Open Education and OER

Slovenian case:
From Commitment to Action

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Slovenian approach to Open Education and OER

**Policy actions**
- Defining a vision and implementing it with efficient strategies

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**E-services and content**
- Creating education materials and enhancing e-services

**Research and development**
- Exploring new pedagogy and technologies for content creation and collaboration

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**Capacity building**
- Improving skills, competences and collaborative leadership

**Supportive environments**
- Efficient mechanisms of scalability and sustainability
Policy Actions

Defining a vision and implementing it with efficient strategies

Policy innovations have supported educational institutions in developing new educational models, facilitate research, test large-scale innovative pedagogies, curriculum development and skills assessment and encourage new business models.

Key Achievements

- Facilitate research and policy exchange in EU and UNESCO Member States
- Increasing awareness of the latest technological developments among policy makers
- Making stakeholders aware of the current and future policy and regulatory framework
- Mobilize all stakeholders (teachers, learners, economic and social partners) to implement policies at education institutions

Challenges

- To reform and complement key legislation
- To design the appropriate policy framework and stimulus to enable a comprehensive introduction of formal and informal education
- To be actively involved in national, regional and international governmental policy-making mechanisms
- To develop and implement a worldwide vision for mainstreaming OER

Interested in collaboration? Contact: tit.neubauer@gov.si.
Capacity Building

Improving skills, competences and collaborative leadership

Capacity building in “openness” showed signs of sustainable social and economic development and enabled and invigorated a common clear ethos of “open” across all stakeholders.

Key Achievements

• E-competent teacher framework
• 38,000 participations of educators in 3-day courses
• Entrepreneurship and Interdisciplinary activities all around Slovenia
• Around 2,000 young volunteers introduce the basic computer skills to around 5,000 elders every year

Challenges

• To improve international comparable skills of learners
• To develop skills at higher cognitive levels (including computational thinking)
• To participate actively in the process of international certification of digital skills and apply international recommendations

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Services and Content

Creating education materials and enhancing e-services

We are exploiting synergies between the participation of teachers, learners and content connected through open educational environments. We are building new services around pedagogies and content aggregation, annotation, mash-ability, verification, analysis, search, media sharing and recommendation.

Key achievements

- 4 million views of OER via VideoLectures.Net worldwide
- 43 e-textbooks under Creative Commons license
- More than 130 projects for development of multimedia and interactive e-materials
- Science Atlas – service for researchers’ competence and collaboration diagrams
- More than 22,000 educators participated in e-communities to exchange and discuss new pedagogies

Challenges

- To develop new services as a consequence of the convergence of OER, broadband, broadcast and social media
- To support and promote innovative open and OER based pedagogical approaches for mobile and www platforms
- To implement existing OER materials and e-services to support personalized and collaborative learning
- To develop new business models for OER

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Research and Development

Exploring new pedagogy and technologies for content creation and collaboration

The main challenge we have identified is to make the best use of technology for reaching out to new audiences, adapting to the digital era and thriving in the connected possibilities of the Web.

Key Achievements

• 70% of schools participating in R&D projects
• Deployment of research results in real-life settings
• Requirement for consortia to include all stakeholders in projects
• Involvement of OER in national strategic projects following European Smart Specialization Strategy
• Majority of results are CC licensed

Challenges

• To move closer to a fully personalised and interactive user experience
• To increase the use of ICT technologies in the education industry
• Solutions that can clear barriers for the success of the policy actions from the content and media perspective
• Make all results CC licensed

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Supportive Environments

Efficient mechanisms of scalability and sustainability

Triggering large-scale sustainable and scalable changes requires shared efforts and focused actions, engaging all stakeholders, national, international and regional along with learners, teachers, educational policy makers and research communities.

Key Achievements

• Created an appealing environment where stakeholders feel comfortable exchanging ideas
• Establishment of UNESCO Chair in OER
• Launch of open education
• Launch of wider initiatives like OpeningupSlovenia
• Fast lane to government and other stakeholders
• Creation of stable and supportive mechanisms for OER agenda

Challenges

• To set-up an inter-government and cross-government projects, coalitions and alliances
• To create an operations agenda based on the Ljubljana Action Plan
• To launch a Dynamic Coalition in OER with the purpose of mainstreaming OER in participating countries and disseminate benefits to all stakeholders

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Education in the digital world

Arthur Gottwald
Federal Ministry of Education
Germany
Education in the digital world

Strategy of the Standing Conference of Ministers of Education and Cultural Affairs (KMK)
Berlin 08.12.2016
Bildung in der digitalen Welt
Strategie der Kultusministerkonferenz


Summary:
Education in the digital world

2. Teacher training
3. Infrastructure and equipping
4. Digital educational media
5. E-government, Software for school administration
6. Legal issues and functional framework conditions
Education in the digital world

   - General education schools
   - Vocational schools
   - Higher education

2. Teacher training
   - Training
   - Advanced training
   - Higher education

3. Infrastructure and equipping
   - Broadband for all educational institutions
   - Providing technical infrastructure in all schools
   - Integrating attractive tools across federal states
   - Advice for schools
   - Standardizing ID-Management systems
   - Higher education

4. Digital educational media
   - Establishing a digital office for OER/ER administration
   - Establishing a digital office for OER/ER administration
   - Higher education

5. E-government, Software for school administration
   - Establishing substitution via distance learning
   - Connecting between educational platforms
   - Creating digital spaces across federal states
   - Higher education

6. Legal issues and functional framework conditions
   - Legal adjustments cooperative between federal states and federal government
   - Data protection across all federal states
   - Adjusting copyright law
   - Higher education

7. Higher education

- schools of general education
- vocational schools
- Higher education
Education in the digital world

   - Higher education
   - Vocational schools
   - Schools of general education

2. Teacher training
   - Training
   - Advanced training

3. Infrastructure and equipping
   - Broadband for all educational institutions
   - Providing technical infrastructure in all schools
   - Positive attractive terms across federal states
   - Advice for schools
   - Standardize ID-Management systems

4. Digital educational media
   - Quality management of educational media
   - Establishing a central office for OER
   - Mobile enrichment
   - Higher education

5. E-government, Software for school administration
   - Establishing substitution method across federal states
   - Connection between educational platforms
   - Education Cloud across the federal states
   - Higher education

6. Legal issues and functional framework conditions
   - Legally adjusting cooperation between federal states and federal government
   - Data protection across federal states
   - Adjusting copyright law
   - Hochschulen
2. Teacher training

- Training

- Advanced training

- Higher education
3. Infrastructure and equipping

Broadband for all educational institutions

Providing technical infrastructure in all schools

- negotiate attractive terms cross federal states.
- Advice for schools
- standardise ID-Management systems

Higher education
4. Digital educational media

- Quality management of educational media
- Establishing a central office for OER
- Higher education
5. E-government, Software for school administration

- Establishing substitution method cross federal states
- Connection between educational Plattforms
- Education Cloud across all federal states
- Higher education
Education in the digital world

   - Schools of general education
   - Vocational schools
   - Higher education

2. Teacher training
   - Training
   - Advanced training
   - Higher education

3. Infrastructure and equipping
   - Broadband for all educational institutions
   - Providing technical infrastructure in all schools
   - Integrate attractive teaching tools:
     - Virtual classes
     - Digital resources
   - Adopt for schools:
     - Standardize IT-Management systems
     - Higher education

4. Digital educational media
   - Quick management of educational media
   - Establishing a digital office for OER/ERU
   - Higher education

5. E-government, Software for school administration
   - Establishing a substitution method cross federal states
   - Cooperation between educational platforms
   - Education Cloud across six federal states
   - Higher education

6. Legal issues and functional framework conditions
   - Legally adjusting cooperation between federal states and federal government
   - Data protection across all federal states
   - Adjusting copyright law
   - Hochschulen
6. Legal issues and functional framework conditions

- legally adjusting cooperation between federal states and federal government
- data protection across all federal states
- adjusting copyright law
- Hochschulen
Strategie of the German Federal Ministry of Education and Research
12.10.2016

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