

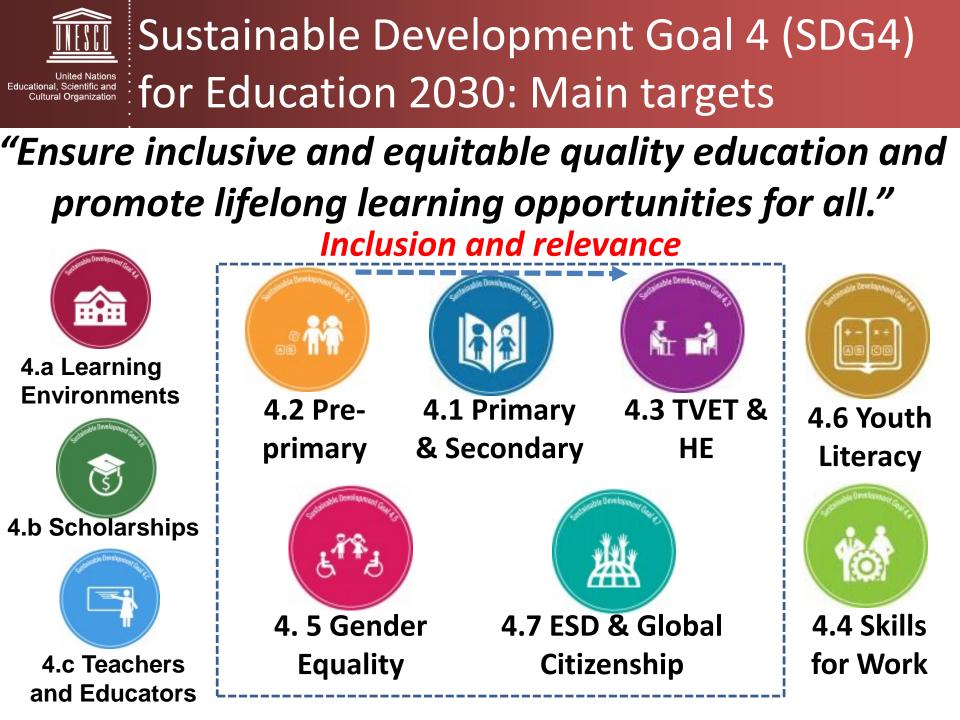
Educational, Scientific and

Cultural Organization

Ministerial Forum: Global Dialogue on ICT and Innovation Towards SDG 4

Mainstreaming OER Towards Education 2030

Fengchun Miao Chief, Unit for ICT in Education Education Sector, UNESCO HQs





Leveraging OER for achieving targets of SDG 4: Action lines and strategies

Enablers

- Costing & funding
- Policy alignment
- Monitoring and evaluation

۲

- Public awareness
- Partnership

Action Lines

- Regulatory framework
- Policy on open license
- Inclusive access
- Quality assurance
- **OER repositories**
- Capacity building for pedagogical use of OER
- OER creation & sharing incentives
- **Business models**
- OER researches & evidence bases

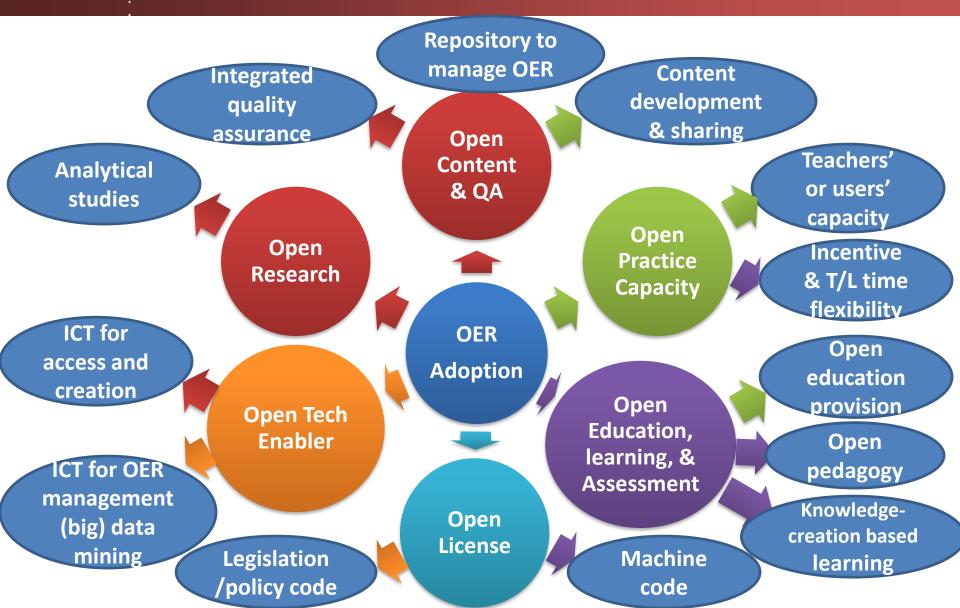
Targets

- 1. Inclusive OER
- 2. OER for indigenous languages/cultures
- 3. Equity and genderequality
- 4. Knowledge deepening
 - & creation in K-12
- 5. Expanding HE
- 6. TVET & skills development
- 7. Non-formal learning
- 8. Lifelong learning



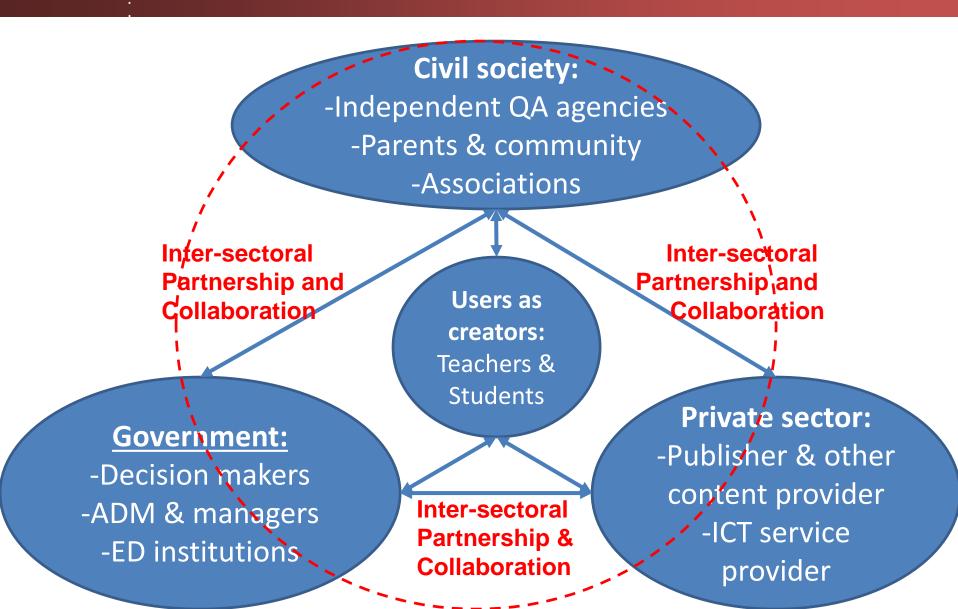
United Nations

Educational, Scientific and Cultural Organization Multiple actors to share responsibilities and take concerted actions





Multi-stakeholder action and collaboration



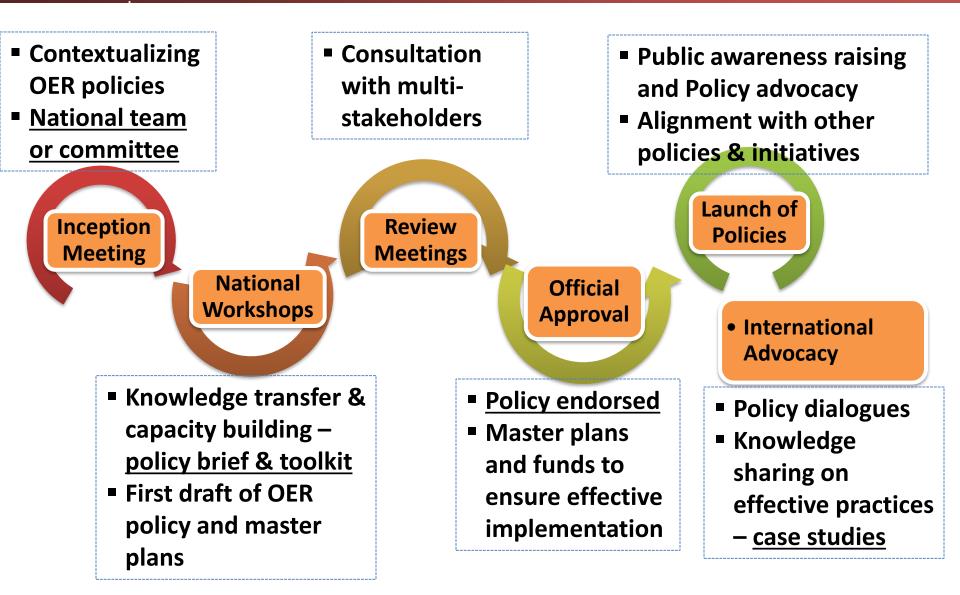


UNESCO's programmes

- UNESCO coined the term of **OER** in 2002
- Hosted the 1st World OER Congress in 2012 *Paris OER Declaration*
 - Supporting countries to develop **OER policies**
- UNESCO-COL joint publication of 15 case studies
 "OER: Policy, Costs, and Transformation"
- OER Indicators to monitor national adoption and impact of OER
- 2nd World OER Congress: September 2017,
 Slovenia → Ljubljana OER Action Plan 2017
- OER Recommendation a normative instrument to be adopted in 40th Session of UNESCO General Conference – November 2019

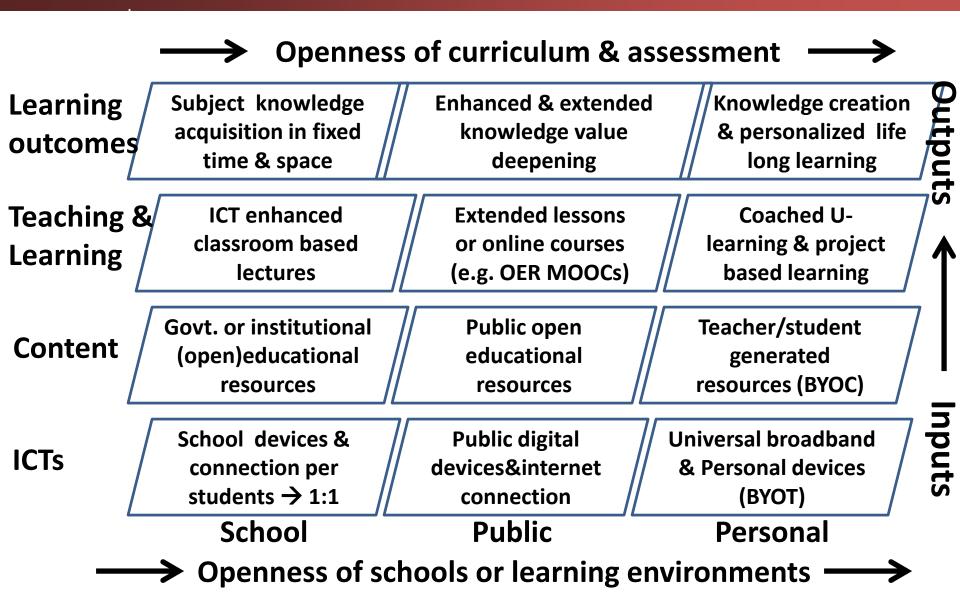


UNESCO supports member states to develop national OER policies Educational, Scientific and Cultural Organization





A Multi-Entry Approach to the Development of ICT in Education Policy(Fengchun Miao, f.miao@unesco.org)





Key elements of national OER policies

- \circ Adoption of open licenses
- Operational strategies for quality assurance (integrating OER QA into existing QA mechanism for educational content)
- Strategies to ensure universal access to OER by target users
- Repository to deliver and manage OER
- Build teachers' and students' capacities to find, use, and re-use
 OER
- Strategies to sensitize stakeholders on OERs
- International collaboration to promote cross-boarder resources sharing



UNESCO's OER Indicators to monitor the adoption and impacts of OER Educational, Scientific and Cultural Organization

1. Provide a framework

- monitoring the national/institutional adoption
- evaluating impacts on inclusion, equity gender equality, quality
- 2. Enhance evidence bases
- data centers
- comparative reports
- 3. Inform OER policy and practices



Key steps of applying OER Indicators

Indicators and Methodology

Pilot Test eperators and Report Data Centers and Regular Monitoring



UNESCO OER Indicators: Framework

	Co	nceptual Domains	
	Government	Institutional	Teaching &
	Commitment	Adoption	Learning
Benchmarks			
Concepts			
to be			
Measured			
Potential			
Sources of			
Data			



UNESCO OER Indicators

Conceptual	Indicator	Indicator
Domain	Label	
Domain	OER1 Presence of a na program: • Open licensin open licensin • Funding prog	 Open licensing policy/framework or endorsement of open licensing Funding program for OER Quality assurance mechanisms for evaluating OER
Government Commitment		 Making international OER available Making local-language-based OER available OER training academy or training initiative Incentive mechanism to encourage OER adoption and use Pro equity provisions for the use of OER in favor of

disadvantaged populations

• OER partnerships in place



UNESCO OER Indicators

Conceptual	Indicator	Indicator
Domain	Label	
	OER2	Proportion of education contexts covered by
		existing national or provincial policies, strategies,
		or programs for OER in education
		 Primary education (ISCED 1)
Government		 Secondary education (ISCED 2 and 3)
Commitment		 Post-secondary/Not Tertiary (ISCED 4)
		• Tertiary (ISCED 5-8)
		General education
		 Technical Vocational Education and Training
		Informal learning

• Non-formal learning



UNESCO OER Indicators

OER3 Presence of local/institutional OER policy, strategy or program:

- Open licensing policy/framework or endorsement of open licensing
- Access to funding or mobilization of funding for OER
- Quality assurance mechanisms for OER
- National or local OER repository or curated collection
- Local Learning management system or other system with student-facing OER
- Local OER training academy or training initiative, or supporting national training

Institutional Adoption



UNESCO OER Indicators

	OER4	 Proportion of educators (for ISCED levels 1-8) using OER in their teaching by major subjects: Maths Sciences Languages Social Sciences Technical and Vocational Subjects
Institutional Adoption	OER5	 Proportion of learners (for ISCED levels 1-8) who have used student-facing OER as part of coursework by major subjects: Maths Sciences Languages Social Sciences Technical and Vocational Subjects



h

UNESCO OER Indicators

nstitutional Adoption	OER 6	 Proportion of educators who have created new OER: Added new OER they created to an institutional platform for OER Added new OER they created to a national platform for OER Added new OER they created in the relevant local language
	OER 7	 Proportion of educators who have redistributed/shared existing OER Added existing OER to an institutional platform or repository Added existing OER to a national or international platform or repository



UNESCO OER Indicators

Teaching and Learning

- OER 8 Proportion of institutions reporting that OER has contributed to improved teaching and learning:
 - •Affordability of education for learners
 - Quality of teaching
 - Quality of curriculum materials
 - Relevance of curriculum materials
 - Content availability to address gaps
 - •Student success and grades
- OER 9 Proportion of institutions reporting that OER has
 contributed to an increase in personalized
 instruction to meet the distinct learning needs
 of individual students



Learning

UNESCO OER Indicators

	OER 10	Proportion of institutions reporting that OER has
		contributed to increased collaboration through:
		 Increased co-creation of OER among educators
		 Increased co-creation of OER among educators
Teaching		and their students
and		
Learning		

 \rightarrow Supplemental Concepts and Indicators on OER



Thank you...

f.miao@unesco.org http://www.ictedupolicy.org http://twitter.com/#!/UNESCOICTs http://www.facebook.com/UNESCOICTinEducation https://en.unesco.org/themes/ict-education