

## Our SDGs

17 goals to transform our world

Open and transparent progress towards the United Nations Sustainable Development Goals.



### Welcome

*The 2030 Agenda for Sustainable Development provides a shared blueprint for peace and prosperity. At its heart are 17 [Sustainable Development Goals \(SDGs\)](#), which are an urgent call for action by all countries to end poverty, protect the planet, and improve the lives and prospects of everyone, everywhere.*

*Launched in [insert date], this Sustainable Development Goals (SDGs) hub highlights progress our organization is making on these universal goals.*

- Name, Title

# ArcGIS Solution for the SDGs

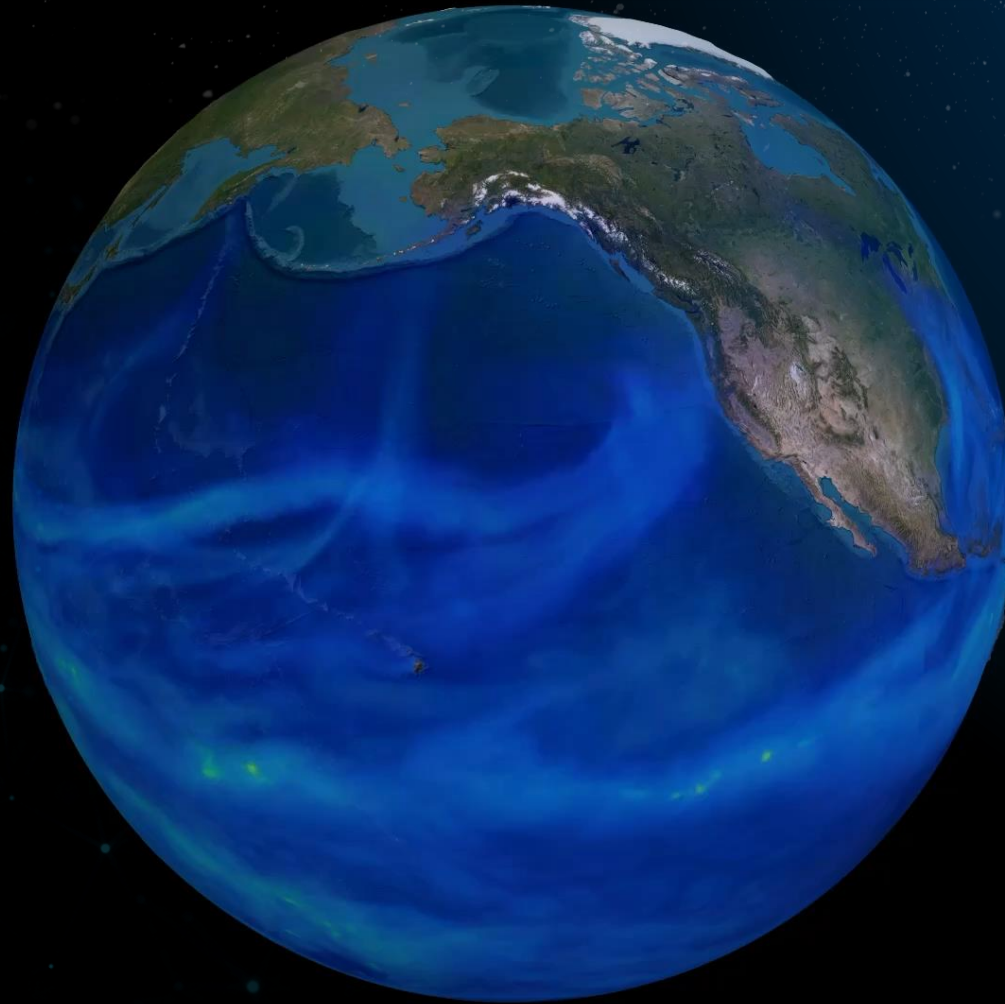
Supporting Esri's commitment to the SDGs

## 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

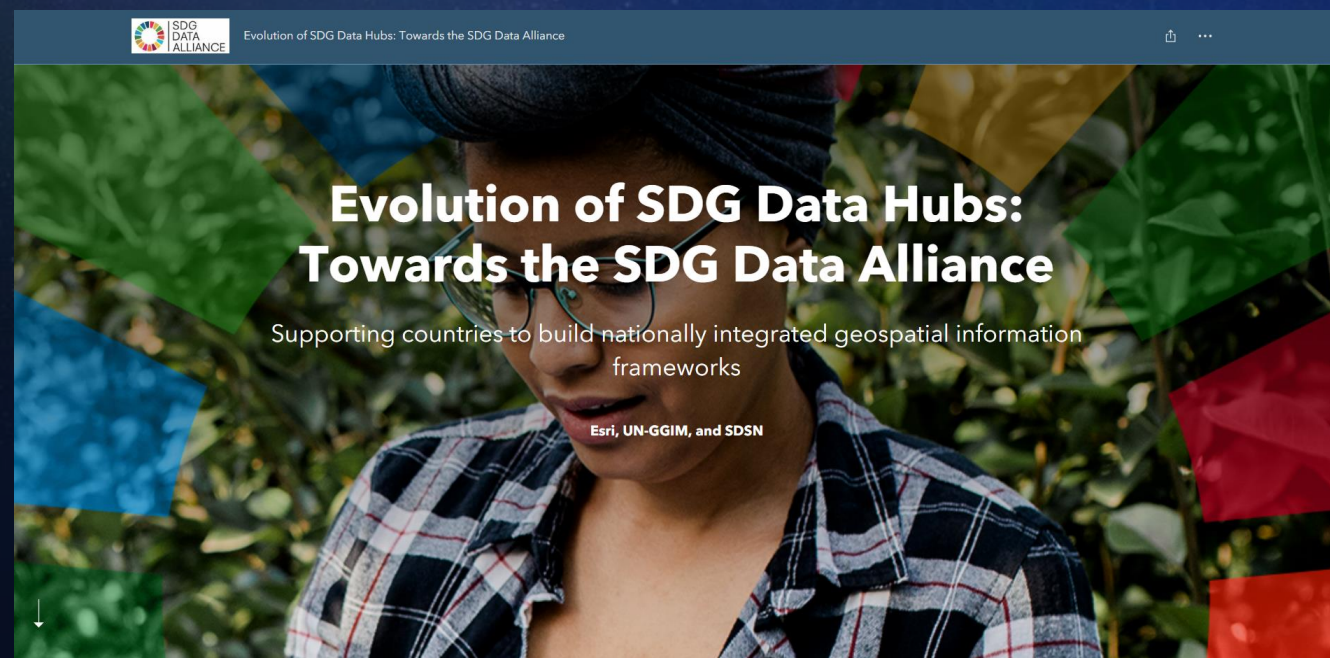
Stimulating a Sense of Wonder and Curiosity





# Context

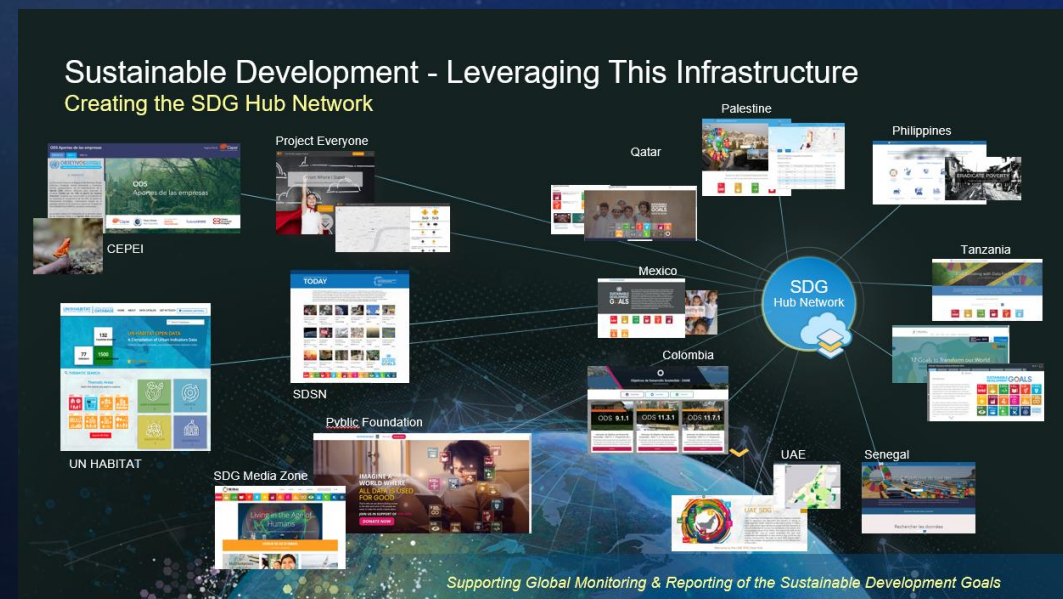
- ArcGIS Solution for SDGs launched on 15 Nov 2022
- Builds off earlier collaboration with UN and members states on the “Federated Information System for the SDGs” (FIS4SDGs) Research Exercise Guided by the SDG Data Alliance
- Supports:
  - Global Development Agencies
  - Governments
  - International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

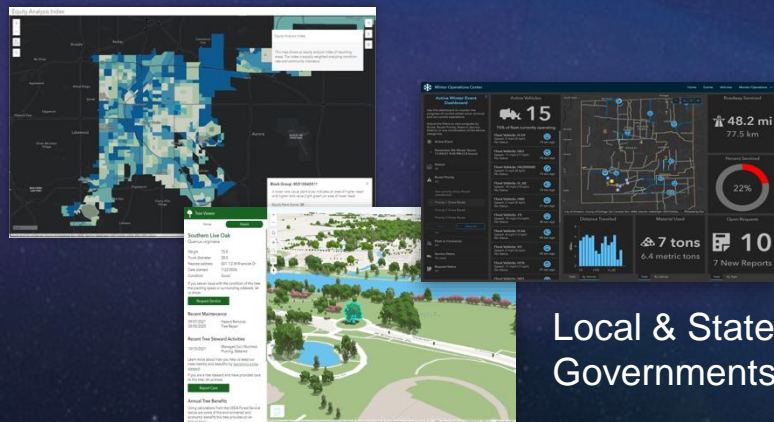




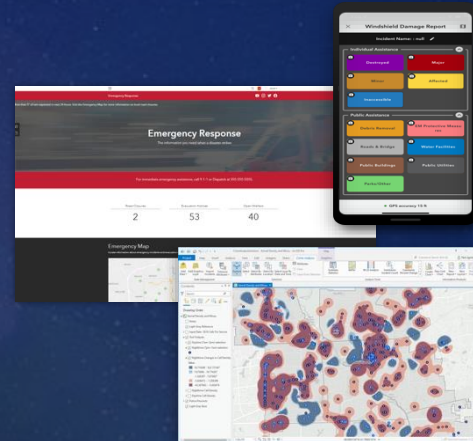
# ArcGIS Solutions Ready-to-Use Applications and Configurations

## Preconfigured

- Data Models
- Tools
- Apps
- Workflows
- Maps
- Initiatives
- Add-Ins
- Dashboards



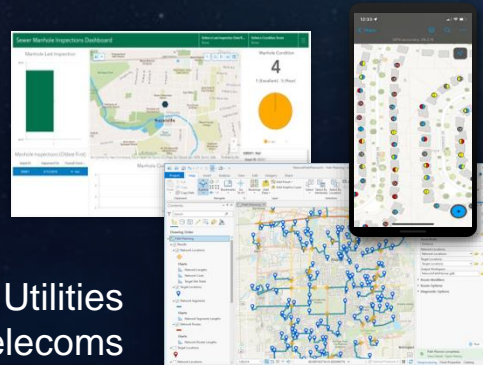
Local & State Governments



Emergency Management & Public Safety



Health & Human Services



Utilities & Telecoms



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

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

... Helping Organizations Quickly Realize Value



# ArcGIS Solution for SDGs

## 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

The screenshot shows a web application interface for tracking the 'No Poverty' SDG. The main heading is 'What We Are Tracking' with a sub-heading 'Select an indicator below to explore progress we are making on this Sustainable Development Goal.' The interface is divided into several sections:

- Left Sidebar:** Contains filters for 'Indicator' (1.1.1: Proportion of the population living on less than \$1.25 a day), 'Category' (Percent by Age), 'Subcategory' (18 to 64 years), and 'Geography' (United States, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia).
- Main Content Area:** Displays 'Target 1.1: By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day'. Below this is a table showing the proportion of the population living below the international poverty line by sex, age, employment status and geographic location (urban/rural) for the United States from 2012 to 2019.
- Table Data:**

Year	Subcategory	Value
2019	18 to 64 years	7
2018	18 to 64 years	6.9
2017	18 to 64 years	7.3
2016	18 to 64 years	8.1
2015	18 to 64 years	8.4
2014	18 to 64 years	8.8
2013	18 to 64 years	9.6
2012	18 to 64 years	13.4

At the bottom of the table, there are tabs for 'Chart', 'Map', and 'Table'. The 'Table' tab is currently selected. On the right side of the dashboard, there are additional visualizations including a map of the United States and a vertical bar chart showing the percentage of the population living on less than \$1.25 a day.

View the Solution on the [ArcGIS Solutions Gallery](#)



# Sustainable Development Goals

Focused Maps and Apps





# Solution Requirements

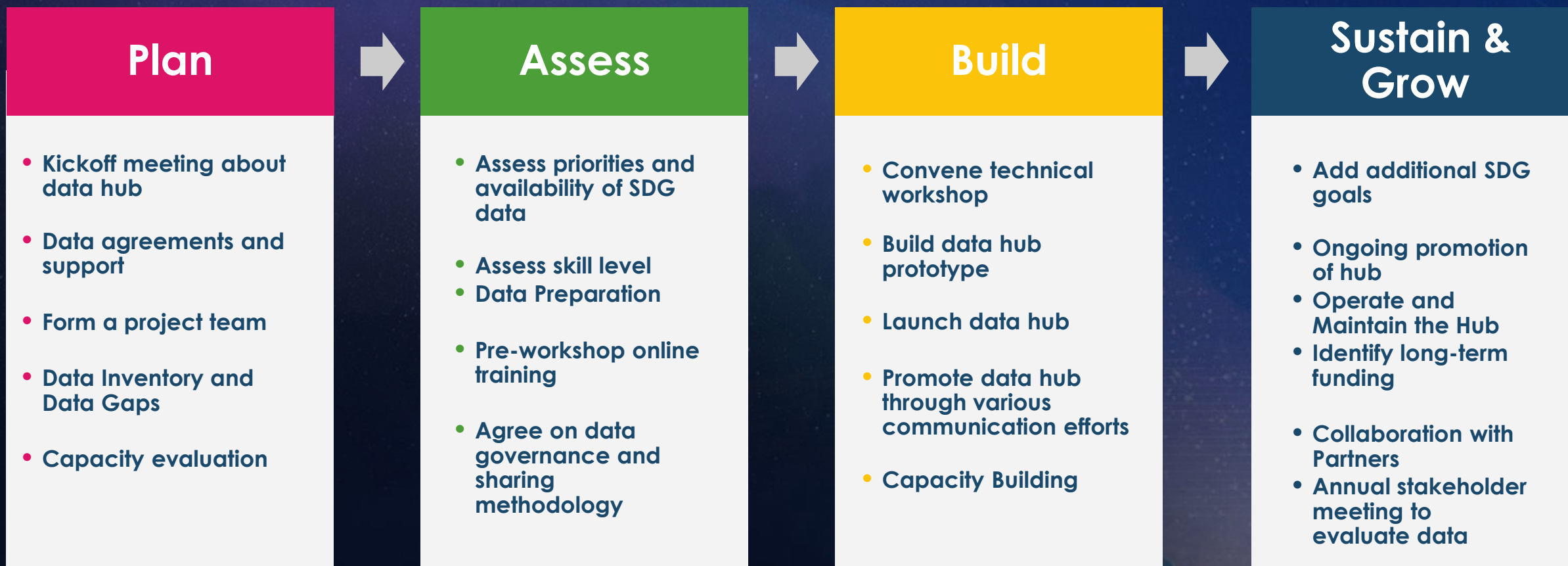
- ArcGIS Software requirement: **1 ArcGIS Online Creator named user**
- Basic knowledge of ArcGIS Online
- Basic knowledge of Microsoft Excel
- Basic knowledge of SDGs or related KPI frameworks

Learn more at...

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



# SDG Data Hub Implementation Process





# 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

The image shows a composite of three screenshots related to Esri's Sustainable Development Goals (SDG) solutions. The top screenshot displays the 'Sustainable Development Goals' landing page with a video player and 'Deploy now' and 'Share' buttons. The middle screenshot shows a 'Digital Voluntary SDG Review' StoryMap template with a colorful SDG wheel and a map of the United States. The bottom screenshot shows the 'Feature Service to SDG Solution' web application interface, which includes a 'Select Layer' panel, a map of the United States, and a data table for 'SDG Indicator Data HEALTH\_RNK - 2024\_01\_10\_145123'.

Indicator	geoid	value	year	category	subcategory
1	HEALTH_RNK_01001	9	2023	HEALTH	RANK
2	HEALTH_RNK_01003	3	2023	HEALTH	RANK
3	HEALTH_RNK_01005	62	2023	HEALTH	RANK
4	HEALTH_RNK_01007	51	2023	HEALTH	RANK
5	HEALTH_RNK_01009	18	2023	HEALTH	RANK
6	HEALTH_RNK_01011	63	2023	HEALTH	RANK
7	HEALTH_RNK_01013	56	2023	HEALTH	RANK
8	HEALTH_RNK_01015	22	2023	HEALTH	RANK
9	HEALTH_RNK_01017	37	2023	HEALTH	RANK
10	HEALTH_RNK_01019	35	2023	HEALTH	RANK



# Feature Layer to SDG Solution

Browse Feature Layers

Living Atlas | Search: india production

**India: Fruit Production (2019-20)**  
Feature Layer

Overview

Summary  
This layer shows fruit production statistics of India during 2019-20.

Status  
Living Atlas | Subscriber

Owner  
Esri India

Sharing  
Everyone (public)

Item updated  
Oct 22, 2021

> Description

> Details

> Layers (1)

Fruit Production 2019-20

- India: Growth of Net State Domestic Product At Current Prices (2012-21)  
Feature Layer | Last edited: Feb 24, 2022 | Living Atlas
- India: Fruit Production (2019-20)  
Feature Layer | Last edited: Oct 22, 2021 | Living Atlas | Subscriber
- India: Production of Major Minerals Specified under MCDR Act (2018-21)  
Feature Layer | Last edited: Mar 8, 2022 | Living Atlas
- India: Major Crops Production (2011-21)  
Feature Layer | Last edited: Mar 8, 2022 | Living Atlas

Close

*Convert any feature service to the required schema for the SDG Solution*



# Feature Layer to SDG Solution

**Feature Service to SDG Solution**  
Export data from a feature service to drop into your SDG Solution

Report an Issue Adam Pfister  
apfister\_sdg

**Select Layer**  
If your layer has multiple sublayers, select one

India: Fruit Production (2019-20) - Fruit Production 2019-20

**SDG Indicator Code**  
Enter in your SDG Indicator Code

2.1.1

**Map Attribute Fields**  
Select the fields in your feature service to the required SDG Solution schema fields

**Replace field**

geo id field	objectid (objectid)
value field	State (state)
Additional Pre-processed fields	Country (country)
Category	Item (item)
Subcategory	Fruit Cultivation Area (Ha) (area_ha)
Year	Production (MT) (production_mt)
Additional Select	shape (shape)
	indiadata.sde.IN_ST_FruitProduction_2019_20.area (indiadata.sde.IN_ST_FruitProduction_2019_20.area)

Cancel

**India: Fruit Production (2019-20) - Fruit Production 2019-20:**

Country	India
Fruit Cultivation Area (Ha)	385.69
indiadata.sde.IN_ST_FruitProduction_2019_20.area	308,255.29
Item	Fruits
Production (MT)	7,916.39
State	Madhya Pradesh

*Convert any feature service to the required schema for the SDG Solution*



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**Replace field**

geo.id	objectid (objectid)
	State (state)
<b>Add Pre-processed fields</b>	Country (country)
<b>Category</b>	Item (item)
<b>Subcategory</b>	Fruit Cultivation Area (Ha) (area_ha)
<b>Year</b>	Production (MT) (production_mt)
<b>Add A Select</b>	shape (shape)
	indiadata.sde.IN_ST_FruitProduction_2019_20.area (indiadata.sde.IN_ST_FruitProduction_2019_20.area)

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# Feature Layer to SDG Solution

**Feature Service to SDG Solution**  
Export data from a feature service to drop into your SDG Solution

Report an Issue Adam Pfister  
apfister\_sdg

**Select Layer**  
If your layer has multiple sublayers, select one

India: Fruit Production (2019-20) - Fruit Production 2019-20

**SDG Indicator Code**  
Enter in your SDG Indicator Code

2.1.1

**Map Attribute Fields**  
Select the fields in your feature service to the required SDG Solution schema fields

Click to set geoid

geoid field set to State

Click to set value

value field set to Production (MT)

**Additional SDG Solution Values**  
Pre-populate SDG Solution Schema values for certain fields

Category: Fruits

Subcategory: All

Year: 2020

**Add Additional Attribute Fields**  
Select any additional fields to include in the export

Export Preview (Total: 36 | Selection: 0)

indicator	geoid	value	year	category
2.1.1	Kerala	1,731.44	2020	Fruits
2.1.1	Goa		2020	Fruits
2.1.1	Mizoram	344.91	2020	Fruits
2.1.1	Odisha	1,917.07	2020	Fruits
2.1.1	Karnataka	7,055.4	2020	Fruits
2.1.1	Sikkim	55.45	2020	Fruits
2.1.1	West Bengal	3,614.14	2020	Fruits
2.1.1	Nagaland	315.05	2020	Fruits
2.1.1	Meghalaya	393.51	2020	Fruits
2.1.1	Arunachal Pradesh	125.84	2020	Fruits
2.1.1	Tamil Nadu	5,662.37	2020	Fruits
2.1.1	Jharkhand	1,148.11	2020	Fruits
2.1.1	Assam	2,562.3	2020	Fruits

**India: Fruit Production (2019-20) - Fruit Production 2019-20:**

Country	India
Fruit Cultivation Area (Ha)	385.69
indiadata.sde.IN_ST_FruitProduction_2019_20.area	308,255.29
Item	Fruits
Production (MT)	7,916.39
State	Madhya Pradesh

*Convert any feature service to the required schema for the SDG Solution*



# Feature Layer to SDG Solution

The screenshot displays a software interface titled "Feature Service to SDG Solution". It features a map of India on the right, a data table on the left, and a metadata panel on the right. The data table lists various states and their fruit production values for the year 2020. The metadata panel provides details for India's fruit cultivation area and production.

Indicator	geoid	value	year	category	subcategory
2.1.1	Kerala	1731.44	2020	Fruits	All
2.1.1	Goa		2020	Fruits	All
2.1.1	Mizoram	344.91	2020	Fruits	All
2.1.1	Odisha	1917.07	2020	Fruits	All
2.1.1	Karnataka	7055.4	2020	Fruits	All
2.1.1	Sikkim	55.45	2020	Fruits	All
2.1.1	West Bengal	3614.14	2020	Fruits	All
2.1.1	Nagaland	315.05	2020	Fruits	All
2.1.1	Meghalaya	393.51	2020	Fruits	All
2.1.1	Arunachal Pradesh	125.84	2020	Fruits	All
2.1.1	Tamil Nadu	5662.37	2020	Fruits	All
2.1.1	Jharkhand	1148.11	2020	Fruits	All
2.1.1	Assam	2562.3	2020	Fruits	All
2.1.1	Tripura	527.46	2020	Fruits	All
2.1.1	Manipur	527.97	2020	Fruits	All
2.1.1	Chhattisgarh	2480.64	2020	Fruits	All
2.1.1	Gujarat	9253.75	2020	Fruits	All
2.1.1	Bihar	4256.21	2020	Fruits	All
2.1.1	Punjab	2106.12	2020	Fruits	All
2.1.1	Haryana	1197.97	2020	Fruits	All
2.1.1	Uttar Pradesh	10952.73	2020	Fruits	All
2.1.1	Ladakh		2020	Fruits	All
2.1.1	Jammu And Kashmir	2541.16	2020	Fruits	All
2.1.1	Rajasthan	1004.6	2020	Fruits	All
2.1.1	Delhi		2020	Fruits	All
2.1.1	Madhya Pradesh	7916.39	2020	Fruits	All

India: Fruit Production (2019-20) - Fruit Production 2019-20:

Country	India
Fruit Cultivation Area (Ha)	385.69
inddata.sdg.IN.ST.Fr.usdproduction_2019_20.area	308,255.29
Item	Fruits
Production (MT)	7,916.39
State	Madhya Pradesh

indicator	geoid	value	year	category
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2.1.1	Tamil Nadu	5,662.37	2020	Fruits
2.1.1	Jharkhand	1,148.11	2020	Fruits
2.1.1	Assam	2,562.3	2020	Fruits

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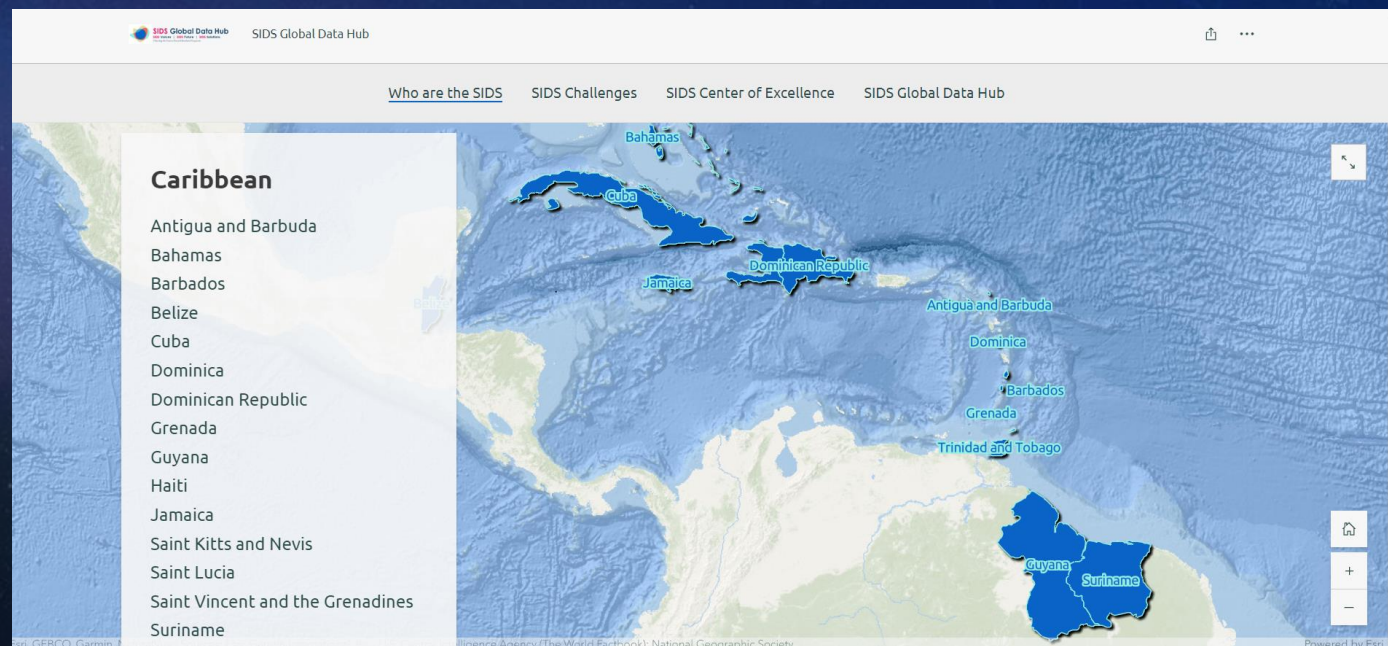




# Looking ahead

## Looking Ahead

- 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....

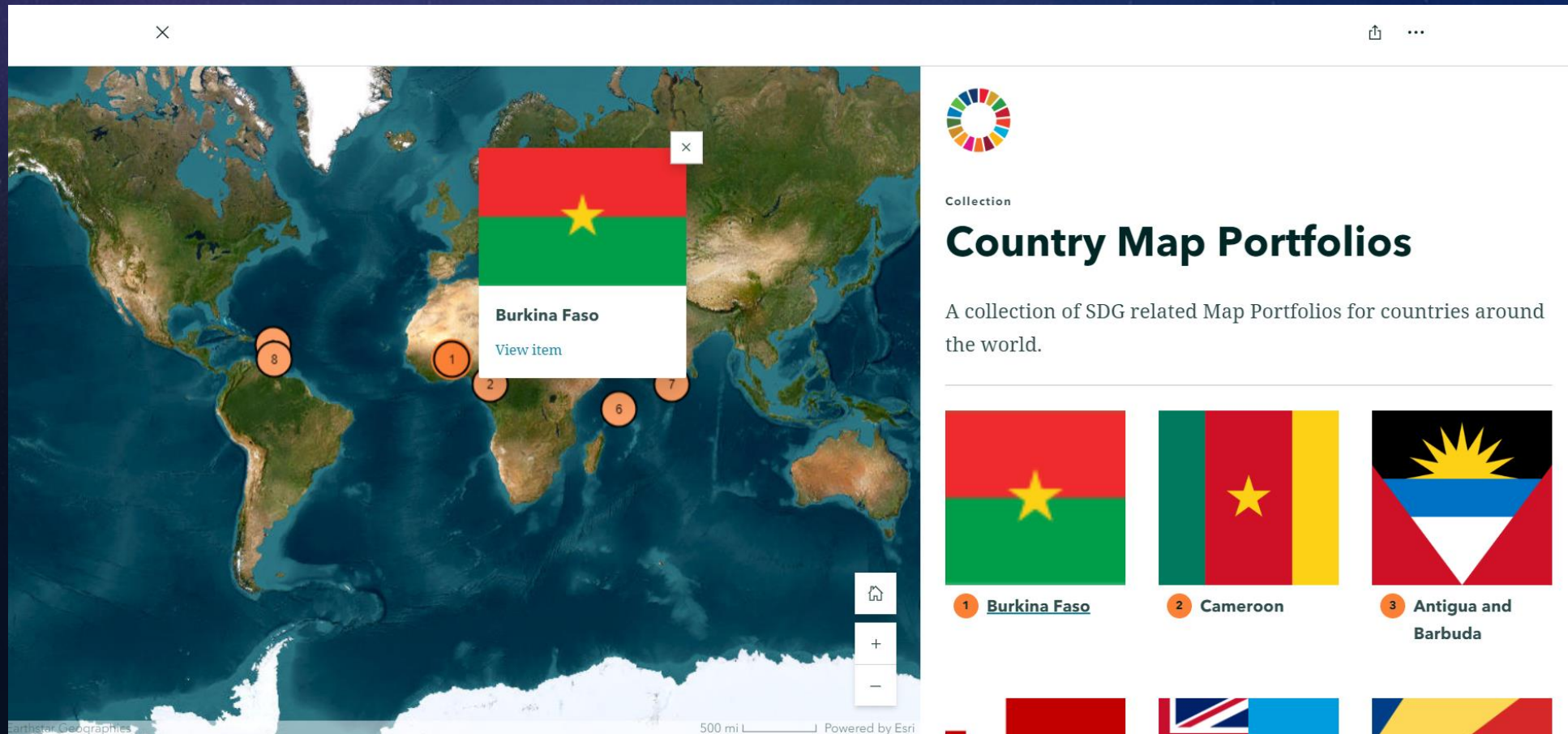


The  
**DHS** Program  
Demographic and Health Surveys



**ArcGIS StoryMaps  
Briefings**

# Map Portfolios – Extending to other data catalogs






The screenshot displays a web interface for "Country Map Portfolios". On the left, a world map shows several countries marked with numbered orange circles (1-8). A popup window for Burkina Faso is open, showing its flag and a "View item" link. On the right, the "Country Map Portfolios" collection is displayed, featuring a list of countries with their respective flags and names: 1. Burkina Faso, 2. Cameroon, and 3. Antigua and Barbuda. The interface includes a search bar at the top, a close button (X), and a share icon. The bottom of the map shows a scale bar (500 mi) and "Powered by Esri".

Collection

## Country Map Portfolios

A collection of SDG related Map Portfolios for countries around the world.

-  **Burkina Faso**
-  **Cameroon**
-  **Antigua and Barbuda**

# Map Portfolios – Extending to other data catalogs

The screenshot shows a web interface for 'Country Map Portfolios'. At the top, there is a navigation bar with a grid icon, the text 'Country Map Portfolios', a page indicator '01 / 08', and a share icon. Below the navigation bar, the main content area features a collection titled 'Burkina Faso Map Portfolio'. On the left, there is a Burkina Faso flag and a 'Get started' button. The main area displays six thematic maps arranged in a 2x3 grid, each with a numbered label: 1. Undernourished, 2. Population, 3. Protected Areas, 4. Biodiversity Intactness, 5. Livestock, and 6. Wildland-Urban Interface. A seventh map is partially visible at the bottom.

Country Map Portfolios 01 / 08

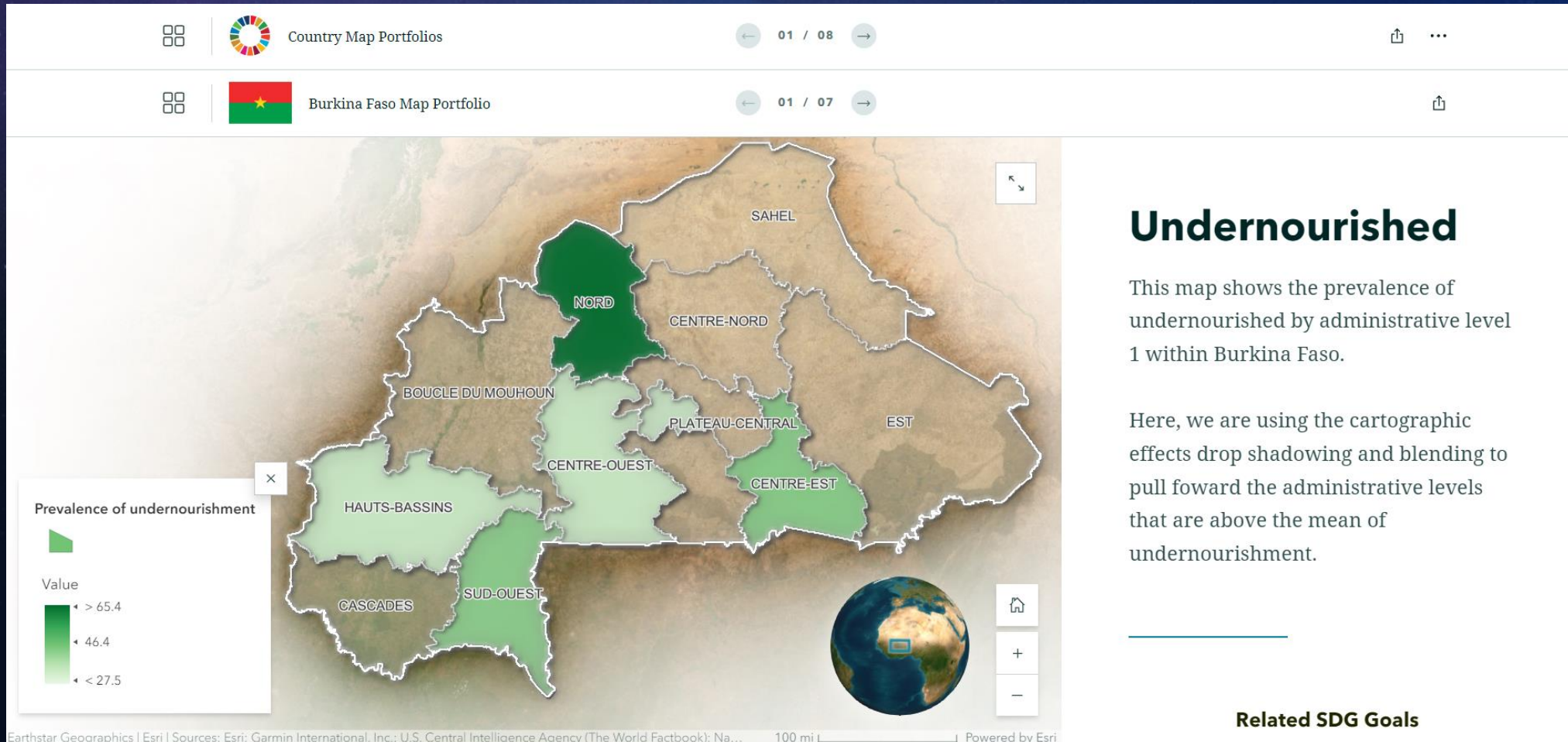
Collection

**Burkina Faso Map Portfolio**

[Get started](#)

- 1 Undernourished
- 2 Population
- 3 Protected Areas
- 4 Biodiversity Intactness
- 5 Livestock
- 6 Wildland-Urban Interface

# Map Portfolios – Extending to other data catalogs



Thank You!

# ArcGIS Solution for the SDGs

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**esri**<sup>®</sup>

**THE  
SCIENCE  
OF  
WHERE**<sup>®</sup>