Open Discovery Space
Platform for Open Learning Materials

Christian M. Stracke, Marlies Bitter-Rijpkema, Katerina Riviou
(Welten Institute)

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Learning teaching are changing
Still learning is a matter of conversation knowledge exchange
Opening Education Initiative

- Initiative to stimulate new ways of learning and teaching through ICT and digital content.
- Boosting digital skills acquisition via development and availability of OER, stimulation of novel educational practices.
Opening doors to new learning opportunities

I hope that Open learning platforms enable me to....

What I am looking for is....

If it could meet.................
A socially-powered multilingual open learning infrastructure
• ODS aims at supporting the paradigm shift towards OER-based, community-driven, collaborative practices of teachers, learners, and parent.

• Boost adoption of e-learning and innovative practices across Europe in teaching.
ODS overview

Tools, School inventories, projects & portals

User-generated educational content

ODS public cloud infrastructure
(ODS users data, ed. resources, social data)

External Educational Repositories

Educational Aggregators

MyDSPs
(e.g. school, national, thematic communities)

Teachers Competence Profiles

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School Profiles & e-maturity Data

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‘Irma’ a math teacher from NL

- Is looking for innovative math teaching approaches and content
- signs up at ODS repository
- comments, tags, rates and bookmarks educational content
- becomes a member of the math special interest group
- stays in contact over ODS communication services and social media
- The ODS repository recommends peers and contents to her interests

‘Irma’ a math teacher from NL

- Irma follows some of recommendations and get in contact with new people
- E.g., she gets in contact with André, a teacher from France
- Together they improve an existing math lecture from the ODS repository, the students really appreciate their new teaching concept and other teacher become part of their group
- After a while, Irma is known for her fresh teaching style she has many contacts within the ODS repository
ODS scope

Existing Digital Learning Resources

Serve as an accelerator to sharing, adopting, usage, and re-purposing of already existing educational content.

Social Platform

Realize a community-oriented social platform enabling teachers, learners, parents, content providers and policy makers to discover, acquire, discuss and adapt eLearning resources.

Community Building

Promotion of community formation between teachers, learners, schools in Europe empowering them to use, share and exploit unique resources in learning practices.

Innovation & Roadmap support

Provide innovation model and guidelines to design and implement effective resource-based educational activities triggering stakeholders to adopt OER based practices in school education.

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ODS schools across Europe

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ODS evolution over time 2013-2015

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ODS: participating in a community of peers across Europe

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Exploring ODS

communities

activities

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Let’s go and explore!
Help needed ...

How to find “best” peers and learning materials?
ODS, you are offering me too much?
Be supported: recommendations!

- Finding the best resources for your needs
- Finding knowledgeable peers to help
Personal recommendations
Questions & Discussion
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ISE: Main project aims and results

• Introduction of Resource Based Inquiry Science Scenarios in real classroom settings

• Community Building and Professional Development

• Real time assessment of students’ problem solving competences

• Integrated environment to support ISE implementation activities
Advanced inquiry lessons, enriched with **resources** (more than 22 resources and **tools** are used in each scenario) can be delivered to students in realistic time intervals (**50 minutes** average time) independently of the **classroom size**!!!
ISE: Aims and current results

- Adopt and expand the ODS community building framework
- > 3,000 schools network
- > 10,000 registered teachers
- > 1,000 teacher communities
ISE: Aims and current results

- Demonstrate the benefits of the inquiry learning in science classrooms for cultivating students problem solving competences / PISA 2012 PS Framework
- Online:
  - Design models and create hypothesis
  - Analyze data
  - Graphically represent the results
ISE: Aims and current results

Introduction of Resource Based Inquiry Science Scenarios in real classroom settings

Community Building and Professional Development

Real time assessment of students’ problem solving competences

Integrated environment to support ISE implementation activities

Community building & networking

Search tools

Author & deliver scenarios

Online assess / analyze /represent learning process for students

ISE Academy

ISE Repository

ISE Academy

ISE Repository
ISE Overview

ISE Repository

Educational Resources
Inquiry Lessons/Scenarios
Educational Tools

RESTful APIs

ISE Authoring Environment

ISE Communities

Join

Author Inquiry Lesson(s)

ISE Delivery Environment

Deliver Inquiry Lesson(s)

Assessment Data

Execute the Lesson

ISE Portal

Science Teacher

Monitor Students’ Problem Solving Competences

Students
ISE: Community Portal (1/2)

Supports:

- Community building at thematic, school, national, international level
- Sharing educational resources
- Searching educational resources aggregated in ISE Repository and/or created with the ISE Authoring Environment
- Teachers’ Professional Development (Training Academies)
Science Teachers are able to:

- Create sub-groups of special interest in the community
- Being informed on special issues and events introduced / published and shared by other members
- Discuss and assess their opinion on special topics
- Create and share educational resources, lessons / educational scenarios
- Access the educational resources, lessons / educational scenarios created by other members
- Create / join network of communities
Science Teachers are able to:

- author inquiry lessons and educational scenarios following the inquiry cycle
- author inquiry activities including:
  - Digital educational resources
  - Digital educational tools
  - Guidelines and notes to implement the inquiry activity
  - Assessment tasks for students and to provide feedback
- add assessment tasks to all inquiry phases for assessing students’ knowledge and to provide feedback
- store with educational metadata their inquiry lessons and educational scenarios to the ISE Portal, so as to be searchable from other teachers
- clone and adapt lessons developed by other teachers.
Science Teachers and Students are able to access the ISE Delivery Environment through unique web links produced by the ISE Authoring Tool for each lesson/scenario delivered.

- Students are able to enroll (considering data privacy issues) in lessons/scenarios and execute the different phases in a fixed order, or “lockstep” fashion.
- Students are able to see at the end of the lesson/scenario, data about their performance.
Thank you! Contacts:

christian.stracke@ou.nl
marlies.bitter@ou.nl
katerina.riviou@ou.nl

@ChrMStracke

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