



# ArcGIS Solution for the SDGs

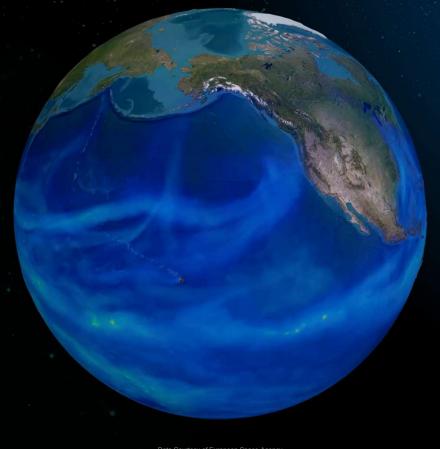
Supporting Esri's commitment to the SDGs



# Purpose of Esri's SDG Initiatives

Democratize access to "timely, high-quality, and disaggregated data to drive targeted responses, help anticipate future needs, and shape needed actions" with geospatial context

# Maps Tell Stories About Everything Stimulating a Sense of Wonder and Curiosity





### Context

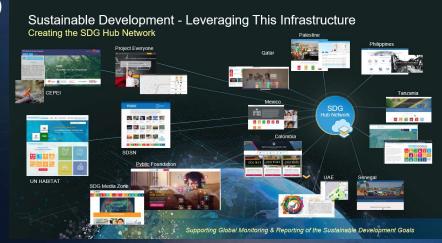
- ArcGIS Solution for SDGs launched on 15 Nov 2022
- Builds off earlier collaboration with UN and members states on the "Federated Information System for the SDGs" (FIS4SDGs) Research Exercise Guided by the SDG Data Alliance
- Supports:
  - Global Development Agencies
  - Governments
  - International Organizations
  - Nonprofits and NGOs
  - Academia
  - Private Sector





## Esri's SDG Approach - Partnership Driven

- Multistakeholder Partnerships
  - SDG Data Alliance
  - Academic Partners SDSN, University of Minnesota, Other Esri University Partners
- Nonprofit Organizations and NGOs
  - Sustainable Development Solutions Network (SDSN)
  - Local2030 Islands Network
- Development Agencies
  - United Nations
  - Development Banks
- Private Sector

















# ArcGIS Solutions Ready-to-Use Applications and Configurations

#### **Preconfigured**

Tools Data Models

Apps Workflows

Maps
Initiatives

Add-Ins

Dashboards





Emergency Management & Public Safety



- Extensive (150+)
- Easy to Deploy
- Fully Supported
   . . . Included as Part of ArcGIS
- Health & Human Services





Defense & Security

#### Industries

- Land Records
- · Planning and Development
- Public Works
- Emergency Management
- · Utilities / Network Management
- Elections
- Natural Resources
- Conservation
- Transportation
- Defense
- Public Safety
- Telecommunications
- · Health & Human Services

. Helping Organizations Quickly Realize Value

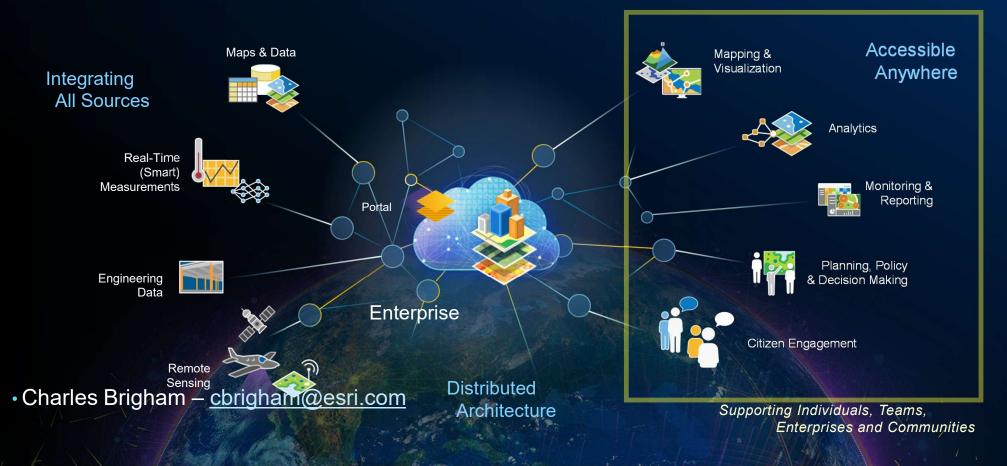
# The Geographic Approach – essential to Sustainability

Integrates All the Factors



# Enterprise GIS – Where does Hub Technology Fit?

Managing, Sharing and Applying Geographic Information



# **Hub Initiative Templates**

Customizable, branded and modern websites for organizing and discovering information & tools.

Charts & Maps

StoryMaps

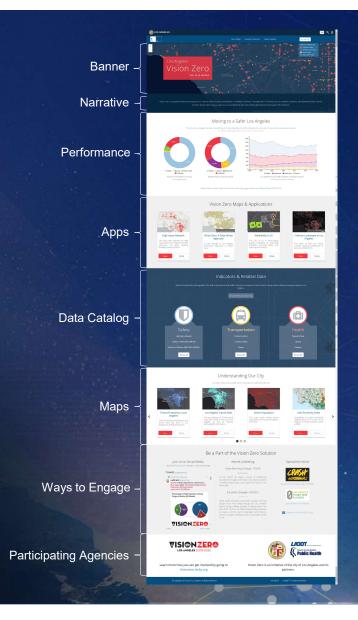
**Authoritative Data** 

Surveys and Polls

**Events** 

Dashboards

Teams





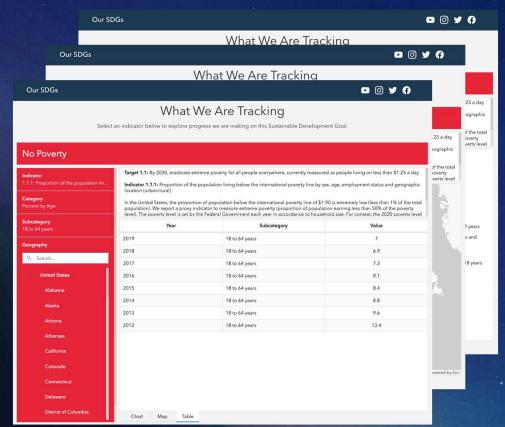
#### KEY COMPONENTS

- Integrates Goal, Target, & Indicator ontology
- Thematic mapping preview
- SDG Indicator monitoring dashboard
- Community Engagement survey

#### RELATED APPLICATIONS

- VNR StoryMap
- · Scorecard-style dashboard
- · Indicator-level status reporting





View the Solution on the ArcGIS Solutions Gallery



Focused Maps and Apps



#### External Stakeholders





# Solution Requirements

- ArcGIS Software requirement: 1 ArcGIS Online Creator named user
- Basic knowledge of ArcGIS Online
- Basic knowledge of Microsoft Excel
- Basic knowledge of SDGs or related KPI frameworks

# learning resources online...

https://doc.arcgis.com/en/arcgis-solutions/latest/reference/introduction-to-sustainable-development-goals.htm



## SDG Data Hub Implementation Process

#### Plan

- Kickoff meeting about data hub
- Data agreements and support
- Form a project team
- Data Inventory and Data Gaps
- Capacity evaluation



#### **Assess**

- Assess priorities and availability of SDG data
- Assess skill level
- Data Preparation
- Pre-workshop online training
- Agree on data governance and sharing methodology



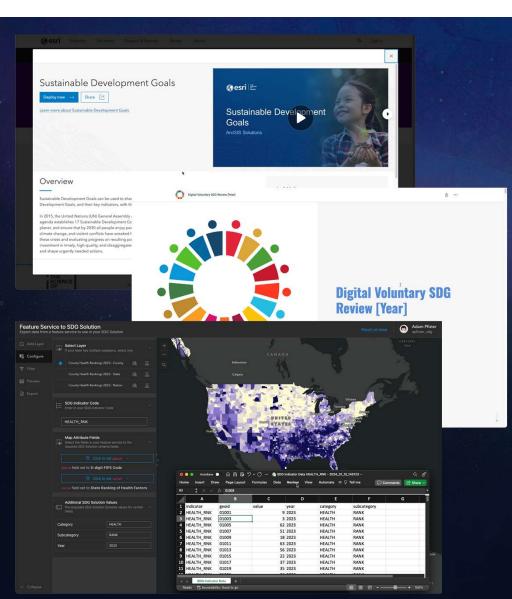
#### Build

- Convene technical workshop
- Build data hub prototype
- Launch data hub
- Promote data hub through various communication efforts
- Capacity Building



# Sustain & Grow

- Add additional SDG goals
- Ongoing promotion of hub
- Operate and Maintain the Hub
- Identify long-term funding
- Collaboration with Partners
- Annual stakeholder meeting to evaluate data



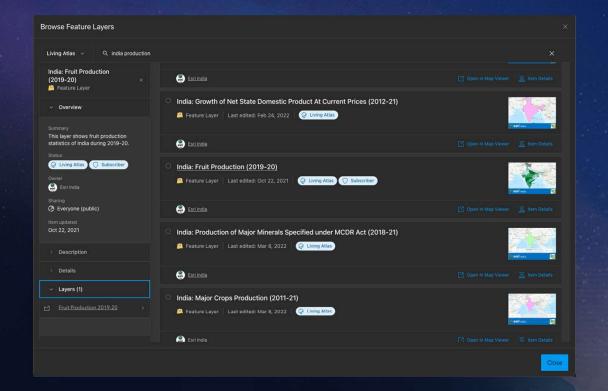


### **Current State**

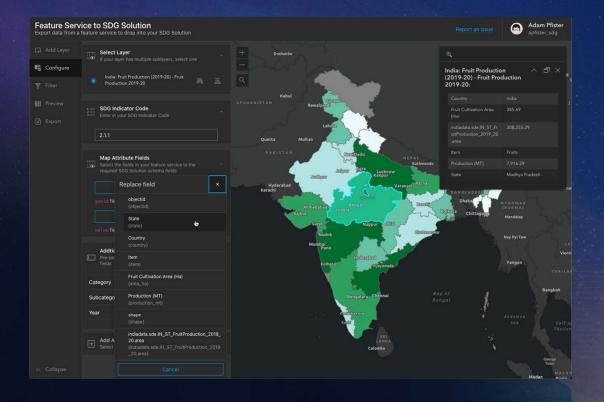
Current State

- Solution for the Sustainable Development Goals
  - An ArcGIS Solution supported in Online & Enterprise
  - Bring your own data & geography
- Voluntary Local/National Review (VL/NR)
   StoryMap Template
  - Get up and running with a StoryMap template to present on your progress on the SDGs
- Feature Service to SDG Schema Web App
  - Convert any feature service in ArcGIS to the required schema for the SDG Solution
  - Fast Data ETL from any feature service

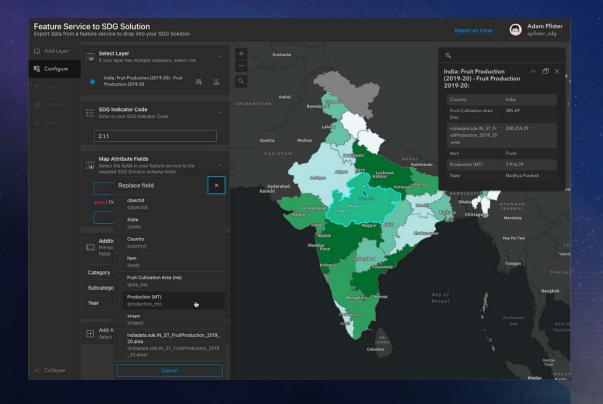




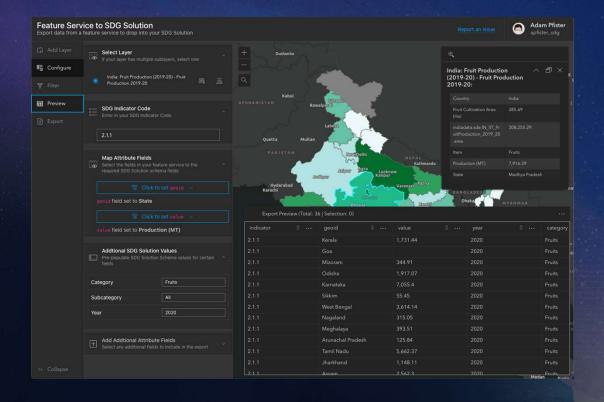




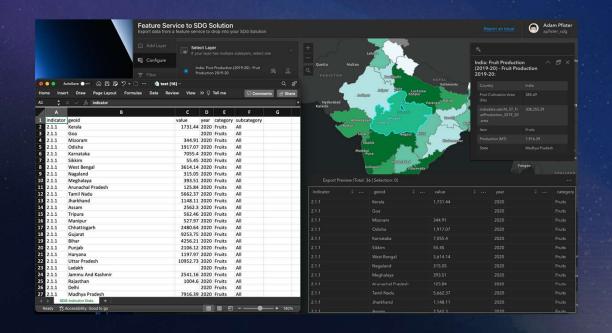










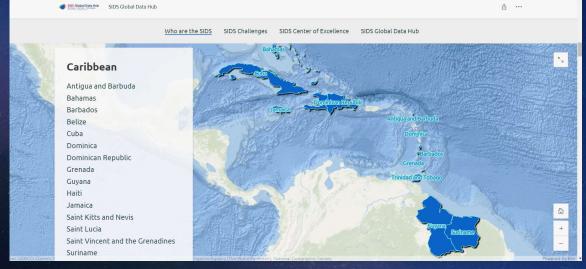




# Ongoing...

#### In process

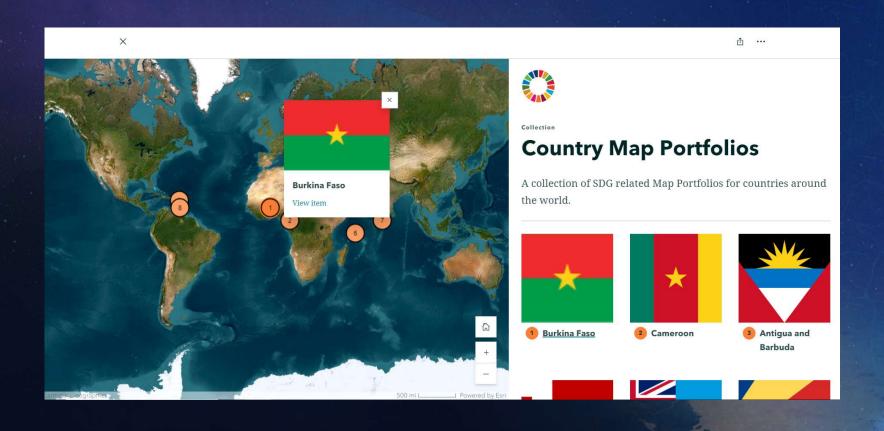
- Map Portfolio Application
  - Executive Briefing Application
  - Solutions for Development Planning and Decision-Making
- Dynamic Mapping Visualization Web app
  - Easily configured to work with the SDG Solution schema
  - Immediate visualization of indicators, categories, and subcategories
  - Open Source & minimal setup as a target
- USAID DHS to SDG Data Schema ETL
  - Similar to Feature Service to SDG Schema web app
- Calculating SDG Indicators
  - Making use of the large catalogs of data
- Open to ideas....



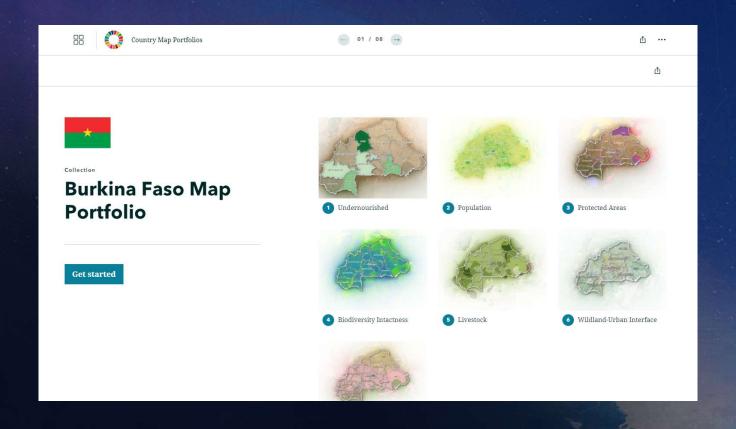


**ArcGIS StoryMaps Briefings** 

# Map Portfolios – Extending to other data catalogs



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