

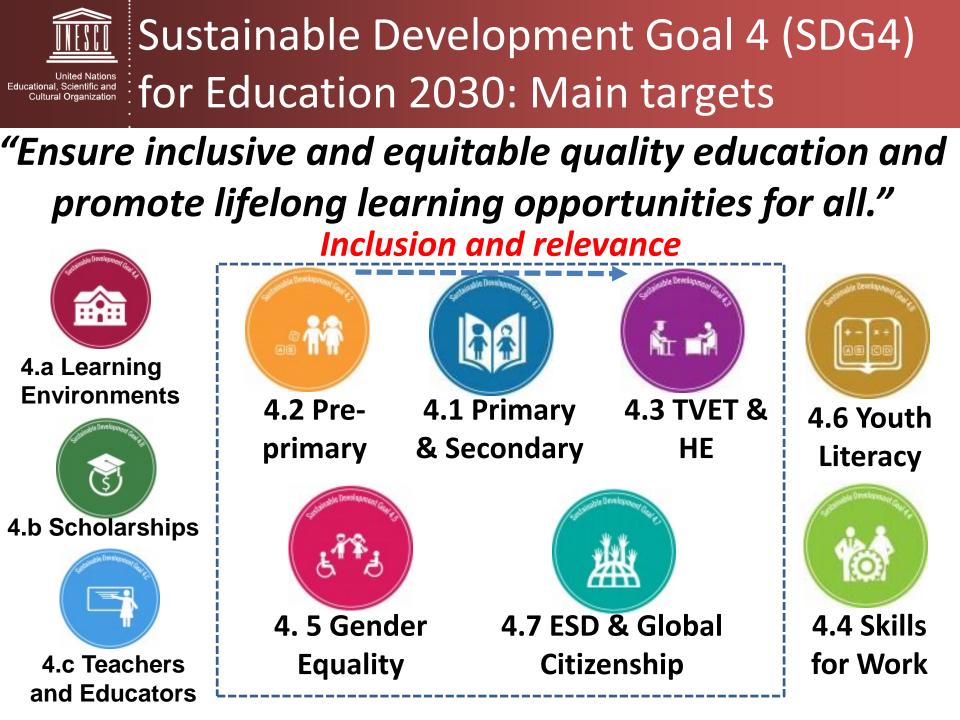
Educational, Scientific and

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

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- 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

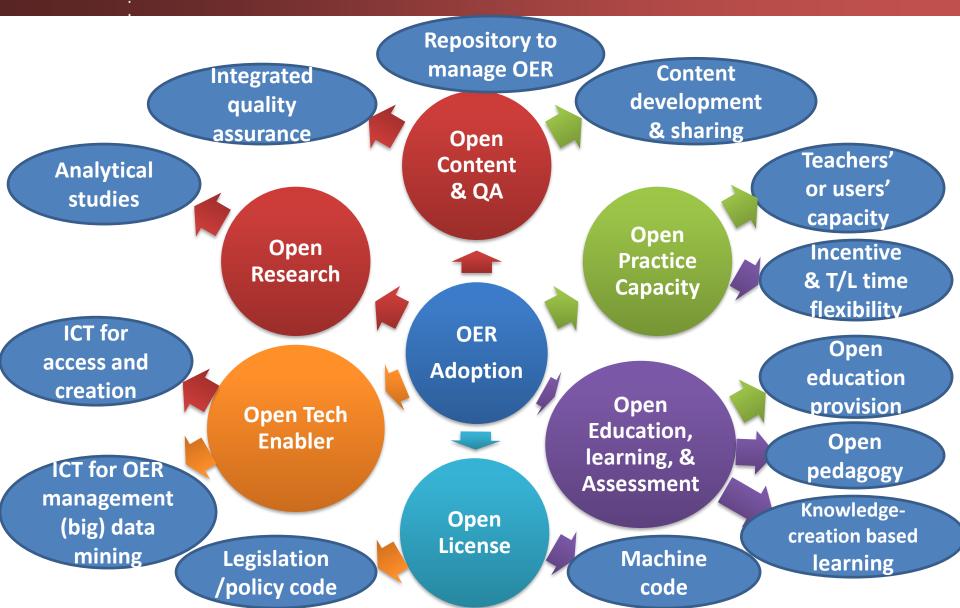
### **Targets**

- 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



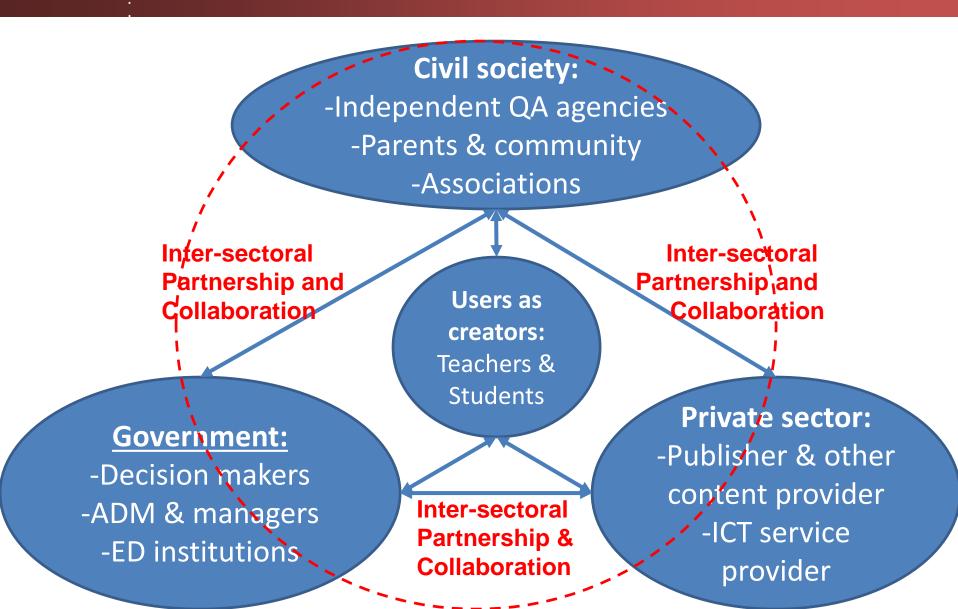
United Nations

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





#### Multi-stakeholder action and collaboration



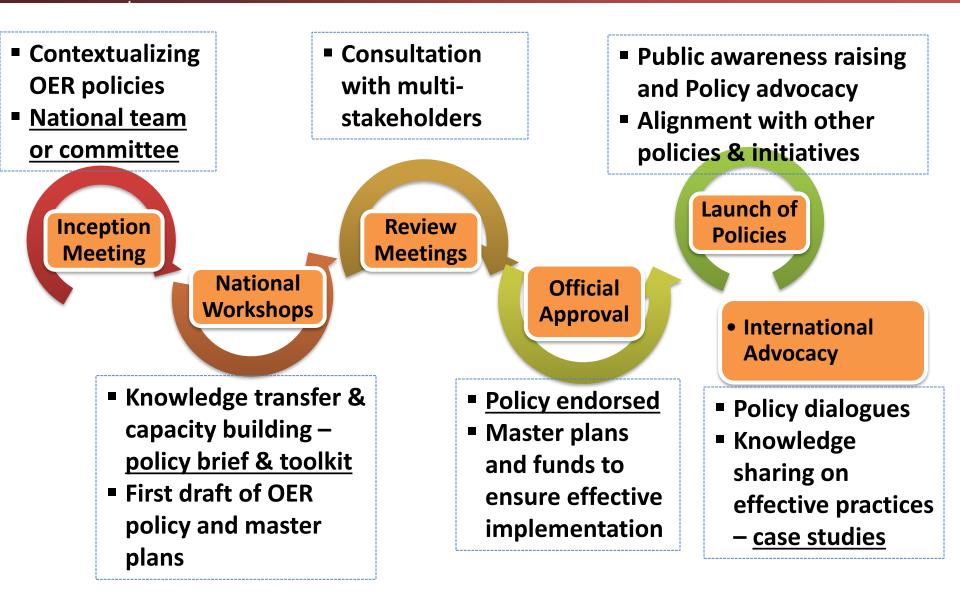


# UNESCO's programmes

- UNESCO coined the term of **OER** in 2002
- Hosted the 1<sup>st</sup> 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
- 2<sup>nd</sup> World OER Congress: September 2017,
   Slovenia → Ljubljana OER Action Plan 2017
- OER Recommendation a normative instrument to be adopted in 40<sup>th</sup> Session of UNESCO General Conference – November 2019

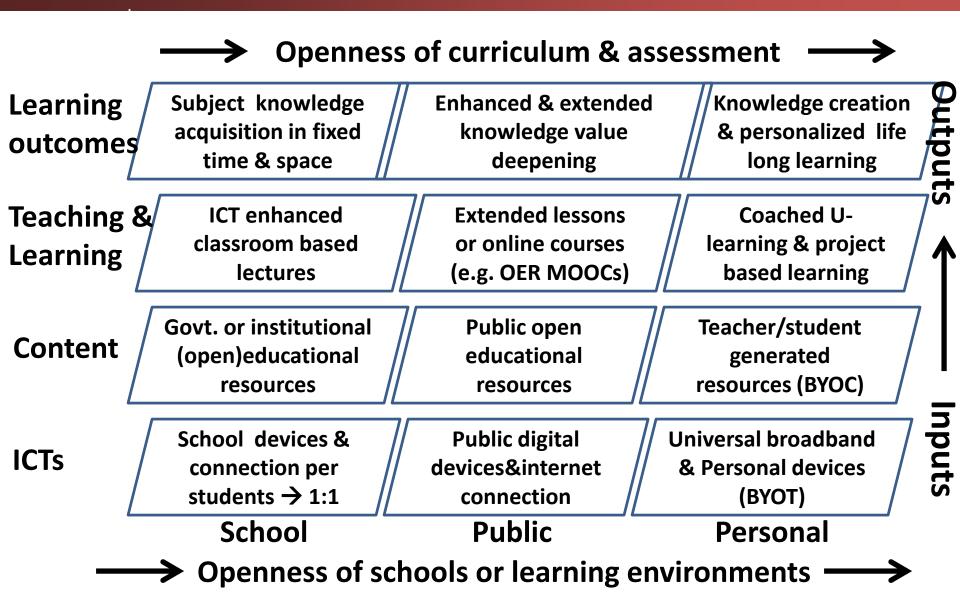


**UNESCO** supports member states to develop national OER policies Educational, Scientific and Cultural Organization





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	<ul> <li>Open licensing policy/framework or endorsement of open licensing</li> <li>Funding program for OER</li> <li>Quality assurance mechanisms for evaluating OER</li> </ul>
Government Commitment		<ul> <li>Making international OER available</li> <li>Making local-language-based OER available</li> <li>OER training academy or training initiative</li> <li>Incentive mechanism to encourage OER adoption and use</li> <li>Pro equity provisions for the use of OER in favor of</li> </ul>

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
		<ul> <li>Primary education (ISCED 1)</li> </ul>
Government		<ul> <li>Secondary education (ISCED 2 and 3)</li> </ul>
Commitment		<ul> <li>Post-secondary/Not Tertiary (ISCED 4)</li> </ul>
		• Tertiary (ISCED 5-8)
		General education
		<ul> <li>Technical Vocational Education and Training</li> </ul>
		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	<ul> <li>Proportion of educators (for ISCED levels 1-8) using OER in their teaching by major subjects:</li> <li>Maths</li> <li>Sciences</li> <li>Languages</li> <li>Social Sciences</li> <li>Technical and Vocational Subjects</li> </ul>
Institutional Adoption	OER5	<ul> <li>Proportion of learners (for ISCED levels 1-8) who have used student-facing OER as part of coursework by major subjects:</li> <li>Maths</li> <li>Sciences</li> <li>Languages</li> <li>Social Sciences</li> <li>Technical and Vocational Subjects</li> </ul>



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# **UNESCO OER Indicators**

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



# **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**

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

 $\rightarrow$  Supplemental Concepts and Indicators on OER



#### Thank you...

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