One Planet - Make It Count!

Environment Statistics and Accounting 2016 - 2030

YOU CANNOT MANAGE WHAT YOU CANNOT MEASURE

Outline

- International Mandate as Custodian Agency for SDG indicators - Update
- Working with Countries – closing the data gap
- Environment Statistics and Accounting 2018 - 2030

Custodian Agency - What is expected from us?

General Assembly Resolution A/RES/71/313 on Work of the Statistical Commission pertaining to the 2030 Agenda for Sustainable Development

INDICATOR METHODOLOGIES, COMPARABLE DATA

7. … international organizations [Custodian Agencies] to provide the methodologies used to harmonize country data for international comparability and produce estimates through transparent mechanisms;

CAPACITY DEVELOPMENT

11. Urges countries, the United Nations funds and programmes, the specialized agencies, … to intensify their support for strengthening data collection and statistical capacity-building, including capacity-building that strengthens coordination among national statistical offices, …
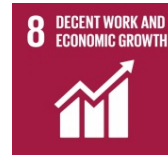
UN Environment as Custodian Agency

UN environment   6 goals - 26 Indicators

6 CLEAN WATER AND SANITATION

6.3.2 water bodies with good ambient water quality
6.5.1 integrated water resources management
6.6.1 extent of water related ecosystems
6.a.1 water- and sanitation-related official development assistance

8 DECENT WORK AND ECONOMIC GROWTH

8.4.1 material footprint per capita, and material footprint per GDP
8.4.2 domestic material consumption

14 LIFE BELOW WATER

14.1.1 coastal eutrophication and floating plastic debris
14.2.1 national EEZ managed using ecosystem based approaches
14.5.1 protected marine areas

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

12.1.1 SCP national action plans
12.2.1 / 12.2.2 material footprint/domestic material cons.
12.3.1.a Global food waste index
12.4.1 information Chemicals & Waste
12.4.2 Hazardous waste
12.5.1 National recycling rate
12.6.1 corporate sustainability reporting
12.7.1 sustainable public procurement
12.a.1 R&D for SCP / EST
12.c.1 fossil-fuel subsidies

15 LIFE ON LAND

15.1.2 Terrestrial/freshwater biodiversity sites - protected
15.4.1 protected areas mountain biodiversity
15.9.1 Aichi BD Target 2
15.a.1 / 15.b.1 Official development assistance and public expenditure on conservation and sustainable use of biodiversity and ecosystems
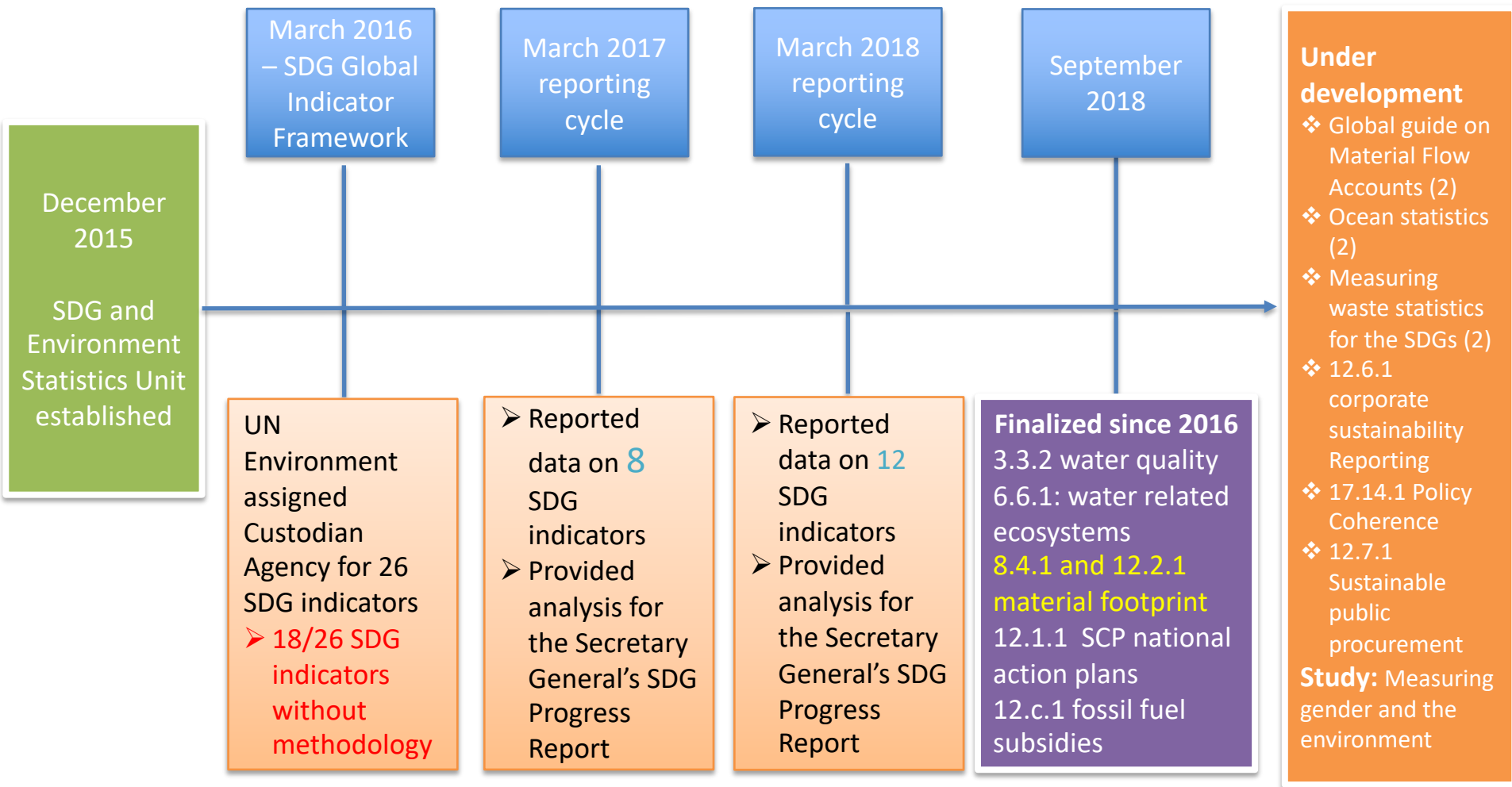
17 PARTNERSHIPS FOR THE GOALS

17.7.1 Environmentally Sound Technologies
17.14.1 Policy Coherence
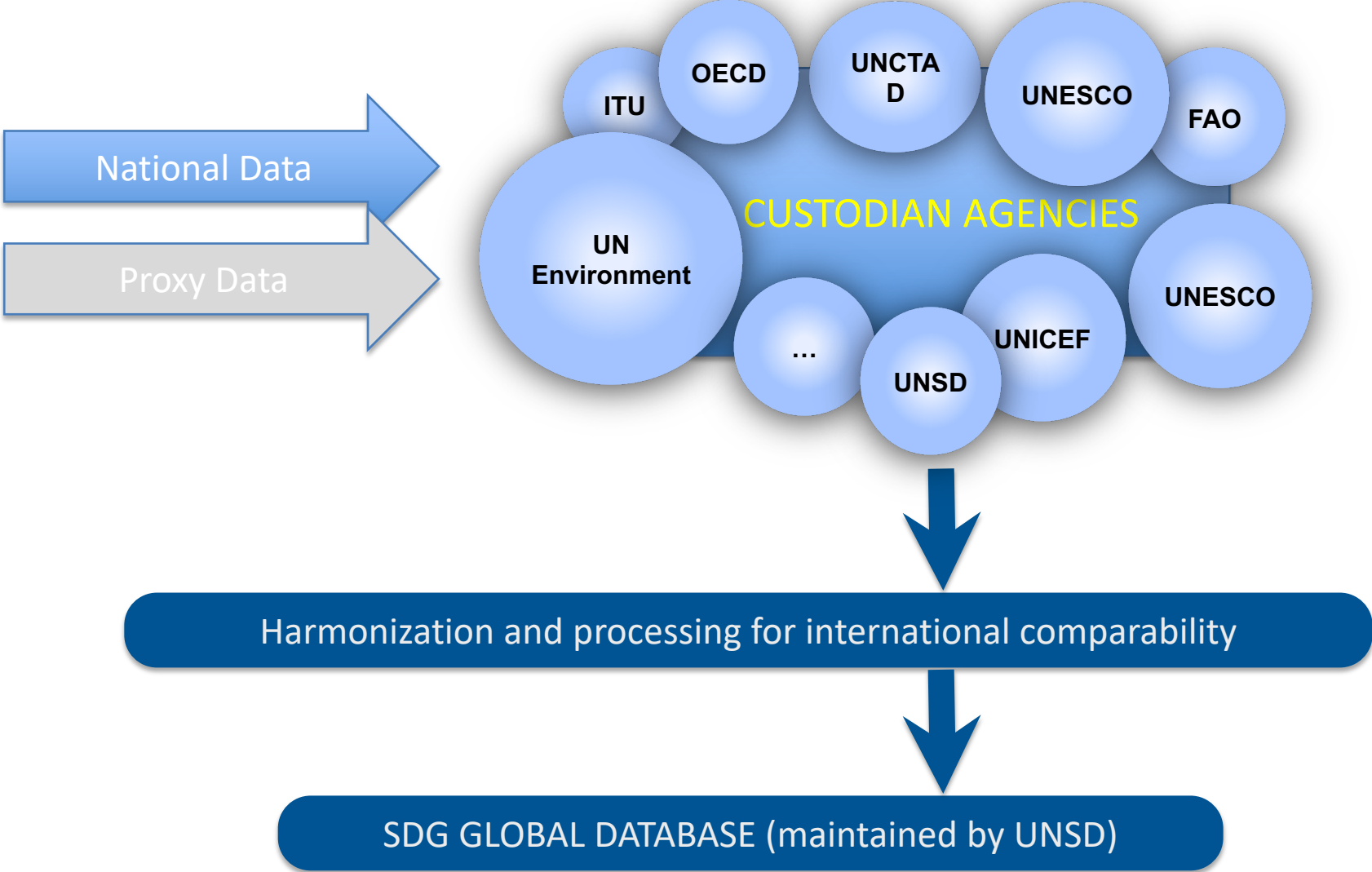
Progress indicator methodology development

■ under development

■ developed ('17-'18)

■ existed 2016

Status and progress on SDG Indicators

December 2015

SDG and Environment Statistics Unit established

March 2016 – SDG Global Indicator Framework

UN Environment assigned Custodian Agency for 26 SDG indicators
➢ 18/26 SDG indicators without methodology

March 2017 reporting cycle

➢ Reported data on 8 SDG indicators
➢ Provided analysis for the Secretary General's SDG Progress Report

March 2018 reporting cycle

➢ Reported data on 12 SDG indicators
➢ Provided analysis for the Secretary General's SDG Progress Report

September 2018

Finalized since 2016
3.3.2 water quality
6.6.1: water related ecosystems
8.4.1 and 12.2.1 material footprint
12.1.1 SCP national action plans
12.c.1 fossil fuel subsidies

Under development
❖ Global guide on Material Flow Accounts (2)
❖ Ocean statistics (2)
❖ Measuring waste statistics for the SDGs (2)
❖ 12.6.1 corporate sustainability Reporting
❖ 17.14.1 Policy Coherence
❖ 12.7.1 Sustainable public procurement
Study: Measuring gender and the environment

https://environmentlive.unep.org/statistics

The reality of SDG reporting

National Data →

Proxy Data →

CUSTODIAN AGENCIES

ITU • OECD • UNCTAD • UNESCO • FAO • UN Environment • ... • UNSD • UNICEF • UNESCO

↓

Harmonization and processing for international comparability

↓

SDG GLOBAL DATABASE (maintained by UNSD)

Working in Partnership – an example

Indicator 6.6.1 Change in the extent of water-related ecosystems over time

- UN-Water: Global Environmental Monitoring System
- National Aeronautics and Space Administration
- European Space Agency
- EU Joint Research Centre: algorithms, definitions
- Google: machine learning and computing

Satellite images

GEO-5 Summary for Policy Makers

- Lack reliable consistent time-series data
- Drivers / impacts not systematically monitored
  - ➢ countries should monitor
  - ➢ standardized approaches
  - ➢ international cooperation
  - ➢ capacity building
  - ➢ Improving access to information

Measuring progress on the environment pillar of the 2030 Agenda: Is there enough data?

Statistical Yearbook for Asia Pacific 2017 (ESCAP)

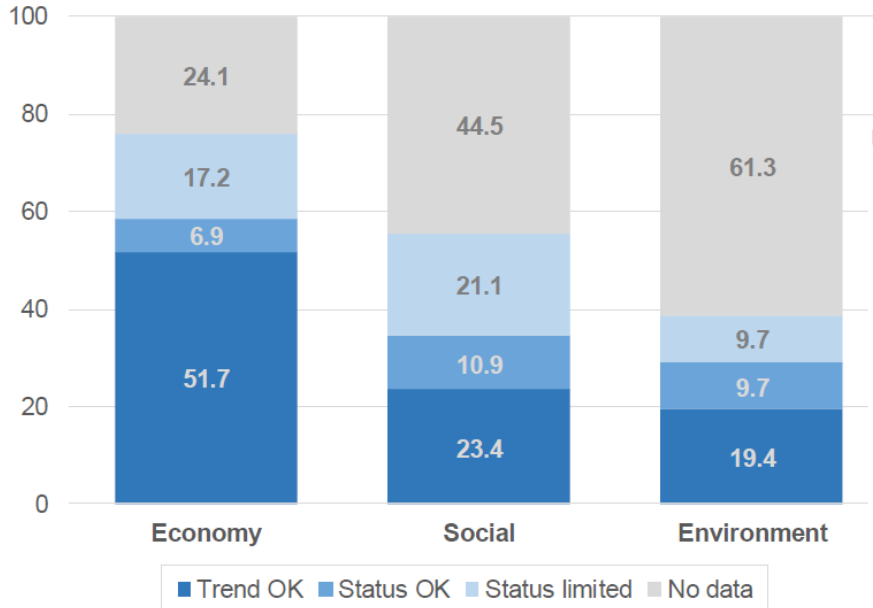Figure 2 - Data availability in the Asia-Pacific region by the three dimensions of development
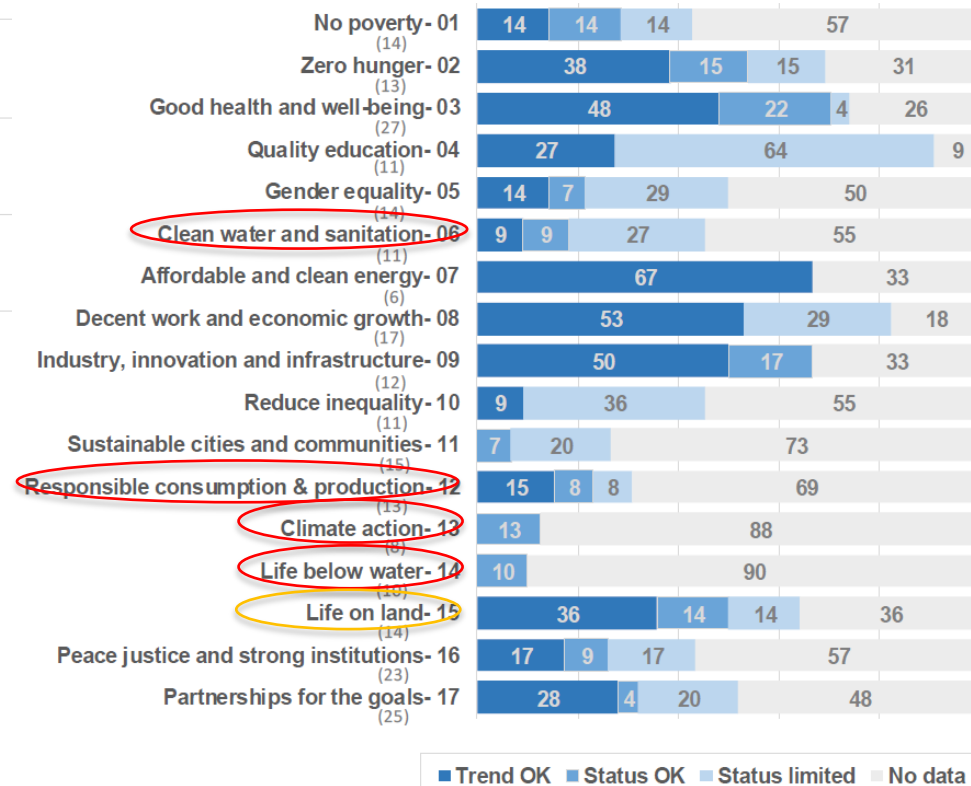

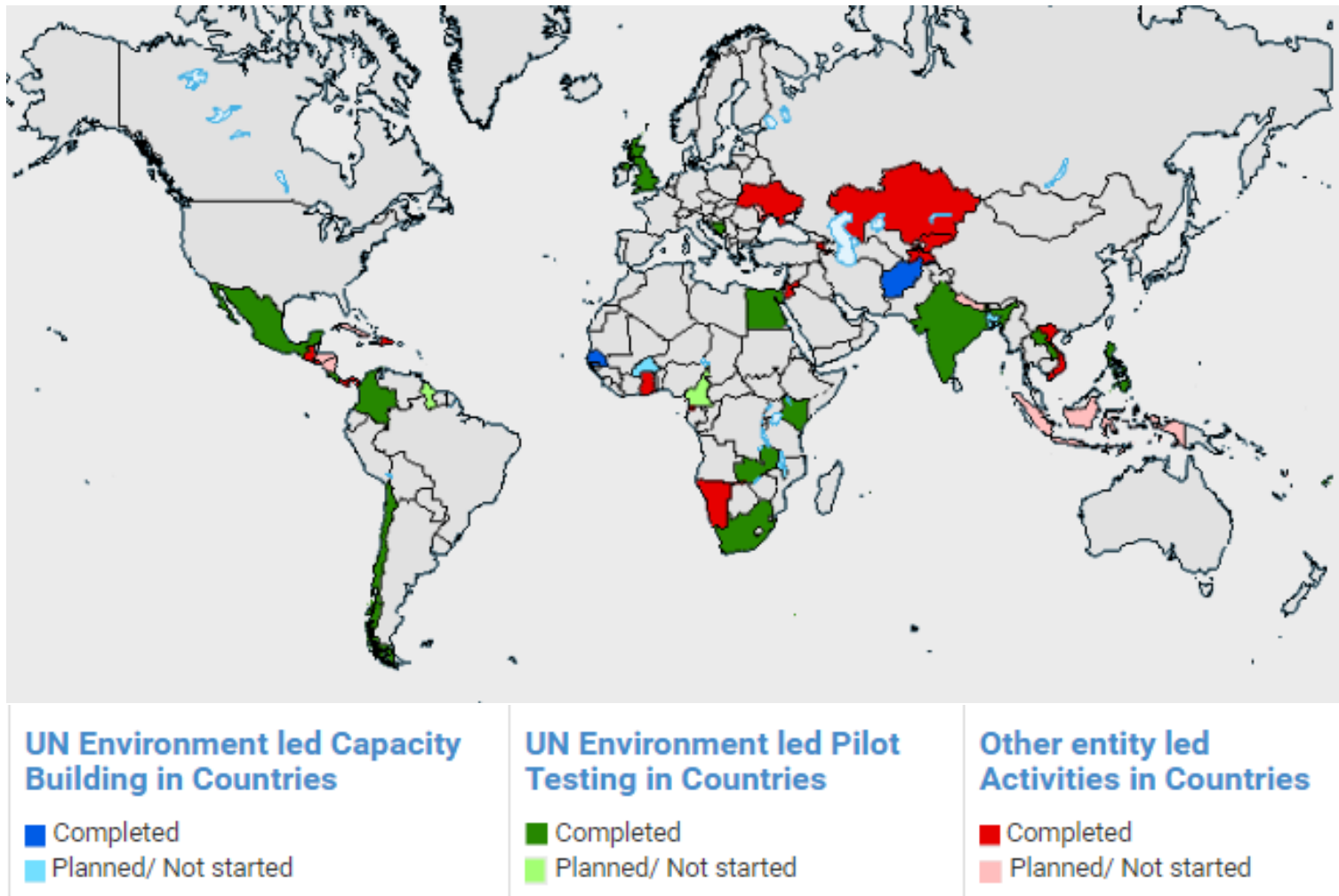Figure 3 - Data availability in the Asia-Pacific region by SDG goal, percentage of indicators

Agenda 2030 - global indicators without a methodology in 2016

244 SDG indicators 39%

93 SDG environment indicators 52%

26 SDG indicators 69%

Working with countries

UN Environment led Capacity Building in Countries
- ■ Completed (blue)
- ■ Planned/ Not started (light blue)

UN Environment led Pilot Testing in Countries
- ■ Completed (green)
- ■ Planned/ Not started (light green)

Other entity led Activities in Countries
- ■ Completed (red)
- ■ Planned/ Not started (pink)

https://environmentlive.unep.org/egm

Working with Countries – some stories

Capacity Building Country

Country	AFGHANISTAN
Code	4
Type	Capacity Building
Status	Completed
ACTIVITY 1	Introduction to measuring the Environmental Dimension of the SDGs
ACTIVITY 2	Introduction to measuring the Environmental Dimension of the SDGs

Following a joint mission of UN Environment and UNESCAP, Afghanistan National Statistics Office assigned 2 staff to work on environment statistics, and allocated a budget

Following a Workshop on Material Flow Accounts in Lao PDR, the National Statistics Office requested Luxembourg to extend the seconded statistician for 1 year to work with them on Material Flow Accounts

Pilot Country

Country	LAO PEOPLE'S DEMOCRATIC REPUBLIC
Code	418
Type	pilot
Status	Completed
ACTIVITY 1	Country mission to Lao PDR - Measuring Gender-Environment Statistics
ACTIVITY 2	Workshop on Material Flows Accounting in Lao PDR

Country	SENEGAL
Code	686
Type	Capacity Building
Status	Completed
ACTIVITY 1	Capacity building on satellite accounts of the environment

Following a Capacity Building Workshop in Senegal organized jointly with UNECA, Senegal requested more in-depth training on Statistical Data and Metadata eXchange and on Water Accounts – UN Environment & UNECA prepared a joint DA12 project proposal on SDMX Capacity Development

Environment Statistics and Accounting towards 2030

Partnerships at country level:

With National Statistical Offices, Environment Ministries, Line Ministries, in coordination with other actors

Regional technical support projects:

Provide policy and programmatic support to countries to:

- advocate/dismantle barriers to regular production of environment statistics
- support the implementation of national plans to monitor the environmental dimension of the SDGs, MEAs, International Initiatives
- promote South-South cooperation and sharing of best practices

Global policy support and SDGs monitoring:

Coordinate all activities

Link normative & technical work at global level to the regional & national levels

Methodology
Data Collection
Science-Policy

Statistics

Environmental Economic Accounting

Science - Policy

RESOURCE EFFICIENCY
Corporate Sustainability Reporting
Fossil Fuels Subsidies
Sustainable Consumption and Production
Environmentally Sound Technologies

CHEMICALS & POLLUTION
(including geospatial disaggregation)
Chemicals
Water Pollution
Marine Pollution

EMERGING AREAS
Gender-Environment
Environmental Crime

NATURAL CAPITAL ACCOUNTS
Water Accounts

Land and Ecosystems Accounts
MATERIAL FLOW ACCOUNTS
WASTE ACCOUNTS
Waste Accounts

Food Waste Accounts

ANALYTICAL INDICATORS

REPORTS
SG Progress Report
SDG Policy Briefs

GEO-Statistical Annex

GEO-Measuring Progress

POLICY COHERENCE

Working with countries

Partnerships at country level

With National Statistical Offices, Environment Ministries, Line Ministries, in coordination with other actors

- Match UN Environment expertise with UNDAF/Sustainable Development Plans in countries

- Identify diverse forms of collaboration:

Providing / receiving capacity development on priority areas, development of methodologies and guidelines, pilot testing of methodologies, joining geospatial experts and statisticians at national level, …

- Joint fund raising

Roles and Interactions

GLOBAL

- **Methodology - Data Collection – Science Policy**
- **Information systems**
- **Blended learning**

REGIONAL

- **Dismantle barriers to production environment statistics**
- **Support fund-raising**
- **Promote South-South cooperation**

NATIONAL

- **National plans to monitor the environmental dimension of the SDGs, MEAs, International Initiatives**
  - **Partnerships**
  - **Fund-raising**
  - **Implementation**
  - **info exchange platforms,**
  - **User-producer dialogues**

Adjust learning material to regional specifications
Pilot testing
Needs assessment

Coordinate
Link normative & technical work at global level to regional & national levels

Policy / programmatic support to countries

Sharing best practices
South-South cooperation

Data reporting
Identification of needs

What does it cost?

Estimate for 2016-2020: ca. 10.8 million
- 34 staff working part time - 7 staff working full time
- 31 contracted experts working on the SDGs (6 GEMI + 25 SDG Unit)
- Partners - In-kind contribution

									Cost over 4 years=		2244000		
Full time SDG Unit Staff: Dany Ghafari, Jillian Campbell, Ludgarde Coppens and Ruth Mukundi													
Resources over 2016-2020	**Goal 6 (GEMI is not hel**	**Column**	**Goal 8/**	**Column**	**Goal 14/15**	**Column**	**Goal 1**	**Column**	**Gende**	**Column**	**Capacity building and**	**Column**	**TOTAL**
Project budget	2,000,000		825000		125000		500000		125000		1,525,000		5,100,000
Other Summary stats													
Project staff	14		1		0		0		0		0		15
Number of consultants	14		15		3		1		5		1		39
Number of staff involved	6		13		5		4		0		6		34
Staff time as % of a post	130%		135%		40%		55%		0%		110%		470%
Staff costs over 4 years	936,000		972,000		288,000		396,000		0		792,000		3,384,000
TOTAL	2,936,000		1,797,000		413,000		896,000		125,000		2,317,000		10,728,000

Initial rough estimate of resources 2018-2030

Long Term 2018-2030 (12 Years)
   US$ 170 m.
   Staff: US$ 50 m.
(including existing staff)
*   HQ staff: US$ 2.7 million per year
*   RO Staff: US$ 1.5 million per year
   Activity: ca. US$ 120m.
(Or ca US$ 40m. per 4 years of consecutive MTS)

Thank you

UN environment

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