

**XXVII FIG CONGRESS** 11-15 SEPTEMBER 2022 Warsaw, Poland

Volunteering for the future -Geospatial excellence for a better living

### Impowation and Implementation of an Integrated Geospatial Infrastructure (11709 paper)

Mark CYGAN, United States of America Timothy FELLA, United States of America Jill SALIGOE-SIMMEL, United States of America Nick LAND, United Kingdom



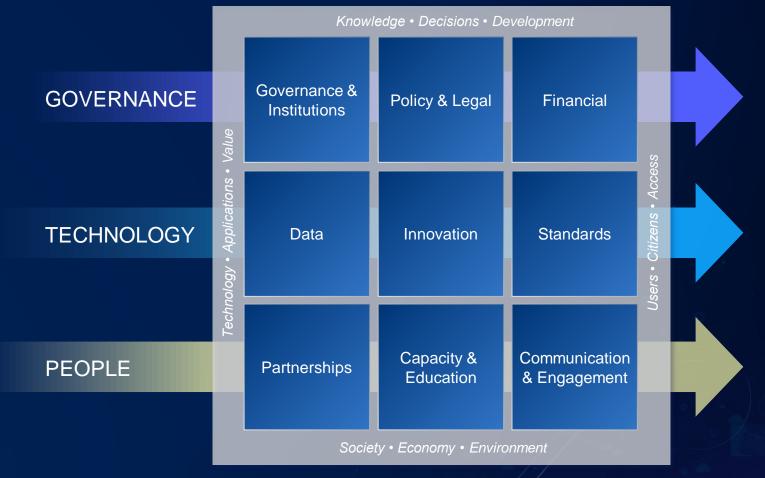




### **UNGGIM** – Integrated Geospatial Information Framework

A Framework for Implementing Modern SDI

The Integrated Geospatial Information Framework provides a basis and guide for developing, integrating, and strengthening geospatial information management.



9 Strategic Pathways

### Esri Alignment and Support for UN-GGIM IGIF



Esri Alignment and Support for the UN-GGIM Integrated Geospatial Information Framework (IGIF)

380 New York Street Redlands, California 92373-8100 uss 909 793 2853 info@esri.com esri.com

esri de esri

October, 2021

Specifically, Esri provides governments with:

- Integrated, interoperable geospatial technology
- Focused programs and partnerships
- Resources to support user success



### Strategic Pathways #1–3

#### Esri Consulting

- Geospatial Strategy & Roadmap
- Executive Consulting & Change Management
- Data Sharing Agreements
- SDI Consulting

#### Esri Partner Network

A network of organizations that deliver solutions, content and services



# Strategic Pathway #4 Data

#### Data Acquisition and Management:

Data Agnostic Multiple Data Collection Pathways (mobile, drone, imagery, GeoAI, etc.) Industry Templates, Data Models, & Workflows Open Data

#### Data Access:

Living Atlas of the World & Esri Marketplace

- Global Base Maps
- Imagery
- Demographic Data



### Foundation Data

### Fundamental Data Themes



Geodetic Reference Frame **Geographical Names** Addresses **Functional Area** Settlements Land Parcels Transport Networks Elevation/Depth Population Distribution Land Cover/Use Geology/Soils Physical Infrastructure Imagery Water

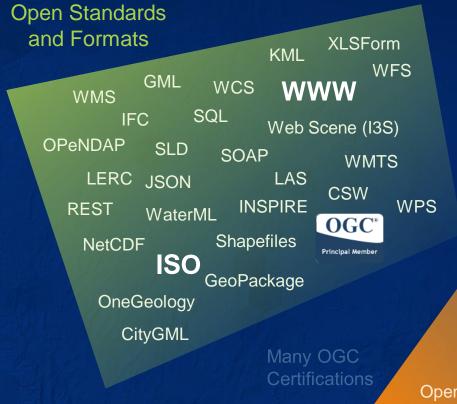
Source: https://ggim.un.org/documents/E-C20-2018-7-Add\_1-Global-fundamental-geospatial-data-themes.pdf

Strategic Pathway #5 Innovation

> Esri invests more than 30% of its annual revenue back into Research and Development each year...



## Strategic Pathway #6 Standards



#### Product Integration **MS** Office Adobe Creative Cloud **SharePoint** Azure SQL Server Jupyter Notebooks Power BI Teradata Netezza R AWS Python **AutoCAD** SAP HANA IBM Cognos Oracle

#### Open Software

Open Data Access Open APIs & SDKs

Extensible Architecture Embeddable Components

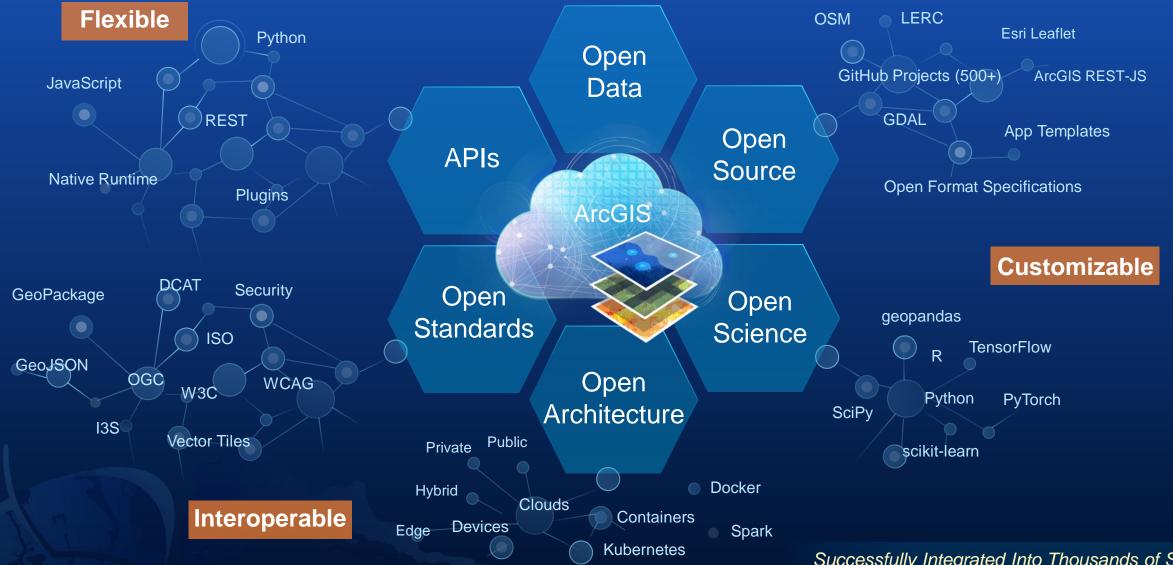
Open-Source Contributions (500+) Open-Source Integration Data Interoperability

Legal Interoperability/

Semantic Interoperability

> Technical Interoperability

### ArcGIS provides an Open Platform



Successfully Integrated Into Thousands of Systems

### Strategic Pathway #7

### Partnerships

### Partnership Opportunities:

User Community for Geospatial Authorities & NGEF

Modernization Programs (Land Administration, Health, and Official Statistics)

SDG Grants

Esri NonProfit Organization Program

Esri User Conference

Regional GeoPortals



### Esri Modernization Programs

### Land Administration Modernization Program

Providing GIS tools & training for resource constrained countries

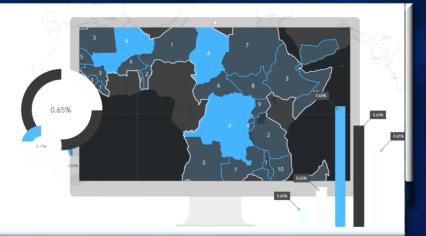


### **Official Statistics**

Modernization Program

Providing GIS tools & training for resource constrained countries

Apply Now  $\rightarrow$ 



# Strategic Pathway #8 Capacity and Education

#### **Education Opportunities:**

Learn.ArcGIS MOOCs & Learn Lessons Esri MeetUps Young Professionals Network GIS Personal Use Licenses ArcGIS for Schools Program (K – 12) Higher Education Program



# Strategic Pathway #9 Communication and Engagement

Hub Initiatives Open Data Surveys and Feedback Dashboards and StoryMaps Events Regional GeoPortals Esri Maps for Public Policy GeoNet

Engagement Strategies Stakeholder Identification Planning and Execution Monitoring and Evaluation

Integrated

# esri

Advancing GIS Technology & The Science of Geography

#### Engineering and Science Focused

Strong and Growing

Helping Organizations Apply Geographic Thinking . Working Together to Make a Difference