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

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