

Overview Data Roadmaps for Sustainable Development and Data4SDGs Toolbox

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The Global Sustainable Development Goals

MDGs (2000-2015)





SDGs (2015-2030)

Developing country focused



Universal

Social



Social, Economic, and Environmental

Foreign Aid



Domestic Investment, Private Flows, and Aid

Official Statistics and Administrative Data



Big Data, Citizen Generated Data, Geospatial and Earth Observation Data, Open Data, and more





• 17 Goals, 169 Targets, 230 Indicators = Huge Data Needs



THE CHALLENGES:

Data are not available, dynamic, disaggregated, high quality, useable, accessible, open, or used effectively.

- Data on entire groups and key issues are unavailable.
- Data are not dynamic or disaggregated.
- Data quality is poor and major gaps remain.
- Data that exist are often not useable.
- Data that are useable are not accessible or open.
- Data that are accessible are often not used effectively.

DATA CHALLENGES LEAVE TOO MANY BEHIND



Civil Registration and Vital Statistics

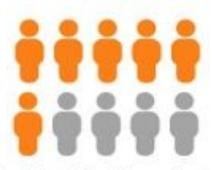
Achieving sustainable development is only possible if we know where people living in poverty are and what they need. One in three children aged five years or younger have not had their births registered. Therefore, officially, these children do not exist in the system.

Nearly a third of the world's children under five doesn't officially exist

Globally, nearly

230 MILLION

five have never been registered



Worldwide, four in ten babies **born in 2012** were not registered



Data on Poverty are Scarce

77 countries lack sufficient data on those living in poverty. Without frequent data, we cannot monitor whether countries are reducing poverty or not.





Source:

http://www.worldbank.org/en/news/video/2015/07/09/my-favoritenumber-77-reasons-we-need-poverty-data



Data on Gender are Woeful

Gender Data Gaps Lacking coverage across countries and/or regular country production

Lacking international standards to allow for comparability

Lacking complexity: information across domains

Lacking granularity: detailed datasets allowing for disaggregation

Data2X has identified 28 gender data gaps across five domains: health, education, economic opportunities, political



partnering for a gender data revolution

Source: http://data2x.org/gender-data-gaps/



DATA FOR WHAT?

Improved Decision-Making and Policy

Increased Citizen Empowerment

Increased Innovation and Entrepreneurship

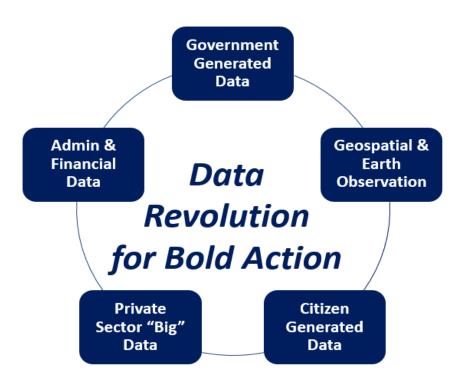


To Achieve and Monitor Sustainable Development



Harnessing the Data Revolution

"Data is the Oil of the 21st Century"



Disaggregated, Real-time, Dynamic, Open, Usable, Actionable

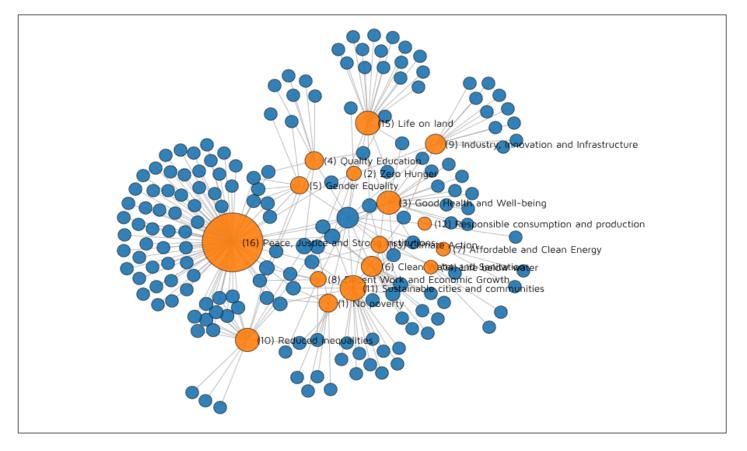
- Supporting and complementing government and civil society efforts to generate data for statistics for the formal SDG monitoring framework
- Unleashing innovation in production, accessibility and use of real-time, dynamic, disaggregated data from multiple sources



Earth Observation Data



Citizen-Generated Data





http://staging.winguweb.org/2015/datashift/



Privately Held (Big) Data

Customer Time (Velocity)

« Real Time »OperationManagement

Policies & Consulting

ex: Provide mobility information every hour for security staffing

ex: Provide real-time personal health risk to users in mobility

ex: Optimise hospital location for density of population

ex: Optimise distribution of drugs in function of diseases geography, calendar events,...

Single Data source

Multiple data sources

Variety of Sources for Data Analysis

Faster: monthly...daily...



SLOWER Data refresh (yearly, quarterly)



Open Data





1. Open by Default



2. Timely and Comprehensive



3. Accessible and Usable



4. Comparable and Interoperable



5. For Improved Governance and Citizen Engagement



6. For Inclusive Development and Innovation

opendatacharter.net



Harnessing the data revolution for sustainable development

Enablers: Political Environment



Showcase how data can remove political and social barriers, and address data gaps



Stimulate collaboration between public-private actors in support and tracking of the SDGs

Demand Side



Drive awareness and political buy-in on how and why data makes a difference



Ensure visibility and understanding of data for filling gaps and decision making



Supply Side



Harness real time data flows for sustainable development



Ensure access to data in public domains; including open data



Catalyse data innovations for the delivery of the SDGs

Enablers: Structural Environment that fosters trust



Forster private sector engagement to address market failures by providing expertise and knowledge



Support the establishment of fair use of data



Foster mechanisms to improve access and interoperability that enables widespread usage of SDG data



WE CONVENE
WE CONNECT
WE CATALYZE...

better, more accessible, and usable data to help end poverty, fight inequality and injustice, and combat climate change.



The Global Partnership has 200+ Data Champions





















































































































































































































































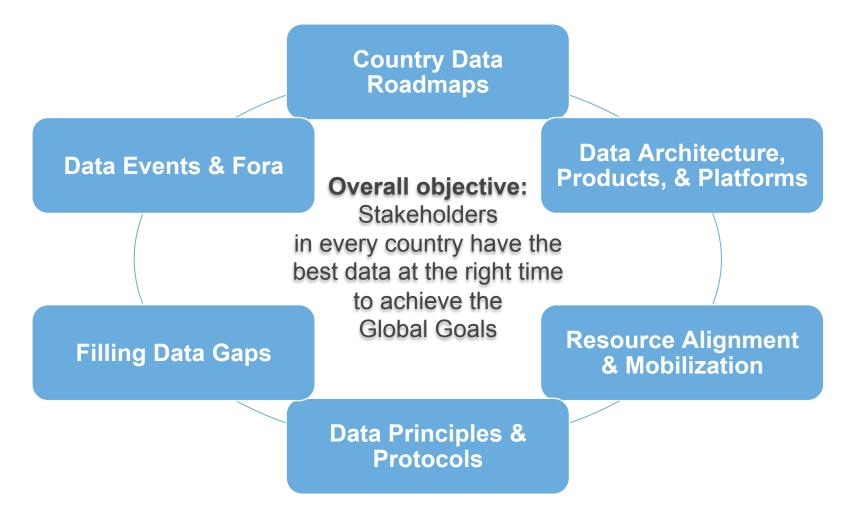








Convening, Connecting, Catalyzing





Data Roadmaps for Sustainable Development

Support countries at national and sub-national levels to develop and implement whole of government and multi-stakeholder data roadmaps for harnessing the data revolution for sustainable development, with particular emphasis on the SDGs and local priorities articulated in national plans.



What are Data Roadmaps in the Context of the Data Revolution for Sustainable Development?

- It's an action plan with short and long-term goals for addressing specific data needs and priorities in regards to SDG implementation.
- A data roadmap is ideally developed by governments at local, subnational or national levels according to local context and priorities:
 - Multi-stakeholder involvement
 - Situation assessment
 - Priority Mapping
 - Data/technology gaps assessment
 - Requirements analysis
 - Commitments to Action
- A data roadmap is part of an iterative and adaptive planning process.



Data Roadmaps for Sustainable Development

COUNTRY EXPERIENCES

Country Led Approaches

 The Data Roadmaps for Sustainable Development approach is iterative, based on experiences and implementation models from partner countries

- Colombia
- Philippines
- Sierra Leone
- Kenya
- Tanzania
- Senegal

- USA
- UK
- Egypt
- Mexico
- Ghana

SDG Goals and Targets

National Plans and Priorities

Localized Framework

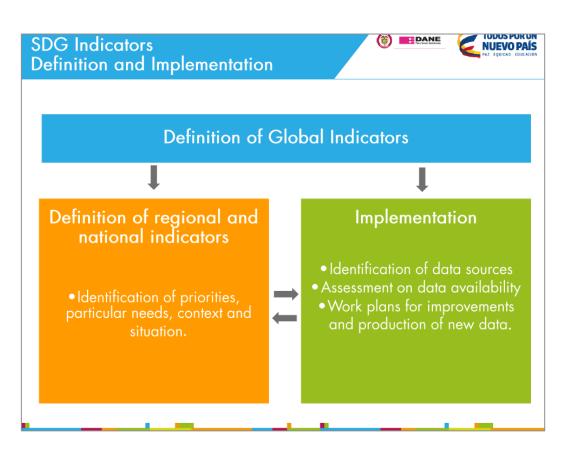


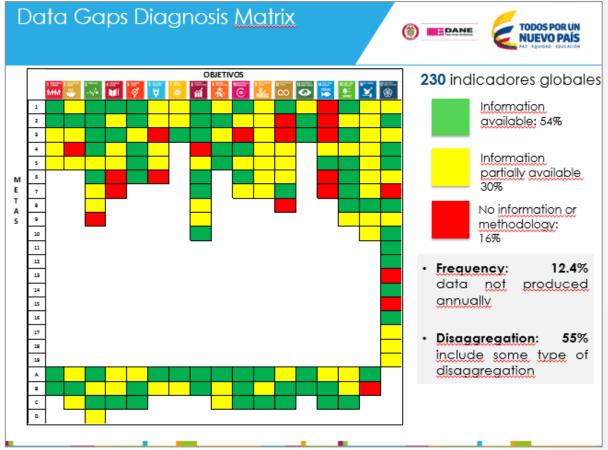
Colombia





Colombia







Colombia – Main Strategies Moving Forward

- Strengthen national statistics
 - Produce new sub-national statistics
 - Thematic fora based in 8 cities
- Smart data strategy
 - New workstreams and projects
 - Interoperability (SDMX)
 - Standardization frequency, coherence, comparability, quality and granularity
 - Merge with DANE methods, visualization, open data, sampling, geospatial
- Create strategic partnerships across sectors



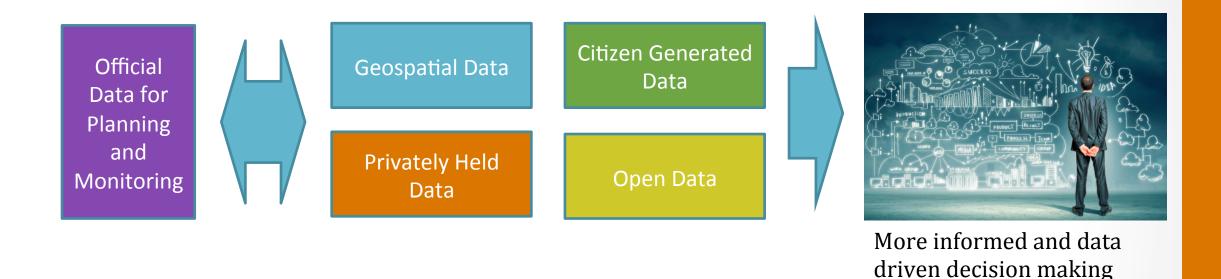
Common Challenges Across Countries

- Measuring new thematic areas: governance, environment, data disaggregation, gender data, climate change, service delivery
- Leave No One Behind (LNOB)
- Strengthening administrative records
- Access new data sources
- Strengthen institutional cooperation and coordination
- National and local capacity building
- Multi-stakeholder partnerships
- Engaging private sector
- Better data sharing



DATA4SDGS TOOLBOX

Data for Action



- Fill data gaps more efficiently, frequently and cost effectively
- Real-time, dynamic, disaggregated data
- Official and non-official data
- Use innovative approaches and range of stakeholder to solve problems



A Toolbox to Support Subnational and National Stakeholders

Capacity and Resources Governance and Leadership Requirements Gaps Multi-stakeholder Assessment **Analysis**

Roadmap Development Process

Toolbox

- Many processes are already in place.
- Tools and methods have been developed or are being developed.
- A data roadmap process acknowledges good practice, lessons learned, and tools applied from peers to inform its development.



SDG Data Roadmaps Toolbox:

Framework and Approach

Getting Started Financial and

- This framework will iterate and adapt based on further learning through national workshops and expert feedback.
- Intent is to provide a set of resources, some of which is already available through partner organizations, that support countries and subnational units in their SDG roadmap process.
- Meant to align with national strategies in place, be country led, based on local priorities.
- Supportive of SDG monitoring and dynamic data in the context of the data revolution.
- Phased releases at HLPF and UNGA



SDG Data Roadmaps Toolbox:

for Sustainable Financial and Capacity

Categories

- Getting Started with Data Roadmaps for Sustainable Development
- Data for Action
- Official Statistics for SDGs
- Institutional, Financial and Capacity Foundations

Toolbox: Getting Started with Data Roadmaps for Sustainable Development

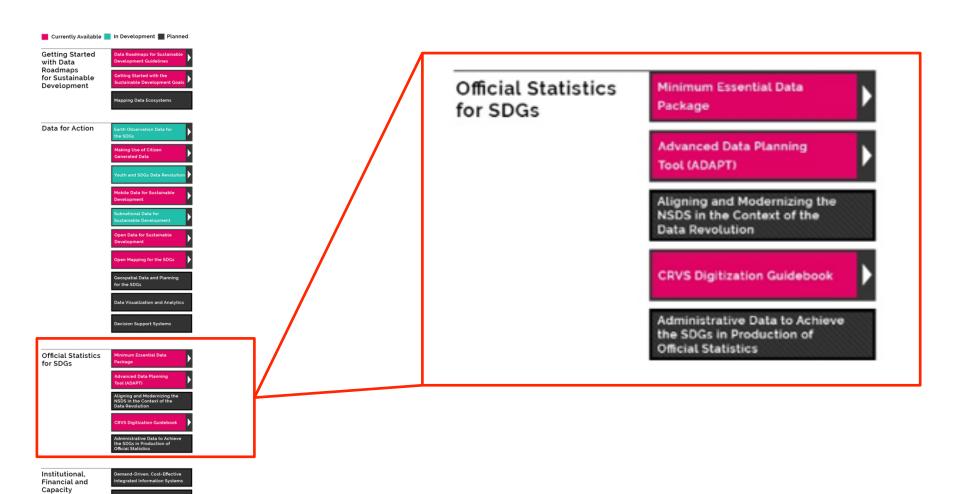


Toolbox: Data for Action

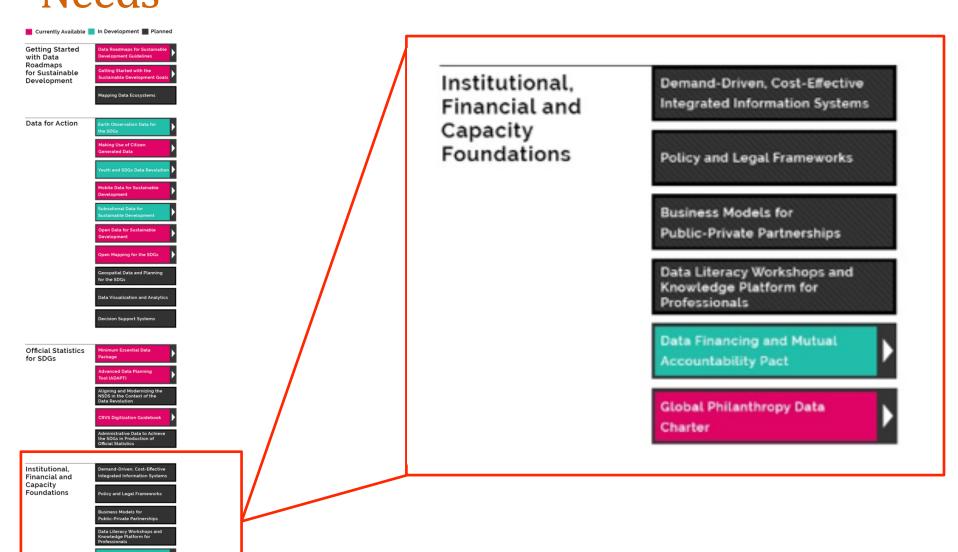


Toolbox: Official Statistics for SDGs

Foundations

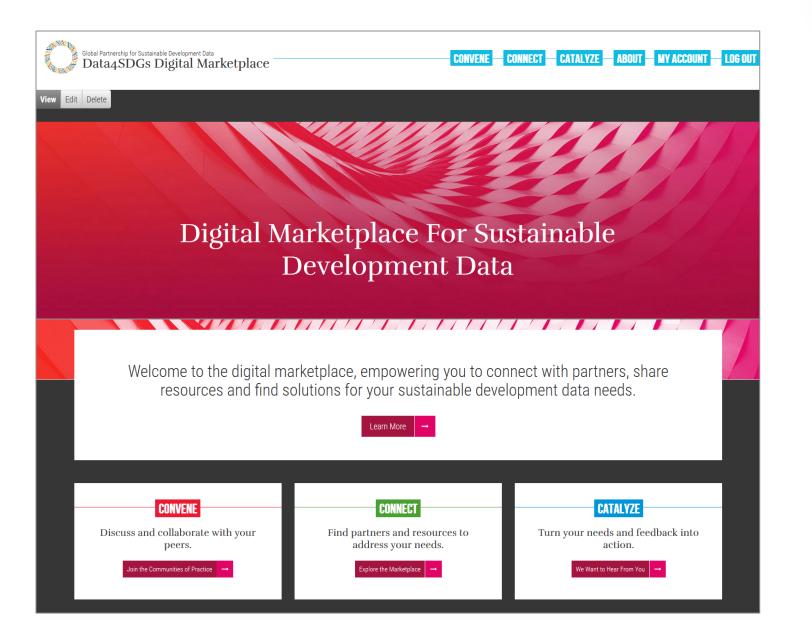


Toolbox: Institutional, Financial and Capacity Building Needs



www.data4sdgs.org/toolbox

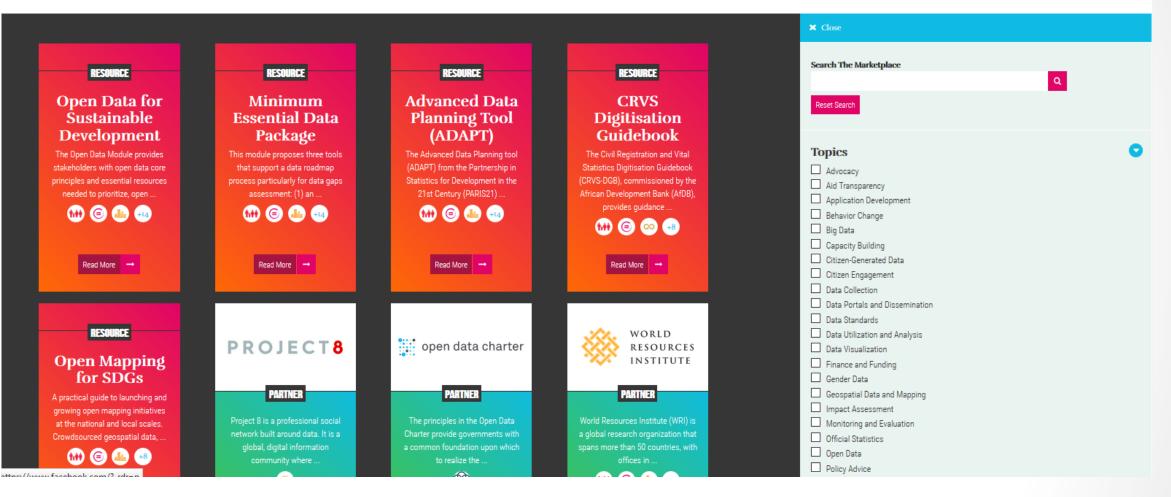
AN ECOSYSTEM APPROACH



http://marketplace.data4sdgs.org/



CONVENE CONNECT CATALYZE ABOUT LOG IN



apihighways.data4sdgs.org



Initial Metrics for success.

1. Reduce the time it takes to discover and use data in an application.

2. Make it as easy as possible to connect existing data.



DATA4SDGS DEVELOPER PLAYGROUND



Increase openness and leverage existing data.

By bringing together

SDGs.

high-value data sets across

sectors for achieving the



Improve the effective use of data.



By providing robust APIs to empower data to be combined in new ways for further Insights.



Enable data for action and decision making

By empowering the developer community to create rich applications and visualizations.





FILTER

poverty

Poverty gap at national poverty lines (%)

Poverty headcount ratio at \$1.90 a day (2011 PPP) (% of population)

Poverty headcount ratio at national poverty lines (% of population)

RECENT DATASETS

Poverty headcount ratio at \$1.90 a day (2011 PPP) (% of population)

WORLD BANK GROUP

Poverty headcount ratio at national poverty lines (% of population)

WORLD BANK GROUP

Poverty gap at national poverty lines (%)

WORLD BANK GROUP

FEATURED DATASETS

VIIRS Active Fire - Global

NASA

World Database on Protected Areas --Global

IUCN & UNEP-WCMC

Poverty gap at national poverty lines (%) GDP per capita (current US\$)

WORLD BANK GROUP

Inflation, consumer prices (annual %)

WORLD BANK GROUP

Adolescent fertility rate (births per 1,000 women ages 15-19)

WORLD BANK GROUP



What's Next?

- A deeper dive in the countries we have been working with, while open to engagement in under-represented regions (LAC and Asia)
- Focus on two data thematic areas: Leave No One Behind and Environment (working with NASA and GEO)
- Integrate marketplace and revamp website to better enable information flow and connect the dots for partners
- Bring more data and case examples into API Highways
- Provide additional opportunities for engagement and sharing lessons learned



Thank You!

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Data4SDGs Toolbox Module

GUIDELINES FOR DEVELOPING DATA ROADMAPS FOR SUSTAINABLE DEVELOPMENT

Key Principles for Data Roadmaps

- It's an action plan with short and long-term goals for addressing specific data needs and priorities in regards to SDG implementation.
- A data roadmap is ideally developed by governments at national and subnational levels according. Key principles:
 - Country led and owned
 - According to national and local priorities
 - Whole-of-government and multi-stakeholder
 - Acknowledge technical and institutional issues
 - Be iterative and adaptive
 - Align to with existing initiatives, strategies and plans



Data Roadmap Components

- Whole-of-Government and Multi-Stakeholder Approaches
- Data for Action
- Needs Assessment
- Priority Mapping
- Data Inventory and Gaps Assessment
- Needs Analysis
- Governance and Operations
- Commitments to Action

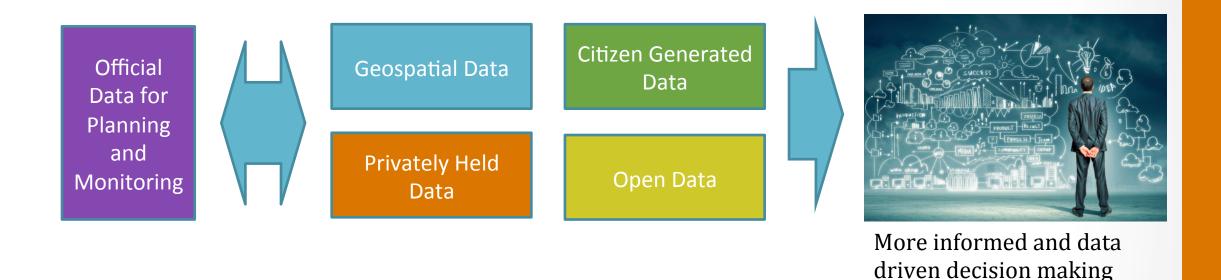


Whole-of-Government and Multi-Stakeholder Approaches

- The intent of the SDGs is to leave no one behind. To do this, all sectors need to be actively involved to achieve against the SDGs.
- Aim is to institutionalize relationships across government, private sector, civil society and other stakeholders such as academia, foundations, multilaterals, etc.
- To do so, a multi-stakeholder consultation should take place.
- Based on alignment, priorities and commitments, ideally, a permanent multi-stakeholder body is put in place, or an existing one leveraged, to support implementation of the SDGs



Data for Action



- Fill data gaps more efficiently, frequently and cost effectively
- Real-time, dynamic, disaggregated data
- Official and non-official data
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Needs Assessment

- Assesses core needs from organizations and stakeholders involved in the data roadmap process.
 - Mission, organization and function
 - Common data needs
 - Major data projects
 - Key issues, opportunities and constraints
 - Data access, use and dissemination challenges
 - Capacity and infrastructure
 - Legal and regulatory framework



Priority Mapping



SDGs	SDS 2030: Pillars	SDS 2030: Strategic Objectives
Goal 1: End poverty in all its forms everywhere	Social Justice, Economic Development	Providing protection for the needlest groups.
Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture		Increasing GDP per capita to reach the level of the high-middle income countries in order to improve standard of living and reduce poverty levels.
Goal 3: Ensure healthy lives and promote well-being for all at all ages	Health	The improvement of the health of citizens within a framework of justice and equity.
		Achieve universal healthcare coverage for all Egyptians and ensure high quality services.
		Improve health sector governance.
Goal 4: Ensure Inclusive and Equitable Quality Education and Promote Lifelong Learning Opportunities For All	Education	Improving educational system quality to conform to international systems.
		Availing education for all without discrimination.
		Enhancing competitiveness of the educational systems & its outputs.
Goal 5: Achieve Gender Equality and Empower All Women and Girls	Economic Development	Achieving equal rights and empowering women

- Take stock of key national plans and strategies
- Align SDG Goals to key national plan/ strategy driving development
- Conduct a whole-of-government exercise for selecting targets and indicators and assign roles and responsibilities aligned to organizational mission and objectives
- Conduct a multi-stakeholder effort to review the draft priority framework integrating feedback and recommendations from across sectors
- Integrate the priority framework as part of the national plan/strategy and use this as the basis of conducting a gaps assessment.

Data Inventory and Gaps Assessment

- Evaluate the extent and quality of data holdings
- Take into account previous studies (e.g. ODRA, data ecosystem mapping (UNDP), baseline)
- Collect data where possible and establish a portal to show early win by cataloging and making data accessible

- Dataset title
- Description of data
- Data format
- Methodology and standards applied
- Custodian
- Data resolution/scale
- Time period
- Update frequency
- Accuracy and precision
- Quality control
- Accessibility
- Use, legal and security restrictions
- Level of disaggregation



Needs Analysis

- This analysis captures key issues, challenges, and opportunities for each participating stakeholder, inclusive of those related to data, technology, technical infrastructure, human capacity, and institutional arrangements, covering policy, legal, governance, and financial needs.
 - Technical needs for data, technology, innovation, and analysis as related to data, applications, infrastructure, and staff capacity
 - Streamlining data automation and the use of standards and principles to support data consistency, quality, and comparability
 - Capacity and resources considering human capacity and financial needs for sustained support for implementing against the roadmap in the long term
 - Governance and leadership for the needed organization and coordination required to keep stakeholders engaged and the program running efficiently.



Governance and Operations

- Key mandate of this governance structure will be to oversee the successful implementation of the data roadmap based on an implementation plan that responds to key priorities and needs:
 - Establishing a permanent multi-stakeholder mechanism to achieve the SDGs
 - Determine the governance structure based on political and technical insights required
 - Leverage existing organization
 - Develop an implementation plan with a cohesive set of action with timelines that identify early wins and near, medium and long-term goals and deliverables



Commitments to Action

- Actions that drive incremental progress towards filling data gaps and overcoming data challenges
- Commitments from institutional partners, private sector and civil society to support the SDG Agenda
- Potential to align with Open Government Partnership commitments by including the data roadmap as part of the national action plan



Roadmap

- Develop action plan with specific near, medium and long-term milestones taking into account the above guidelines.
- This is not a linear process, but there are some light dependencies between steps for evaluation.
- Every country is at different point and need to determine best approach based on cross-sectoral consultation, political and cultural climate and priorities.
- This module provides the overall framework for the Data4SDGs Toolbox and guidelines for developing data roadmaps. Other modules are referenced to support the methods provided.

