



# Network of national COVID-19 data hubs

6th International Conference on  
Big Data for Official Statistics



# Role of the National Statistical Systems and Geospatial Community

An adequate response to the COVID-19 crisis has to draw on the entire National Statistical System and National Spatial Data Infrastructure, involving all relevant ministries and government agencies



# Vision

**Integrating** statistics and geospatial information from multiple sources, and across systems, needed to inform the response to the COVID-19 pandemic, where data is **open**, **accessible**, and **used** to the fullest extent possible in to save **people's** lives and protect their livelihoods in the face of the pandemic

- A global network of national COVID-19 Data Hubs, enabled by Web technologies and open standards
- Supporting national partnerships around data and policy initiatives
- Providing an inclusive and enabling environment for all stakeholders
- Allowing to share experiences and best practices that help ensure continuity of statistical operations and to learn from each other



# Interoperability and Open Data

It's difficult to share, integrate and work with the wealth of data that is available in today's digital era:

- Divergent needs and capabilities of multiple internal and external constituencies
- Disparate protocols, technologies and standards
- Fragmented data production and dissemination systems

- Many national statistical organizations are now adopting open data policies that authorize and facilitate the reuse of their data assets
- Open data requires data to be interoperable not only from a technical perspective, but also from a legal and institutional perspective



# Decentralized data ecosystem

There is no single, integrated database containing all the information needed for the 2030 Agenda or to address global challenges like the COVID-19 Pandemic

- Databases tend to proliferate within and across sectors, organizations and countries
- For the most part, these platforms have independently evolved

There is need for substantial information management flexibility, partial integration, sharing and autonomy



## Statistics COVID-19 response website and network of national COVID data hubs

- The Statistics Division of DESA, in partnership with esri, launched an initiative to give access to software and tools for developing countries wishing to join a **federated network of COVID-19 data hubs**.
- It leverages **web GIS technologies** for sharing available data resources and web services in an open and interoperable environment.
- It also provides ready-to-use templates helping national statistical offices get quickly up to speed in building their own **COVID-19 open data sites**, and allowing them to focus on responding to the urgent demand for data and insights from their constituencies





## Collaborative data innovation

Data innovation is the result of bringing together ideas contributed by many independent participants.



# Why a Federated Network of COVID-19 Data Hubs?

To respond to the information needs of policy makers and the public at large, through the effective **dissemination and use of integrated statistical and geospatial data**

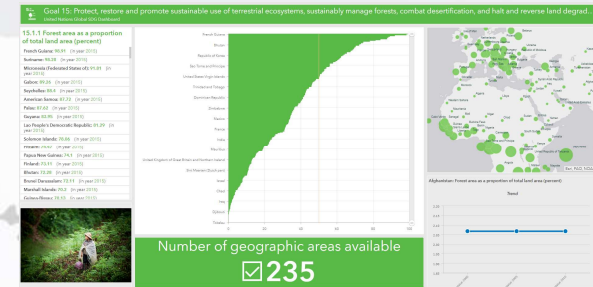
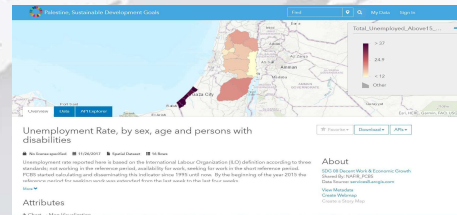
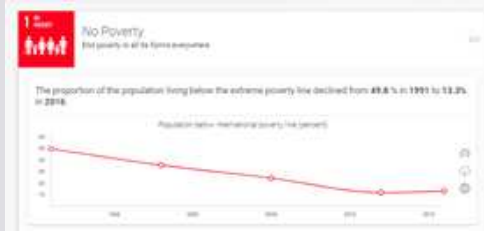
Build on the Federated Information System for the SDGs, leveraging existing technologies that facilitate data sharing and interoperability and collaboration **across local, national and global data hubs.**







# UN SDG Data Hub



people living in poverty fell significantly



**The Story Behind the UAE SDG Logo**

UAE's National Committee on SDGs has created a bespoke logo to represent the approach the country is taking to implement the SDGs. Inspired by the colors of the 17 SDGs, each color in the logo represents a goal and the blending of colors is intended to convey the complexity, indivisibility and crosscutting nature of the SDGs. The map of the UAE at the center of the ring of colors illustrates the fact that sustainable development is very much a way of life for the country. Furthermore, the logo for each SDG places UAE's man in the middle and gives prominence to the official color.

Welcome to the UAE SDG Data Hub

**Sénégal, Plateforme de suivi des ODD**

17 Objectifs pour transformer le Sénégal

Sénégal, Plateforme de suivi des ODD est une plateforme publique pour explorer et télécharger des données ouvertes, découvrir et participer à la résolution des problèmes locaux importants. Vous pouvez analyser et combiner des jeux de données ouverts à l'aide de cartes.

Stunting in children under age 5 fell from 2000 to 2016, while overweight children under age 5 increased

**The Sustainable Development Goals Report 2020**

Overview

**Philippines Sustainable Development Goals Status**

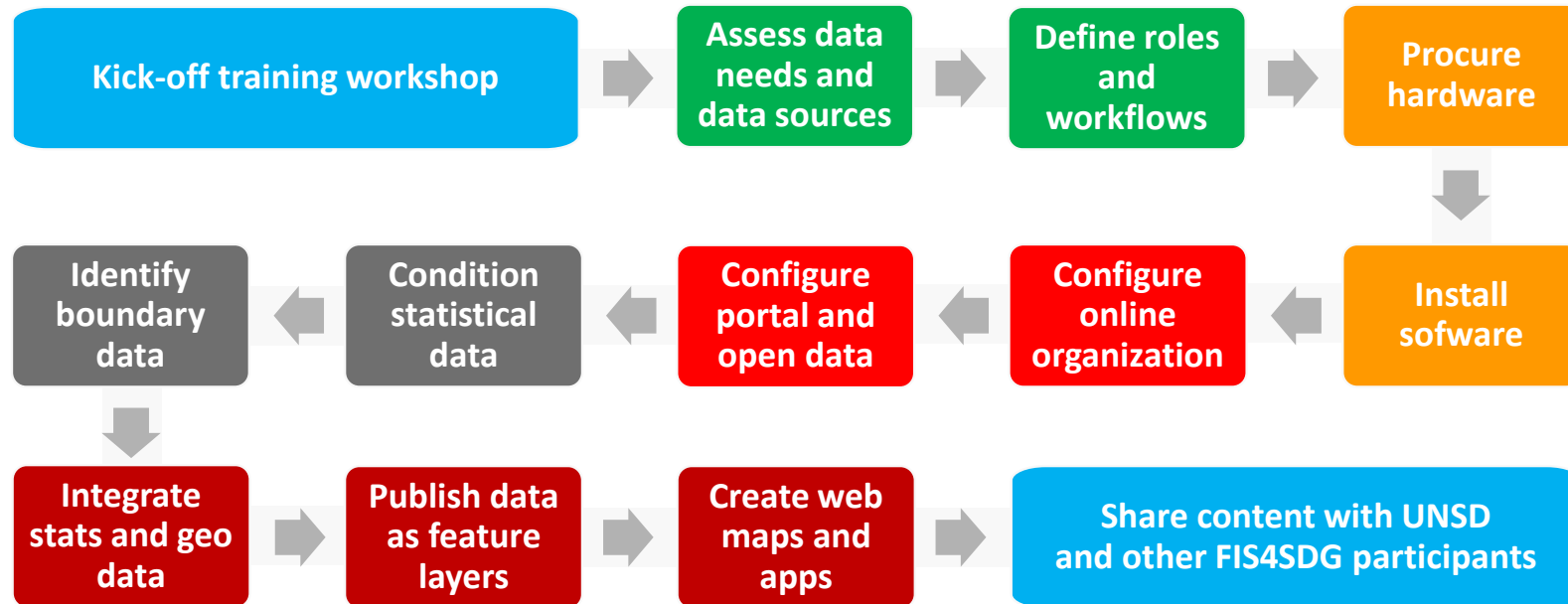
SDG 1.1.2 Status (2015) Poverty incidence in the Region

2015 Poverty incidence (Poverty incidence by 2005 Poverty incidence (PoI))

- Worsened > 10% of Baseline
- Improved < 75% of Baseline
- Improved < 75% of Baseline



# Implementation steps



# Links to relevant resources

**Multi-stakeholder collaborative effort on the statistical community response on COVID-19.**  
 Hosted by the Statistics Division of the United Nations Department of Economic and Social Affairs

**COVID-19 RESPONSE**  
 Resources for National Statistical Offices  
[covid-19-response.unstatshub.org](https://www.un.org/en/development/desa/statistics/covid-19-response) **#CovidData**

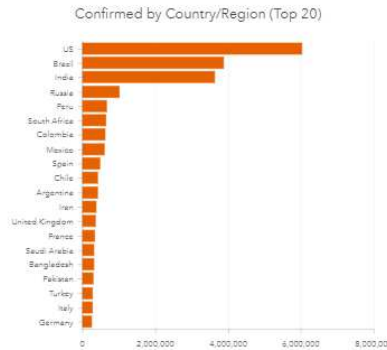
This website provides a space for the global statistical community to share guidance, actions, tools and best practices to ensure the operational continuity of data programmes by National Statistical Offices, and to address issues of open and timely access to critical data needed by governments and all sectors of society to respond to the global COVID-19 crisis.

- Ensuring continuity
- Working remotely
- Data solutions
- Open data
- Useful links
- Share experiences

# Dashboards and visualizations

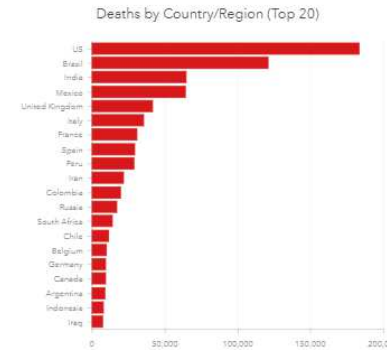
Confirmed

25,325,617



Deaths

847,847



Recovered

16,665,633

Countries/regions affected **188**

Data updated 8/31/2020



# Statistics COVID-19 response website and data hub

United Nations DESA Statistics UNStats COVID-19 response



## Data

This section makes data relevant to COVID-19 response readily available as geospatial data web services, suitable for the production of maps and other data visualizations and analyses, and easy to download in multiple formats. If your organization is interested in federating authoritative data services through this global COVID-19 data hub, please [contact us](#).



COVID-19 Data



Healthcare Resources



Economy

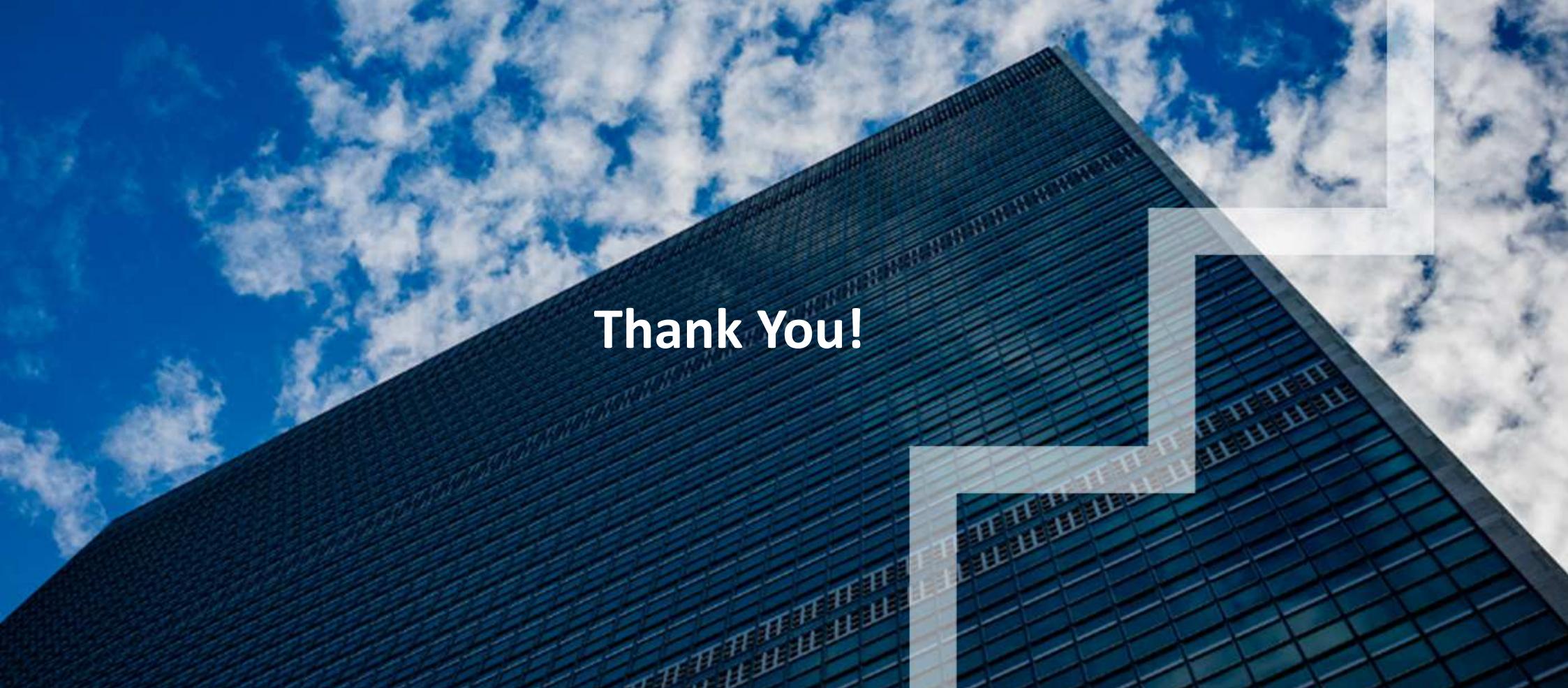


Population





**United Nations** | DESA  
Statistics



**Thank You!**