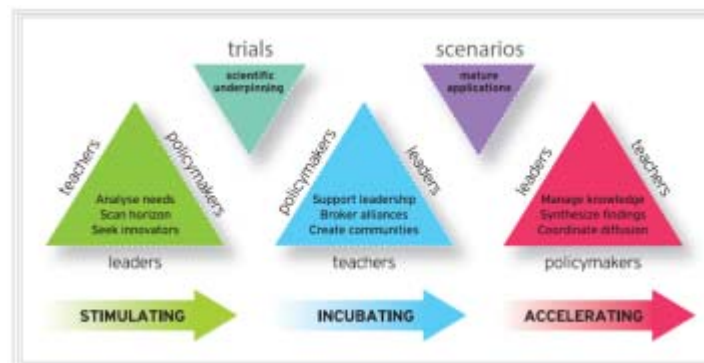


OPEN EDUCATIONAL RESOURCES

Back to Open Learning?

Now: Open Learning Environments

- Open methods
- Open policies
- Learner focus



Open Education

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:

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3. What is Quality in Education?
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The Digital Age

Two core factors:

- 1. Globalisation &**
- 2. Worldwide Internet**



Internationalization

Global Competitions and societal changes

**Close the gaps
& open new
opportunities**

**Challenges:
Learn to Learn**

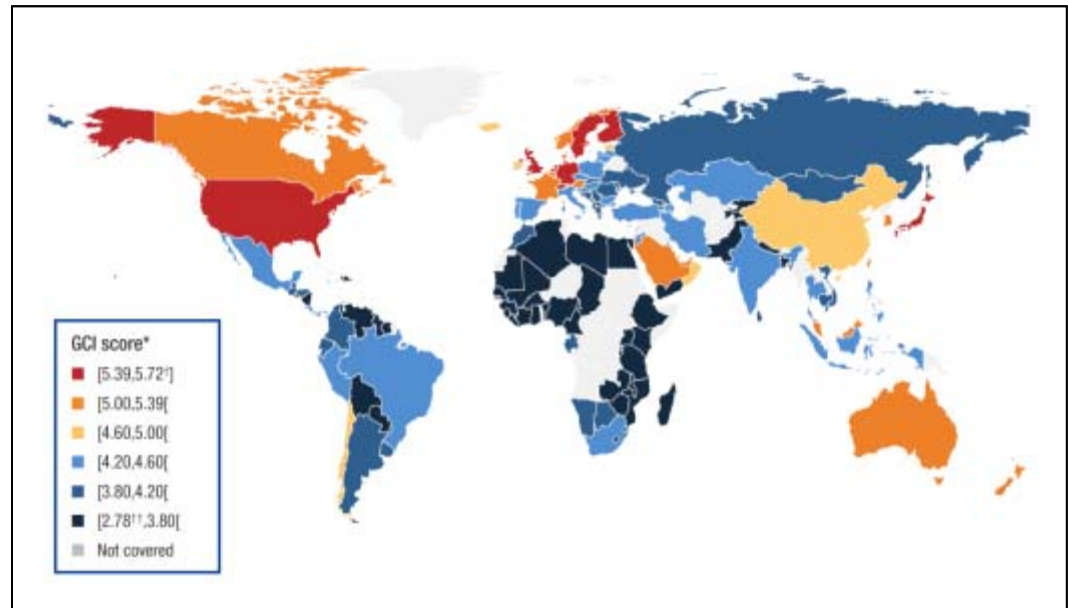
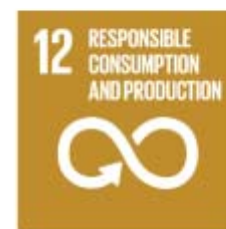


Figure: <http://www.weforum.org/issues/global-competitiveness>



SUSTAINABLE DEVELOPMENT GOALS



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

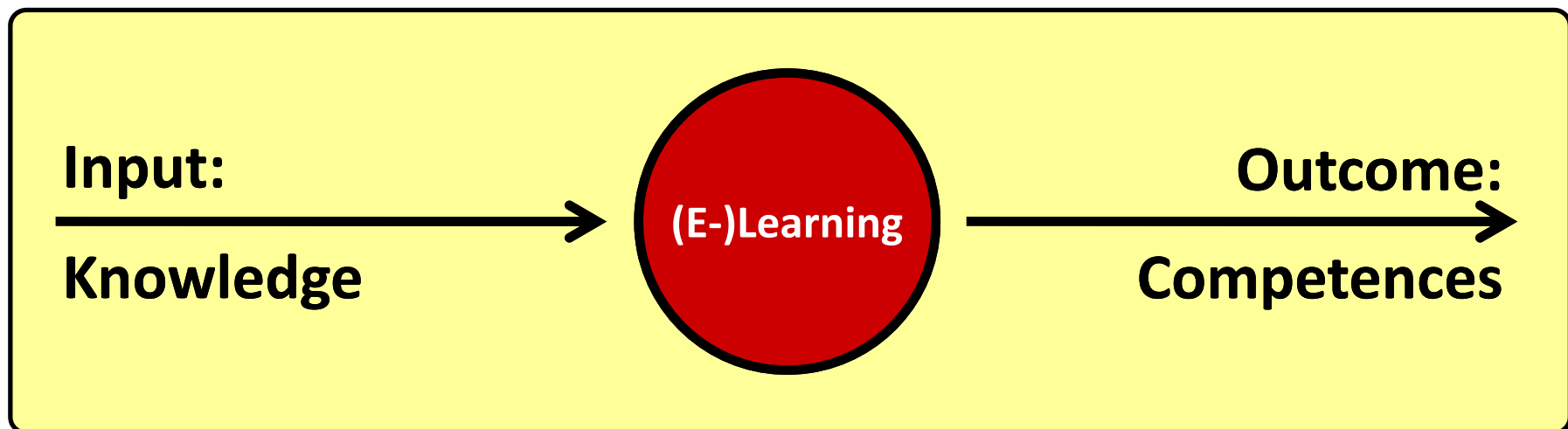


Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

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





Change in Education!

**To improve
Quality
in Education!**

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
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!**

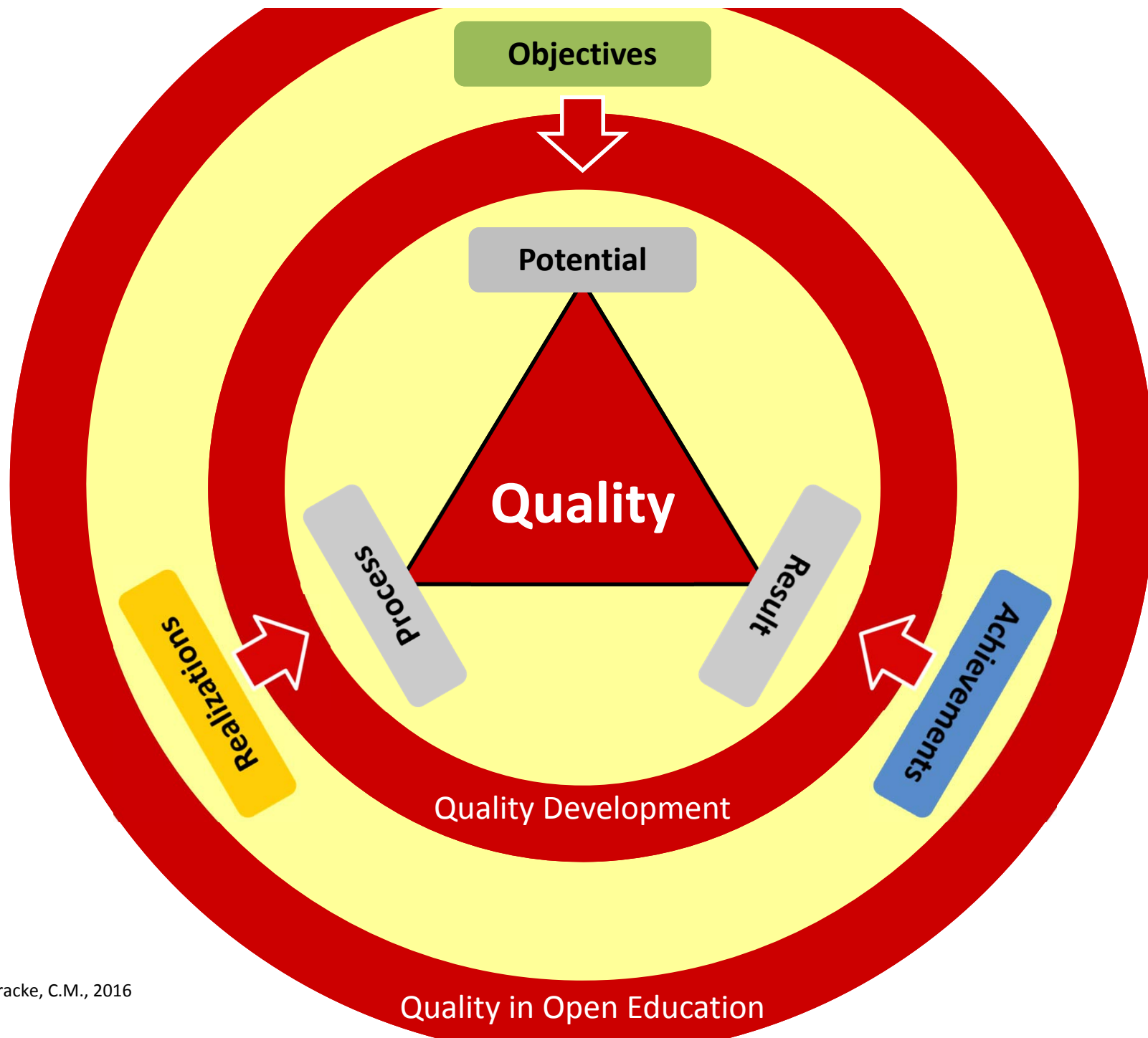
**What is
Quality?**

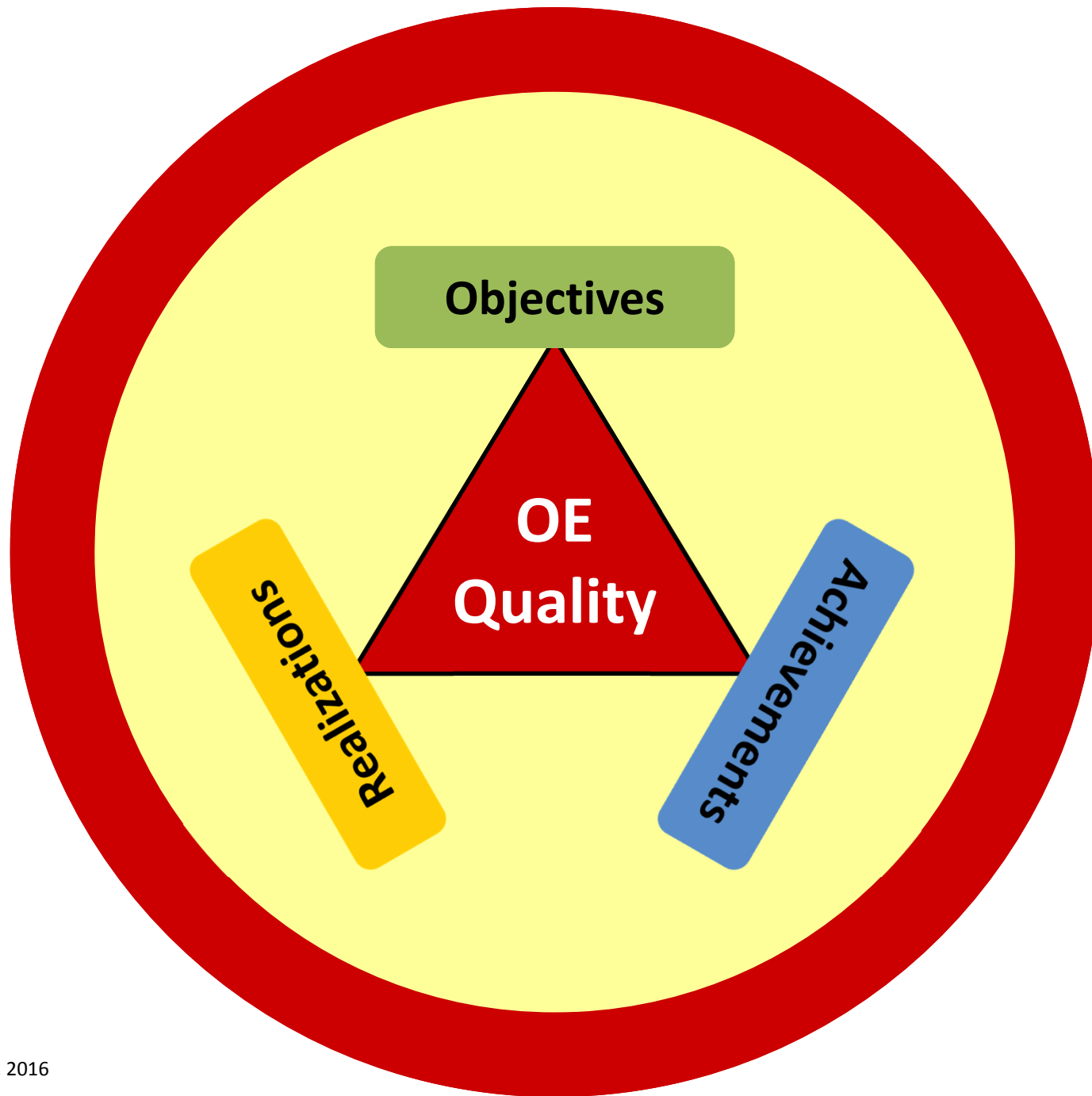
Quality

most important

**for Learning, Education
and Training!**







Open Education (OE)

Macro:

Policies and Curricula

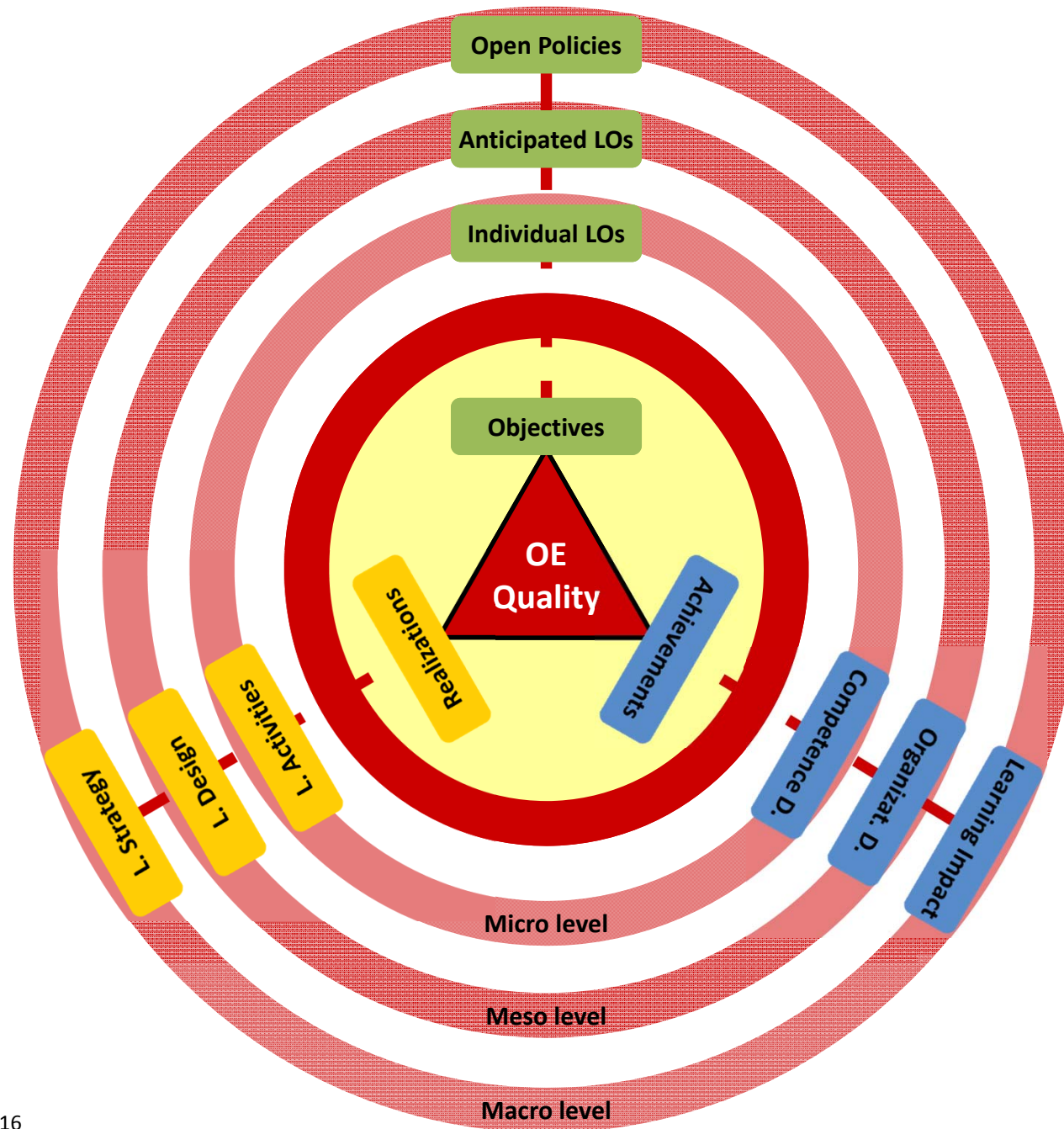
Strategic & organisational

Meso:

Organisation and Design

Micro:

Learner and Course



**Quality: Most important
... and "new pedagogy" is
important just the same!**





Quality in Education!

**Quality in
Open Education!**

... with fun!

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Open Education (OE)

Macro:

Policies and Curricula

Strategic & organisational

Meso:

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Learner and Course

Quality by OE

Macro:

Movement & Strategies

Strategic & organisational

Meso:

Frameworks & Standards

Micro:

Competence & Community

OUNL Video

**The Welten Research Institute:
Leading in Learning Innovations**



www.ou.nl/web/welten-about-us/home

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/>

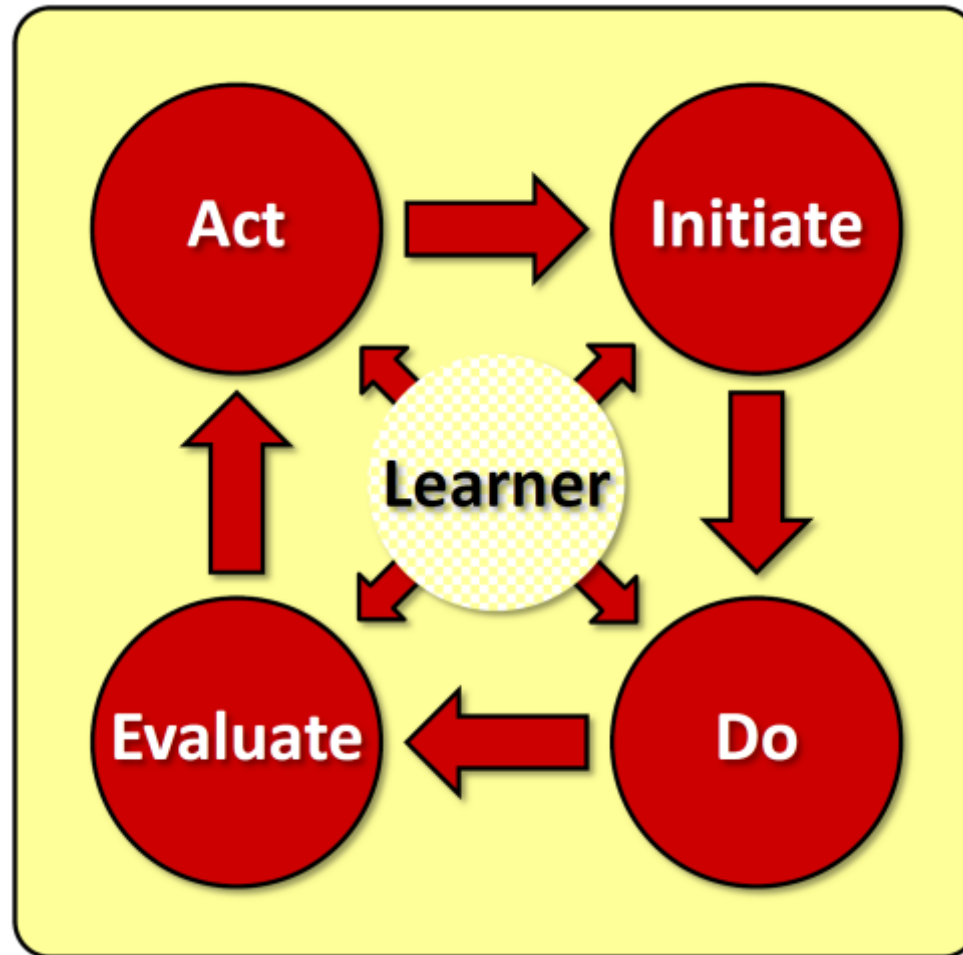
Quality by Open Learning

Macro: Movement & Strategies

Meso: Frameworks & Standards

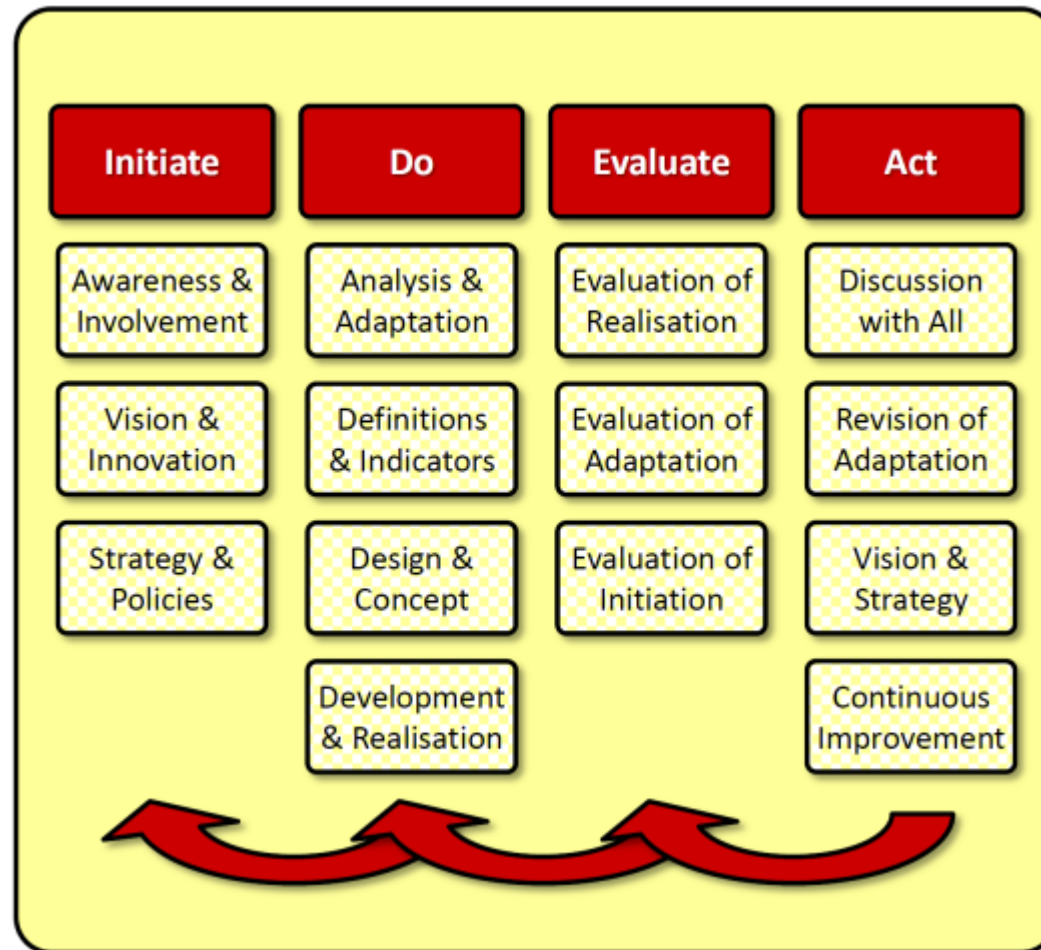
Micro: Competences & Communities

Strategies: IDEAL



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

Strategies: IDEAL



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:

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				

Quality by Open Learning

Macro: Movement & Strategies

Meso: Frameworks & Standards

Micro: Competences & Communities

Learn how to learn

**Learning-how-to-Learn:
The key competence in 21st century**

**Focus on inclusion of learning skills
into curricula**

lelle.gtk.uni-pannon.hu



Problem-based learning

**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



Open inclusive learning

**Evidence-based inclusive
school education in Europe**

**PROSEL for prosociality &
social emotional learning**



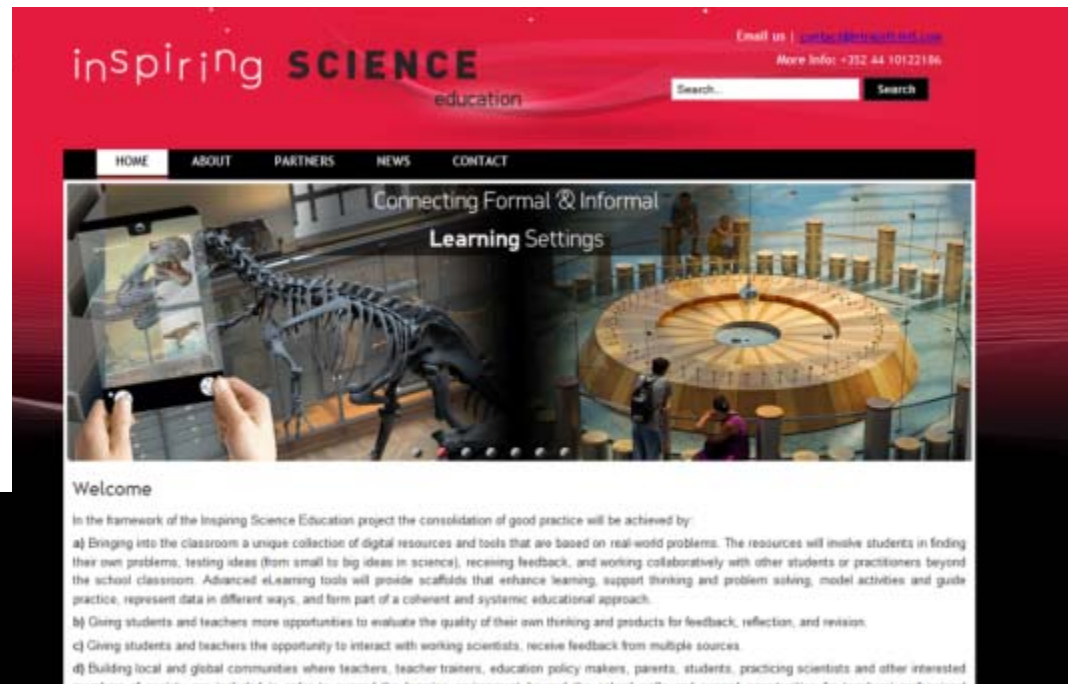
www.inclusive-education.net

Communities: ODS & ISE

> 10,000 teachers and
> 3,000 schools in 28 countries



www.opendiscoveryspace.eu



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

Open Schools

Facilitating Open Educational Practices

- **Open classrooms**
- **Competence focus**
- **OER re-use**



United Nations
Educational, Scientific and
Cultural Organization



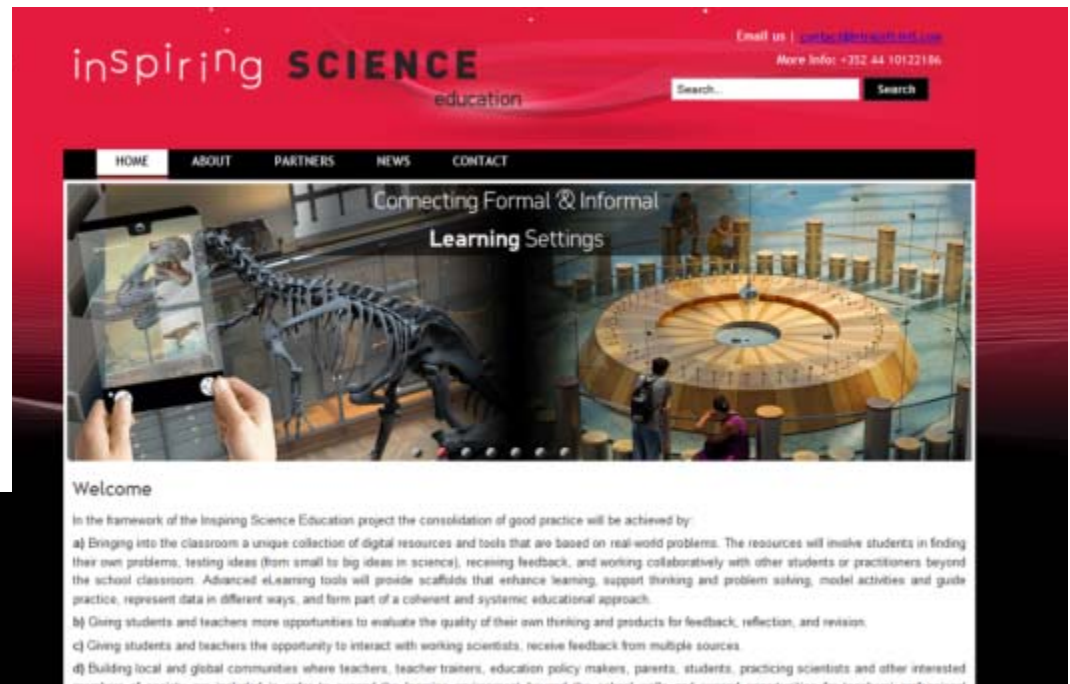
OPEN EDUCATIONAL RESOURCES

Open School Learning

> 10,000 teachers and
> 3,000 schools in 28 countries



www.opendiscoveryspace.eu



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

Open Discovery Space

The screenshot shows the Open Discovery Space website. At the top, there's a navigation bar with the URL 'www.opendiscoveryspace.eu', a search bar, and various icons. Below this is the 'OPEN DISCOVERY SPACE' logo. To the right of the logo is a login section with fields for 'Username or e-mail' and 'Password', a 'Log in' button, and a link to 'Request new password'. A central banner features the tagline 'linkup, create, share, grow' in a stylized font, followed by the text 'Supports teachers in creating unique teaching resources, share them within communities of interest and grow in their professional life'. To the right of the banner is a circular callout that says 'New in ODS? Join our teachers' community' and a link 'Learn more about ODS'. Below the banner is a large image of three children looking at a laptop. To the right of the image is a blue box with the text 'An inspiring afternoon of practice for Education...' and 'What should children learn to be fully prepared for life in the 21st century? Besides language and...'. At the bottom, there are five columns representing different sections: 'RESOURCES' (818632 RESOURCES), 'COMMUNITIES' (1153 COMMUNITIES), 'SCHOOLS' (2588 SCHOOLS), 'TEACHERS' (11676 TEACHERS), and 'ODS ACADEMIES' (165 ACTIVITIES). Each column has a brief description of its content.

www.opendiscoveryspace.eu

OPEN DISCOVERY SPACE

Username or e-mail

Password

Log in

Request new password

linkup, create, share, grow

New in ODS?
Join our teachers' community

Learn more about ODS

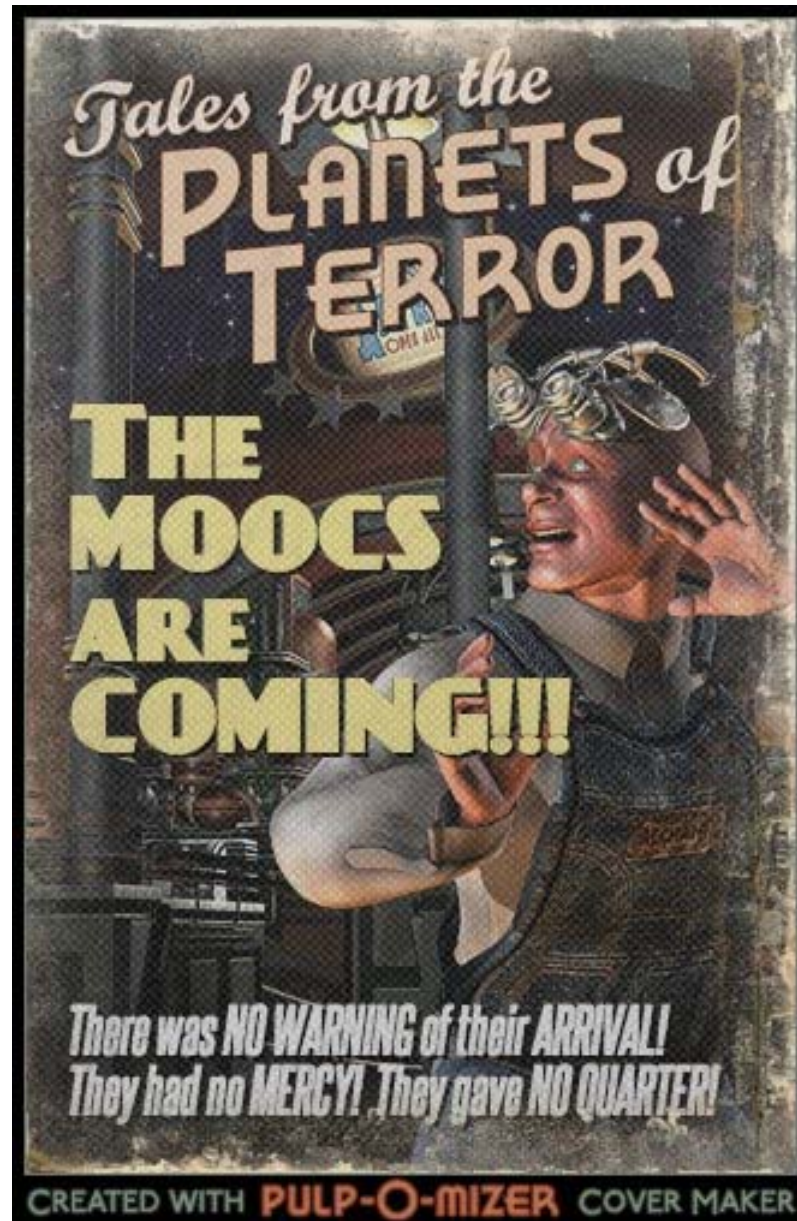
Supports teachers in creating unique teaching resources, share them within communities of interest and grow in their professional life

Search for educational resources...

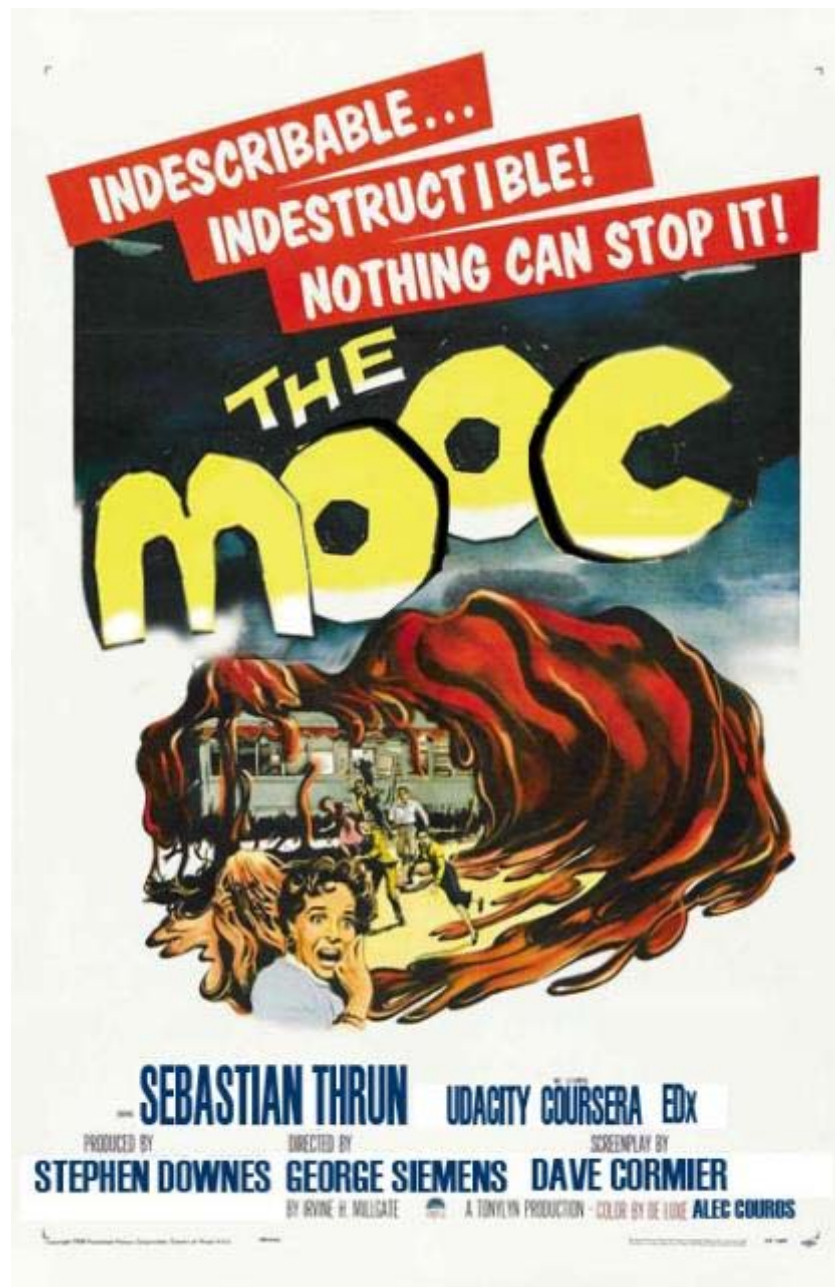
An inspiring afternoon of practice for Education...

What should children learn to be fully prepared for life in the 21st century? Besides language and...

RESOURCES	COMMUNITIES	SCHOOLS	TEACHERS	ODS ACADEMIES
EXPLORE OUR RESOURCES TO USE IN THE CLASSROOM AND PLAN YOUR LESSONS	SHARE EDUCATIONAL CONTENT THROUGH COMMUNITIES OR START YOUR OWN	NAVIGATE THROUGH THE SCHOOLS OF ODS NETWORK	BEING CONNECTED WITH OUR TEACHERS FROM ALL OVER THE EUROPE	FOLLOW THE ODS ACADEMIES TO IMPROVE YOUR PROFESSIONAL EDUCATION
818632 RESOURCES	1153 COMMUNITIES	2588 SCHOOLS	11676 TEACHERS	165 ACTIVITIES



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



Source: <https://www.flickr.com/photos/gforsythe/>



Source: <https://www.flickr.com/photos/-ed/>

MOOCs

Massive Open Online Courses

cMOOCs vs. xMOOCs (vs. yMOOCs?)

Openness?

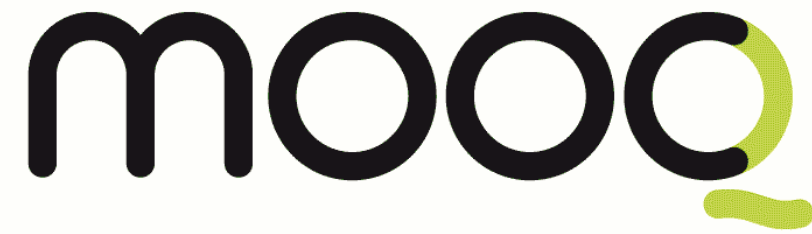
Quality?

Tutoring?

Completion rate?

The big advantage:

Mass marketing for E-Learning



**WE WILL MAKE
MOOCs BETTER!**

www.mooc-quality.eu



Quality Reference Framework with indicators for design & comparison

Launch of MOOC Survey at EDEN 2016:

<http://goo.gl/forms/dsjqwDl6jZ5iOmZx2>

or go to: [www.MOOC-quality.eu/news](http://www.mooc-quality.eu/news)

www.mooc-quality.eu

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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



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



How can you participate?

Publish and share your content!

Re-use existing content!



Connect to colleagues!



Conclusions



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



Open Learning for inclusive equity & high quality education for all

We need ...

1. Education to change

2. Quality Education

**Open Education can
facilitate these changes**

Open Education is a **Vision
that is happening!**

****Quality** is most important
for your situation & learners**

**Inclusion and equity for all
to improve our **Global Society!****

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

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

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

Towards Open Learning

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



Let us cooperate!



christian.stracke@ou.nl



@ChrMStracke

www.opening-up.education

Let us connect!

© Sabine Dertinger

www.opening-up.education

Thank you! Questions?

Welten Institute

Research Centre for Learning, Teaching and Technology

Open Universiteit
welten-institute.org



Open questions 4U

Your opinion about Open Education?

What are your OE policies?

How will you use OER?

Which quality indicators for you?