







TCG4: Progress on LO/Skills indicators

TCG4/22

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GAML SDG4 Measurement Strategy - Overview Framework

Objective

This document aims to inform UNESCO Institute of Statistics (UIS) reporting strategy for Sustainable Development Goal (SDG) Indicators

- **4.1.1:** 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.**2.1.*P* roportion of children under 5 years of age who are developmentally on track in health, learning and psychosocial well-being, by sex
- **4.**4.2 Percentage of youth/adults who have achieved at least a minimum level of proficiency in digital literacy skills
- **4.**6.1. Proportion of population in a given age group achieving at least a fixed level of proficiency in functional (a) literacy and (b) numeracy skills, by sex
- **4.**7.4 Percentage of students by age group (or education level) showing adequate understanding of issues relating to global citizenship and sustainability
- **4.**7.5. Percentage of 15-year old students showing proficiency in knowledge of environmental science and geoscience

Reporting on SDG4 global and thematic indicators constitute a substantial program of work by UIS and its partners, to work on comparability across assessments and to implement the various processes through which it may be applied, coverage could be expanded and capacity is built in countries. This work in progress is a challenges that currently prevent harmonised global reporting and learning assessment. Key considerations in interim reporting

The challenges of achieving consistency in global reporting go far beyond the definition of the indicators themselves. In many cases, there is no "one-stop shop" or single source of information for a specific indicator that is consistent across international contexts. Even when there is agreement on the metric to be used in reporting, a harmonising process may still be necessary to ensure that coverage of the data is consistent. Education expenditure is an example of an agreed metric for which international harmonisation of data coverage has dramatically changed how education systems view their results.¹

The measurement of learning and skills poses particular challenges. Learning is typically assessed through complex processes that require definition of what learning is and/or what skills are under consideration, and how to measure it. Learning, functional literacy and numeracy and skills itself are complex construct, involving cognitive and non-cognitive processes accumulated over a sustained period of time. The measurement of may be seen as the last stage in this long process, meaning that indicators must be guided by deep understanding of what processes underpin the data.

¹ See Who Pays for What in Education? http://uis.unesco.org/sites/default/files/documents/who-pays-for-what-in-education-national-revealed-through-accounts-2016-en_0.pdf



Broadly, the development and implementation of any learning assessment/skills surveys follows four key phases, illustrated in Table 1. These may be applied at an international, regional or national level, depending on the scope of the assessment/survey program.

Table 1: Key phases in an assessment /skills measurement

Phase	What it addresses	Main components
Conceptual Framework	What and who to assess	 Assessment framework (cognitive, non-cognitive, and contextual) Target population
Methodological Framework	How to assess	 Instrument design Sampling frame Operational design Data generation Data analysis (e.g. classical or Item Response Theory) Contextual information to be collected/disaggregation/indicators?
Reporting Framework	How to report	Defining scalesBenchmarking (type, level)Defining progress (longitudinal equating)

Each of these phases needs specific sets of activities depending on the indicator to address not only international consistency, but also the overall quality of the program, and its utility to country's education/skills/social systems themselves.

Conceptual framework

Assessment framework

Assessment programs differ in the conceptual frameworks that are used to develop their overall assessment framework or survey.

In the case of learning assessment programs may be either age or grade based; and may also vary in the point within a grade that is assessed. For example, some programs assess at the middle of an education level, some at the end of an education level, while others assess at both mid- and end points of an education level. Furthermore, the number of years of schooling (or duration of schooling) represented by a particular education level may vary across education systems. For example, some systems have six years of primary education, so testing at the mid- and end point of an education level may represent Grades 3 and 6 respectively. Others have four years of primary school, so the mid- and end point of the same education level may be Grades 2 and 4 respectively.

A second limitation is that when assessments are school-system based - usually referred as school-based learning assessments - the indicators cover only those in school. The proportion of in-school target populations varies from country to country due to differences in out-of-school children and populations of young people in the country. Assessing competencies of children and young people who are out-of-school would require household-based surveys. Assessing children and young people in households is under consideration, but may be very costly and difficult to administer.



The activities put in place are

- 1. Cognitive Framework: defining a global framework
 - a. Conceptual model
 - i. Takes an existing framework that could be adapted/extended or
 - ii. Build based on existing surveys and assessments
 - b. Build a reference list and coding scheme per area or subject
 - c. Maps as many frameworks as possible
 - d. Draft a global reference framework
 - e. Consult experts and countries with regional representation
 - f. Propose final versions
- 1. Contextual questionnaire
- 2. Target population

Outputs are

- a. A global framework for reference
- b. A standalone module or set of questions in some targets
- c. A proposed background questionnaire addressing the reporting needs of SDG4 in general attending disaggregation and indicators in both global and thematic framework

Methodological framework

The main aspects highlighted in the table

Test design

Assessments can be built in different formats, from multiple choice questions only to a combination of multiple choice and constructed response items. Over the years, technology has enabled more dynamic assessment design. With improved psychometric modelling, with which reasonable estimations can be done using a smaller number of items and target populations, different implementation platforms and operational procedures can be used. These possibilities have led to more complex test design, which must be carefully examined to ensure that it provides appropriate coverage of the learning domains under assessment.

The levels of learning progress represented in the test design is another important issue.

Sampling frame

The nature of the sample is critical to the robustness of the assessment program as a measure of student learning progress, independent of any considerations of international consistency.



Likewise, sample survey data must be reported along with standard errors, so inference is allowed and proper confidence intervals can be inferred. The only exception is where an assessment program includes all students at the relevant age or grade.

Operational design and data generation procedures

Robust, consistent operations and procedures are an essential part of any large-scale assessment or survey, to maximise data quality and minimise the impact of procedural variation on results. Examples of procedural standards may be found in all large-scale international assessments, in household or population surveys where the goal is to establish procedural consistency across international contexts. Many national assessments and surveys also set out clear procedural guidelines, to support consistency in their operationalisation.

Data analysis

In terms of data analysis, some countries may use more sophisticated modelling and reporting methods to simpler ones. Depending on the model used, reporting scores will differ in their scales and metrics.

Data analysis in some indicators typically includes disaggregation by student demographic characteristics such as age or age-group of students, sex, location, socio-economic status, migrant status and ethnicity. This supports confirmation of the representativeness of the sample for cohorts for whom learning outcomes may differ, and also assists education systems to understand which student cohorts are best served by their schools. Disability status is not currently available in most national and cross-national learning assessments.

The activities put in place are

- 1. Definition on a data alignment strategy
- 2. Mapping of Learning Assessment and Skills Surveys

Outputs are

- 1. Data alignment Concept note and guidelines
- 2. Catalogue of Learning Assessments
- 3. Data Alignment Reporting Tool

Reporting framework

Defining scales

Reports on learning indicators are usually using different scales. Analysis of results therefore remains contained to their particular test, linked to one methodology and one scale. While there are some convergence in methodologies through time it is still difficult to situate an individual student's learning progress on an indicative pathway

Benchmarking

Currently, there are no common standards validated by the international community as a global benchmark in no indicator of the group. While data from many national learning assessments is



available now, every country sets its own standards so the performance levels defined in these assessments may not always be consistent.

Over time, benchmarks will be identified and linking will be established to facilitate comparison.

• Linking to a common scale

The process of linking for comparability needs to be established.

The activities put in place are

- 1. Linking concept note and protocols for social moderation and psychometric linking
- 2. Finalization on benchmarking

Outputs are

1. UIS reporting Scale with benchmarks

Format for reporting: long terms and interim reporting

In general, reporting format aims to communicate two pieces of information:

- 1. the percentage of students meeting minimum proficiency standards for the relevant domain and measurement point; and
- 2. the conditions under which the percentage can be considered comparable to the percentage reported from another country, including any caveats that may affect comparability.

In the first round of reporting, the number of caveats on comparability (limitations) is likely to outweigh the number of conditions under which cross-country comparability can be considered (possibilities). This does not detract from the value of interim reporting, recalling that the primary goal of SDG reporting is not to compare results across countries, but to inform system improvement within individual countries or country groups. Over time, possibilities for international comparability may increase, but this primary purpose will remain until the criteria for

The activities put in place are

- 1. Definition of a protocol for interim reporting that incorporates the long term views
- 2. Validation process Concept Note

Outputs are

- 1. Protocol for interim reporting
- 2. Guide for countries on how to report for LO/Skills indicators and the validation process

An example: activities and outputs for reporting indicator 4.1.1.

The whole process for indicator 4.1.1. is summarized in Table and Figure below that includes the UIS capacity development activities.



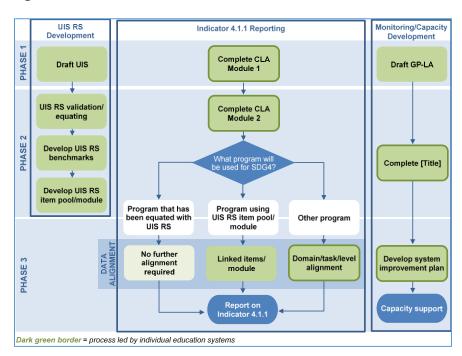


Steps	Actions	Tools/Proce ss	Output	Responsible	Progress to Date	Expected date of Completio n
Objectives					'	
Global	Reporting	UIS reporting protocol	Databases	UIS	Doc Lit	2017
National	Improvement Plan if needed	Catalogue of Learning Assessment (modules 1 and 2)	Mapping characteristics	UIS/Partners	Pilot Modules 1 and 2 undergoing	2018
		Data alignment recording tool (DART)	Mapping results	UIS/technical Partners	CN finished Tool in developme nt	2018
		System-Wide Analysis of Assessment Practices (SWAAP)	Concept Note Tool	ACER	Concept Note for discussion	2018
UIS Reporting Sc	_	T.,				
1. Constructio n of UIS Reporting Scale	1. Contents standards	Mapping of CNA		UIS/IBE mapping of CNAFs IEA/Regional Work would round up process	Mapping for Math NAFs and CNA finalized Reading Undergoing	2018
		UIS proposed definition on Concepts	UIS Draft GFFR	UIS/IBE mapping of NAFs	Math almost finalized Reading in Progress	2018
		Mapping pf CNA PLs and PLDs	UIS Draft PL PLD	UIS/IBE mapping of NAFs	CN proposal Guidelines and protocols	2018
	2. Number and name of Prof Levels	Mapping and experts judgment	UIS Draft levels	UIS led with experts/countries	CN proposal Guidelines and protocols	2018
	3. Policy Proficiency level descriptors	UIS Proposal	UIS Draft PLDs	UIS led with experts/countries	CN proposal Guidelines and protocols	2018
	4. Full definition of the Performance Standards	UIS proposal	UIS Complete description of PLDs	UIS led with experts/countries	CN proposal Guidelines and protocols	2018
Data alignment						
	 Mapping alignment of 	Protocol concept note	Degree of Alignment	UIS/Experts/techni cal partners	CN proposal	2018



2. Socially- Moderated Alignment ²	Policy Level Descriptors				Guidelines and protocols	
-	2. Set socially moderated Performance levels	Protocol concept note	Protocol for mapping Experts/Countri es	UIS/Experts/techni cal partners	CN proposal Guidelines and protocols	2018
3. Psychometr ic Alignment ³	1. Alignment	Protocol / Meeting	Experts	UIS/Partners	CN proposal Guidelines and protocols	2018
	2. Concordan ce	Protocol / Field Work	Degree of Alignment	UIS/Partners	Guidelines	2020
	3. Test and/or item based linking 4. Pair Wise Comparison?	Protocol / Field Work	Degree of Alignment	UIS/Partners	Guidelines and protocols	2020
4. Procedural Alignment	Define minimum set of processes	Sampling Rate of response	Protocol Protocol	UIS/Partners UIS/Partners	Guidelines and protocols	2018
	that grant quality	Translation	Protocol	UIS/Partners		

Figure 1



² Key for countries either not participating in a global or regional assessment, or who may be participating in those, but do not wish to report based on them, and wish to report based on a national assessment. It is necessary because psychometric alignment may not be possible as there may not be enough shared items between the UIS-RS and the national assessments, especially at first.

³ Only possible when there are enough shared items.



GAML – Indicator Development

Indicator	Theme	Issues
4.1.1.b/c	Reading and	Work plan addressing
	Mathematics at	- Global comparability with Global Framework for Reference
	the End of	- Definition of proficiency levels and description of levels
	Primary and end	- Benchmarks, one on each measurement point
	of lower	- Long and interim reporting strategy
	secondary	- Possibility of stand-alone module
4.1.1. a	Reading and	Work plan addressing
	Mathematics at	- Global comparability with Global Framework for Reference
	the early grades	- Specificities of the indicator
		- Definition of proficiency levels and description of levels
		- Benchmark
		- Long and interim reporting strategy
		- Possibility of stand-alone module
4.2.1	ECD	Support to UNICEF
	developmentally	- Definition on three domains (learning, health, psychosocial)
	-on-track	- Definition of developmentally-on-track on the composite of three domains
		- Development of reporting scale
		- Benchmarks
		- Long and interim reporting strategy
		- Possibility of stand-alone module
4.4.2	Funding	Work plan addressing
	formulas	- Global comparability with Global Framework for Reference
		- Definition of proficiency levels
		- Benchmarks
		- Long and Interim Reporting strategy
		- Possibility of stand-alone module
4.6.1	Country	Work plan addressing
	participation and	- Comparability with expanded Framework for Reference
	coverage issues	- Definition of proficiency levels
		- Benchmarks
		- Implementation options to encourage country participation
		- Long and interim reporting strategy
		- Possibility of stand-alone module
4.7.4	GCED	Work plan addressing more fundamental issues
		- Relevant of global comparability in GCED
		- Possibility of common definitions and proficiency levels
		- Target group – age/grade and in/out of school youth
		- Defining benchmarks
		- Reporting strategy, use existing ICCS or 'link' across existing national
		assessments
		- Commission studies to examine the fundamental issues
4.7.5	ESD	Work plan addressing more fundamental issues
		- Relevant of global comparability in ESD
		- Possibility of common definitions and proficiency levels
		- Target group – age/grade and in/out of school youth
		- Defining benchmarks
		- No existing cross-national assessment except PISA but the assessment
		might not repeat
		- Reporting strategy
		- Commission studies to examine the fundamental issues
	1	Commission studies to examine the fundamental issues





GAML Work Plan

		2017 2018)18			
		Jan -	April -	July -	Oct -	Jan -	April -	July -	Oct -	
Taal: Fava	- 4.4	Mar	June	Sep	Dec	Mar	June	Sep	Dec	
Task Force			- 4						_	
Indicator	Proportion of children and young people: (a) in lower secondary achieving at least a minimum								of	
	Expected output 1: Conceptual framework - Global Framework for Reference							Math	Readi ng	
	Expected outcome: Reference framework of contents and competencies to guide teaching, learning and assessment									
	Reference list and coding scheme to help systematically map national mathematics assessment frameworks									
	Database of the mapping of national mathematics assessment frameworks					Math	Readi ng			
	Reference list and coding scheme to help systematically map national reading assessment frameworks									
	Database of the mapping of national reading assessment frameworks Database of the cross-national assessments'									
	proficiency descriptors Database of the cross-national assessment								_	
	mathematics and reading frameworks Mapping of the mathematics and reading reference list and the respective reporting									
Ş	scales Global consultation of the mathematics and							Math	Read	
Activities	reading reference frameworks Expected output 2: Methodological framewor	k - Repor	l ting Scale	and Prof	iciency Be	nchmarki	ing		ng	
AC	Expected outcome 2: A developed reporting s measurement point and the performance desc	cale and						each		
	Learning progression explorer that describe mathematics and reading reporting scale									
	Performance descriptors writing workshop						Reading Math Math			
	Proposed proficiency descriptors									
	UIS-PM performance levels' descriptors and labels									
	Expected output 3: Reporting framework - Qu	-			gnment to	reportin	g scale			
	Expected outcome 3: Clear protocol for repor	ting agair	nst indicat	tor 4.1.1	1	1	1			
	Data Alignment Reporting Tool (DART)									
	Quality assurance content and data alignment workshops									
	Standard-setting (social moderation) workshops to define benchmarks for each measurement point									
	Concordance table to establish psychometric linking between selected regional and international assessments									
	Interim Reporting Strategy									





		Jan - Mar	April - June	July - Sep	Oct - Dec	Jan - Mar	April - June	July - Sep	Oct - Dec
	Catalogue of learning assessments 2.0 (CLA	iviai	June	эср	Dec	iviai	June	Зер	Dec
	2.0) to collect national assessment meta-								
	information and performance level data								
	Background questionnaire module								
	Expected output 4: Research, comparative and development	alysis, pol	icy and co	ncept pa	pers addr	essing sp	ecific met	thodologi	cal
	Expected outcome 4: Sound methodological of	lecisions	based on	research					
	The commonality and difference of regional								
	and international assessments								
	The Value of Learning Data: A case for								
	Investing in cross-national Assessment								
	A Review of the use of cross-national								
	assessments data in educational practices								
	Mind the Gap: Proposal for a Standardised Measure for SDG 4 – Education 2030 Agenda								
	The Methodology for a Global Composite								
	Indicator for Education: Counting the								
	Number of Children Not Learning								
	More Than One-Half of Children and								
	Adolescents Are Not Learning Worldwide								
	Analysis of results of 2017 Survey of Cross-								
	national Assessments	_							
	Expected output 5: Special measurement stra	tegy for e	arly grade	es includi	ng short-t	erm stra	tegy		
	Expected outcome 5: Specificities of early grad	des and c	ultural he	terogene	ity proper	ly addres	sed		
	Convene a group of experts who can bring								
	the latest research, evidence, and data to								
	bear on the drafting of a longer-term								
	measurement strategy for Indicator 4.1.1a Countries brought into the discussions on								
	Indicator 4.1.1a in order to ensure that the								
	proposed measurement approaches are								
	sufficiently adaptive and responsive to their								
	contexts.								
	Stand-alone module as a global public good								
_									
Task Force	2 4.2								
Indicator	Proportion of children under 5 years of age who of by sex	are develo _l	omentally	on track i	n health, l	earning ar	nd psychos	social well	-being,
	Expected output 1: Conceptual framework - N	lapping o	f early chi	ldhood ir	nitiatives				
	Expected outcome 1: Knowledge of methodol	ogies and	l approacl	nes					
	Convene researchers/holders of large-scale								
	data sets to map out methodology and								
Activities	approach								
tivi	Expected output 2: Methodology								
Ă	framework - reporting scale and developmentally-on-track benchmark								
	Expected outcome 2: Develop report scale								
	for indicator 4.2.1								
	Methodology work to develop reporting								
	scale for ECD								





		2017				2018					
		Jan -	April -	July -	Oct -	Jan -	April -	July -	Oct -		
	Convene experts including member state	Mar	June	Sep	Dec	Mar	June	Sep	Dec		
	countries to define what it means by developmentally-on-track										
	Expected output 3: Reporting framework - preliminary work in collecting information from countries										
	Expected outcome 3: Meta information to inform the development of reporting framework										
	Catalogue of learning assessments 2.0 (CLA 2.0) to collect meta-information and performance level data from countries										
	Expected output 4: Final interim reporting protocol Expected outcome 4: Use of existing initiatives to report against indicator 4.2.1										
	Identify psychometricians from each team to work in partnership with the expert group to complete the analyses and make recommendations for using the findings to inform the interim reporting strategy										
	Stand-alone Module as a global public good										
Γask Force	e 4.4										
Indicator	 4.4.2: Proportion of youth and adults with information and communications technology (ICT) skills, 4.4.2: Percentage of youth/adults who have achieved at least a minimum level of proficiency in digit 										
	Expected output 1: Conceptual framework - Global Competency Framework of Reference on digital literacy skills										
			npetency								
	Expected outcome 1: A definition of digital lite		npetency								
	Expected outcome 1: A definition of digital liter Paper with the review existing cross-national and national competence, curriculum and assessment frameworks of ICT and digital		npetency								
ties	Expected outcome 1: A definition of digital lite Paper with the review existing cross-national and national competence, curriculum and		npetency								
Activities	Expected outcome 1: A definition of digital literacy skills Mapping of competency frameworks for		npetency								
Activities	Expected outcome 1: A definition of digital literacy skills Mapping of competency frameworks for digital literacy Global consultation of the competency	eracy skill	mpetency s	Framewo	ork of Refe						
Activities	Expected outcome 1: A definition of digital literacy skills Mapping of competency frameworks for digital literacy Global consultation of the competency framework	eracy skill	mpetency s and digital I	Framewo	ork of Refe						
Activities	Expected outcome 1: A definition of digital literary with the review existing cross-national and national competence, curriculum and assessment frameworks of ICT and digital literacy skills Mapping of competency frameworks for digital literacy Global consultation of the competency framework Expected output 2: Catalogue of assessments	eracy skill	mpetency s and digital I	Framewo	ork of Refe						
Activities	Expected outcome 1: A definition of digital lite Paper with the review existing cross-national and national competence, curriculum and assessment frameworks of ICT and digital literacy skills Mapping of competency frameworks for digital literacy Global consultation of the competency framework Expected output 2: Catalogue of assessments Expected outcome 2: Identify assessments of Commission the development and rolling out at a pilot stage a catalogue of assessments of	eracy skill	mpetency s and digital I	Framewo	ork of Refe						
	Expected outcome 1: A definition of digital lite Paper with the review existing cross-national and national competence, curriculum and assessment frameworks of ICT and digital literacy skills Mapping of competency frameworks for digital literacy Global consultation of the competency framework Expected output 2: Catalogue of assessments Expected outcome 2: Identify assessments of Commission the development and rolling out at a pilot stage a catalogue of assessments of ICT and digital literacy skills Stand-alone Module as a global public good	eracy skill	mpetency s and digital I	Framewo	ork of Refe						
Fask Force	Expected outcome 1: A definition of digital lite Paper with the review existing cross-national and national competence, curriculum and assessment frameworks of ICT and digital literacy skills Mapping of competency frameworks for digital literacy Global consultation of the competency framework Expected output 2: Catalogue of assessments Expected outcome 2: Identify assessments of Commission the development and rolling out at a pilot stage a catalogue of assessments of ICT and digital literacy skills Stand-alone Module as a global public good	of ICT ar	s digital l	Framewo iteracy sk acy skills	ills	erence on	digital lite	eracy skill	S		
Activities Activities Activities	Expected outcome 1: A definition of digital lite Paper with the review existing cross-national and national competence, curriculum and assessment frameworks of ICT and digital literacy skills Mapping of competency frameworks for digital literacy Global consultation of the competency framework Expected output 2: Catalogue of assessments Expected outcome 2: Identify assessments of Commission the development and rolling out at a pilot stage a catalogue of assessments of ICT and digital literacy skills Stand-alone Module as a global public good e 4.6 Proportion of population in a given age group a	of ICT ar ICT and o	npetency s and digital I digital liter	iteracy sk acy skills	ills	ciency in	digital lite	(a) literad	S		



		2017			2018					
		Jan - Mar	April - June	July - Sep	Oct - Dec	Jan - Mar	April - June	July - Sep	Oct - Dec	
	Concept paper on the definition of functional literacy and numeracy			'			3			
	Paper identifies measurement options									
	Expected output 2: Determine common conte	ent			•	•				
	Expected outcome 2: Reference Framework to guide policy making and evidence based decisions									
	Mapping of national assessment frameworks and performance level descriptors									
	Mapping of cross national assessment frameworks and performance level descriptors									
	Mapping performance level descriptors									
	Expected output 3: Final interim reporting pro	otocol				•				
	Expected outcome 3: Clear protocol for repor	ting agair	st indicat	or 4.6.1						
	Define a common framework									
	UIS-Skills Levels Descriptor for each learning/skills indicator									
	Write full descriptions of UIS-skill levels									
	Linking UIS-Performance Metrics with cross- national and national assessments									
	Evaluate alignment of proficiency level descriptors workshops									
	Standard setting (social moderation) workshops									
	Psychometric Linking									
	Stand-alone module as a global public good									
	Expected output 4: Data alignment to defined	l standard	ls							
	Expected outcome 4 : Better Quality Data									
	Catalogue of learning assessments 2.0 (CLA 2.0) to collect meta-information and performance level data from countries									
	Code of Good Practices - 'How-to' guide									
Force	2 4.7									
ator	4.7.4: Percentage of students by age group (or global citizenship and sustainability.	educatio	n level) sh	owing ad	equate ur	nderstand	ling of iss	ues relati	ng to	
atoi	4.7.5: Percentage of 15-year-old students show	ving profic	ciency in k	nowledge	e of enviro	onmental	science a	nd geosci	ience.	
	Expected output 1: Final interim reporting pro	otocol								
	Expected outcome 1: Clear protocol for repor	ting agair	st indicat	ors 4.7.4	and 4.7.5					
3	Commission paper on the mapping of existing GCE									
	Concept paper on the results of ICCS 2016 & 1974 6th consultation									
	Conduct a study to map ESD measurement tool									
	Create a platform among identified key sources of regional data									



			2017			2018				
			Jan - Mar	April - June	July - Sep	Oct - Dec	Jan - Mar	April - June	July - Sep	Oct - Dec
Secretari	at / G	uidelines to countries								
	Expected output 1: Capacity development for countries by providing guidance on key decisions									
	Ехр	ected outcome 1: Better quality data for o	country ar	nd monito	oring					
	Principles of Good Practice in Learning Assessment									
	Quick Start Guide for Implementing a National Learning Assessment									
	Ехр	ected output 2: Guidelines to countries								
ies		the maximum number of countries report against SDG 4 indicators								
Activities	4)	For Monitoring Learning Globally. How does it work? What should my country do?								
	Quick Guide	To Assess or not? How and how much does it cost? Strategic decisions in Learning Assessments								
	Qui	Implementing a National Learning Assessment								
		What and how to report? Countries options for reporting								
		How do learning assessments integrate with other data sources that inform education								