

# Conférence internationale sur les Objectifs de Développement Durable (ODD) : quel agenda pour le Sénégal ?

## Senegal National Workshop on Data Roadmaps for Sustainable Development

King Fahd Palace, Dakar, Sénégal - 12 et 13 octobre 2016



## Overview Data Roadmaps for Sustainable Development



GLOBAL PARTNERSHIP  
FOR SUSTAINABLE DEVELOPMENT DATA

Aditya Agrawal  
October 2016

# 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

<b>Gender Data Gaps</b>	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

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**

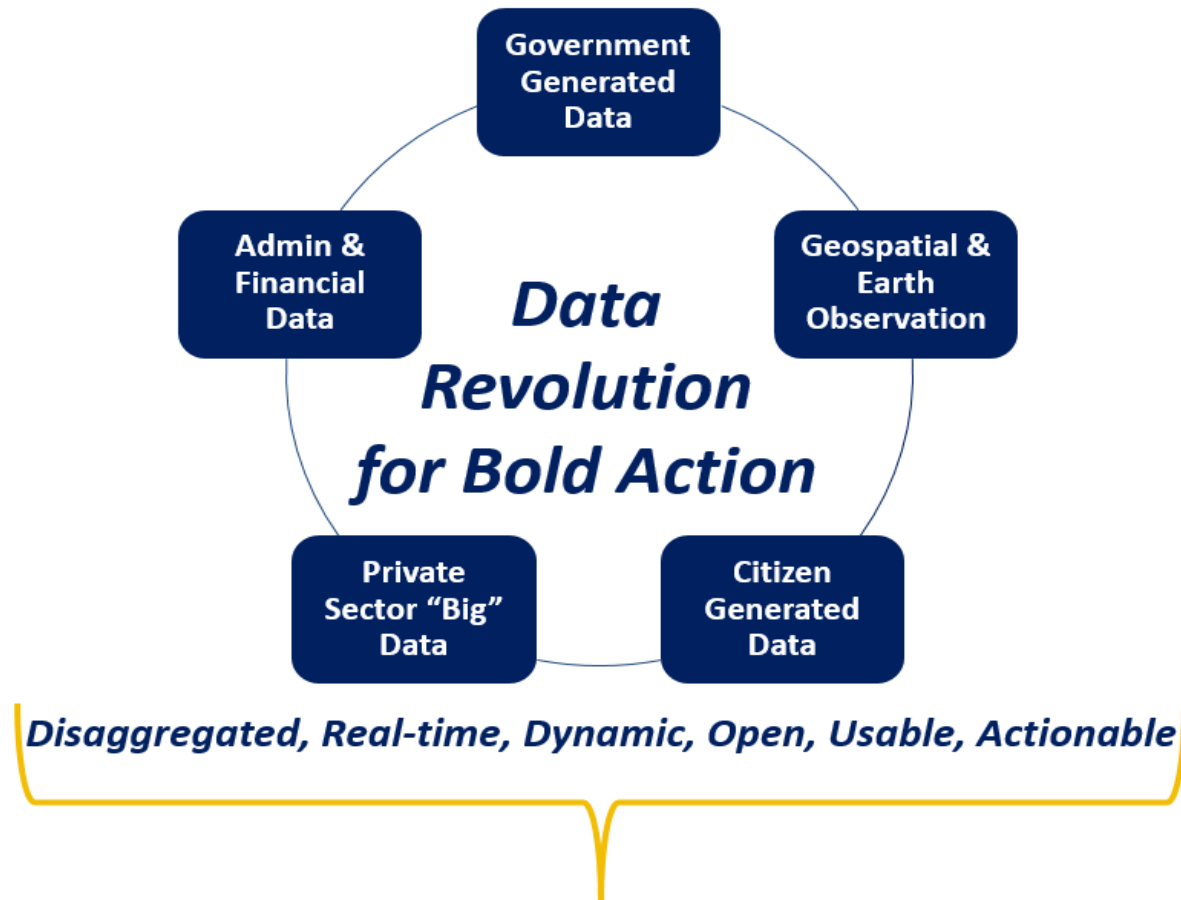


**To Achieve and Monitor  
Sustainable Development**



# Harnessing the Data Revolution

*“Data is the Oil of the 21<sup>st</sup> Century”*



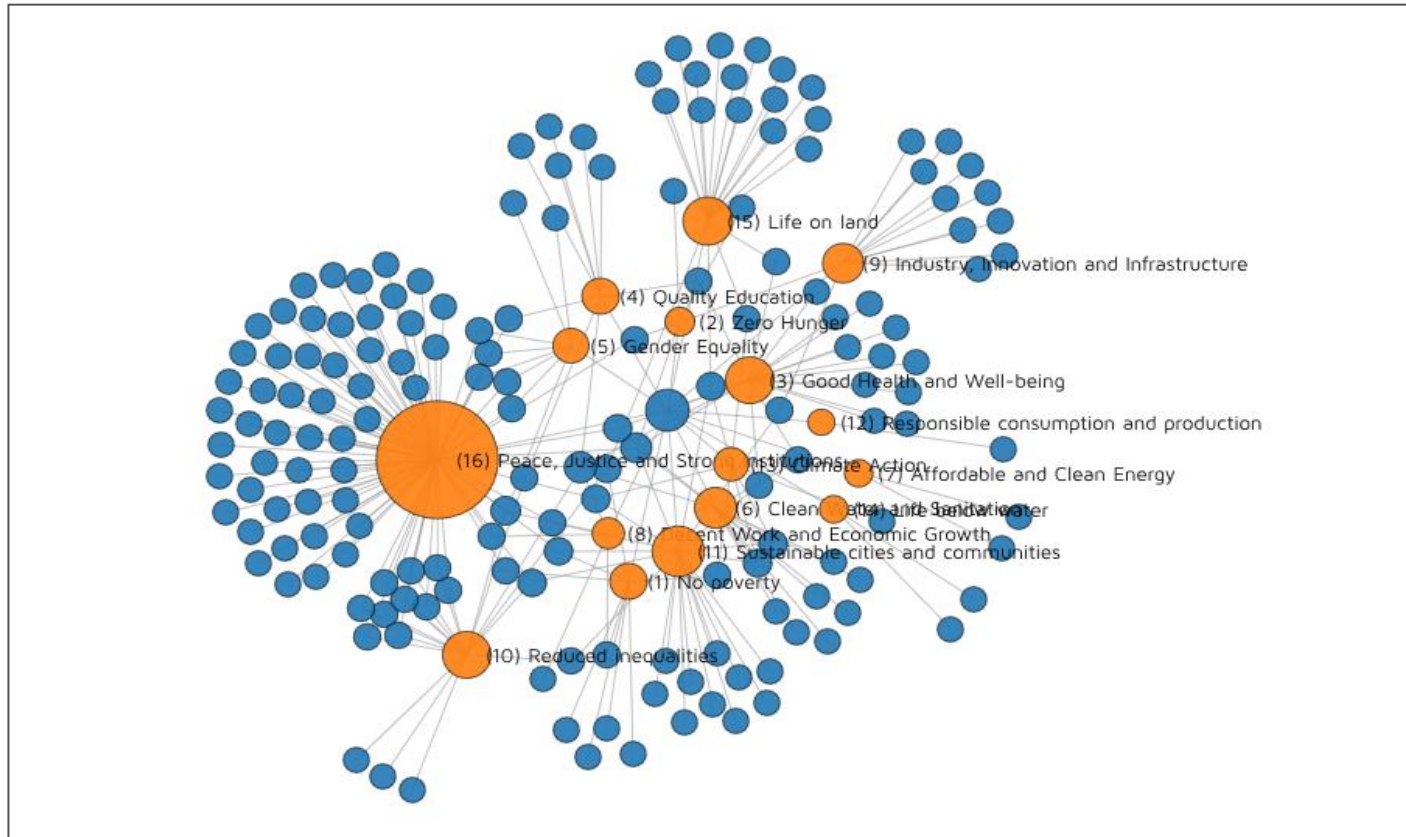
- Supporting and complementing government and civil society efforts to generate data for statistics for the formal SDG monitoring framework
- Unleashing innovation in production, accessibility and use of real-time, dynamic, disaggregated data from multiple sources

# Earth Observation Data

THE GLOBAL EARTH OBSERVATION  
SYSTEM OF SYSTEMS



# Citizen-Generated Data



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

# Privately Held (Big) Data

*Customer Time (Velocity)*

« Real Time »  
Operation  
Management

Policies &  
Consulting

<p>ex: Provide mobility information every hour for security staffing</p>	<p>ex: Provide real-time personal health risk to users in mobility</p>
<p>ex: Optimise hospital location for density of population</p>	<p>ex: Optimise distribution of drugs in function of diseases geography, calendar events,...</p>

Single Data  
source

Multiple data  
sources

Faster:  
monthly...daily...



SLOWER  
Data refresh  
(yearly, quarterly)

*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](http://opendatacharter.net)



GLOBAL PARTNERSHIP  
FOR SUSTAINABLE DEVELOPMENT DATA

***WE CONVENE***

***WE CONNECT***

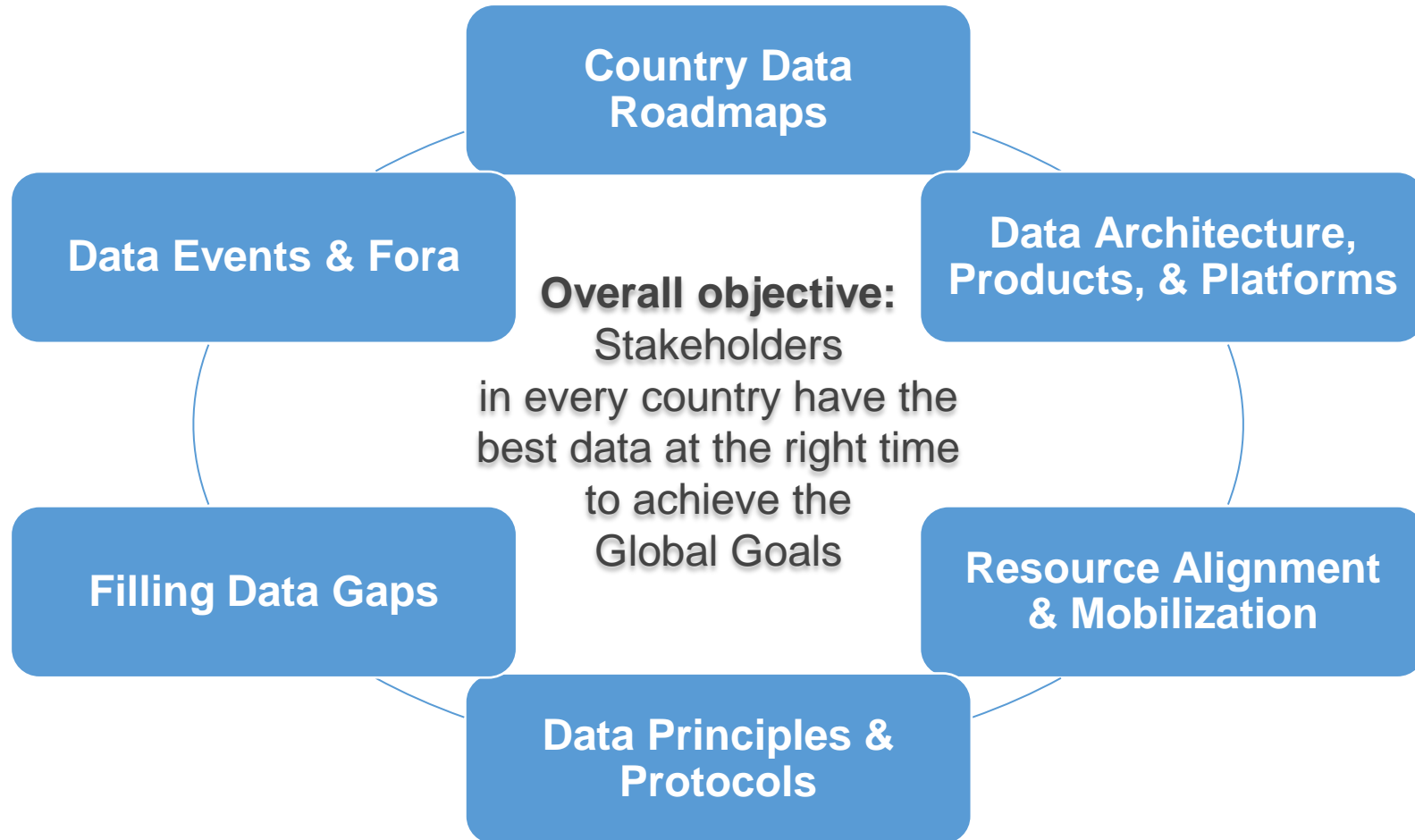
***WE CATALYZE...***

**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

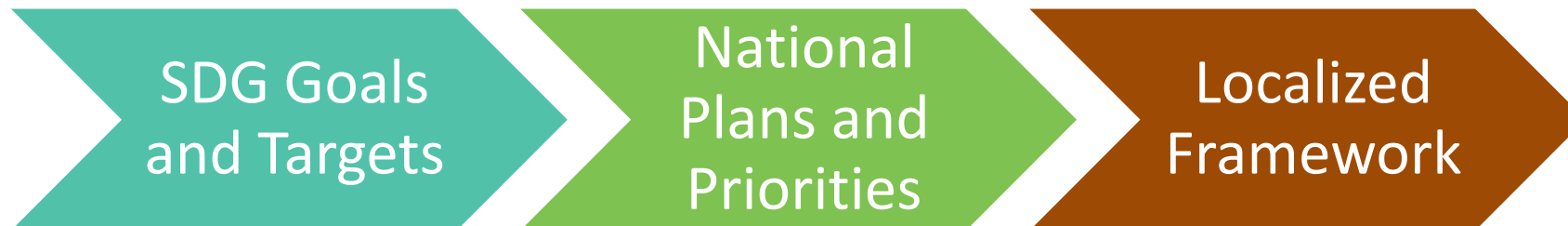
Support countries at national and sub-national levels to develop and implement **whole of government** and **multi-stakeholder** data roadmaps for harnessing the data revolution for sustainable development, with particular emphasis on the SDGs and local priorities articulated in national plans.

# 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.

# 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



# Colombia

## SDG Indicators Definition and Implementation



### Definition of Global Indicators

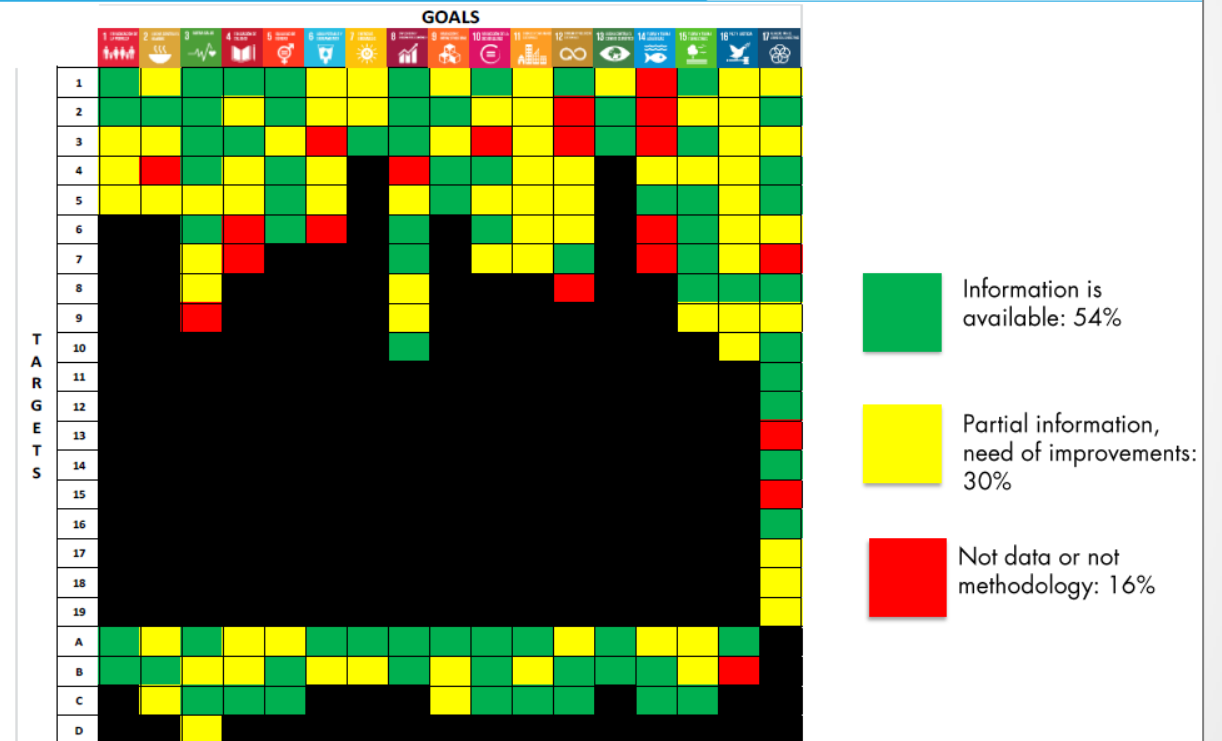
#### Definition of regional and national indicators

- Identification of priorities, particular needs, context and situation.

#### Implementation

- Identification of data sources
- Assessment on data availability
- Work plans for improvements and production of new data.

## Assessment on Colombia's information availability for global SDG indicators



# Egypt



## Pillars' Structure

Vision	Setting the target (where we want to be)	☰ ♿
Strategic objectives	What are the major issues to focus on	☰ ♿
Key Performance Indicators	SMART Key Performance Indicators (KPIs) (Inputs/ outputs/ strategic results)	☰ ♿
Challenges	Define the challenges facing each objective	☰ ♿
Programs and Projects	Mechanisms and work plans	☰ ♿

**Sustainable Development Strategy (SDS): Egypt Vision 2030 includes:**

- Around 249 indicators (28 input, 63 output, and 75 strategic results. And 83 new indicators).
- Around 200 programs and projects.

**2030**  
EGYPT VISION

# Egypt

## SDGs Goals Vs SDS's Pillars

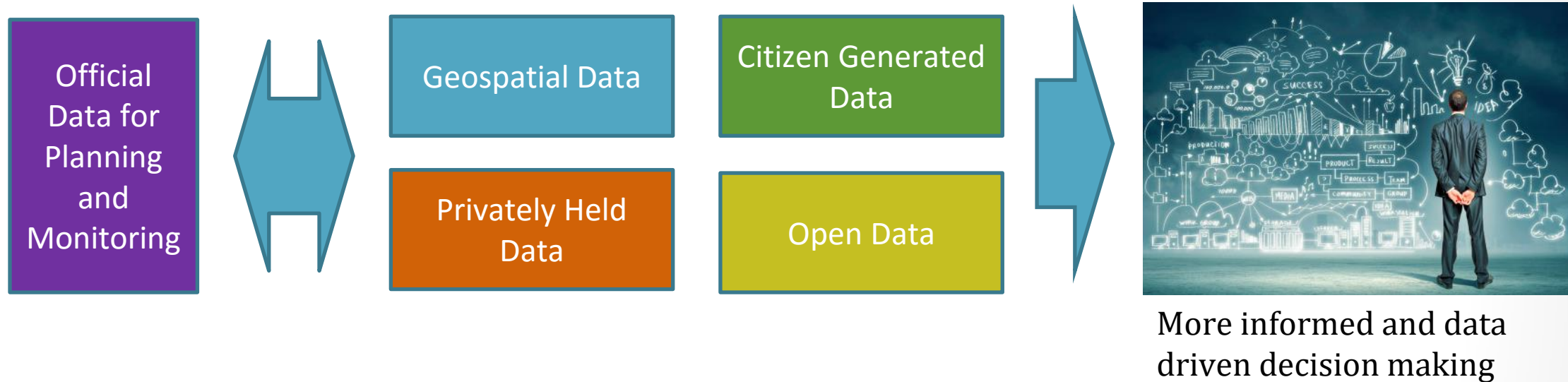


## SDGs Goals Vs SDS's Pillars & Strategic Objectives

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



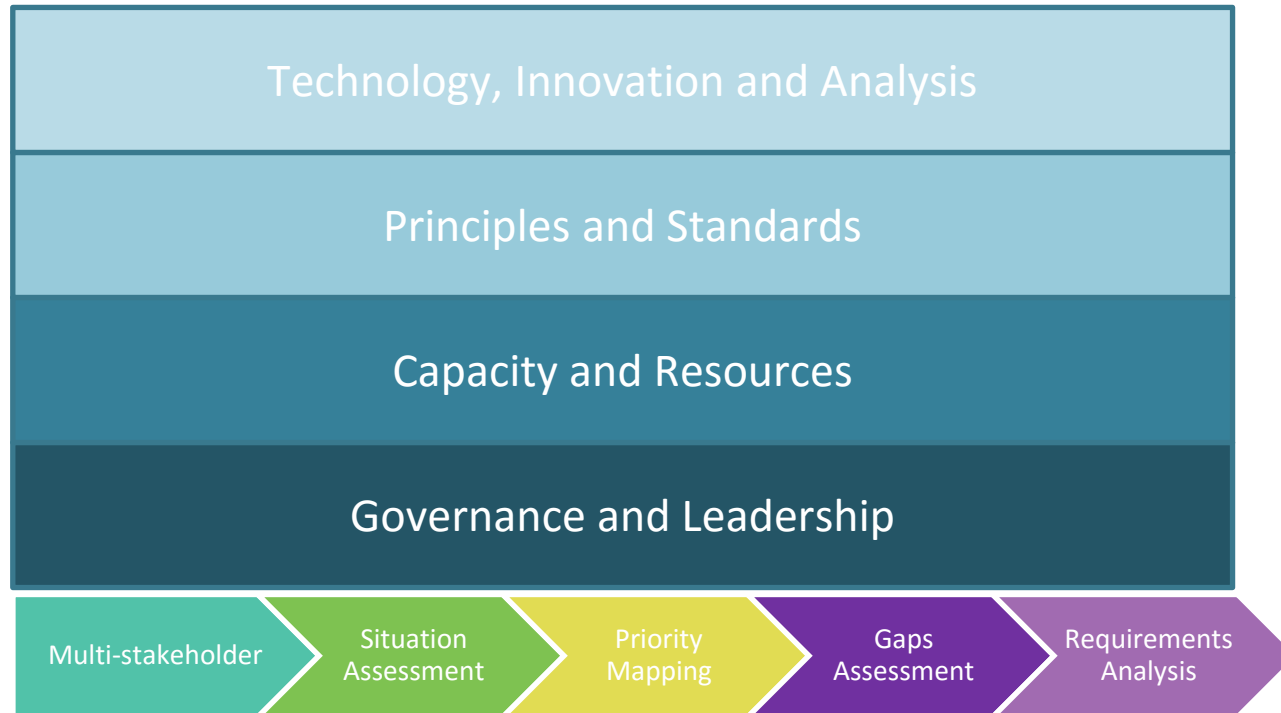
# Data for Action



- 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
- Telco 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

■ 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
- Telco 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

- 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

■ 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
- Telco 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

**Getting Started with Data Roadmaps for Sustainable Development**

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

# Toolbox: Data for Action

■ 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
  - Telco 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

**Data for Action**

- Earth Observation Data for the SDGs
- Making Use of Citizen Generated Data
- Youth and SDGs Data Revolution
- Telco 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

# Toolbox: Official Statistics for SDGs

■ 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
- Telco 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

**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

# Toolbox: Institutional, Financial and Capacity Building Needs

■ 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
- Telco 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

**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

# Data4SDGs Highway



## WORLD

WORLDBANK POVERTY

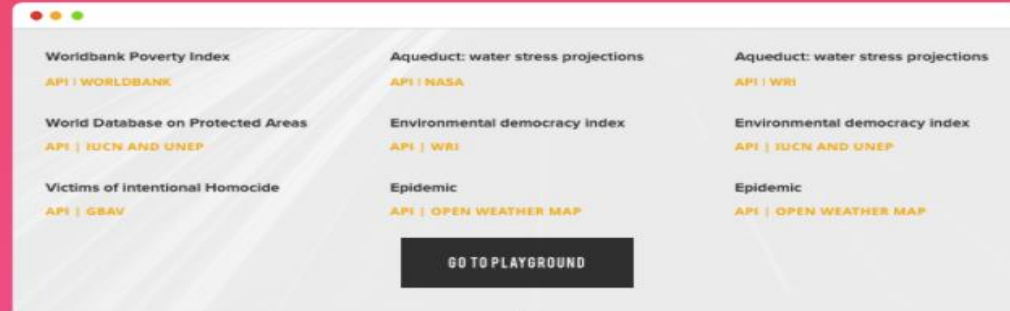
WORLDBANK AGRICULTURE

WORLD DATABASE ON PROTECTED AREAS

WORLD VICTIMS ON INTENTIONAL HOMICIDE

## DATA4SDGS DEVELOPER PLAYGROUND

Instantly search, refine and get the code to access SDG data for your applications. Code snippets available in all major languages.



## PLAYBOOK

Learn how to turn your SDG data into data services and make it available to millions of software developers.

## SHARED, OPEN SOFTWARE

All software used in the making of the developer playground is open source and available online. Take a look and if you want, contribute!

ADD DATASET

ADD DATASET

ADD DATASET

Worldbank Poverty Index

API | WORLDBANK Goal 3 Target 4

World Database on Protected Areas

API | IUCN AND UNEP Goal 3 Target 4

Victims of Intentional Homicide

Aqueduct: water stress projections

API | NASA Goal 3 Target 4

Environmental democracy index

API | WRI Goal 3 Target 4

Epidemic

Aqueduct: water stress projections

API | WRI Goal 3 Target 4

Environmental democracy index

API | IUCN AND UNEP Goal 3 Target 4

Epidemic



View Edit Delete

# 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](#) →