The background features several overlapping, wavy lines in various shades of green, creating a sense of motion and depth. The lines are most prominent on the left and right sides, framing the central text.

mooq

**WE WILL MAKE
MOOCs BETTER!**

www.mooc-quality.eu



The quality of MOOCs: Results from three research surveys and discussion of the QRF

@ OE Global 2017, Cape Town
by **Christian M. Stracke et al.**

Open University of the Netherlands



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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

International WLS / LINQ Conference

eLC European Institute

ICDE Chair in OER




Welten Institute
Research Centre for Learning, Teaching and Technology

Open Universiteit
welten-institute.org





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

The background features several overlapping, wavy lines in various shades of green, ranging from light lime to a darker forest green. These lines create a sense of movement and flow, framing the central text.

mooq

**WE WILL MAKE
MOOCs BETTER!**

www.mooc-quality.eu

Quality Open Education

What is Open Education (OE)?

Quality dimensions of OE in practice?

Quality indicators for OE in practice?



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

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****

The Digital Age

Two core factors:

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

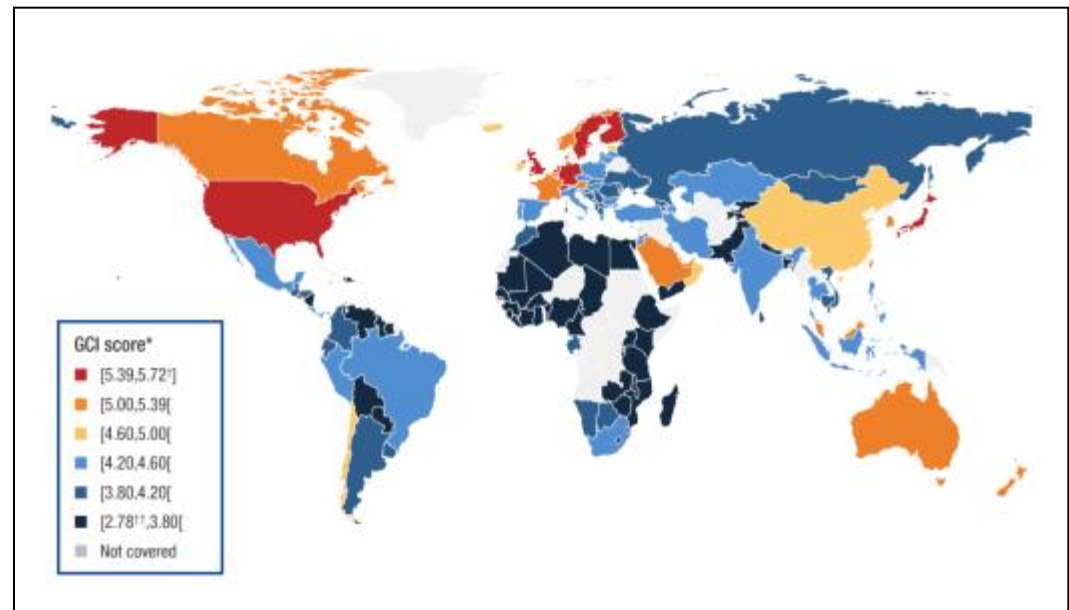


Internationalization

Global Competitions and societal changes

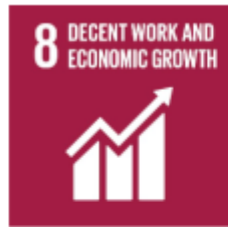
**Close the gaps
& open new
opportunities**

**Challenges:
Learn to Learn**





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



1 NO POVERTY
End poverty in all its forms everywhere



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



3 GOOD HEALTH AND WELL-BEING
Ensure healthy lives and promote well-being for all at all ages

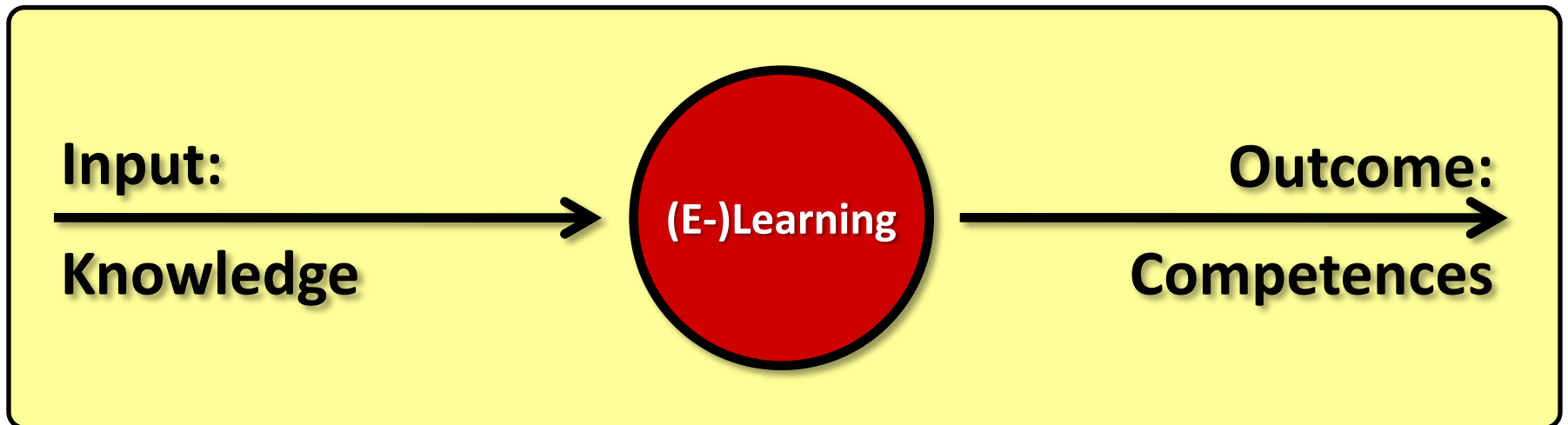


4 QUALITY EDUCATION
Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

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!**

**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!**

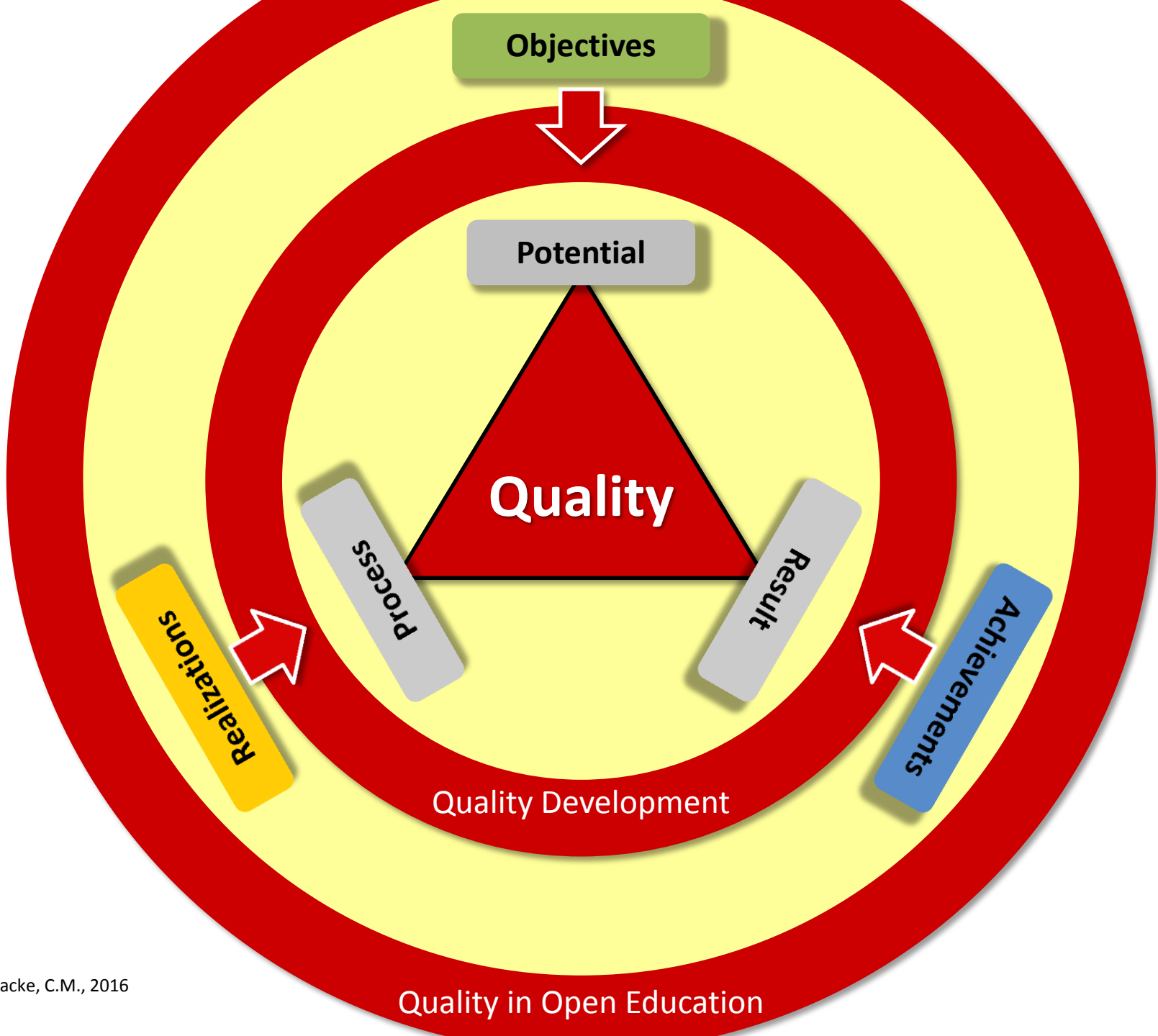
**What is
Quality?**

Quality

most important

**for Learning, Education
and Training!**







Open Education (OE)

Macro:

Policies and Curricula

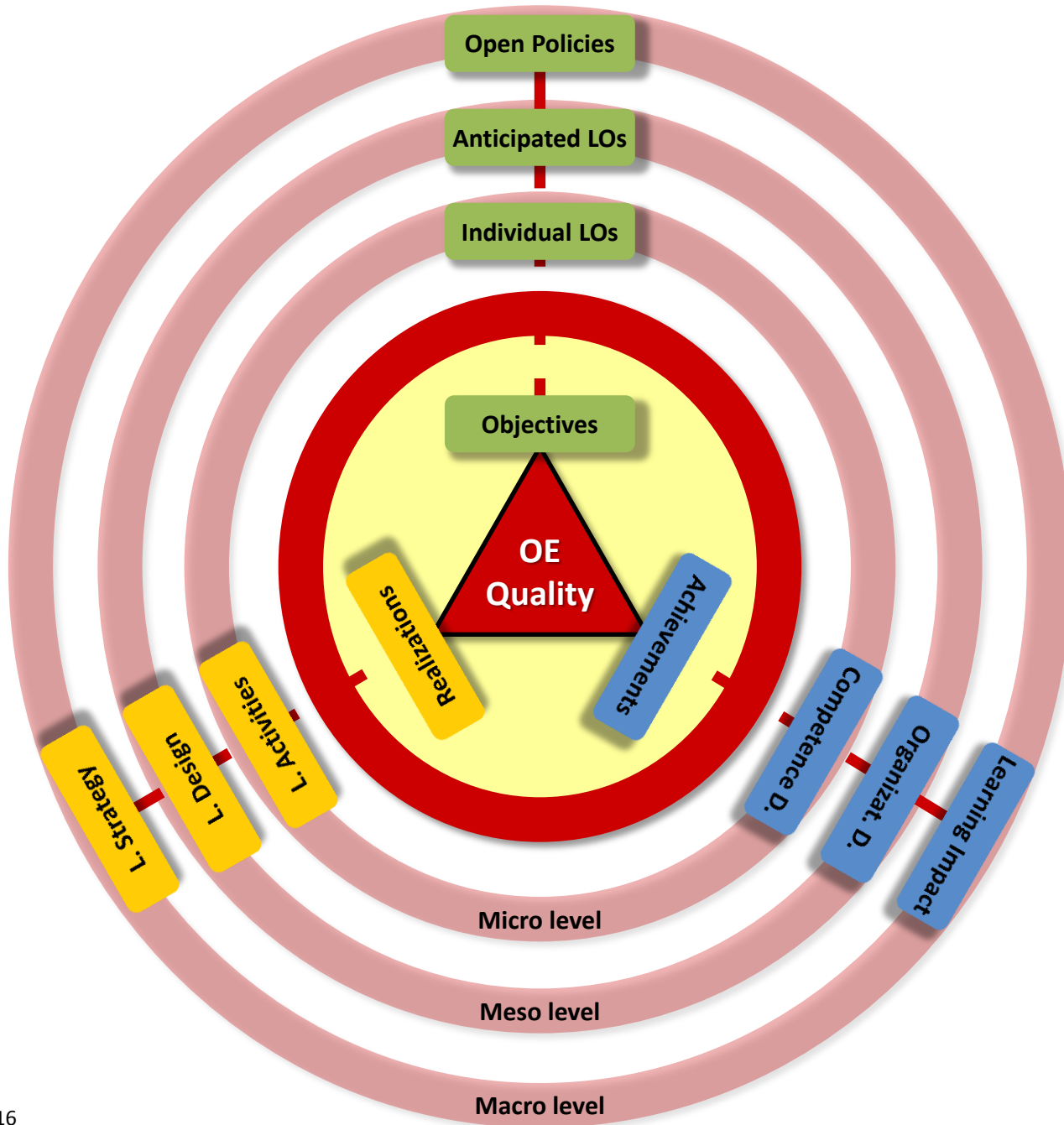
Strategic & organisational

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!

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

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/>

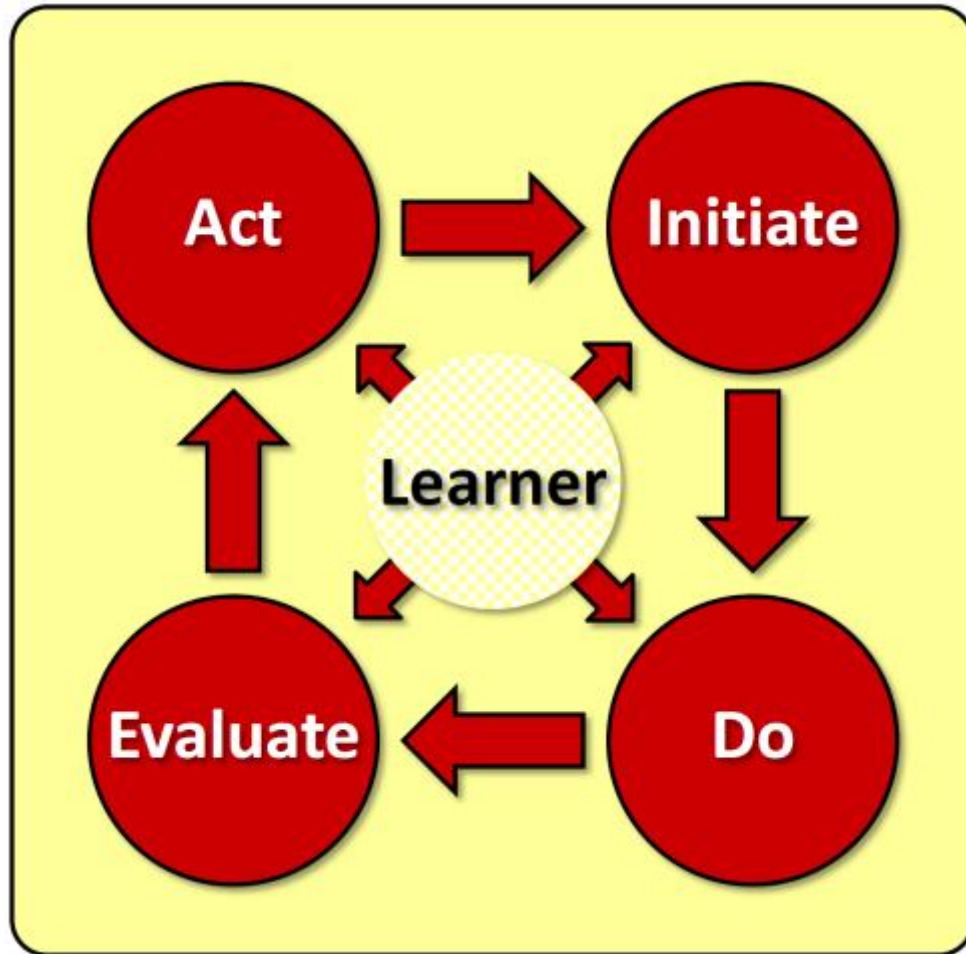
Quality by Open Learning

Macro: Movement & Strategies

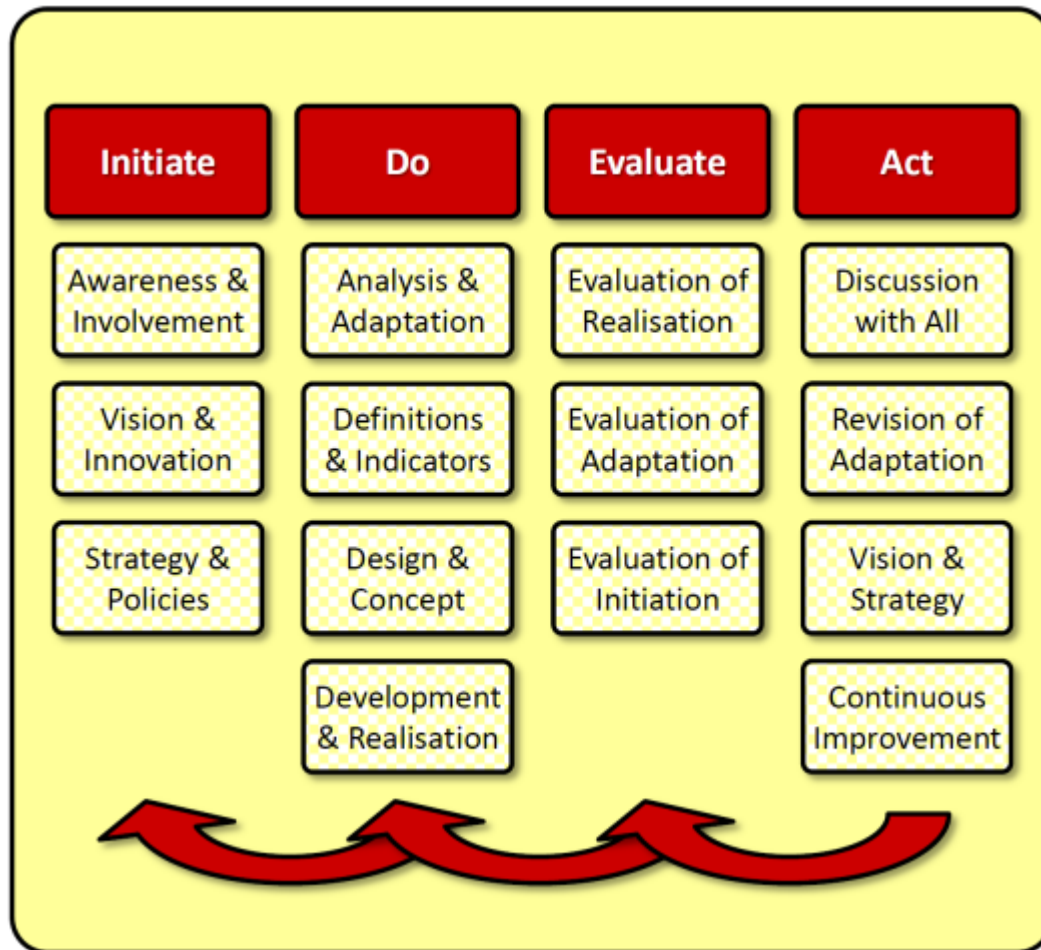
Meso: Frameworks & Standards

Micro: Competences & Communities

Strategies: IDEAL

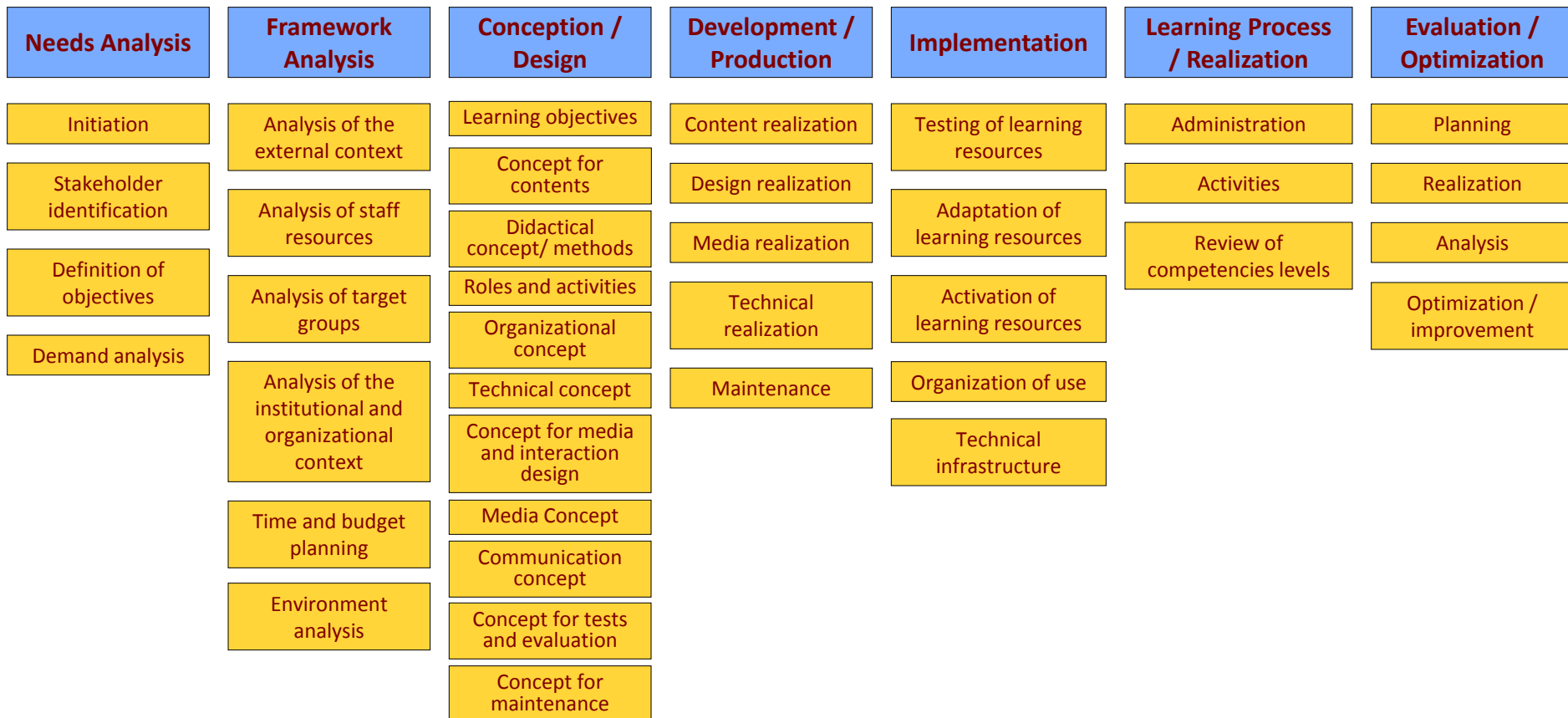


Strategies: IDEAL



Standard: ISO/IEC 19796-1

The Reference Process Model:



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

Home Project News Dissemination Events Community Consortium Contact

CONTENT PROVIDERS

PARENTS

POLICY MAKERS

TEACHERS

Welcome to Open Discovery Space

OpenDiscoverySpace: Unique Resources just a click away!

www.opendiscoveryspace.eu

inspiring SCIENCE education

Email us | contact@inspiring-science.eu
More info: +352 44 10122186

Search... Search

HOME ABOUT PARTNERS NEWS CONTACT

Connecting Formal & Informal Learning Settings

Welcome

In the framework of the Inspiring Science Education project the consolidation of good practice will be achieved by:

- Bringing into the classroom a unique collection of digital resources and tools that are based on real-world problems. The resources will involve students in finding their own problems, testing ideas (from small to big ideas in science), receiving feedback, and working collaboratively with other students or practitioners beyond the school classroom. Advanced eLearning tools will provide scaffolds that enhance learning, support thinking and problem solving, model activities and guide practice, represent data in different ways, and form part of a coherent and systemic educational approach.
- Giving students and teachers more opportunities to evaluate the quality of their own thinking and products for feedback, reflection, and revision.
- Giving students and teachers the opportunity to interact with working scientists, receive feedback from multiple sources.
- Building local and global communities where teachers, teacher trainers, education policy makers, parents, students, practicing scientists and other interested members of society are involved in order to ensure the learning environment beyond the school walls and extend opportunities for teachers' professional

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

Home Project News Dissemination Events Community Consortium Contact

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

Open Discovery Space

The screenshot shows the Open Discovery Space website. At the top left is the logo with the text "ODS OPEN DISCOVERY SPACE". To the right is a login section with fields for "Username or e-mail" and "Password", a "Log in" button, and a link for "Request new password". Below the logo is a navigation bar with the slogan "linkup, create, share, grow" and a call to action "New in ODS? Join our teachers' community". A search bar is also present with the placeholder "Search for educational resources...". The main content area features a large image of three children looking at a laptop, with the text "An inspiring afternoon of practice for Education..." and a sub-headline "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 categories: RESOURCES (818632), COMMUNITIES (1153), SCHOOLS (2588), TEACHERS (11676), and ODS ACADEMIES (165).

www.opendiscovery.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

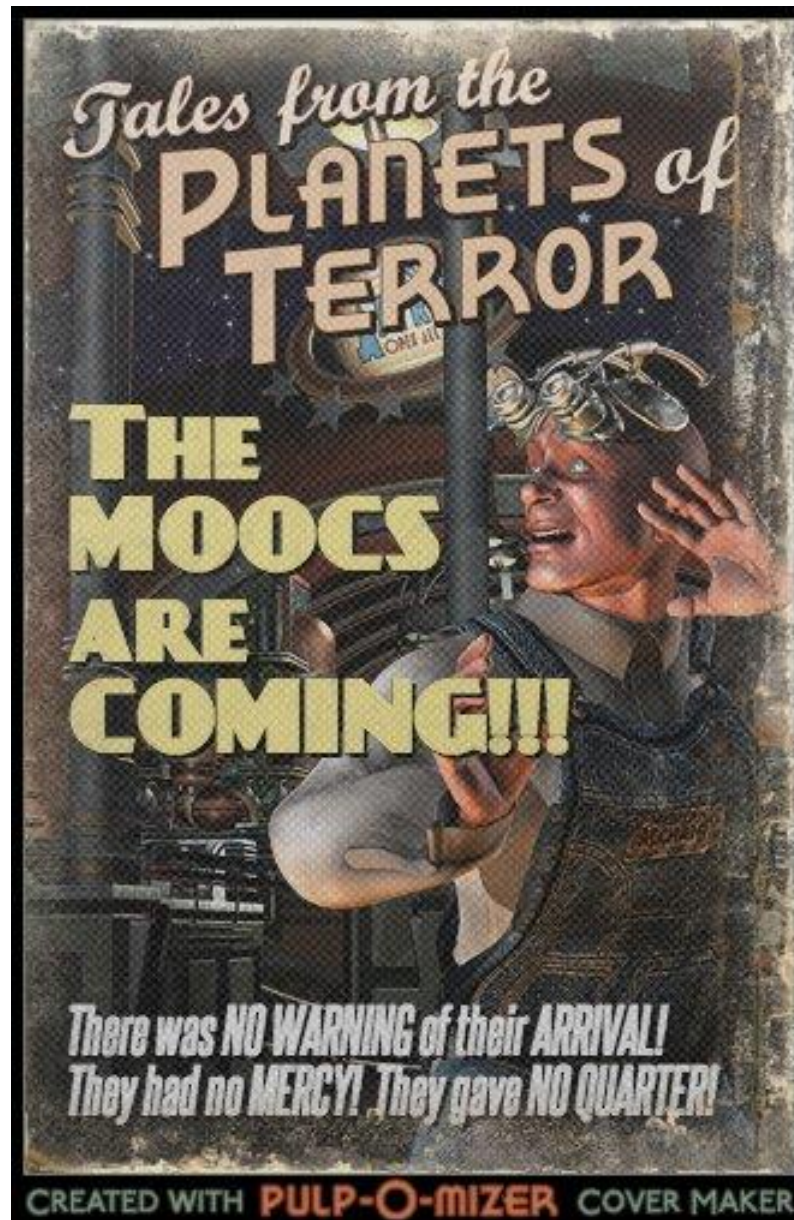
Learn more about ODS

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/>

**INDESCRIBABLE...
INDESTRUCTIBLE!
NOTHING CAN STOP IT!**

THE MOOC



SEBASTIAN THRUN UDACITY COURSERA EDX
PRODUCED BY **STEPHEN DOWNES** DIRECTED BY **GEORGE SIEMENS** SCREENPLAY BY **DAVE CORMIER**
BY IRVING H. MULLIGATE  A TONYLYN PRODUCTION - COLOR BY DE LOUX **ALEC COURDS**



MOOCs

Massive Open Online Courses

cMOOCs vs. xMOOCs (vs. yMOOCs?)

Openness?


Quality?

Tutoring?

Completion rate?

The big advantage:

Mass marketing for E-Learning

The background features several overlapping, wavy lines in various shades of green, creating a sense of motion and depth. The lines are most prominent on the left and right sides, framing the central text.

mooq

**WE WILL MAKE
MOOCs BETTER!**

www.mooc-quality.eu



Quality Reference Framework with indicators for design & comparison

Our main goal is the collaboration with all to improve future MOOC design for better MOOC learning experiences



**Three main surveys for learners,
designers and facilitators of MOOCs**

Please support us to improve next MOOCs:

www.survey.MOOC-quality.eu

Your feedback is most welcome!

The logo for MOOC, consisting of the letters 'moooc' in a lowercase, sans-serif font. The 'o' at the end is stylized with a yellow-to-green gradient and a small yellow dot below it.

moooc

A background of flowing, translucent green lines that create a sense of movement and energy, starting from the left and curving towards the right.

**Join our Global
MOOC Survey!**

www.mooc-quality.eu

Global MOOC Survey

Global Survey on the
Quality of MOOCs

[Load unfinished survey](#)

[Exit and clear survey](#)



Global Survey on the Quality of MOOCs

This Global Survey aims at improving the Quality of MOOCs and is facilitated by the [European Alliance MOOQ](#). Thank you very much for your participation!

WELCOME to the Global Survey on the Quality of MOOCs!

Dear Participant,

The survey addresses MOOC learners, MOOC designers and MOOC facilitators. It begins with a few questions on your profile before you are asked to select the survey section that fits best to your main role in MOOCs (i.e., either as MOOC learner, MOOC designer, or MOOC facilitator).

Please support us to improve the quality of future MOOCs and take 20 - 30 minutes to answer our questions. Thank you very much for your time!

We value your privacy and guarantee your privacy and data protection: [Please read our privacy statement here.](#)

To start the Global Survey, click the button "Next" below, you can save the Global Survey and continue it later at any time. It runs until the end of March 2017.

The Global Survey is organized by the [European Alliance MOOQ](#) led by the [Open University of the Netherlands](#), and is supported by:

[United Nations' UNESCO IITE](#), [United Nations' ITCILO](#), [United Nations' FAO](#), [United Nations' UNITAR](#), [International Council for Distance and Open Learning \(ICDE\)](#), [Commonwealth of Learning \(COL\)](#), [International Community for Open Research and Education \(ICORE\)](#), [European Association of Distance Teaching Universities \(EADTU\)](#), [European Distance and E-Learning Network \(EDEN\)](#), [European Association for Technology-Enhanced Learning \(EATEL\)](#), [Open Education Consortium \(OEC\)](#), [Contact North \(CN\)](#), [European Association for Practitioner Research on Improving Learning \(EAPRIL\)](#) and many more

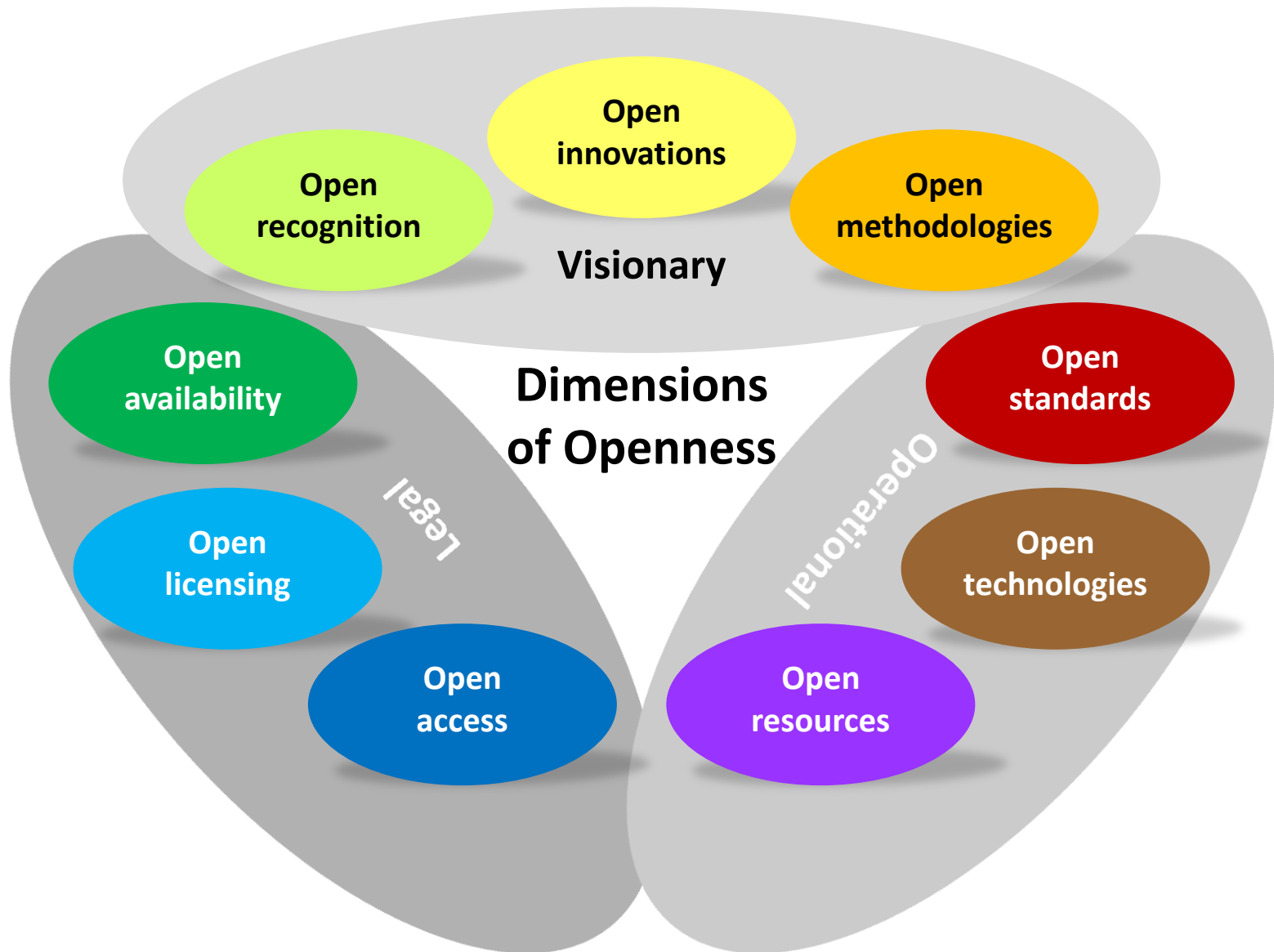


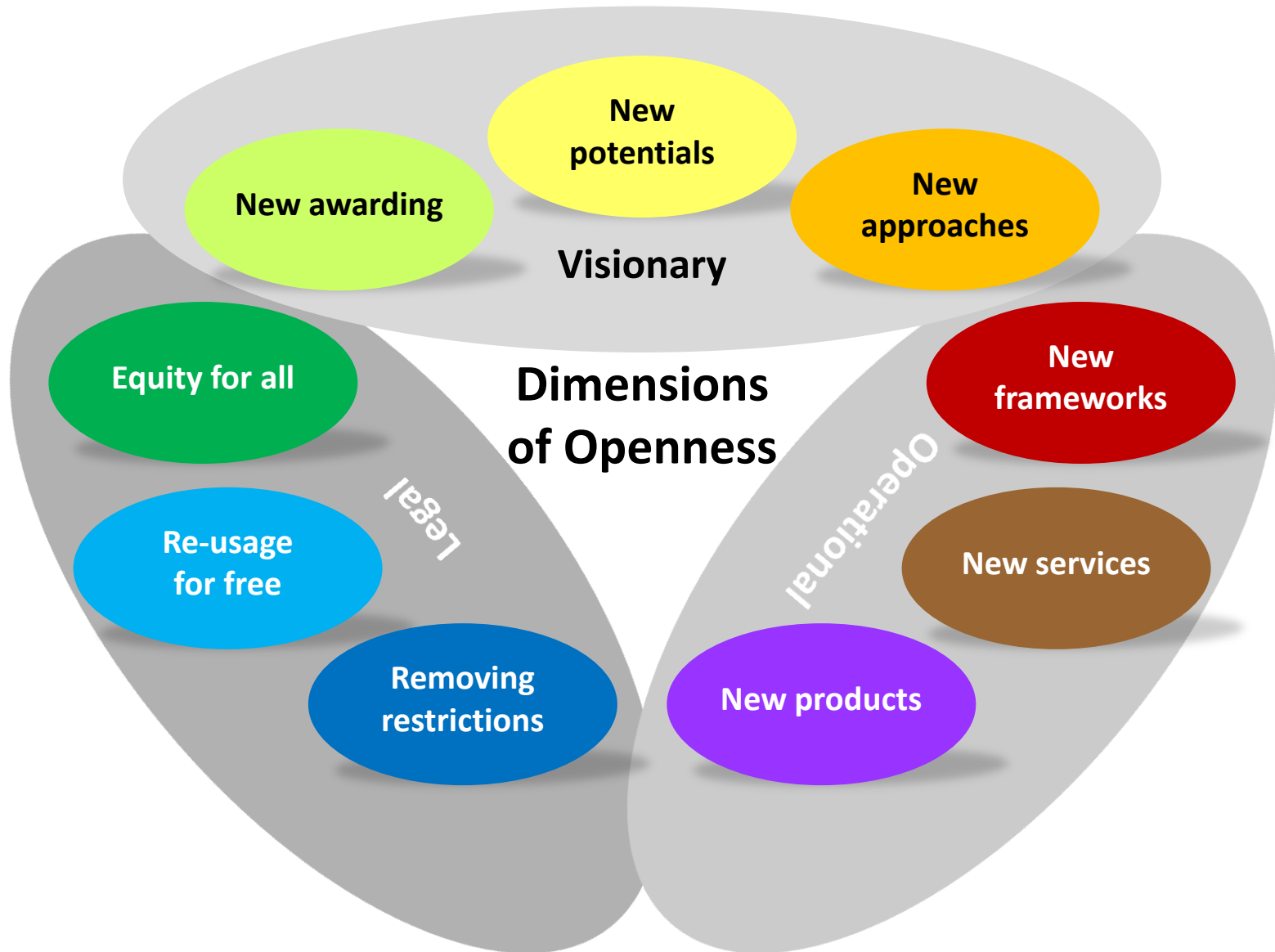
Quality Open Education

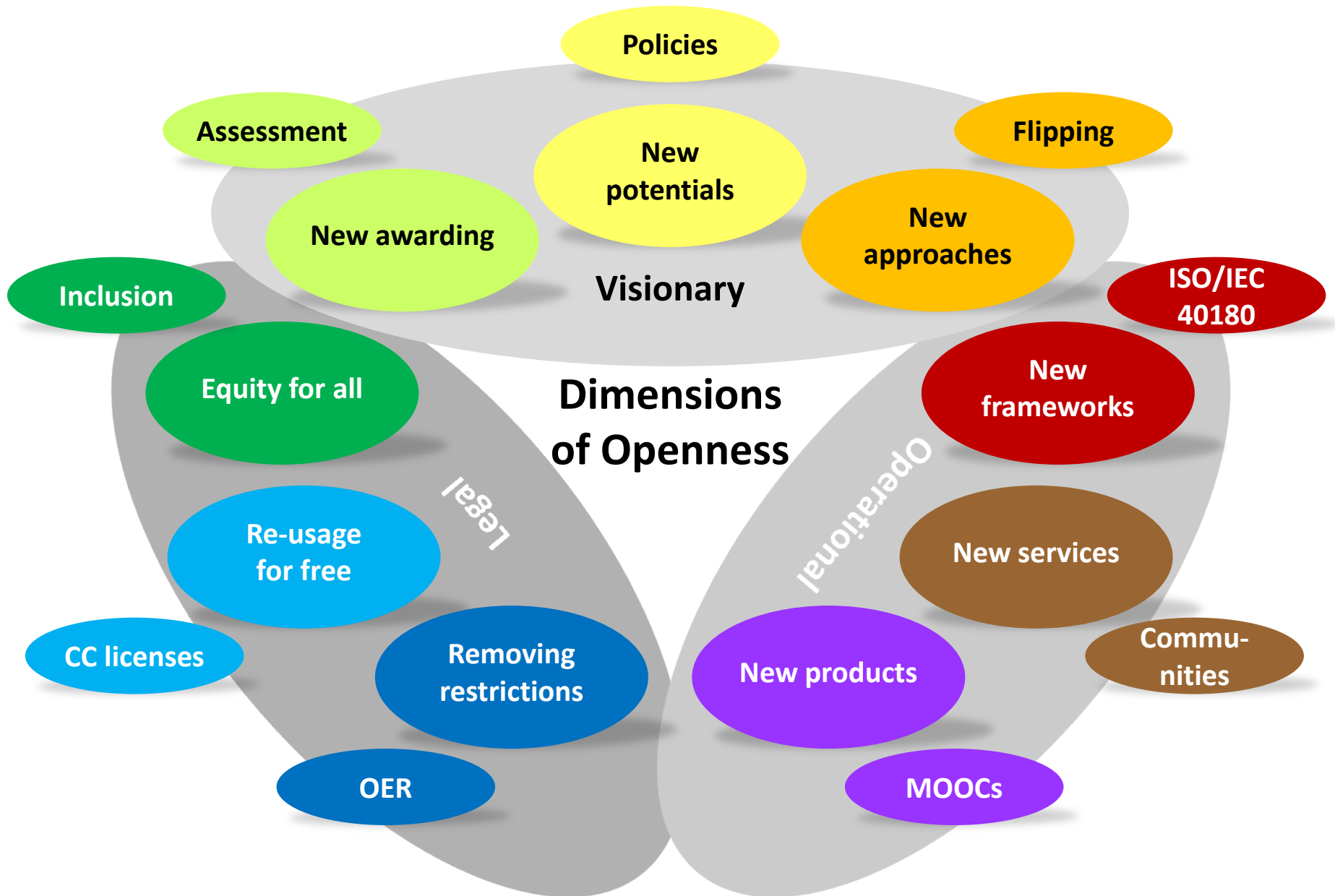
What is Open Education (OE)?

Quality dimensions of OE in practice?

Quality indicators for OE in practice?

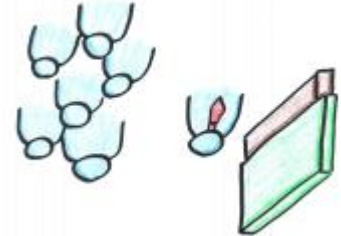








Waves of OE



1960s: Open Classrooms

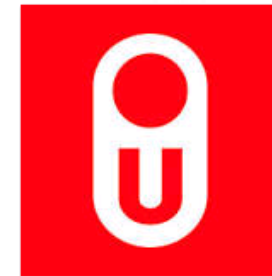
1960s: Open Universities

1990s: Open Educational Resources

2000s: Open Online Collaboration

2010s: Open Educational Practices

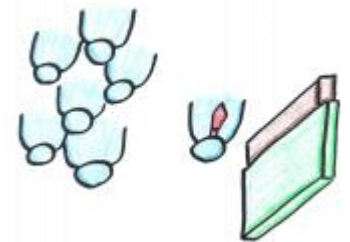
Now: Open Educational Environments



Open Education

1960s: Open Learning

- Progressive education
- Flipped methodologies
- Open Universities

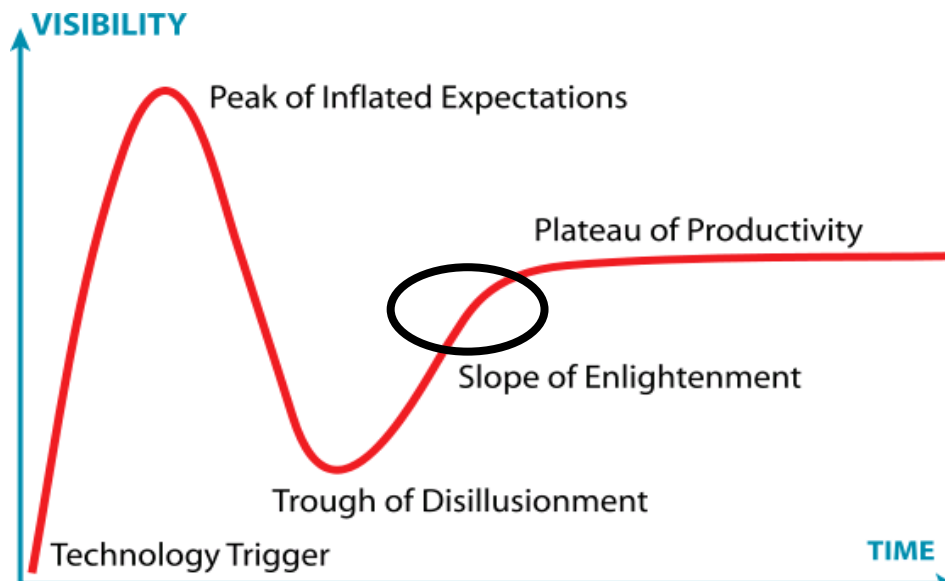


Open Education



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



Open Education

2010s: Open Educational Practices

- **Open classrooms**
- **Competence focus**
- **OER declaration**



United Nations
Educational, Scientific and
Cultural Organization

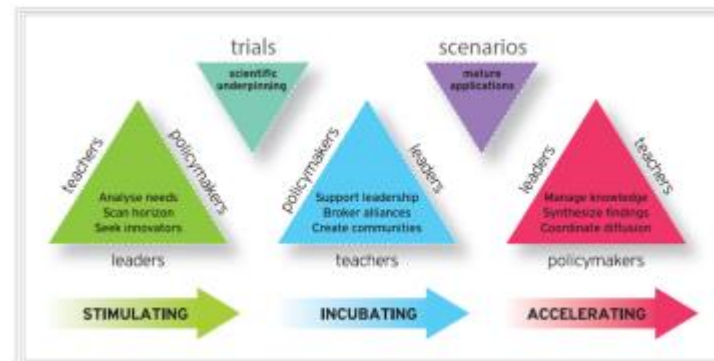


OPEN EDUCATIONAL RESOURCES

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)**

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!

**How can you
participate?**



World Learning Summit **2017**



Topic 2017: „Smart Universities“



The Call for Papers is open!

www.worldlearningsummit.com



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





Opening up education

To improve the learning quality!

Series of ICORE Workshops with key organisations
“How to support Open Education by policies?”
First ICORE Workshops at ICDE Conference
in South Africa & at OE Global 2016 in Poland!
Towards a global joint initiative!

www.oecconsortium.org/conference2017



How can you participate?

Publish and share your content!

Re-use existing content!



Connect to colleagues!

Conclusions



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



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

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

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

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[DOI: 10.3969/j. ISSN 1000-5641. 2012.02.012]
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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!



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Thank you! Questions?

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Hands-on-Session

Explore the quality indicators of
MOOCs

Welten Institute
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**Our proposal
for discussion:**

**The Quality Reference
Framework (QRF)**

Quality Open Education

What is Open Education (OE)?

Quality dimensions of OE in practice?

Quality indicators for OE in practice?

MOOQ Matrix

- 1. Pedagogical**
- 2. Technological**
- 3. Business Model**

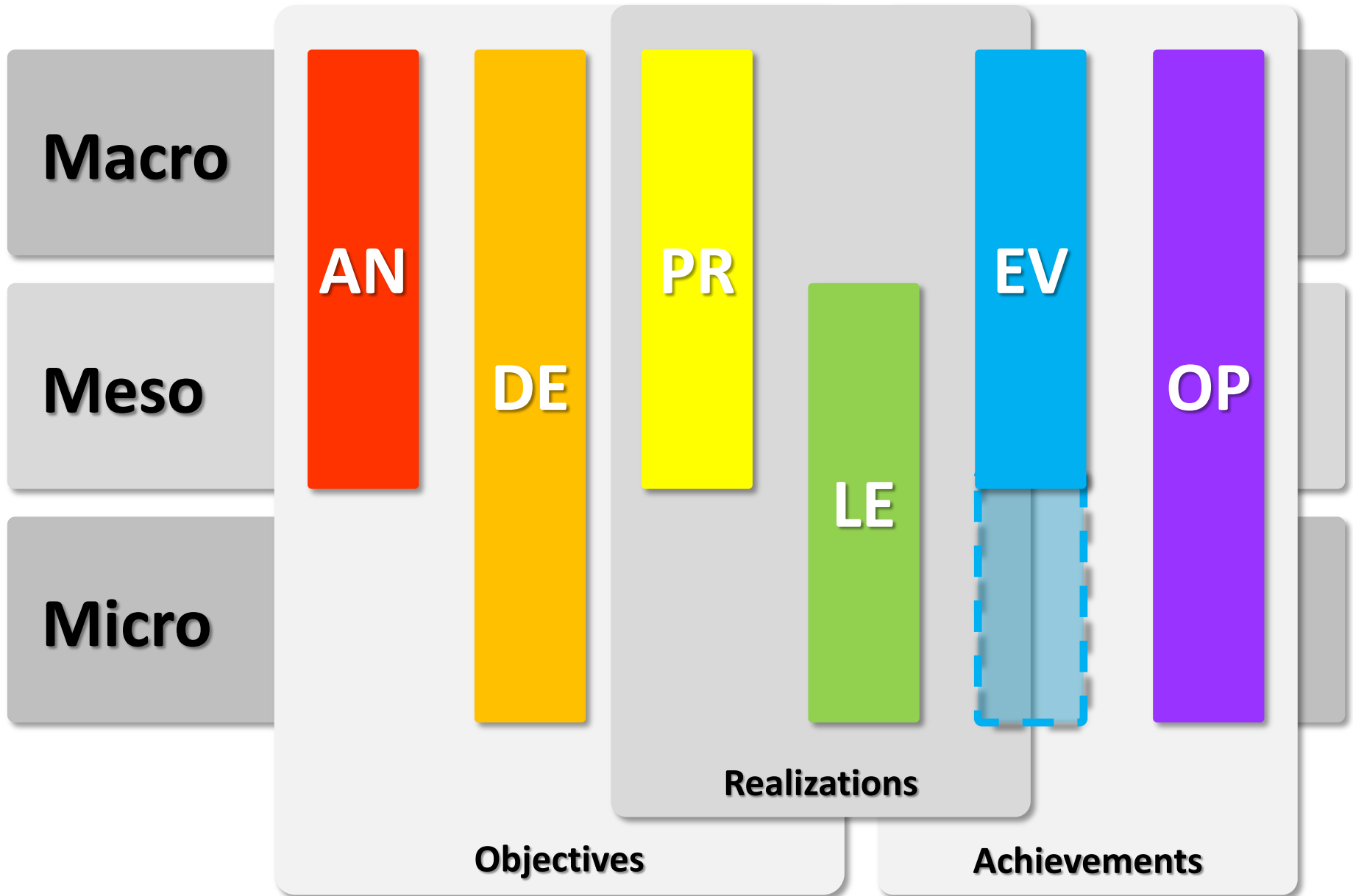
MOOQ Target Groups

- 1. MOOC Learners**
- 2. MOOC Designers**
- 3. MOOC Facilitators**
- 4. MOOC Providers**

Quality constructs

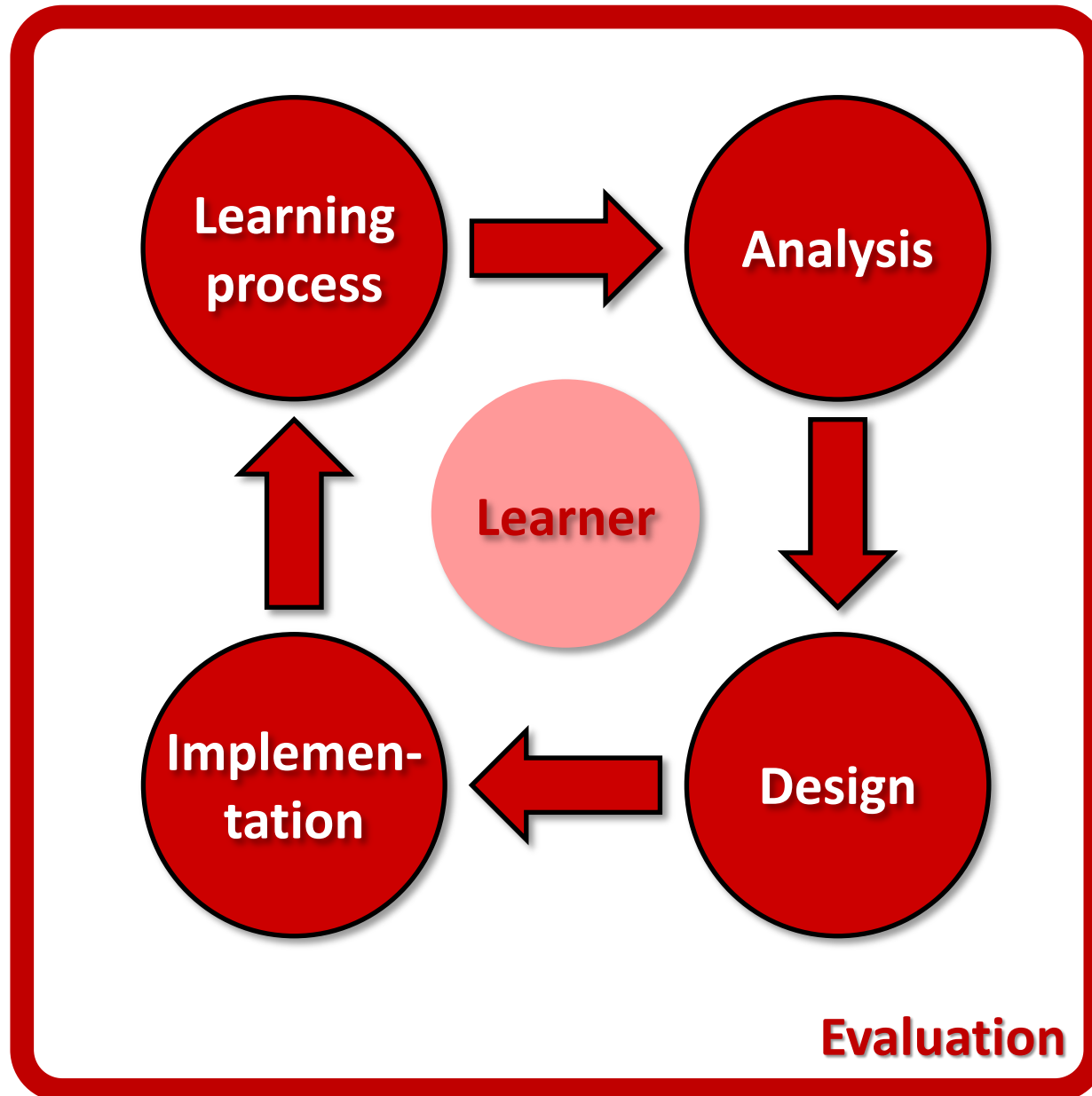
Constructs	Learners	Designers	Facilitators
Pedagogical Decisions		X	
Learning Objectives	X	X	X
Duration & Structure	X	X	
Duration & Interaction			X
Learning Resources	X	X	X
Learning Support	X	X	X
Flexibility & Inclusion	X	X	
Learning Progress	X		
Learning Environment		X	X
Learning Assessment	X	X	X
Learning Certification	X	X	
Design Process		X	
Online Facilitation			X

ID	ISO/IEC 19796-1	New ID	Proposed Modification
NA	Needs Analysis	AN	Analysis
FA	Framework Analysis		
CD	Conception / Design	DE	Design
DP	Development / Production	PR	Production
IM	Implementation		
LP	Learning Process	LE	Learning
EO	Evaluation/ Optimization	EV	Evaluation
		OP	Optimization



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 learners, organizations and in society?" [in print]

OE Quality Dimensions



OE Quality Dimensions

Quality dimensions of OE in practice

Dimension 1: Analysis

Dimension 2: Design

Dimension 3: Implementation

Dimension 4: Learning Process

Dimension 5: Evaluation & Optimization

OE Quality Indicators

Quality indicators for OE in practice

For Dimension 1:

For Dimension 2:

For Dimension n: