



GLOBAL PARTNERSHIP
FOR SUSTAINABLE DEVELOPMENT DATA

Overview

Data Roadmaps for Sustainable Development and Data4SDGs Toolbox

Aditya Agrawal
February 2017

The Global Sustainable Development Goals



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**
children under age
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-favorite-number-77-reasons-we-need-poverty-data>

Data on Gender are Woeful

Gender Data Gaps	Lacking coverage across countries and/or regular country production	Data2X has identified 28 gender data gaps across five domains: health, education, economic opportunities, political
	Lacking international standards to allow for comparability	
	Lacking complexity: information across domains	
	Lacking granularity: detailed datasets allowing for disaggregation	

data2x
partnering for a gender data revolution

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

DATA FOR WHAT?

Improved Decision-Making and Policy

Increased Citizen Empowerment

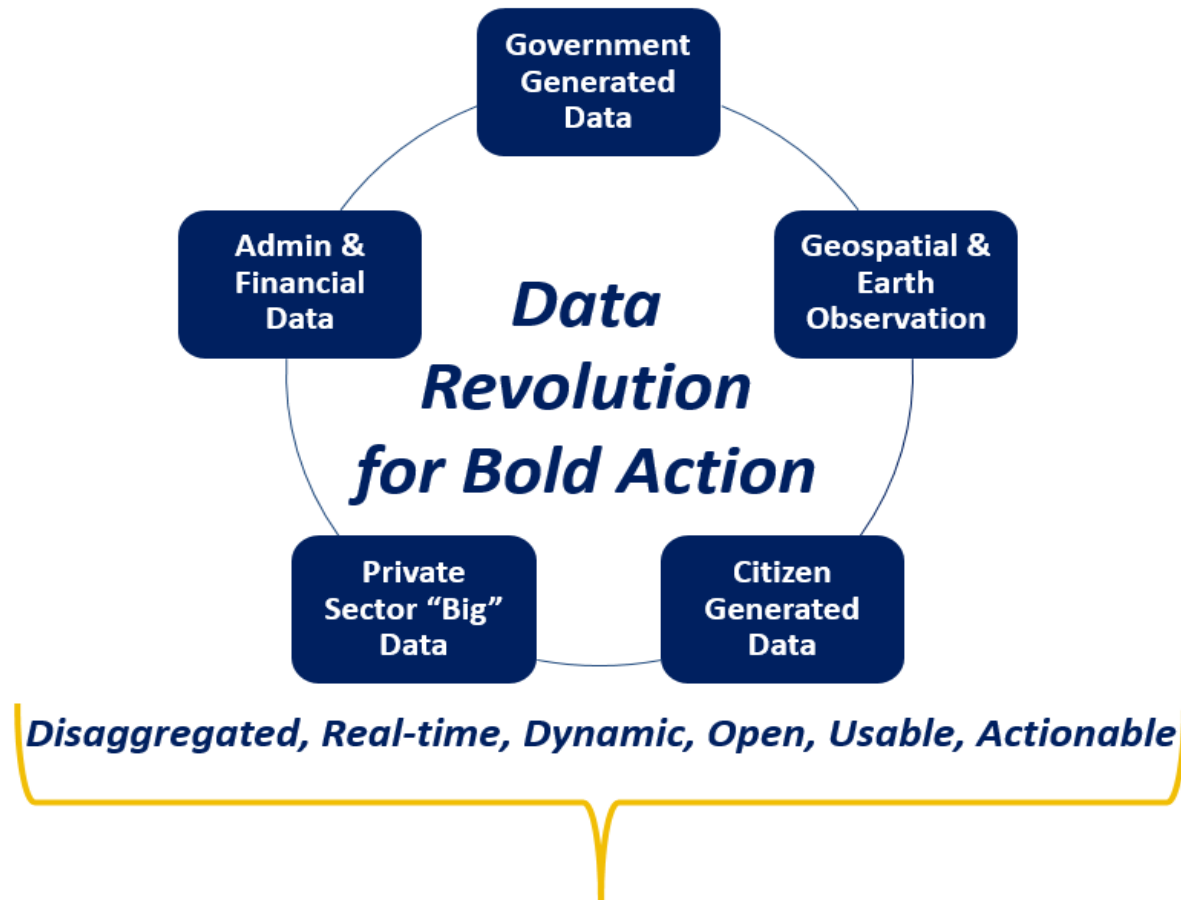
Increased Innovation and Entrepreneurship



**To Achieve and Monitor
Sustainable Development**

Harnessing the Data Revolution

“Data is the Oil of the 21st Century”

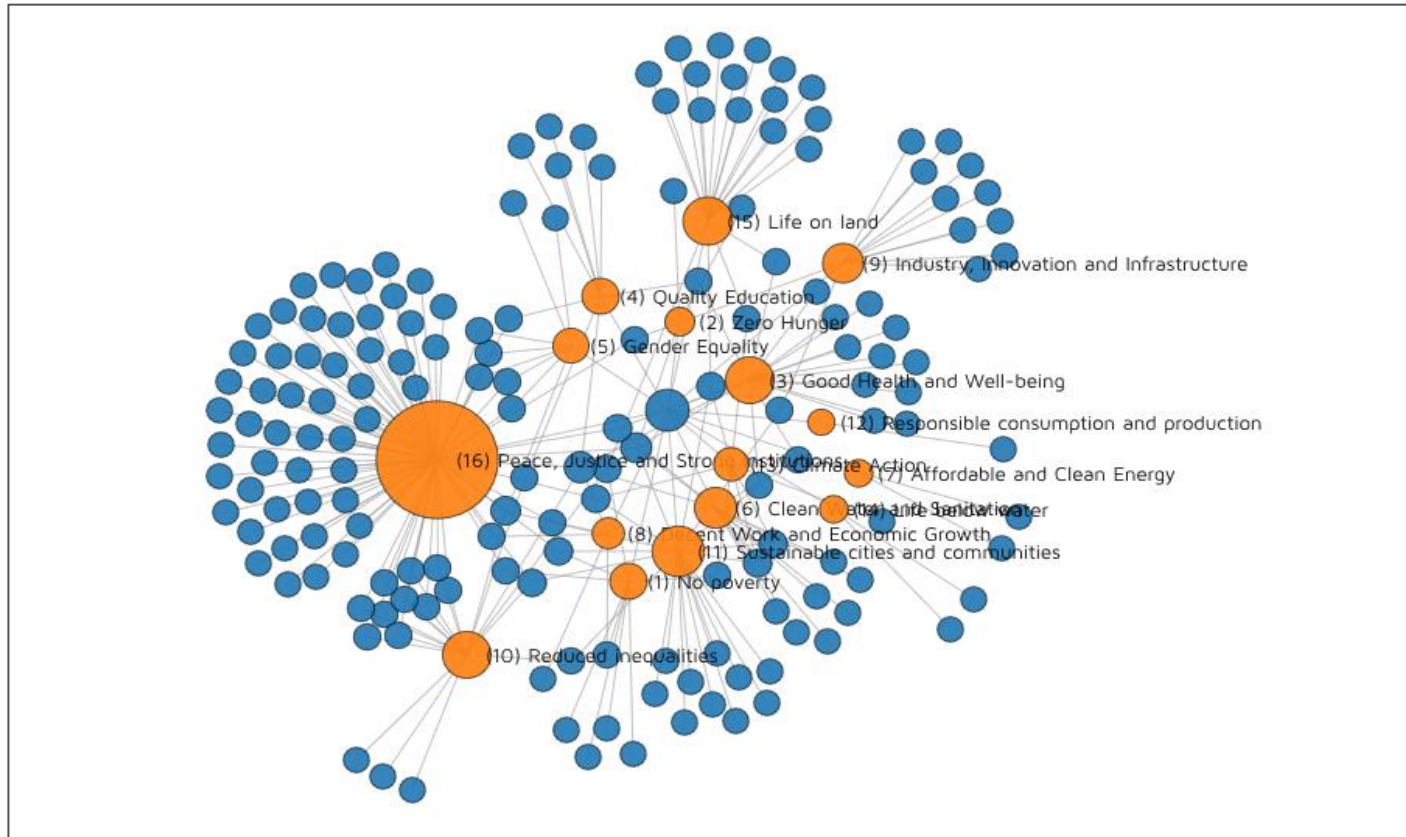


- Supporting and complementing government and civil society efforts to generate data for statistics for the formal SDG monitoring framework
- Unleashing innovation in production, accessibility and use of real-time, dynamic, disaggregated data from multiple sources

Earth Observation Data

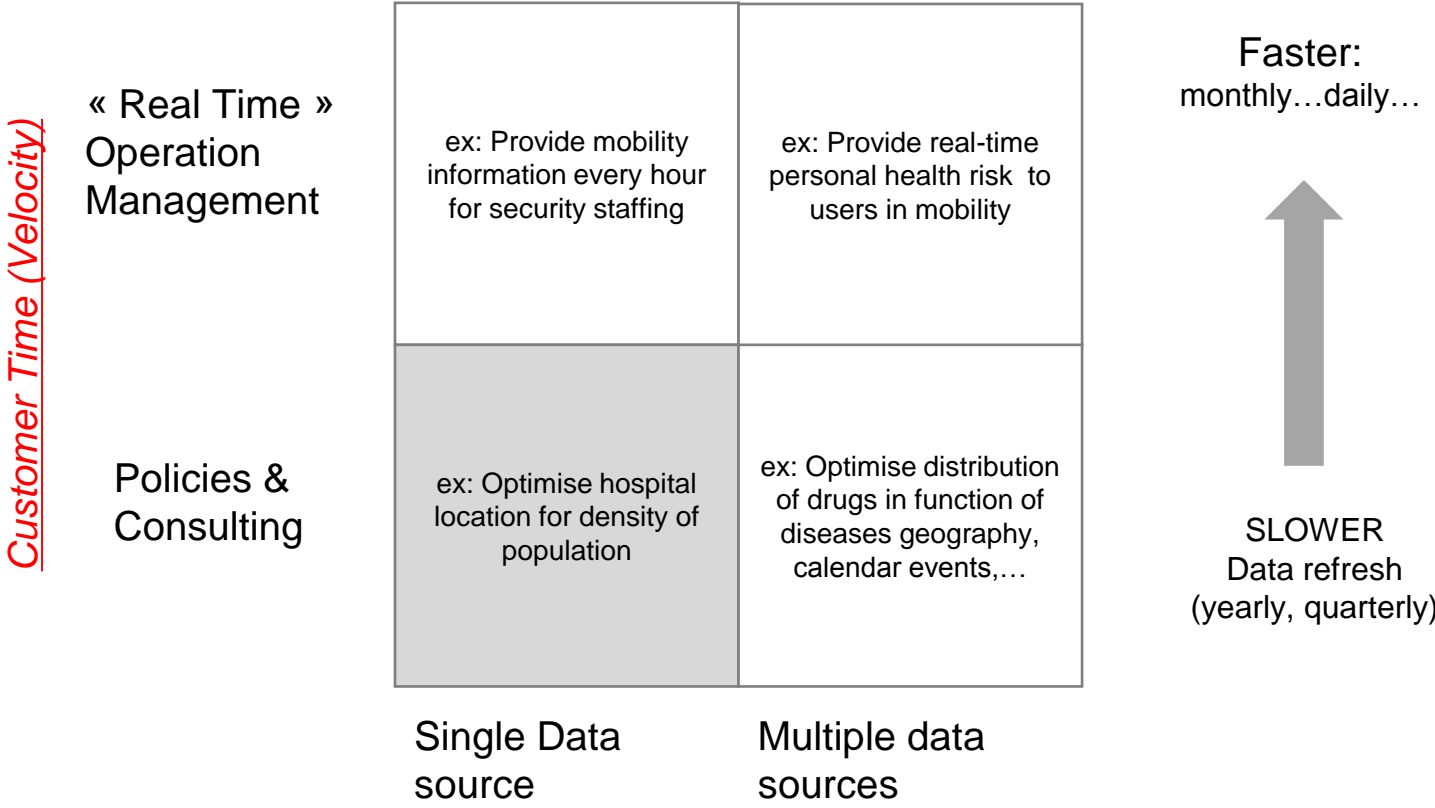


Citizen-Generated Data



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

Privately Held (Big) Data



Variety of Sources for Data Analysis

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



GLOBAL PARTNERSHIP
FOR SUSTAINABLE DEVELOPMENT DATA

WE CONVENE

WE CONNECT

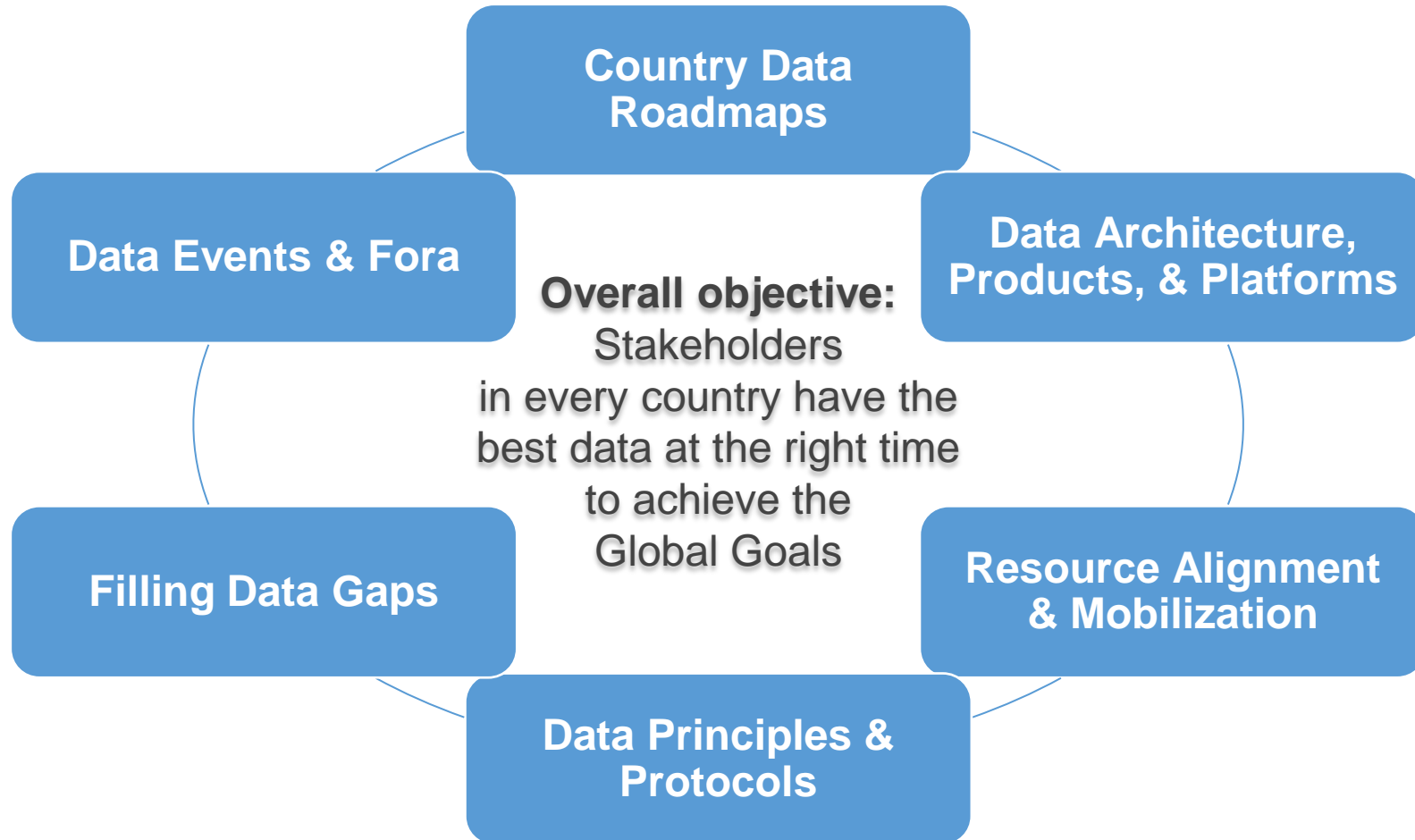
WE CATALYZE...

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

The Global Partnership has 150+ 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?

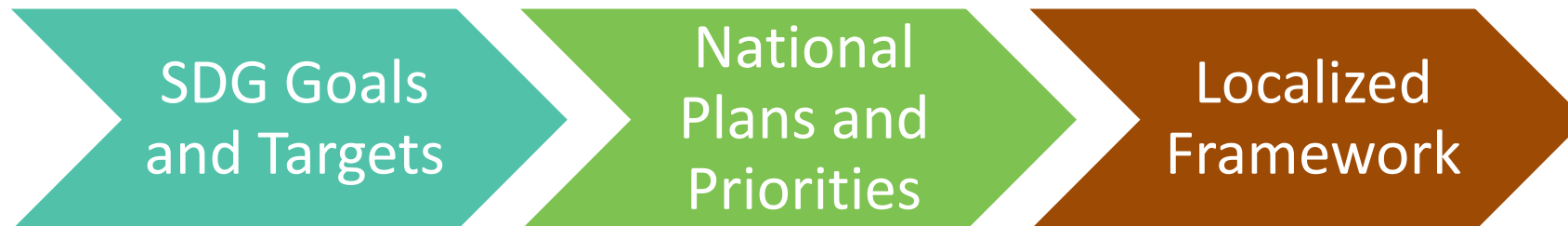
- It's an **action plan** with short and long-term **goals** for addressing specific **data needs and priorities** in regards to **SDG implementation**.
- A data roadmap is ideally developed by governments at local, subnational or national levels according to local context and priorities:
 - Multi-stakeholder 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

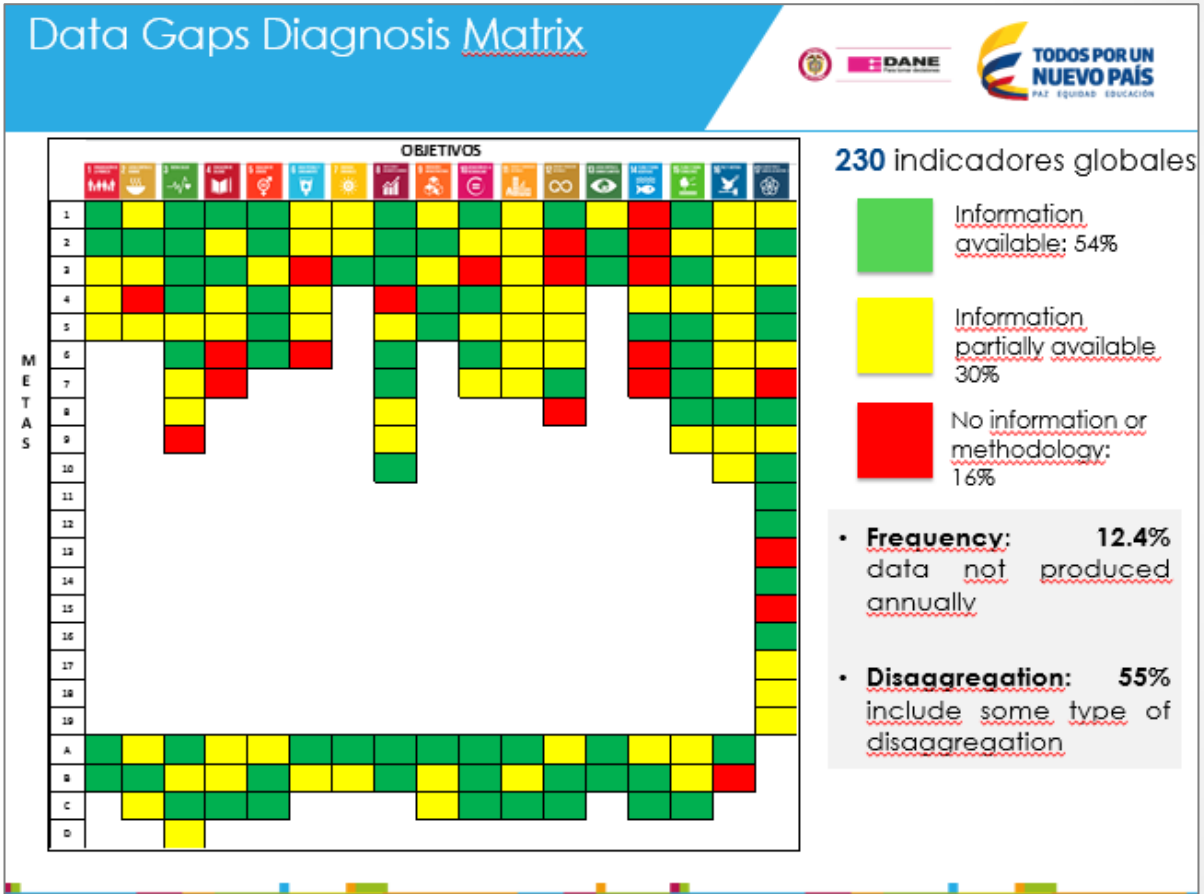
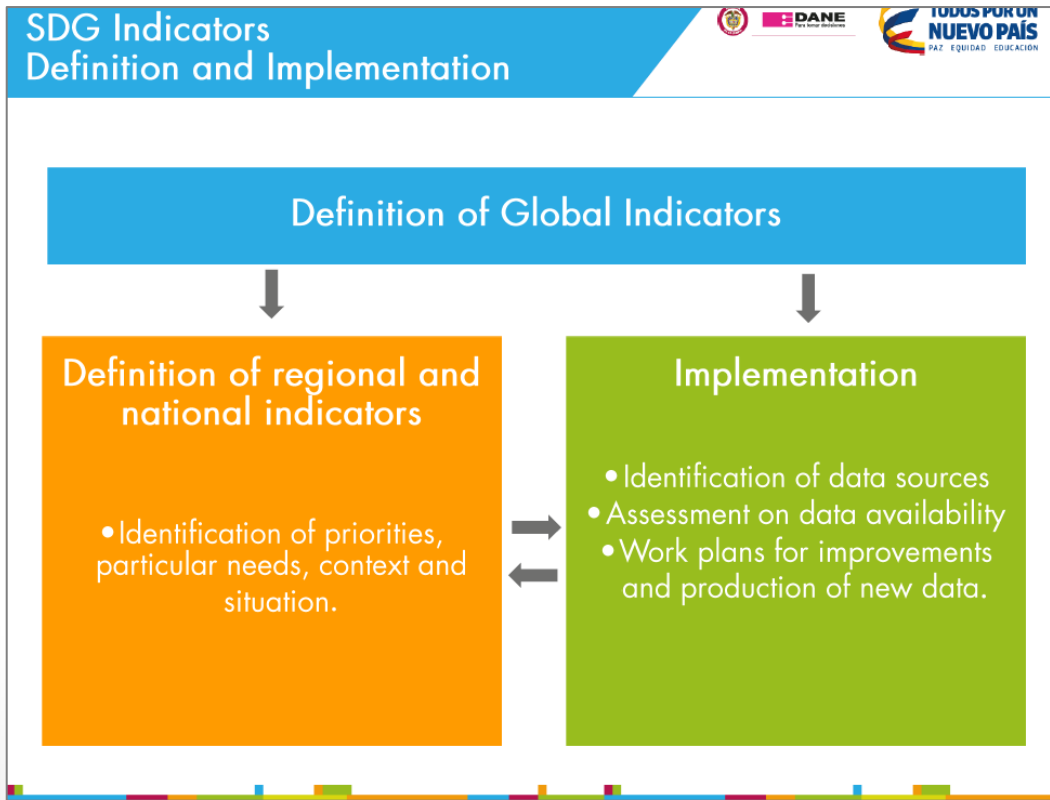
- The Data Roadmaps for Sustainable Development approach is iterative, based on experiences and implementation models from partner countries
 - Colombia
 - Philippines
 - Sierra Leone
 - Kenya
 - Tanzania
 - Senegal
 - USA
 - UK
 - Egypt
 - Mexico
 - Ghana



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

Sierra Leone – Agenda for Prosperity

- Africa 2063 and African Data Consensus in place. The SDGs have been aligned to the 2016 National Budget and the Agenda for Prosperity

Aligning SDGs to SL's Agenda for Prosperity	
The 17 SDGs Regrouped	Sierra Leone's Agenda for Prosperity
1) Reducing general poverty prevalence—Goals 1,2&10	Pillar 1: Diversified economic growth—directly related to SDGs 7,8&9
2) Human development—Goals 3,4&6	Pillar 2: Managing natural resources—directly related to SDGs 12,13,14&15
3) Gender parity—Goal 5	Pillar 3: Accelerating human development—directly related to SDGs 3,4&6
4) Employment, economic growth and competitiveness—Goals 7,8&9	Pillar 4: International competitiveness—directly related to SDGs 7,8&9
5) Human settlement, housing and population infrastructure—Goal 11	Pillar 5: Labour and employment—directly related to SDGs 7,8&9
6) Environmental sustainability—Goals 12,13,14&15	Pillar 6: Social protection—directly related to SDGs 1,2&10
7) Governance, peace and security—Goal 16	Pillar 7: Governance & public sector reform—directly related to SDG 16
8) Means of implementing Goals 1 to 16—Goal 17	Pillar 8: Gender & women's empowerment—directly related to SDG 4&5

Sierra Leone – Open Data Council

- Sierra Leone became a member of OGP in 2013
- ODRA completed in 2016
- Adopted International Open Data Charter
- Open Data Council – Whole-of Government and multi-stakeholder permanent body. SDG Agenda will be aligned.

Sierra Leone - SDG Priority Areas

- Alignment, collaboration and coordination: fostering a whole-of-government and multi-stakeholder approach
- Data for impact: increasing data use, capacity and literacy
- Vibrant data ecosystem: linking open data, official statistics, administrative data, citizen generated data, telco data and earth observation data.
- Improving data: data quality, disaggregation, collection methods
- Funding: adequate funding and capacity building for a coordinated data roadmap for SDGs including prioritization of open data

Kenya – SDG Roadmap

- Good alignment between Vision 2030 and the SDGs. The SDGs are the epicenter of development and the SDG Roadmap will be updated on a 5 year basis. 5 key thematic areas:
 - Conduct extensive advocacy and awareness creation
 - Map out and engage all stakeholders
 - Mainstream the SDGs into National Development Process
 - Domesticate and localize the SDG Agenda
 - Monitor and evaluate progress and support capacity building
 - Launched in September 2016



Kenya – Way Forward

- No single institution can provide all the data needed for the SDGs
- Develop data roadmap to align with SDG roadmap for both monitoring and data for action and decision making
- Identify data gaps in the NSS
- Identify new sources of data
- Forge partnerships across government institutions
- Translate business data to social transformative data
- Encourage citizen ownership
- Government should articulate SDG targets and indicators consistent to the needs of citizens

Kenya – Way Forward

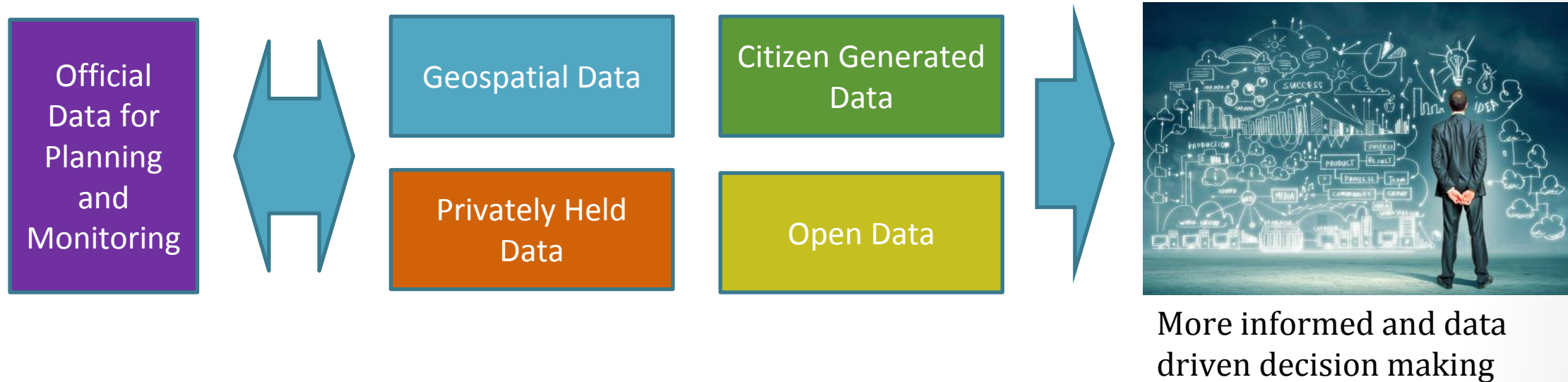
- Standardize data systems and methods of data collection and reporting – comparability, interoperability
- Merge data demand and supply
- African countries need to start working together and supporting each other's efforts
- Partner with technology companies
- Hold multi-stakeholder meeting frequently
- Hold country outreach activities to educate the public
- Expand data ecosystem to include all actors

Common Challenges Across Countries

- Measuring new thematic areas:SDG12, SDG13, SDG14, SDG16 (consumption/production, climate change, oceans, peace, and service delivery)
- Data disaggregation (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

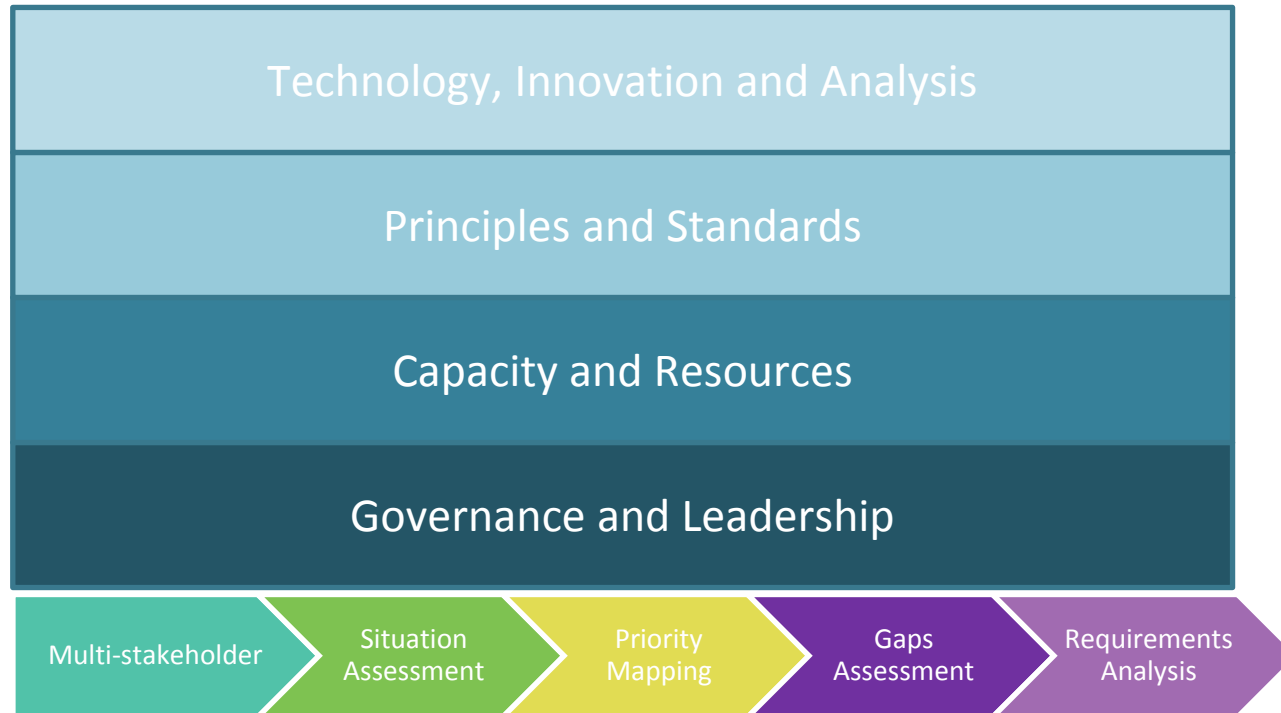
Data for Action



- 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

Operational Considerations



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

■ Currently Available ■ In Development ■ Planned

Getting Started with Data Roadmaps for Sustainable Development

- Data Roadmaps for Sustainable Development Guidelines
- Getting Started with the Sustainable Development Goals
- Mapping Data Ecosystems

Data for Action

- Earth Observation Data for the SDGs
- Making Use of Citizen Generated Data
- Youth and SDGs Data Revolution
- Mobile Data for Sustainable Development
- Subnational Data for Sustainable Development
- Open Data for Sustainable Development
- Open Mapping for the SDGs
- Geospatial Data and Planning for the SDGs
- Data Visualization and Analytics
- Decision Support Systems

Official Statistics for SDGs

- Minimum Essential Data Package
- Advanced Data Planning Tool (ADAPT)
- Aligning and Modernizing the NSDS in the Context of the Data Revolution
- CRVS Digitization Guidebook
- Administrative Data to Achieve the SDGs in Production of Official Statistics

Institutional, Financial and Capacity Foundations

- Demand-Driven, Cost-Effective Integrated Information Systems
- Policy and Legal Frameworks
- Business Models for Public-Private Partnerships
- Data Literacy Workshops and Knowledge Platform for Professionals
- Data Financing and Mutual Accountability Pact
- Global Philanthropy Data Charter

- 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:

Categories

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

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Toolbox: Getting Started with Data Roadmaps for Sustainable Development

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Toolbox: Data for Action

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Earth Observation Data for the SDGs

Making Use of Citizen Generated Data

Youth and SDGs Data Revolution

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Subnational Data for Sustainable Development

Open Data for Sustainable Development

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Data Visualization and Analytics

Decision Support Systems

Toolbox: Official Statistics for SDGs

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Toolbox: Institutional, Financial and Capacity Building Needs

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Policy and Legal Frameworks

Business Models for Public-Private Partnerships

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Global Philanthropy Data Charter

www.data4sdgs.org/toolbox

AN ECOSYSTEM APPROACH

Global Partnership for Sustainable Development Data
Data4SDGs Digital Marketplace

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Digital Marketplace For Sustainable Development Data

Welcome to the digital marketplace, empowering you to connect with partners, share resources and find solutions for your sustainable development data needs.

[Learn More](#) →

CONVENE
Discuss and collaborate with your peers.
[Join the Communities of Practice](#) →

CONNECT
Find partners and resources to address your needs.
[Explore the Marketplace](#) →

CATALYZE
Turn your needs and feedback into action.
[We Want to Hear From You](#) →

<http://marketplace.data4sdgs.org/>



RESOURCE

Open Data for Sustainable Development

The Open Data Module provides stakeholders with open data core principles and essential resources needed to prioritize, open ...

[Read More](#) →

RESOURCE

Minimum Essential Data Package

This module proposes three tools that support a data roadmap process particularly for data gaps assessment: (1) an ...

[Read More](#) →

RESOURCE

Advanced Data Planning Tool (ADAPT)

The Advanced Data Planning tool (ADAPT) from the Partnership in Statistics for Development in the 21st Century (PARIS21) ...

[Read More](#) →

RESOURCE

CRVS Digitisation Guidebook

The Civil Registration and Vital Statistics Digitisation Guidebook (CRVS-DGB), commissioned by the African Development Bank (AfDB), provides guidance ...

[Read More](#) →

RESOURCE

Open Mapping for SDGs

A practical guide to launching and growing open mapping initiatives at the national and local scales. Crowdsourced geospatial data, ...

PARTNER

PROJECT 8

Project 8 is a professional social network built around data. It is a global, digital information community where ...

PARTNER

open data charter

The principles in the Open Data Charter provide governments with a common foundation upon which to realize the ...

PARTNER

WORLD RESOURCES INSTITUTE

World Resources Institute (WRI) is a global research organization that spans more than 50 countries, with offices in ...

✕ Close

Search The Marketplace

Reset Search

Topics

- Advocacy
- Aid Transparency
- Application Development
- Behavior Change
- Big Data
- Capacity Building
- Citizen-Generated Data
- Citizen Engagement
- Data Collection
- Data Portals and Dissemination
- Data Standards
- Data Utilization and Analysis
- Data Visualization
- Finance and Funding
- Gender Data
- Geospatial Data and Mapping
- Impact Assessment
- Monitoring and Evaluation
- Official Statistics
- Open Data
- Policy Advice

apihighways.data4sdgs.org



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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.

Transform data on SDGs into effective applications and visualisations

DATA4SDGS DEVELOPER PLAYGROUND



Increase openness and leverage existing data.

By bringing together high-value data sets across sectors for achieving the SDGs.



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

Inflation, consumer prices (annual %)

WORLD BANK GROUP

Poverty gap at national poverty lines (%)

WORLD BANK GROUP

GDP per capita (current US\$)

WORLD BANK GROUP

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

WORLD BANK GROUP

Conflicts related to protected areas

Regions with greatest water risks



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!

- Contact Information:

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Director, Data Ecosystems Development

aagrwal@data4sdgs.org

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

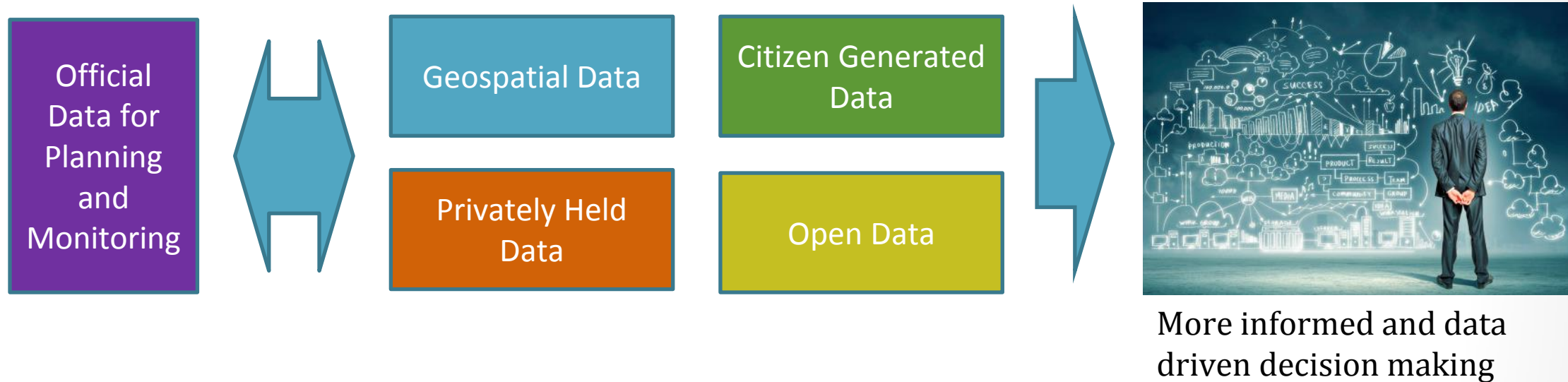
Data Roadmap Components

- 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
- Use innovative approaches and range of stakeholder to solve problems

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



- 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.

SDGs	SDS 2030: Pillars	SDS 2030: Strategic Objectives
<p>Goal 1: End poverty in all its forms everywhere</p> <p>Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture</p>	Social Justice, Economic Development	<ul style="list-style-type: none"> • Providing protection for the neediest groups. • 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.
<p>Goal 3: Ensure healthy lives and promote well-being for all at all ages</p>		Health
<p>Goal 4: Ensure Inclusive and Equitable Quality Education and Promote Lifelong Learning Opportunities For All</p>	Education	<ul style="list-style-type: none"> • Improving educational system quality to conform to international systems. • Availing education for all without discrimination. • Enhancing competitiveness of the educational systems & its outputs.
<p>Goal 5: Achieve Gender Equality and Empower All Women and Girls</p>	Economic Development	<ul style="list-style-type: none"> • Achieving equal rights and empowering women

SDG Goals and Targets

National Plans and Priorities

Localized Framework

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.