



# eLearning and Open Education: Why should we do it?

@ UNIR iTED Congress in Madrid, Spain  
by **Christian M. Stracke**

Open University of the Netherlands

**Welten Institute**

Research Centre for Learning, Teaching and Technology

**Open Universiteit**  
**welten-institute.org**



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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**  
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# Selected Projects:

## Competence and Skills Modelling



## Open Education and Research



## Technology-Enhanced Learning at Large Scale

## Quality Management and Evaluation



# Selected Projects:



[www.inclusive-education.net](http://www.inclusive-education.net)



[www.pure-h2o-learning.eu](http://www.pure-h2o-learning.eu)



[www.aristotele-ip.eu](http://www.aristotele-ip.eu)



[www.opendiscoveryspace.eu](http://www.opendiscoveryspace.eu)



[www.ecompetence.eu](http://www.ecompetence.eu)



[www.wacom-project.eu](http://www.wacom-project.eu)



[www.isecure-edu.eu](http://www.isecure-edu.eu)



[www.mooc-quality.eu](http://www.mooc-quality.eu)



[www.agriculture-competences.eu](http://www.agriculture-competences.eu)



[www.voa3r.eu](http://www.voa3r.eu)



[www.digifem.eu](http://www.digifem.eu)



[www.eMundus-project.eu](http://www.eMundus-project.eu)



[www.aristotele-ip.eu](http://www.aristotele-ip.eu)



[www.learning-standards.eu](http://www.learning-standards.eu)



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



[www.inspiringscience.eu](http://www.inspiringscience.eu)

# **The common opinion**

**eLearning and Open Education  
have got poor quality:**

**Why should we do it?**

# **The common solution**

**eLearning and Open Education have  
to prove their impact and quality:**

**But what about face-to-face  
and blended learning?**

# **My 1st Hypothesis**

**We need Open Quality Education**

**to change education**

**due to global changes & challenges.**



# **My 2nd Hypothesis**

**We need high drop-out rates in eLearning  
to achieve better quality and  
personalization for the learners.**

# **My 1st Hypothesis**

**We need Open Quality Education**

**to change education**

**due to global changes & challenges.**

# The Digital Age

**Two core factors:**

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

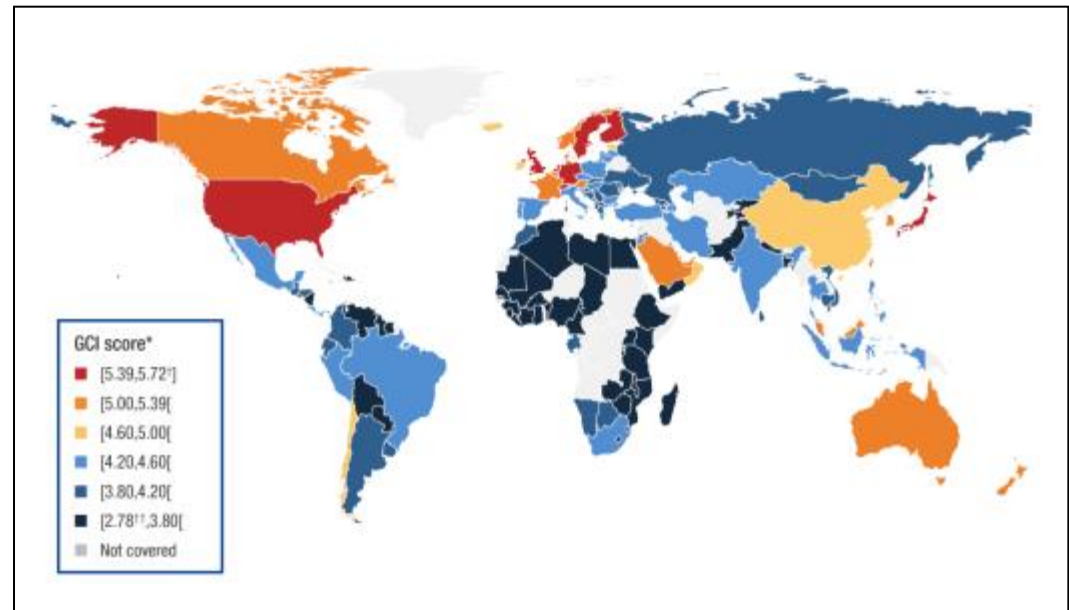


# Internationalization

**Global Competitions and societal changes**

**Close the gaps  
& open new  
opportunities**

**Challenges:  
Learn to Learn**





# SUSTAINABLE DEVELOPMENT GOALS

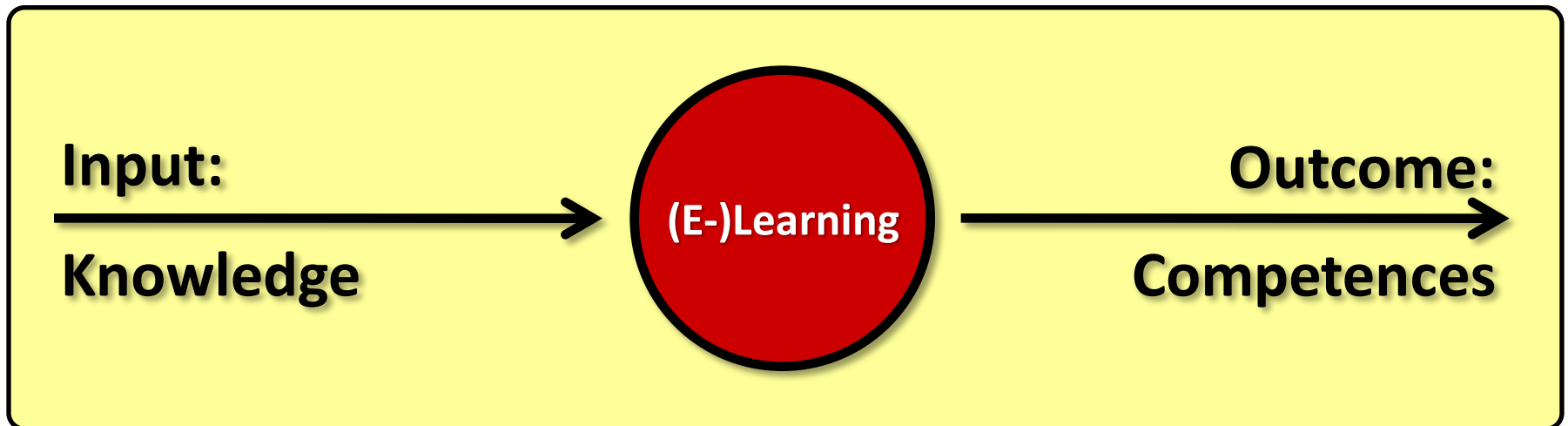


Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

# 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**



**We need  
Change  
in Education!**



**To improve  
Quality  
in Education!**



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

**What is  
Open  
Quality  
Education?**

**What is  
Quality  
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  
Education?**



# **Quality**

**most important**

**for Learning, Education  
and Training!**



Stracke, C. M. (2017).  
The Quality of MOOCs:  
How to improve the design  
of open education and online  
courses for learners?

**What is  
Open  
Quality  
Education?**



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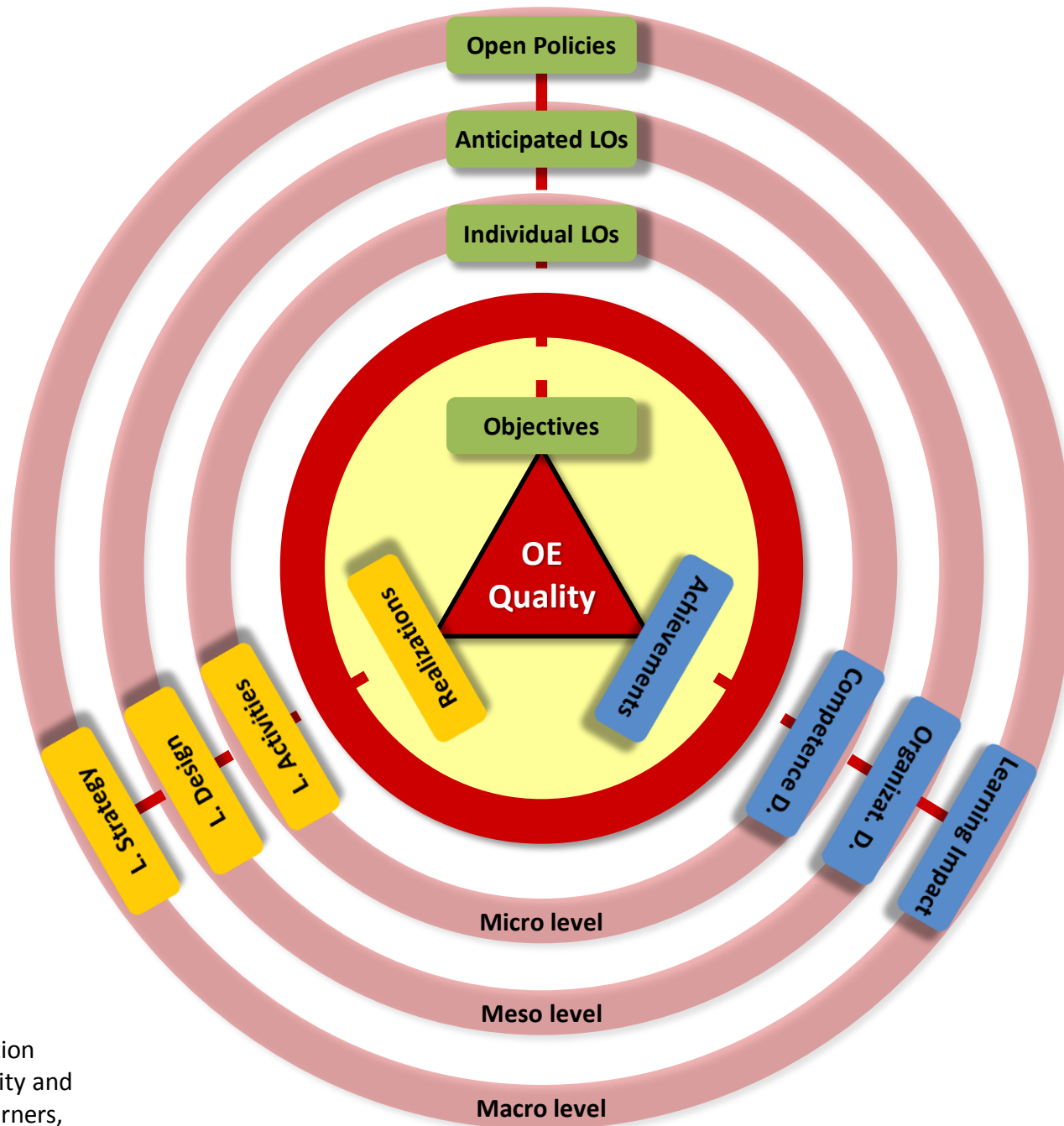
Stracke, C. M. (2017).  
The Quality of MOOCs:  
How to improve the design  
of open education and online  
courses for learners?

# Open Education (OE)

**Macro: Policies and Curricula**

**Meso: Organisation and Design**

**Micro: Learner and Course**



Stracke, C. M. (2018).  
How can Open Education  
improve learning quality and  
achieve impact for learners,  
organizations and in society?

**We need Open  
Quality Education!**



**We need Open  
Quality Education!**

**... with fun!**

# **Open Quality Education in Practice**

# 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](http://ec.europa.eu/education/policy/strategic-framework/education-technology_en.htm)

## **ICORE / OEC: Declaration of Crete**

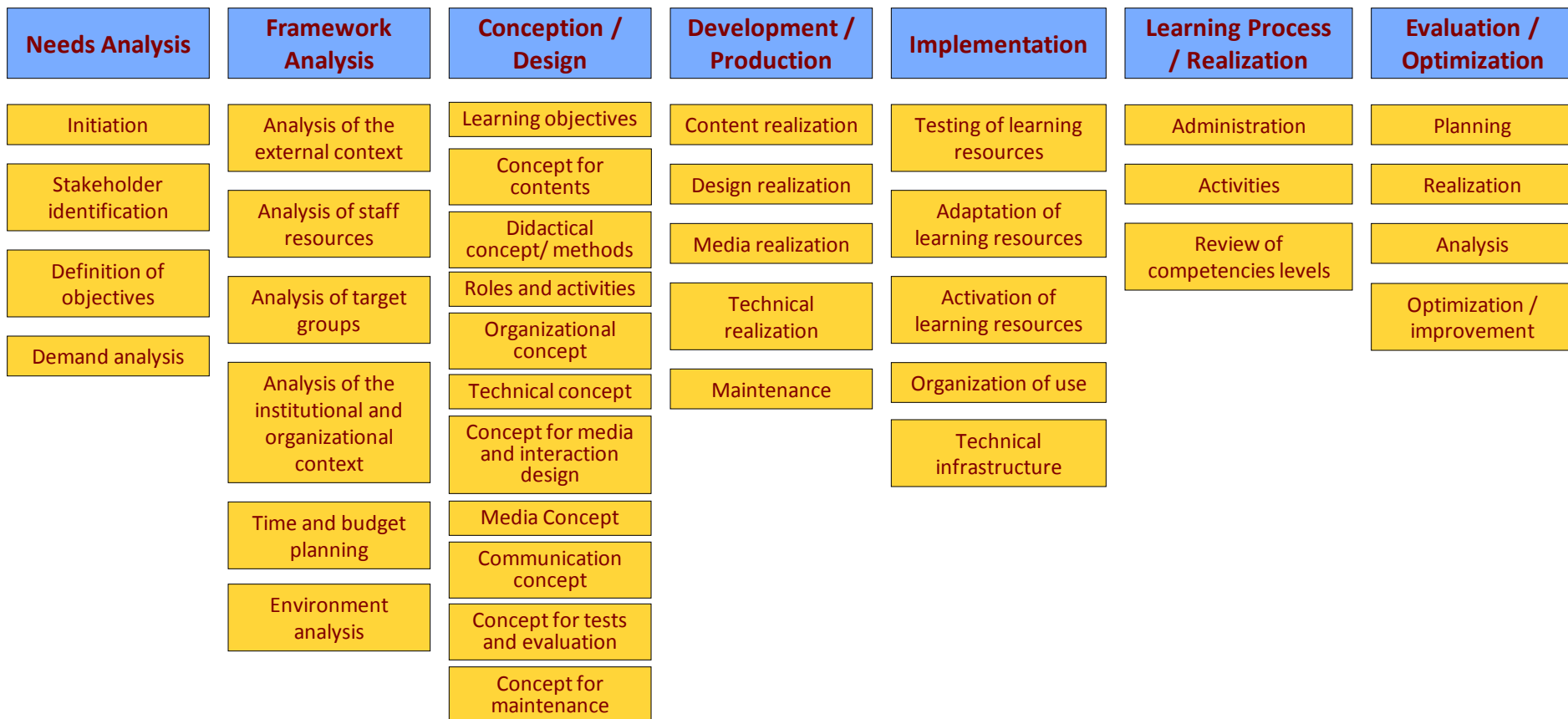
[http://wiki.icore-online.org/index.php/ICORE\\_Declaration\\_of\\_Crete](http://wiki.icore-online.org/index.php/ICORE_Declaration_of_Crete)

## **Republic of the Philippines: Open Distance Learning Act**

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

# Standard: ISO/IEC 40180

## The Reference Process Model:



# Standard: ISO/IEC 40180

## 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				

# **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](http://www.PBL3-project.eu)**



# Open Schools

## Facilitating Open Educational Practices

- Open classrooms
- Competence focus
- OER re-use
- Learn STEM for school innovations:

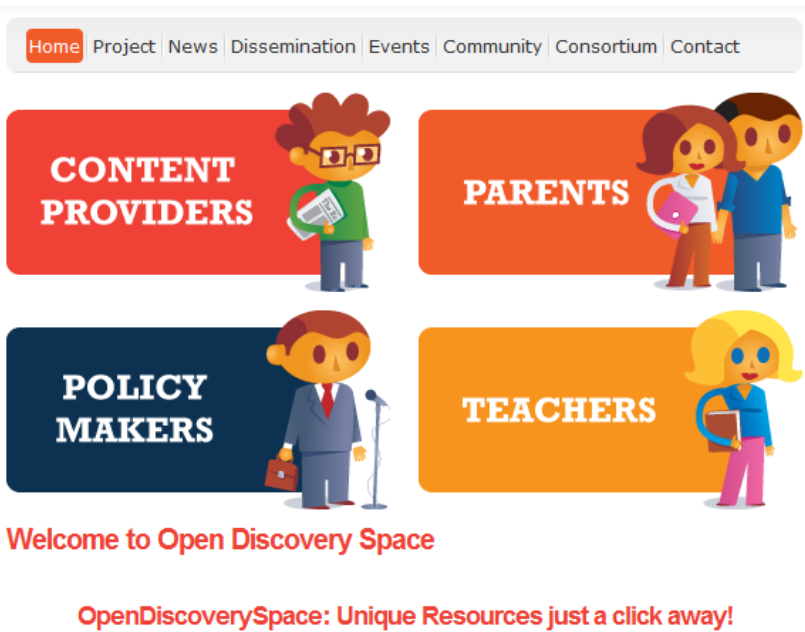
[www.learn-STEM.org](http://www.learn-STEM.org)



STEM

# Communities: ODS & ISE

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



[www.opendiscoveryspace.eu](http://www.opendiscoveryspace.eu)



[www.inspiring-science.eu](http://www.inspiring-science.eu) & [portal.opendiscoveryspace.eu/ise](http://portal.opendiscoveryspace.eu/ise)



# **Open Education (OE)**

**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)**

# **Quality in eLearning**

# **My 2nd Hypothesis**

**We need high drop-out rates in eLearning  
to achieve better quality and  
personalization for the learners.**

# **High drop-out rates**

**Traditional drop-out rate assessment:**

**Fulfilment of all assigned tasks  
and examinations as well as  
of all learning objectives in eLearning**

# **High drop-out rates**

**Learning objectives  
by the eLearning designers**

**vs.**

**Many different learning objectives  
by all online learners**

# **High drop-out rates**

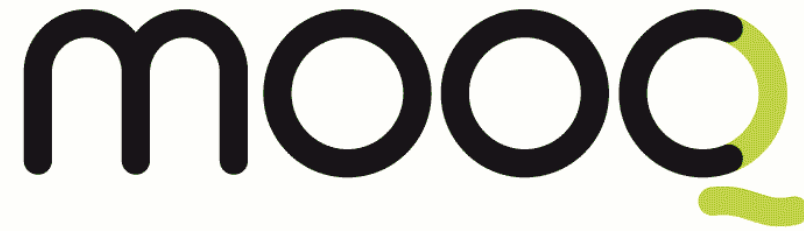
**We need high drop-out rates  
(and personalization) in eLearning  
to address the diversity  
of all online learners  
and their different learning objectives  
and intentions**

# **High drop-out rates**

**Or we need an alternative  
definition of drop-out rates  
to improve the personalization  
and quality in eLearning**

# **Quality in Open eLearning**





**WE WILL MAKE  
MOOCs BETTER!**

[www.mooc-quality.eu](http://www.mooc-quality.eu)



# **Quality Reference Framework with indicators for design & comparison**

**Our main goal is the collaboration with all  
to improve Open eLearning & MOOCs**

**[www.MOOC-quality.eu](http://www.MOOC-quality.eu)**



**Join our Global  
MOOC Survey!**

[www.mooc-quality.eu](http://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:

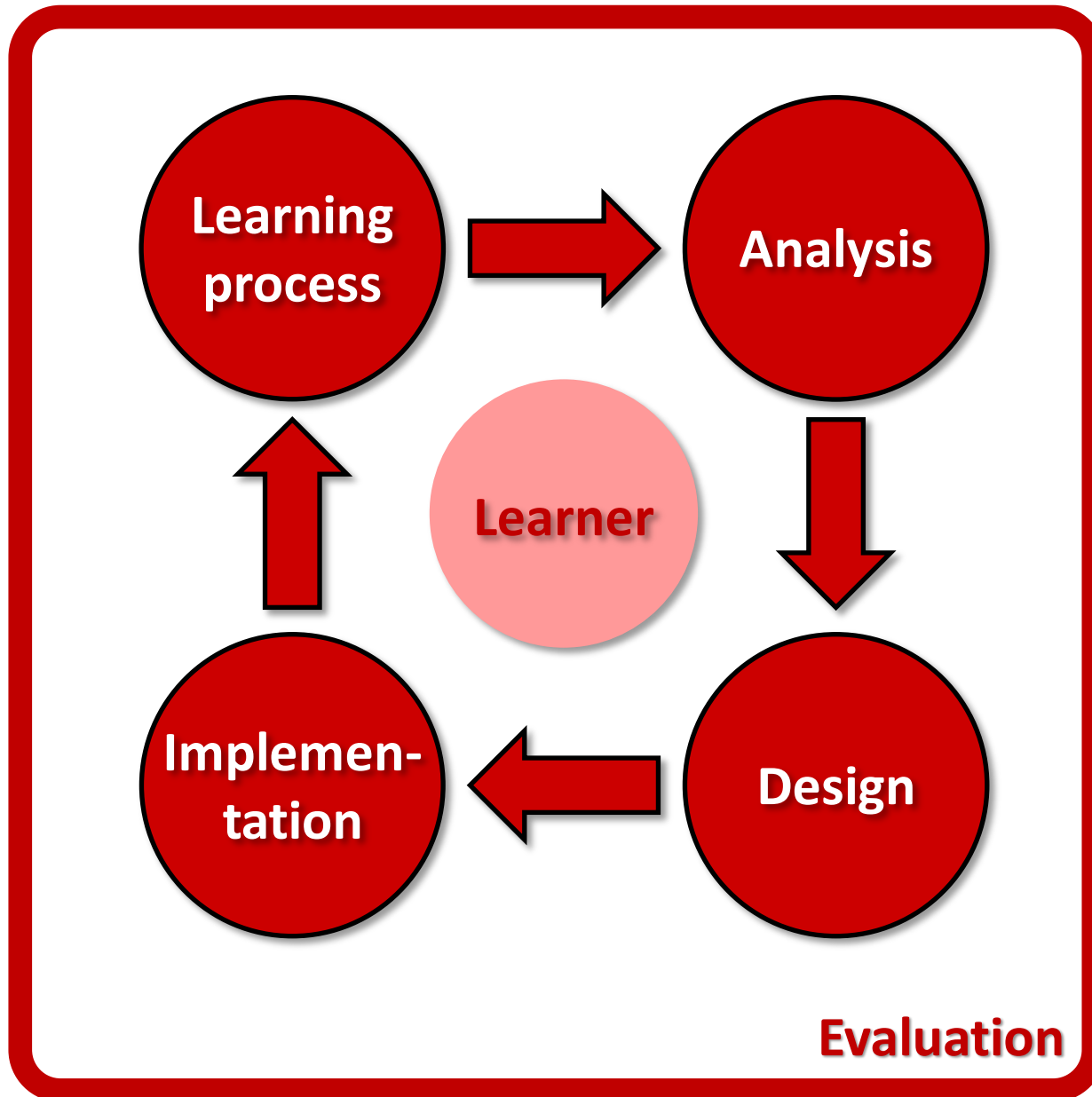
[United Nations' UNESCO IITE](#), [United Nations' ITCILO](#), [United Nations' FAO](#), [United Nations' UNITAR](#), [International Council for Distance and Open Learning \(ICDE\)](#), [Commonwealth of Learning \(COL\)](#), [International Community for Open Research and Education \(ICORE\)](#), [European 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



**Our proposal  
for discussion:**

**The Quality Reference  
Framework (QRF)**

# QRF Quality Dimensions



**How can you  
participate?**



# 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](http://www.ICORE-online.org)**





# MOOQ + ICORE Workshop

**Series of interactive workshops:**

- **ICDE 2015 in Sun City, South Africa**
- **OE Global 2016 in Krakow, Poland**
- **EC-TEL 2016 in Lyon, France**
- **OE Global 2017 in Cape Town, SA**
- **IEEE EDUCON 2017 in Athens, Greece**
- **ICALT 2017 in Timisoara, Romania**
- **EARLI 2017 in Tampere, Finland**
- **EC-TEL 2017 in Tallinn, Estonia**

**To develop the QRF together with all**

# How can you participate?

**Publish and share your content!**

**Re-use existing content!**



**Connect to colleagues!**



# Conclusions



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

**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**!**

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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](http://www.opening-up.education)**



# Let us connect!



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# Thank you! Questions?

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