



# The SDG 4 Learning Agenda: The current state of affairs

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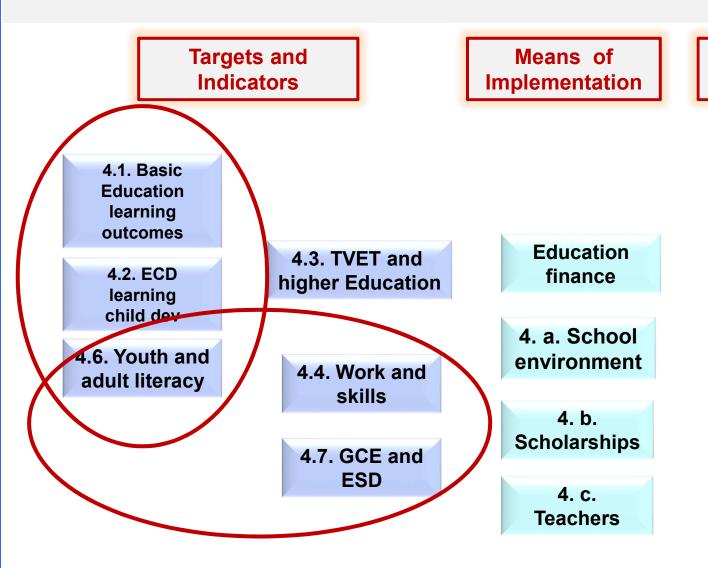
#### **Education 2030 Framework** for action (Para 100)



- ...UIS will remain the official source of cross-nationally comparable data on education.
  - It will continue to produce international monitoring indicators based on its annual education survey and on other data sources...
  - In addition to collecting data, the UIS will work with partners to develop new indicators, statistical approaches and monitoring tools to better assess progress across the targets related to UNESCO's mandate, working in coordination with the Education 2030 SC. 2

## SDG4: 11 indicators for a Life Cycle Approach to Education and Skills

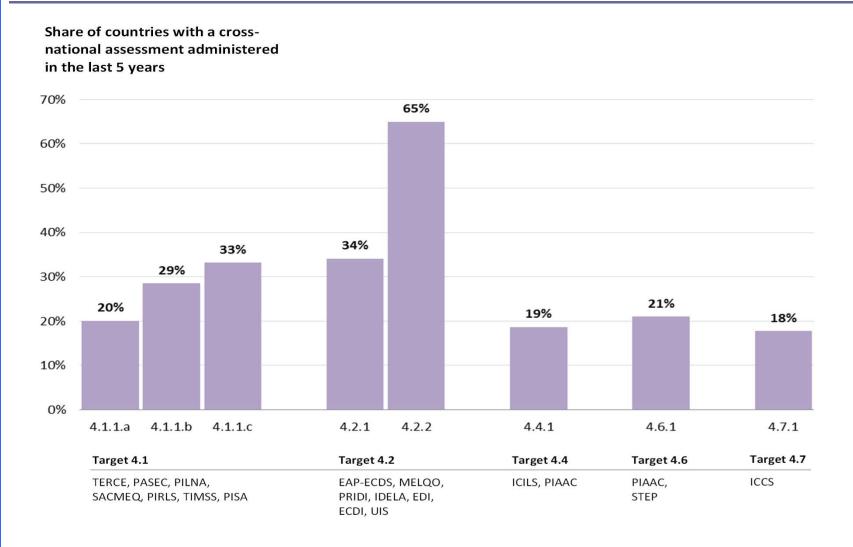




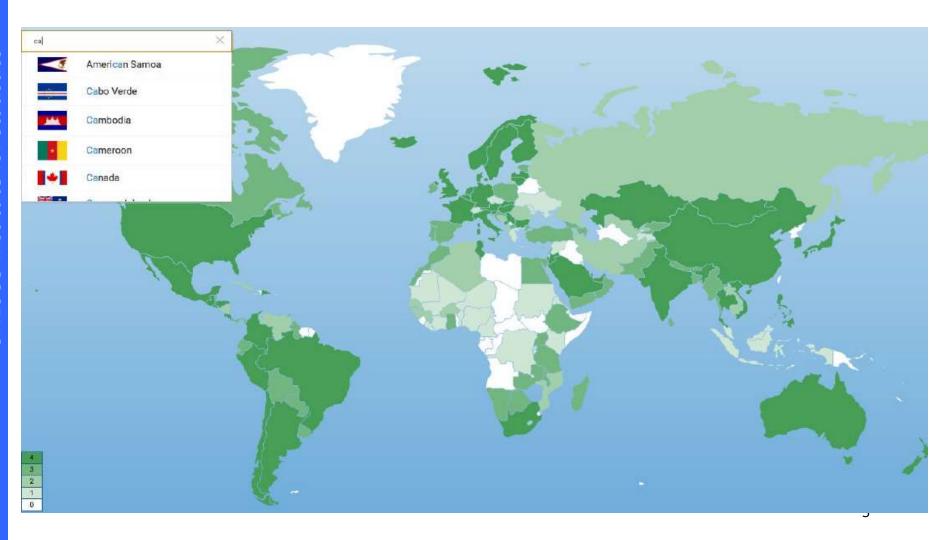
**Transversal Dimensions** 

4. 5. Equity

# Mapping assessment efforts at the cross national levels...



#### Mapping assessment efforts...



#### Monitoring: "the" options

- Define benchmarks and indicators based on nationally defined standards (from national assessments)
- Develop a "global" mechanism on measuring and framing indicators at one point in time i.e. snapshots at different grades / different ages? Based on current instruments
- Indicators derived from an empirically developed scale

#### However we do not know the characteristics

- Detailed information about assessment:
  - Purpose
  - Scope
  - Funders and other stakeholders
  - Test design
  - Coverage
  - Data reporting and use
- Except for some sources with
  - Detailed information about the culture of assessment in countries
  - Some reporting UIS catalogue of LO, Saber, OECD and some other efforts

## Why assessments are not comparable?

- In many cases we do just do not know anything
- Quality and scope of vary.
- Different conceptual and methodological framework that may not yield comparable results
- No single measure at any education level
  - National assessment, if exist, happen in different grade/s;
  - Not Cross National Assessment with global representation
  - Not all regions conduct assessments

#### Cycles ends in different grade

	Last grade of primary education				Last grade of lower secondary education						
Region	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Total
East Asia & Pacific	1	5	27	2	-	1	7	18	8	1	35
Europe & Central Asia	20	11	18	3	1	-	11	34	7	1	53
Latin America & Caribbean	-	2	30	9	-	-	6	24	11	-	41
Middle East & North Africa	2	4	15	-	-	-	1	18	2	-	21
North America	-	-	3	1	-	-	1	2	1	-	4
South Asia	-	5	1	2	-	-	4	2	1	1	8
Sub-Saharan Africa	-	3	35	10	-	-	6	18	22	2	48
Total	23	30	129	27	1	1	36	116	52	5	210

# Literacy is defined differently depending on the Assessment

PISA 2000	PISA 2009/2015	PIRLS	SACMEQ	STEP
Reading	Reading literacy	"the ability to	the ability to	"Understandin
literacy is	is	understand	understand	g, evaluating,
understanding,	understanding,	and use those	and use those	using and
using and	using, reflecting	written	written	engaging with
reflecting on	on and <b>engaging</b>	language forms	language forms	written texts to
written texts,	with written	required by	required by	participate in
in order to	<b>texts</b> , in order to	society and/or	society and/or	society, to
achieve one's	achieve one's	valued by the	valued by the	achieve one's
goals, to	goals, to	individual".	individual	goals, and to
develop one's	develop one's			develop one's
knowledge and	knowledge and			knowledge and
potential, and	potential, and to			potential"
to participate	participate in			
in society	society			

# Item development follows different processes

PIS	SA 2015	LLECE	SACMEQ
•	Item generation Panelling items Cognitive trial Field trial Main study selection	Uses the expert group approach in which a group of experts calls for submission of items.  TERCE is based on a curriculum analysis, specification tables.  Item development involves specialists from almost all countries	Items are developed by a panel of subject specialists drawn from all 15 participating school systems

# And there are many reporting scale score and reporting levels

	PISA	PIRLS/TIMSS	ICILS
	Reading/Math/Sci	Reading/Math/Sci	
	ence	ence	
Scale centre-point			
(standard deviation			
of score)	500 (100)	500 (100)	500 (100)
			4 levels of
			proficiency
			with level 4
	7 levels of	4 levels of	representing
	proficiency with	proficiency with	the most
	level 6	level 4	advanced
	representing the	representing the	level and
	most advanced	most advanced	level 1
	level and level 1	level and level 1	representing
Performance/profici	representing the	representing the	the basic
ency level	basic level.	basic level.	level.

## And there are coverage issues HHS based or School based?

- Population Coverage: In or Out of School Children? All?
- Clarity on challenges
  - Problems (ISCED levels And other standards not included), periodicity,
  - Cost of collecting, errors and biases?
- What type of information do we get in each case?
  - Household based: Individual and his/her enabling context
  - School based: Individual in educational unit in an educational system

#### Key measurement challenges

#### Two key sets of challenges:

- reconciling the multiplicity of learning assessments within a common framework that integrates activities
- reducing the high transaction costs currently associated with the lack of coordination and duplication of efforts.

#### Towards building a universal LO Strategy

- Have a response to emerging priorities for measurement of learning
- Three main pillars:
  - conceptualizing and building a universal learning scale
  - establishing a data quality framework
  - creating a platform for convening key stakeholders and thought leaders to provide input and guidance

## Advantages and steps towards a universal learning scale

- Value Added
  - All exams report on the same scale
  - Making it easy to understand how performance on one exam relates to performance on another
- Empirically find a global learning scale
  - Take per grade the frameworks and map the contents and abilities evaluated
  - Build a continuum with the abilities/skills/contents evaluated at each

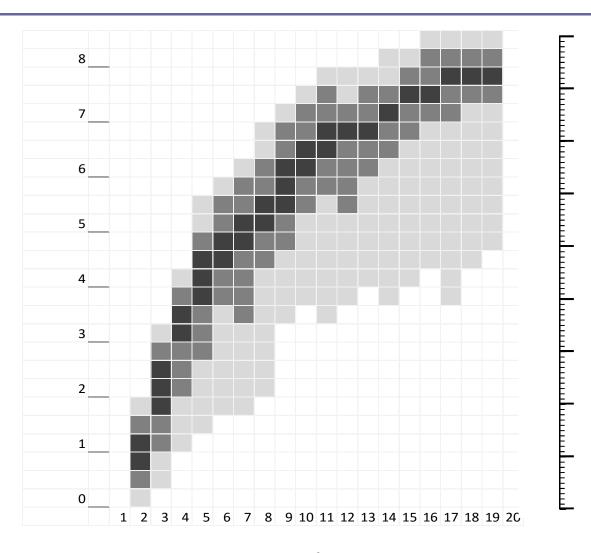
### Reconciling the multiplicity of learning assessments

- A scale that links the various assessments together based on an agreed-upon set of shared quality criteria
- □ For global usage, the framework must be
  - Comprehensive
  - Transparent
  - Coherent

## How would a Global Learning Scale look like?

**Skills** 

**Contents** 

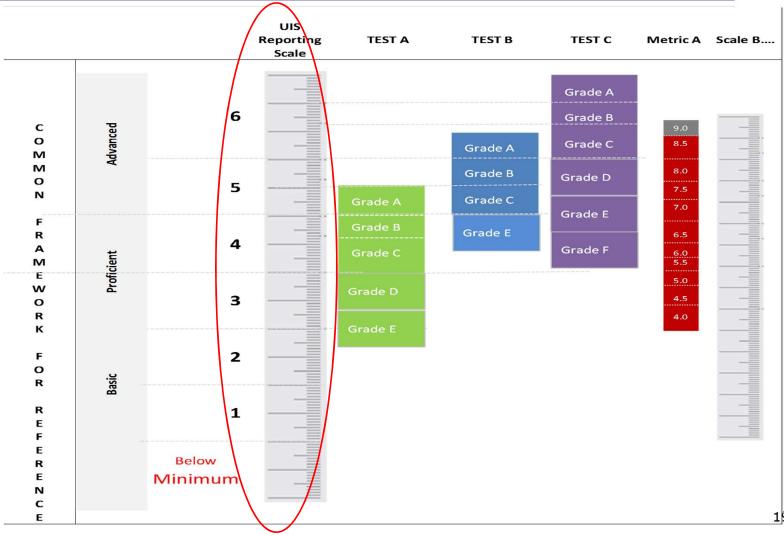


SDG reporting scale

Age/grade

#### And SDG reporting scale that allows coexistence with other scales

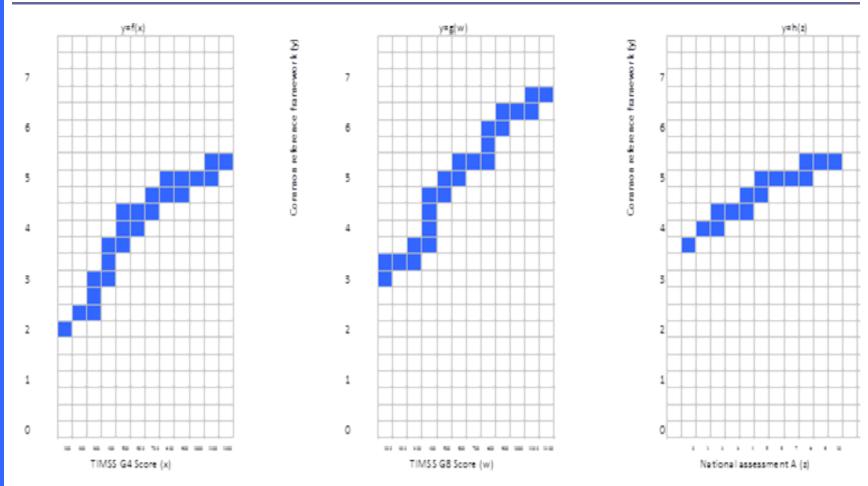




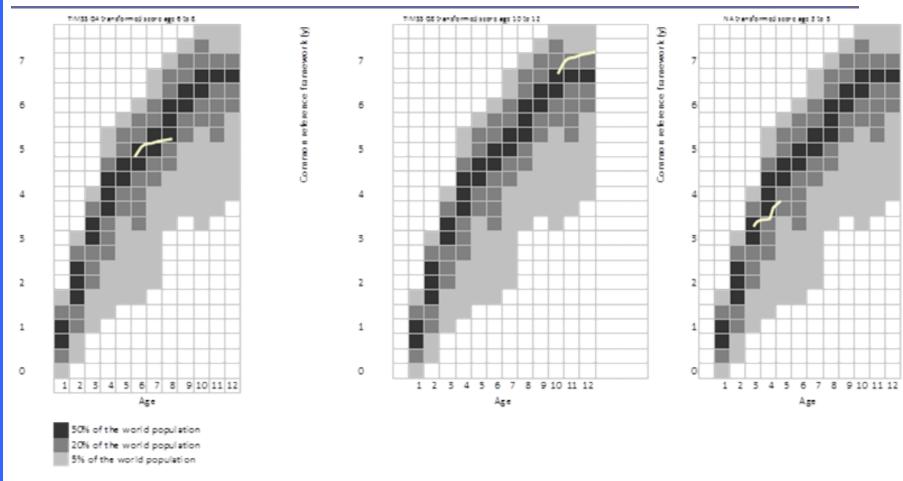
## That would allow current assessment to be mapped

						Digital literacy	GCED and so on
С	nced	6			PISA/TIM SS		
О М М О	Advanced	5			Country A		
N R E F F	Proficiency	4		PISA/TIM SS	SACM EQ/LLEC E	ICILS	ICCS
R E R E N C E K F O		3		Country A	PASEC/PILNA		
	Basic	2	PISA/TIM SS	SACM EQ/PAS EC/PILNA/LLE CE			
		1	SACM EQ/PA SEC/PILNA/L LECE	EGRA			
R		Below M inim iu m	EGRA				

### Define a SDG reporting scale and find the conversion function



## The Global Framework for Reference



# Accompanied by an assessment of quality of process (DQAF)

- Set to address:
  - Uneven technical standards.
  - Need to increase coherence of data.
- Aimed to cover:
  - institutional environments,
  - Content alignment
  - statistical processes
  - data characteristics.

## Value added to collaborative action

- Increase Cost-effectiveness
- Participatory approach
- Favors Multilateralism (not tied to one donor)
- Favors Neutrality
- Sustainability

## UIS Framework for data collection and Indicators implementation

- How to make data comparable for all areas from the many existing initiatives
- Expectation Management: what could be achieved and when
- Stepping stones approach
  - Define when the use of placeholders/proxy indicators is needed

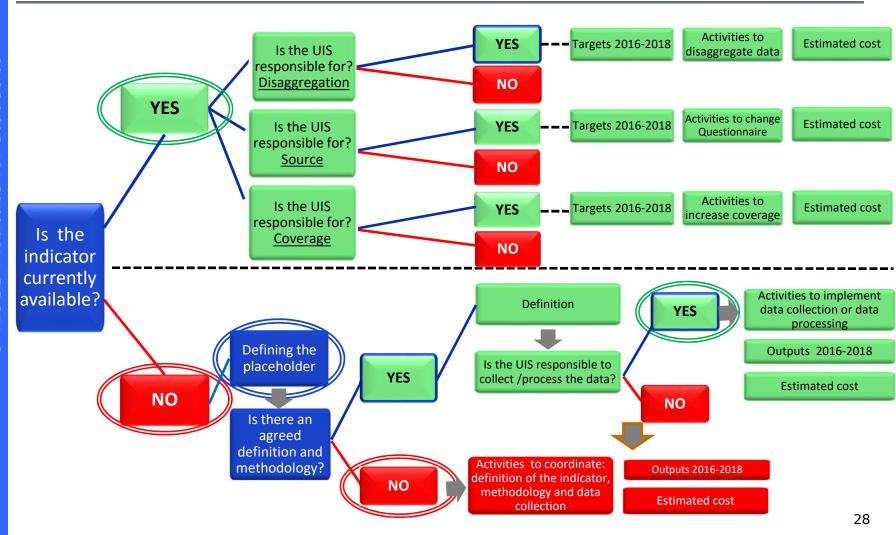
#### What does it take?

- Measurement tools that
  - Yield data on outcomes
  - Definition on benchmarks
  - Repeated measurement for monitoring
- Capacity for action (human, financial and technology)

#### Roadmap to implementing Indicators Stepping Stones Framework

- Step 1: List metadata
- Step 2: Availability of data
- Step 3: Define better possible placeholder
- □ Step 4: Define process and timeline to make it happen

## Roadmap to implementing thematic indicators framework



# Reconciling the multiplicity of learning assessments

- A scale that links the various assessments together based on an agreed-upon set of shared quality criteria (the scale and its reporting metrics)
- What are the alternatives for the assessment?
  - One measure used everywhere: Same items, same administration everywhere?
  - Common core of items ?
  - Common constructs (items that vary)
- How to ensure Quality?
- How to ensure countries' support?
- How to better link to new methodological developments?
- What is the best institutional setting?

#### **Thank You**







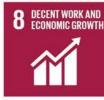






























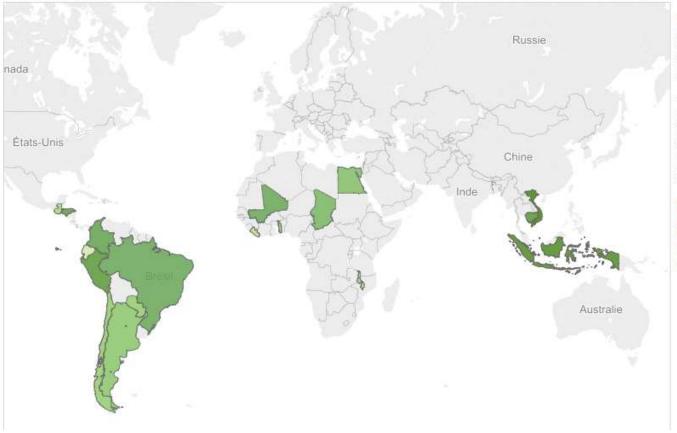


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#### We still have some information ...

Percentage of students on level of assessment reflecting the minimum achievement or more in language (Grade 2 or 3). National Assessment (Between 2010 and 2015)



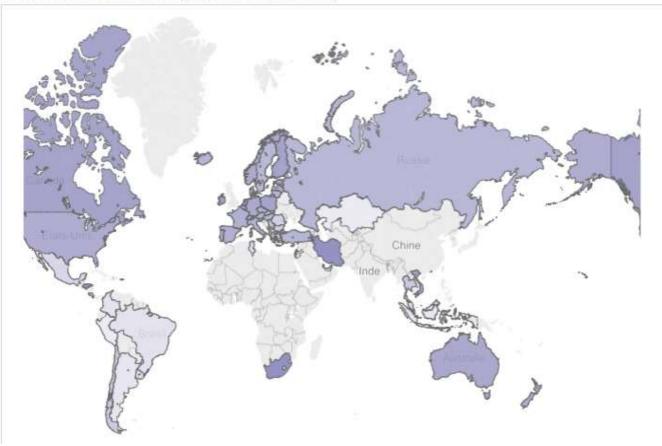
Percentage of student on level o..

TARGET 4.1. By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

4.1. Global indicator: Proportion of children and young people: (a) in grades 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by

4.1.1. Thematic indicator:
Percentage of children/young
people (i) in Grade 2/3, (ii) at the
end of primary and (iii) at the end of
lower secondary who achieve
minimum proficiency standards in
(a) reading and (b) mathematics

Percentage of students in proficiency level 2 or more of Language (End of lower secondary education). Cross-National Assessments (Between 2010 and 2015)



Percentage of student on level ...

40,12 100,00

TARGET 4.1. By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

4.1. Global indicator: Proportion of children and young people: (a) in grades 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

4.1.1. Thematic indicator: Percentage of children/young people (i) in Grade 2/3, (ii) at the end of primary and (iii) at the end of lower secondary who achieve minimum proficiency standards in (a) reading and (b) mathematics