

Federal Geographic Data Committee/ National Geospatial Advisory Committee

Geospatial Privacy Briefing

CIO Council Privacy Subcommittee Meeting February 19, 2015

Overview

Introductions

- FGDC:
 - Ivan DeLoatch FGDC Executive Director
 - John Mahoney FGDC Senior Policy Advisor
- NGAC:
 - Kevin Pomfret Executive Director, Centre for Spatial Law and Policy
 - Doug Richardson Executive Director, Association of American Geographers
- Geospatial Privacy
 - Key Points
 - Issues to Consider
- Conclusion
 - Discussion/Next Steps



Federal Geographic Data Committee

- Established by OMB, Chaired by DOI
 - 32 member agencies
 - Advances the National Spatial Data Infrastructure (NSDI)
 - Implements OMB Circular A-16 and Executive Order 12906
- Key Activities:

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- NSDI Implementation
- National Geospatial Data Asset (NGDA) Management
- Geospatial Platform Implementation
- Geospatial Standards & Metadata
- Partnerships & Collaboration



NGDA Management

Shared Services

National Geospatial Advisory Committee

A Report of the

January 2012

aut Practices

FACA Advisory Body

- Sponsored by DOI, reports to FGDC Chair
- Balanced membership 30 members from all levels of government, private sector, non-profits, academia
- Roles & mission
 - Provides advice and recommendations on National geospatial policy & management issues

Current Activities

- **NSDI** Outreach/Communications
- **Geospatial Privacy**
- Crowd-sourced Geospatial Data
- Landsat program
- **Elevation Data**



NGAC Products



Geospatial Technology and Information

Key Points:

- Geoinformation is critical to a wide variety of governmental, business, and societal needs – from homeland security to climate change, social networking, transportation, natural resource management, and many other purposes.
- Geospatial technology and services sector is a growing and important factor in the U.S. & global economies, driving significant benefits and providing highwage jobs.
- A 2012 study* estimated the U.S. geospatial industry generated approximately \$73 billion in revenues and comprises over 500,000 high-wage jobs.
- U.S. Department of Labor recently identified the geospatial technology sector as one of the three technology areas that would create the greatest number of new jobs over the next decade.
- Geospatial data is often collected (and utilized) through partnerships involving multiple levels of government and other organizations



Perceptions of Privacy are Changing...

St. Peter's Square – 2005



Luca Bruno/AP



... Creating a Location Privacy Paradox

St. Peter's Square – 2013

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Michael Sohn/AP

Federal Government Increasingly Focusing on Geolocation Privacy

- White House released two "Big Data" reports in May 2014
- President's Council of Advisors on Science and Technology (PCAST) report:
 - Describes various types of geospatial technologies that collect born-analog data that contain "personal information"
 - The geospatial community relies on many of these for their products and services, including:
 - video from . . . overhead drones
 - imaging infrared video
 - synthetic aperture radar (SAR)
 - LiDAR, "precise geolocation in imagery from satellites and drones"



Federal Focus (cont'd)

US v. Quartavarious Davis (11th Cir.)

- Court finds reasonable expectation of privacy in cell phone location data
- AP reports that US Government health care website "leaks" personal information:
 - "The scope of what is disclosed or how it might be used was not immediately clear, but it can include age, income, <u>ZIP code</u>, whether a person smokes, and if a person is pregnant".



Considerations: Geolocation Privacy Is Difficult to Define

- Federal Trade Commission (FTC)
 - Geolocation information is "sensitive" but not defined
 - Children's Online Privacy Protection Act Recent amendment included "geolocation information sufficient to identify street name and name of a city or town" as protected information.
- Department of Energy
 - Proposed Voluntary Code of Conduct for Smart Grid
 - Protect "[a]all geographic subdivisions smaller than a state, including street address, city, county, precinct, census block, zip code, and their equivalent geo-codes";
- Federal Court Cases
 - <u>US v. Jones</u> Does using a device to track a suspect in public places for 30 days violate 4th Amendment?
 - "Mosaic" theory collection of location information over time



Considerations: Geoinformation is More Ubiquitous

Geoinformation is collected (or can be inferred) directly and indirectly, from many different sources and through a variety of means (sensors)

- Each time we go out in public, we share our location to strangers
- We would never disclose credit card information or medical records to them
- Can we regulate some collections but not others?

tadc

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Considerations: Fragile Ecosystem

Government, industry and citizens are both providers and users of geoinformation

- They all collect, use and share geoinformation, often simultaneously
- Government relies upon private sector and increasingly the crowd to provide critical geoinformation
- Laws, policies, etc. that impact one segment will have a ripple effect throughout the entire geospatial ecosystem

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Other Unique Characteristics of Geolocation From a Privacy Perspective

- Temporal component of geoinformation is often more important from a privacy perspective
- Location privacy concerns vary based upon age, gender, religion, culture, etc.
- Perceived privacy concerns involving geolocation information are much more varied
 - Range from stalking to spam texting



Concerns of Geospatial Community

- Embedded geospatial technologies and data are critical to existing and future functioning of the public sector, industry, and commerce
- Geospatial products and services are increasingly created using geospatial data from a variety of sources (Federal, State, local, Tribal, industry, crowd-sourced, etc.)
 - Different definitions of protected "geoinformation" will make it difficult and expensive to aggregate varying data sets.
- Regulatory or statutory changes affecting geospatial privacy, if not carefully crafted, could have significant adverse impacts
- Geospatial community has not been actively involved in policy discussions related to geospatial privacy



Conclusions/Next Steps

- Geospatial privacy is an emerging issue needing collaboration & dialogue between privacy & geospatial communities
- Privacy community utilize FGDC/NGAC as a resource for input/reaction on geospatial privacy issues
- Identify points of contact in respective organizations
- Identify follow-up study questions/additional information needed
- FGDC/NGAC glad to brief individual agencies on geo privacy issues
- Invite CIOC privacy subcommittee to meet with FGDC



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