



GIS – The basics

Esri – The location platform

Esri & the solutions for the SDGs

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Presentation Esri solutions for the SDGs





An Engagement Platform for Sustainable Development

THE GLOBAL GOALS

For Sustainable Development

1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE AND JUSTICE STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS



THE GLOBAL GOALS
For Sustainable Development

GIS Provides the Framework and Process

for Applied Sustainable Development



Creating Understanding

...becoming essential to everything we do

GIS for Sustainable Development

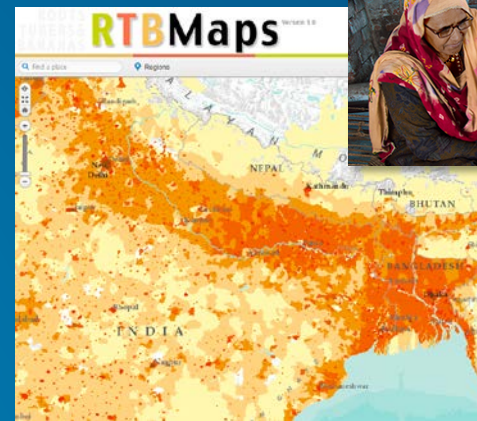
Forest Management



Renewable Energy



Demographics



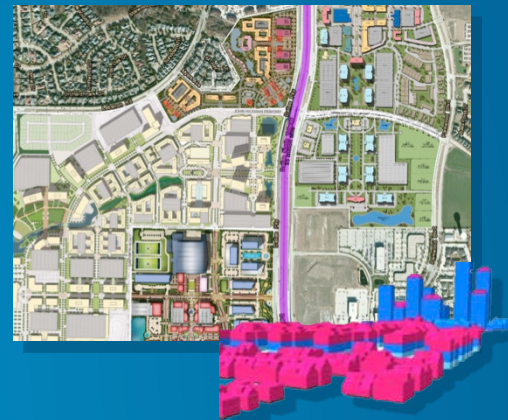
Field Data Collection



Access to Healthcare



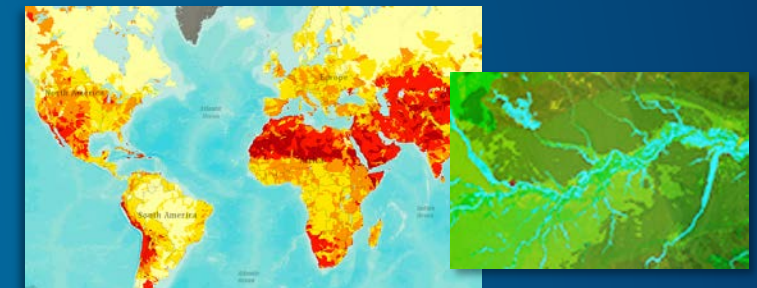
Urban Design | Smart Communities



Access to Education



Water Management

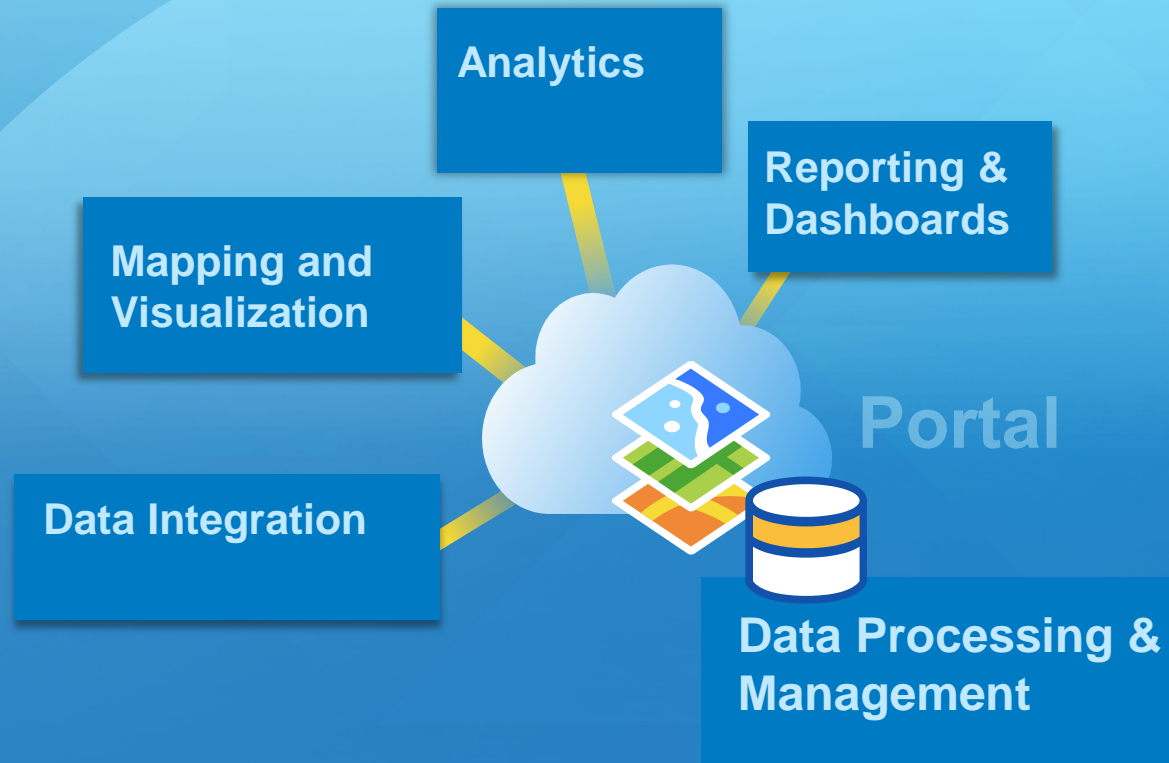


Global Partnership for Sustainable Development Data (GPSDD)

- **Esri Joined as Anchor Partner in July 2015**
 - Other Anchor Partners – ONE Campaign, UN Foundation, Dept. of State, SAP, IBM, Facebook, CIESIN, WRI, World Bank
- **Our Role:**
 - To provide an open, interoperable, and sustainable platform to all stakeholders which:
 - Increases the Effective Use and Impact of SDG Data
 - Facilitate Trust and Accountability in the Sharing of Data
 - **Channels and Mechanisms:**
 - Donation to LDC National Statistical Organizations*
 - Existing support for Nonprofits, Education, United Nations, etc.
 - Global Distributor Network

SDG Data Engagement Platform

Conceptual Architecture



Data Model

- *Administrative Boundaries*
- *Social Infrastructure*
- *Physical Infrastructure*
- *Demographics*
- *Environment*

SDG Data Engagement Platform

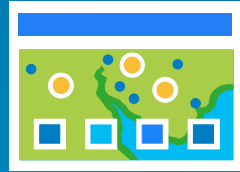
Applications and Tools



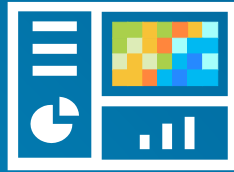
SDG Data Platform Vision

Monitoring & Engagement

Narratives



Progress Dashboard



Open Data



Monitoring Apps



SDG Program Planning



*SDG Data Management
(Ingestion, Processing, and Curation)*



Transparency & Feedback

Contributing Stakeholders



Member States



International Organizations



National Statistical Organizations



NGOs & Civil Society

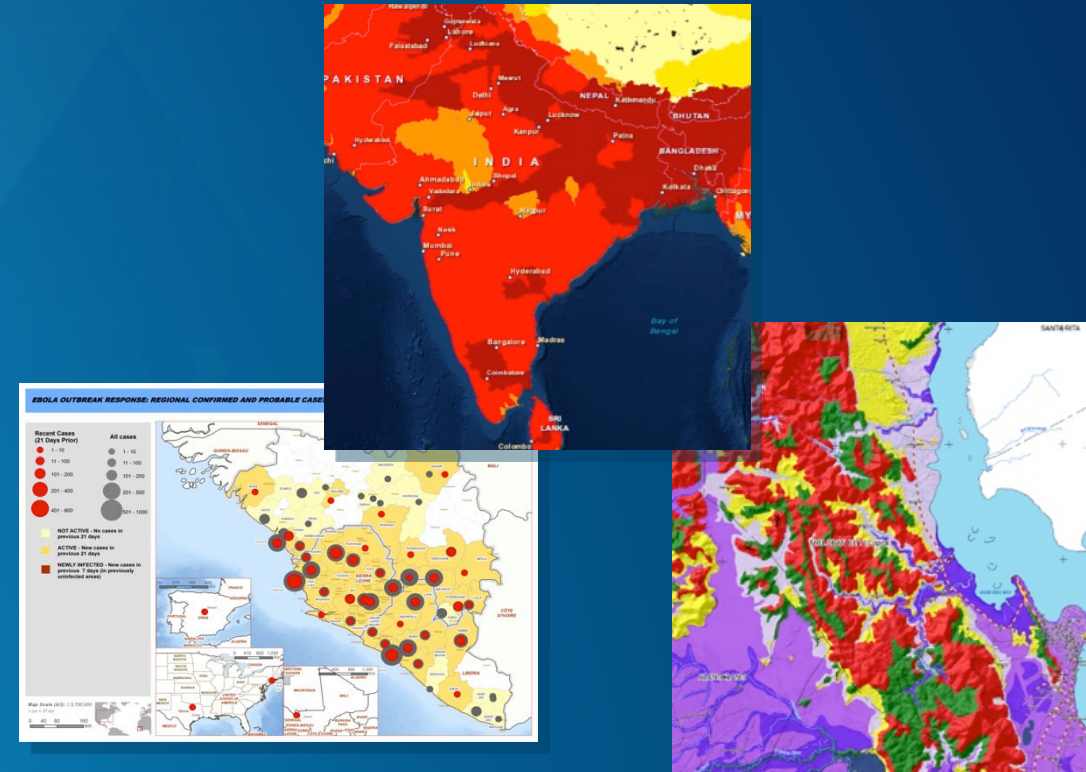


Research & Academia

SDG Platform Data Contributors

Build, Manage, and Share

- SDG Platform & Solution Templates to Build, Manage, & Share Data
- Engagement by the Esri user community
 - ~80 of data indicator leads use ArcGIS
- Grants of the platform technology to Least Developed Countries



...as an Anchor Partner in the Global Partnership for Sustainable Development Data

Delivering this vision

Requires More Than Data and Technology

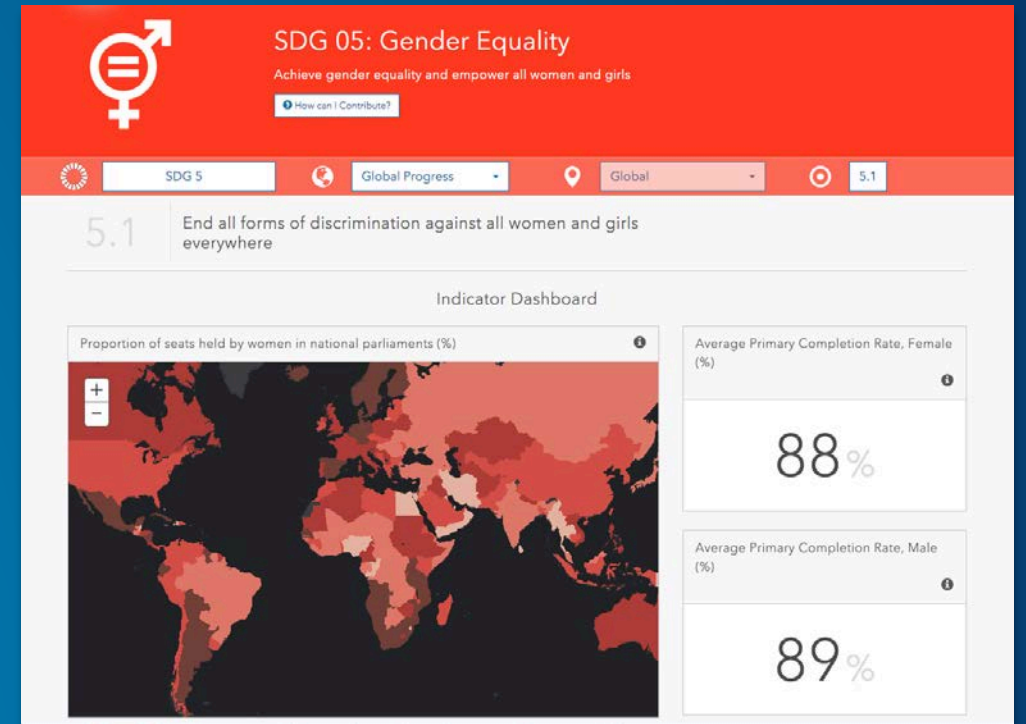
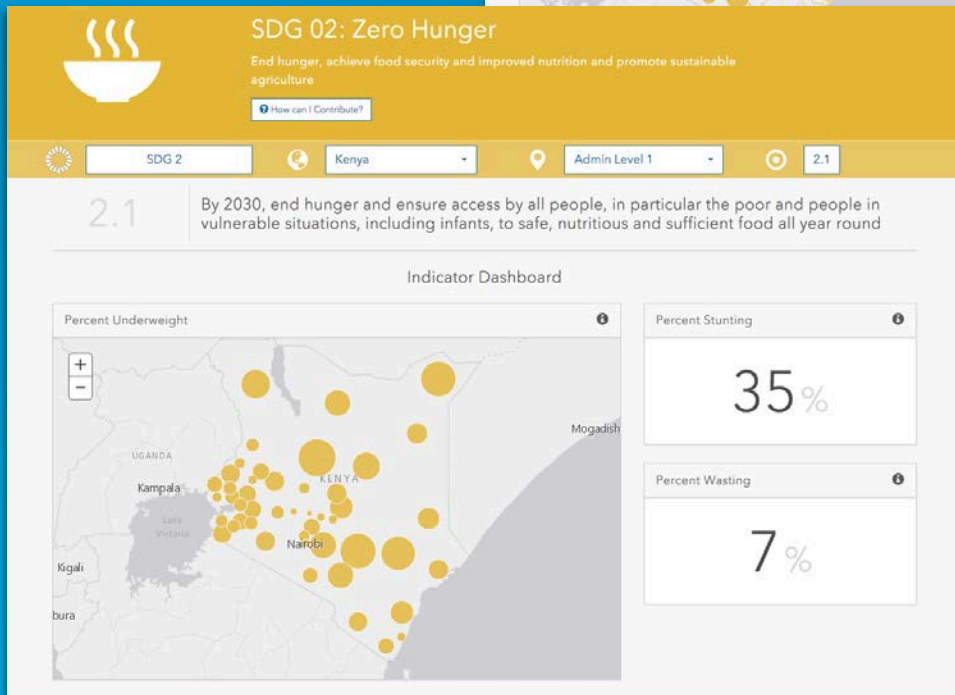
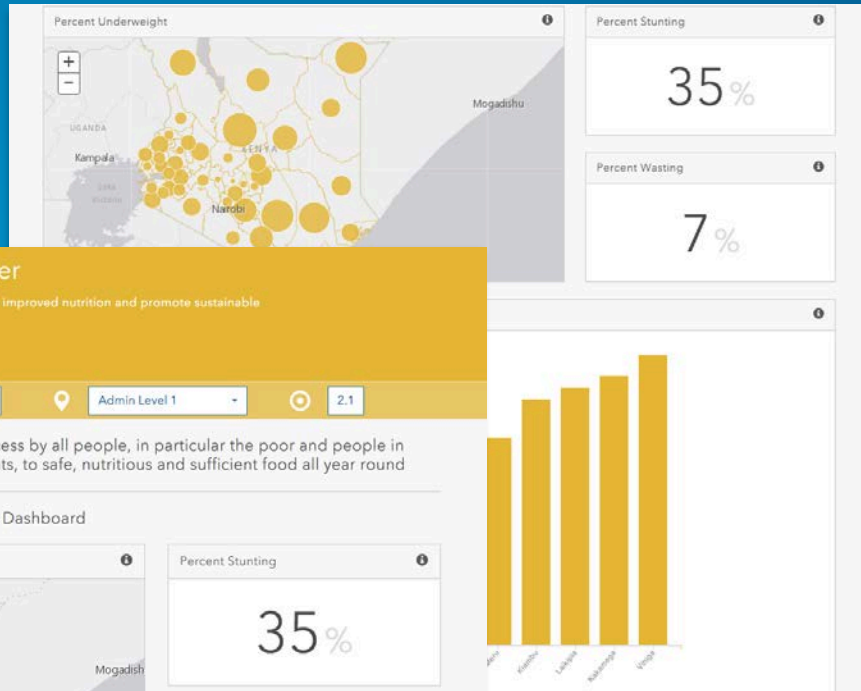
- **System Development:**

- Vision and Leadership
- Planning and Governance
 - Data Sharing Agreements
- System Architecture & Design
- Infrastructure (Cloud)
- Skilled Staff & Training
- Apps that are Relevant
- Implementation Team (Esri & Partners)

- **Project Requirements:**

- Solution Architecture
- Platform Implementation
- Integrative Data Model
- Application Development:
 - Dashboards
 - Story Maps
 - Open Data

Demonstration



SDG Communication Dashboard



Finally

- Thank you for your attention!
- Questions?
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 - mengels@esri.com

