



National Geospatial Infrastructure A Global Partnership Perspective

Deirdre Dalpiaz Bishop
Chief, Geography Division
U.S. Census Bureau

U.S. Legislation: Geospatial Data Act of 2018 (43 U.S.C. 46)

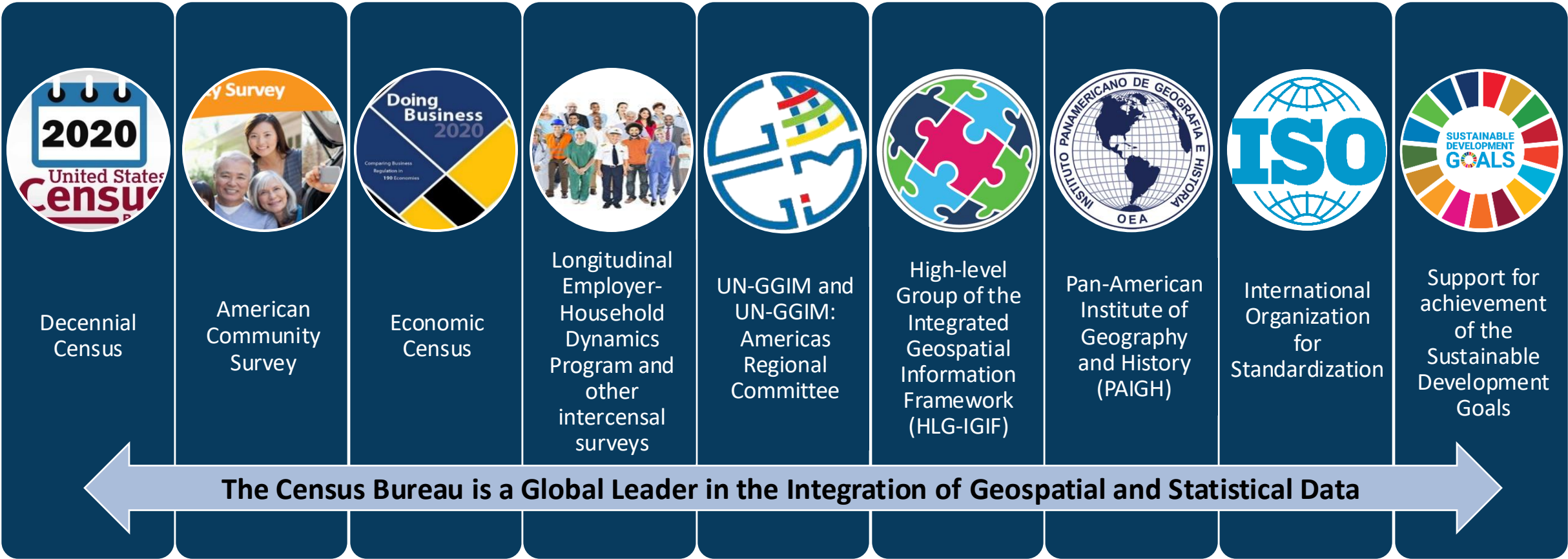
Defines the National Spatial Data Infrastructure in the United States as:

“the technology, policies, criteria, standards, and employees necessary to promote geospatial data sharing throughout the Federal, Tribal, State, and local governments, and the private sector (including nonprofit organizations and institutions of higher education).”

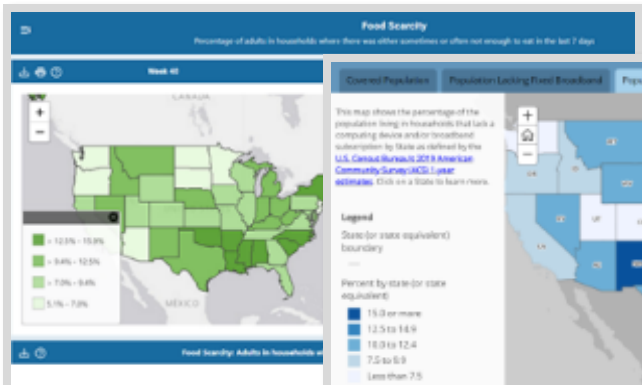
Requires:

1. Interagency committee to be known as the Federal Geographic Data Committee.
2. National Geospatial Advisory Committee.
3. The National Spatial Data Infrastructure shall ensure that geospatial data from multiple sources is available and easily integrated to enhance the understanding of the physical and cultural world.
4. National Geospatial Data Asset data themes serve as the primary topics and subjects for which the coordinated development, maintenance, and dissemination of geospatial data will benefit the Federal Government and the interests of the people of the United States.

Integrating Geospatial and Statistical Data

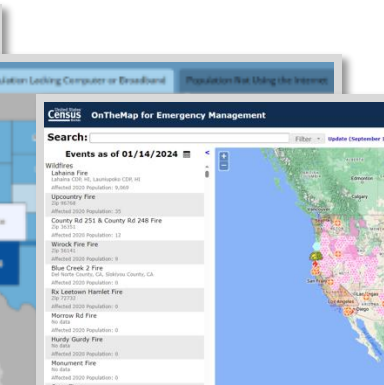


Integrating Geospatial and Statistical Data




Household Pulse Survey Interactive Tool

An interactive application for exploring data from the Pulse Survey.



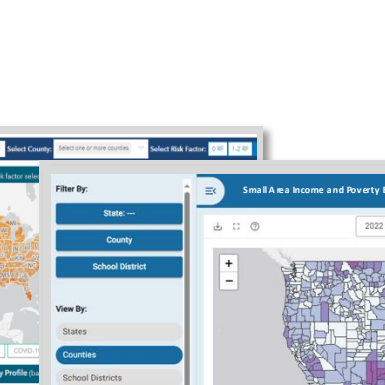
Digital Equity Act Viewer

Interactive collection highlighting various demographic broadband internet adoption by state.



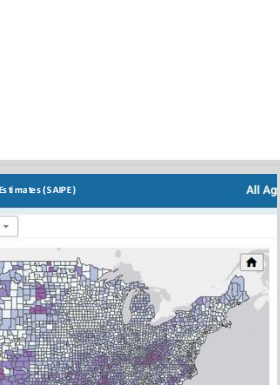
OnTheMap for Emergency Management

OnTheMap for Emergency Management combines analysis tools with data on events gathered from various federal agencies.



Community Resilience Estimates

The Community Resilience Estimates (CRE) provide an easily understood metric for how at-risk every neighborhood in the United States is to the impacts of disasters, including COVID-19.

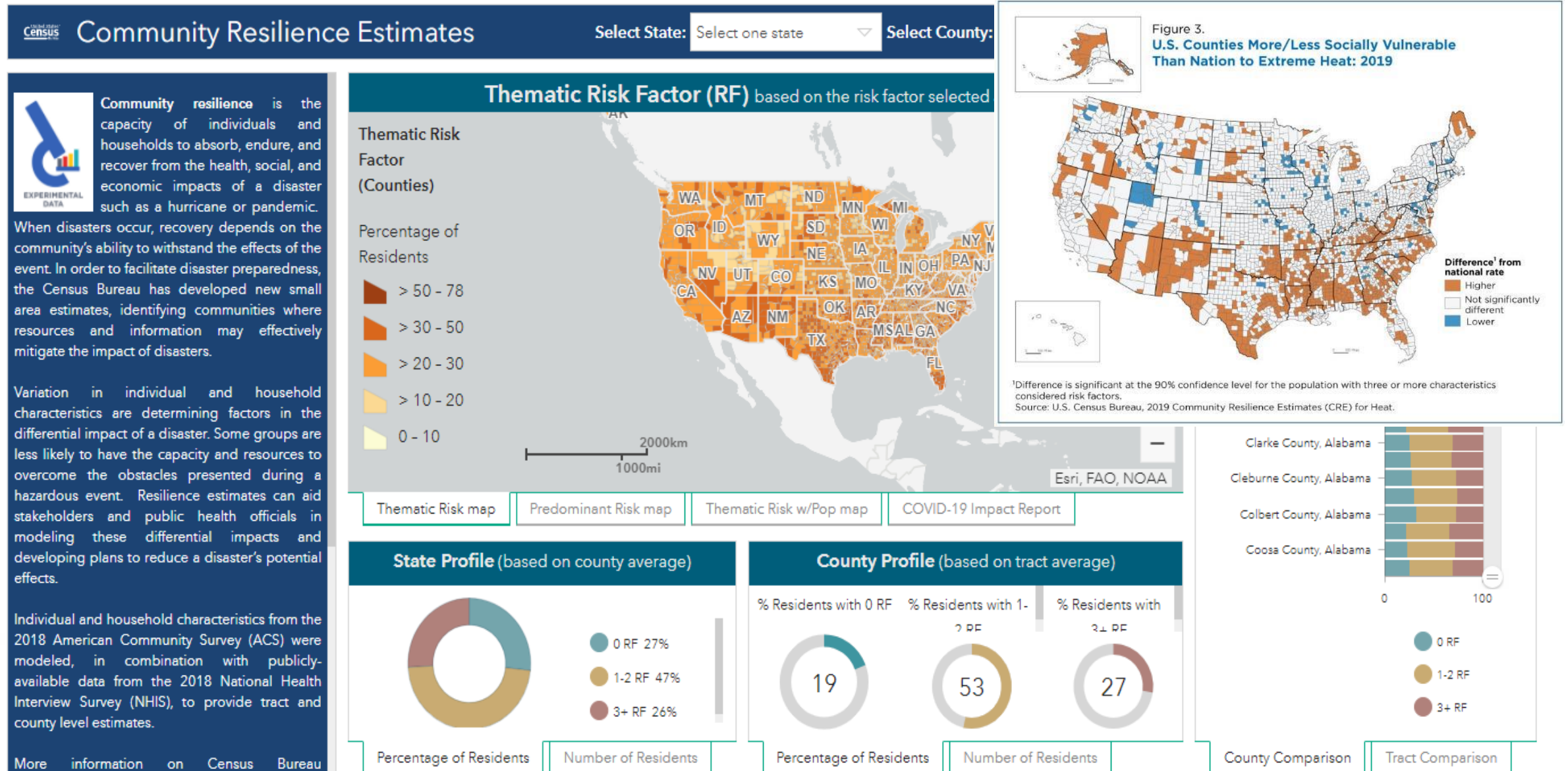


SAIPE Interactive Data Tool (Poverty)

The Small Area Income and Poverty Estimates (SAIPE) map viewer provides the ability to quickly and easily view small-area modeled data in map form.

What is Community Resilience?

Measuring Community Resilience



Francis Scott Key Bridge Collapse



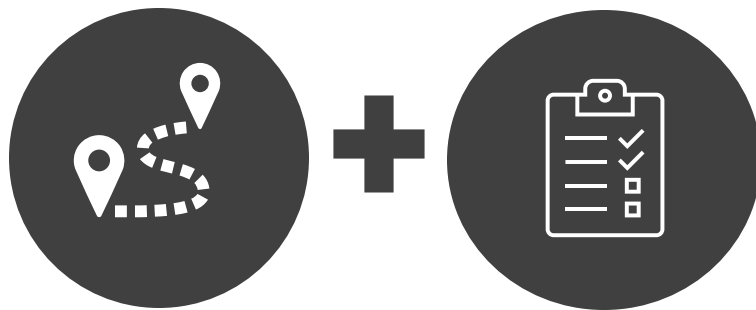
Roadmap

Route Analysis for Disaster Management And Preparedness

Part of the broader Community Resilience Estimates program, this method uses **road network data** to plot driving, walking or other **transportation routes** to assist members of the public and government partners in emergency management.

Transportation routes

Census data



United States[®]
Census
Bureau

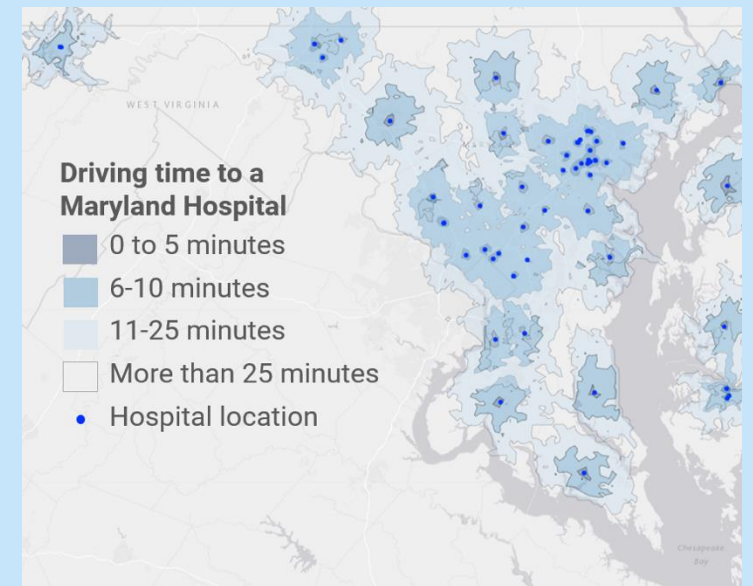
Transportation Routes

Following the collapse of the Key Bridge in Baltimore, analysts identified a subset of American Community Survey respondents who likely drove over the bridge as part of their regular commute to work. This was accomplished by **plotting the likely driving route to work for every car-commuting ACS respondent** who lived or worked in Baltimore city or County. This revealed distinct sociodemographic differences between bridge and non-bridge commuters.



Critical Infrastructure

This method can be used to identify catchment areas for critical infrastructure. In this analysis, shaded areas represent driving times to the nearest hospital in the state of Maryland. The same analysis could be applied to any set of geographic points such as shelters or community cooling centers during heat waves. For disaster route contingency planning, the underlying map data can be transformed to simulate when key road networks are altered.



U.S. NSDI Strategic Plan 2025 - 2035

Vision: A seamlessly interconnected national geospatial ecosystem.

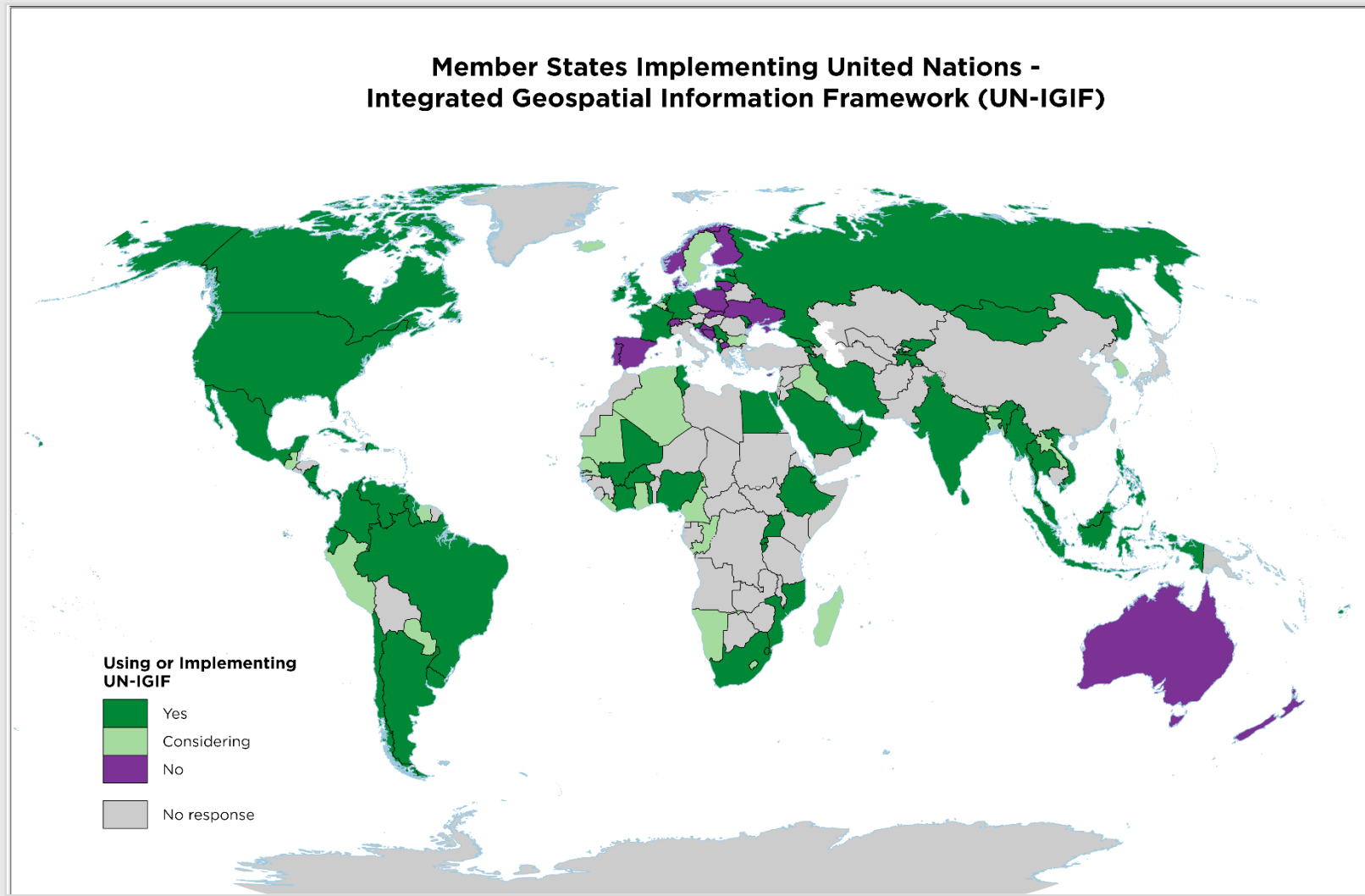
Mission: Deliver highly responsive, timely, dependable, and interoperable geospatial data, applications, and services that provide knowledge on demand and actionable insights to inform decisions and address local, regional, national, and global challenges and benefit citizens.

Goals	Objectives		
Governance: Implement National Governance	1.1 Governance and Institutions:	1.2 Policy and Legal:	1.3 Financial:
Data and Technology: Modernize the Infrastructure and Leverage Advanced Technology	2.1 Data:	2.2 Innovation:	2.3 Standards: 2.4 Infrastructure
People: Building a Skilled and Inclusive Geospatial Workforce for a Sustainable Future.	3.1. Partnerships:	3.2 Capacity and Education:	3.3 Communication and Engagement:

Alignment with the United Nations Integrated Geospatial Information Framework (UN-IGIF)



Use and Implementation of the UN-IGIF



Advancing the NSDI and UN-IGIF through Global Collaboration



Thank You

Deirdre Dalpiaz Bishop
Chief, Geography Division
U.S. Census Bureau

U.S. Department of Commerce
U.S. Census Bureau
4600 Silver Hill Rd.
Suitland, Maryland 20746

Office: 301-763-1696
deirdre.dalpiaz.bishop@census.gov

