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FEDERAL GEOGRAPHIC DATA COMMITTEE

NGAC Geospatial Technology & Infrastructure Subcommittee Report

NGAC Meeting

December 11, 2017

Geospatial Technology & Infrastructure

- **Task**: Develop products describing how geospatial technology, tools, and information can help drive smart decision-making on infrastructure priorities and investments, including:
  - Mapping and understanding infrastructure needs in the context of population, flow of commerce, jobs, and impact.
  - Working smarter in designing and executing projects.
  - Tracking, monitoring, and communicating progress and results of the investments.
- **Membership:**
  - Cy Smith (Chair), Keith Masback (Vice Chair), Talbot Brooks, Pat Cummens, Matt Gentile, Xavier Irias, Roger Mitchell, Carl Reed, Amber Reynolds

Project Outline

What	Who	By when
ID LEAD Author & writing team	Xavier Amber & Cy	Sept 7
Revise draft outline/distribute to subcommittee	Amber & Cy	F Sept 22
Comments back on Google Docs, short case studies due, validate	All	F Sept 29
Conference Call	All	F Sept 29
Draft 2/3-page document	Xavier with Amber & Cy	Oct 1 – Oct 31
Draft document distributed to subcommittee	Writing Team	Nov 1
Review and comment period	Subcommittee	Nov 1 - 17
Revise & review infographic	Pat & others	Nov 1 - 17
Conference Call	Subcommittee	M Nov 20
Distribute draft to NGAC		Dec 5
Document adopted	NGAC Meeting	Dec 11

Context

- It is acknowledged that the nation's infrastructure is in disrepair, which hurts the national economy and diminishes public safety.

- There will likely be some effort in the next year or so to fund significant infrastructure development and maintenance.

Introduction

- Infrastructure investments are often made without full understanding of the interdependencies between the various types of infrastructure.
- The lack of understanding results in inefficient infrastructure investments.
- Geospatial data and technology can help provide understanding and coordination to guide infrastructure investments.

Opportunity

- Collaboration across infrastructure sectors to create smarter communities will lower costs and improve quality of life.
- Geospatial technologies and data are vital to effective infrastructure management.

Anytown Example

- Cities rely on well designed, interrelated infrastructure.
- Geospatial technologies, such as 3D modeling and others, enable planning, design, construction, and maintenance of such complex, interrelated systems.

Challenges

- Coordination between and among government agencies and private sector infrastructure owners/operators is difficult.
- Funding the consistent use of geospatial technology has not been a priority.

Path Forward

- Support foundational data
- Promote data standards and data sharing
- Use geospatial data and tools to plan, manage, and track national infrastructure initiatives
- Authorize geospatial data and tools as allowable grant expenditures
- Modernize governance of geospatial data nationally

Next Steps

- Finalize the approved document
  - Revise based on any feedback at the Dec. 11 meeting
  - Clean up formatting and evaluate visualization of 2-pager
  - Insert new graphic for Anytown or get permission for existing one
- Produce one-page infographic to accompany 2-pager
- Overall statistics that may be helpful in an infographic -
  - Infrastructure overview – A network derailed https://storymaps.esri.com/stories/2017/transportation/index.html
  - Dams https://storymaps.esri.com/stories/2017/big-dams/