SUSTAINABLE DEVELOPMENT GOALS

Research Exercise to Establish
A Federated Information System for the SDGs

United Nations Statistics Division

CONTEXT

Multilevel SDG data reporting

- **National and subnational reporting** is the most significant level of the SDG review process
- The global SDG monitoring system **builds on national data reporting**
  - Data derived from **national sources** is the foundation for SDG reviews at all levels
  - It is crucial to create opportunities for countries to directly contribute to **global reporting**

Technology as a key enabler

- **Digital technology** is available today that allows for the necessary **transformation** to leverage:
    - New sources of data and information
    - New approaches for data collection, management, processing and dissemination
    - New partnerships with civil society, the private sector and academia
    - Integration of geospatial and statistical information systems

A NEW FEDERATED INFORMATION SYSTEM

Why a Federated Information System for the SDGs?

Vision

Implementing the 2030 Agenda through the effective **dissemination and use of integrated statistical and geospatial data**, supported by technologies that facilitate data sharing and interoperability and collaboration to **report on the SDGs across local, national and global data hubs**.
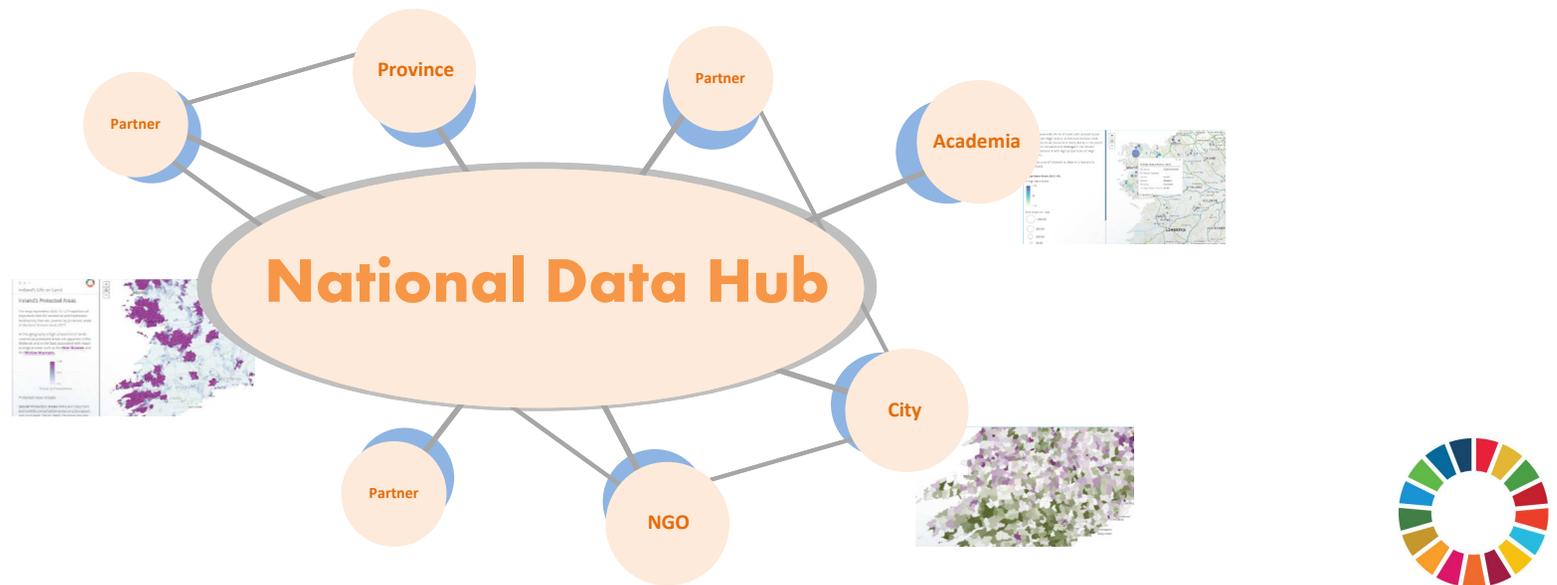
How does the Federated System work?

- A country-led "system of systems" …
- ..which facilitates the role of NSOs in managing statistical and geospatial data, integrating new and innovative data sources with traditional ones
- implemented through:
  - An open data platform
  - GIS and data analytics capabilities
  - Web-based tools for communication and user engagement
- that will enable local/national decision makers to access, understand and use SDG data and countries to directly contribute to global SDG reporting through innovative applications.
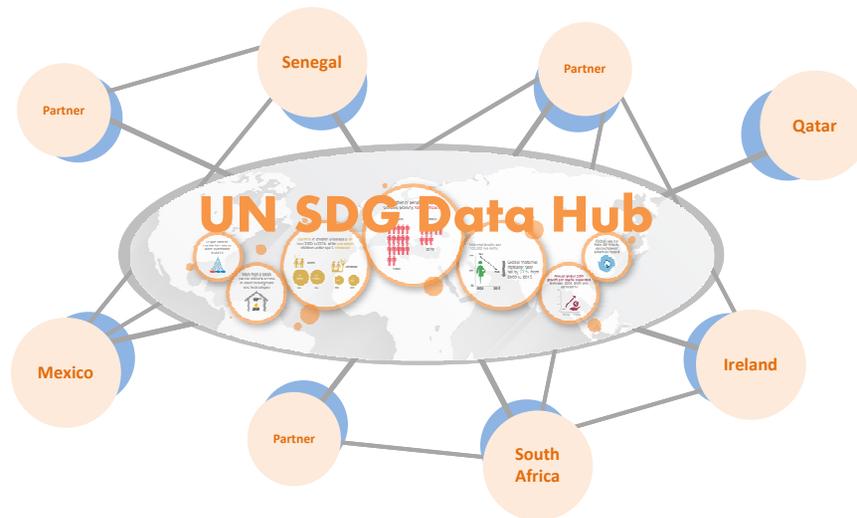
A network of national SDG Data Hubs

- Supporting national partnerships around data and policy initiatives
- Providing an inclusive and enabling environment for all stakeholders

UN SDG Data Hub

- Linked to a global network to share data, templates and common initiatives
- Enabled by Web GIS and open standards

THE RESEARCH EXERCISE

Implementation of the exercise: initial steps

- Deploy a limited number of **National SDG Data Hubs** that are "country owned and country led"

- Deploy a **Global UN SDG Data Hub** for the SDG indicator framework

- Small initial group of countries initiated the research exercise in May 2017 followed by a second group in October 2017

How is the research exercise being implemented?

- Each participating **country determine what SDG indicators** are used for this exercise
  - Relevant to national priorities
  - Easily available
- The NSO in the country determines what **new partnerships and data flows** are established SDG stakeholders for integration of new data sources

Key principles

- UNSD in partnership with Esri and participating countries will
  - establish **internal teams** and dedicated **infrastructure**
  - share **data and statistics** on a selected number of indicators through the SDG Data Hubs
  - determine **roles and levels of access** granted to internal and external stakeholders and partners

UNSD/Esri/countries teams

Working Groups

Data Management Group:
Will focus on sharing experiences and best practices in setting up and managing open data sites

Analytics Group:
Will provide a space for participating countries to learn from each other's experiences in the use of Insights and other tools for statistical and geospatial data analysis and visualization.

Imagery Group:
Will explore imagery analysis methods and tools to help plan data collection, identify change over time, and test innovative methodologies for the estimation of SDG indicators.

THE WAY FORWARD

Mexico City Declaration - 30 November 2017
Fifth High Level Forum on UN Global Geospatial Information Management

- ...endorse the concept of a federated system of open SDG Data Hubs ... to strengthen the ability of the national and global statistical systems to manage and share data and good practices for the SDGs, and allow countries to strive for better data interoperability and integration, to enhance relationships between national and global data, and to measure, monitor and report on the SDGs in a geographic context.

Scaling up the initiative

- New countries to establish their national hubs

- Additional providers of technology

- Donors and partners to join the initiative