

Intellectual Property Rights and Data Quality Issues Associated with Geospatial Information

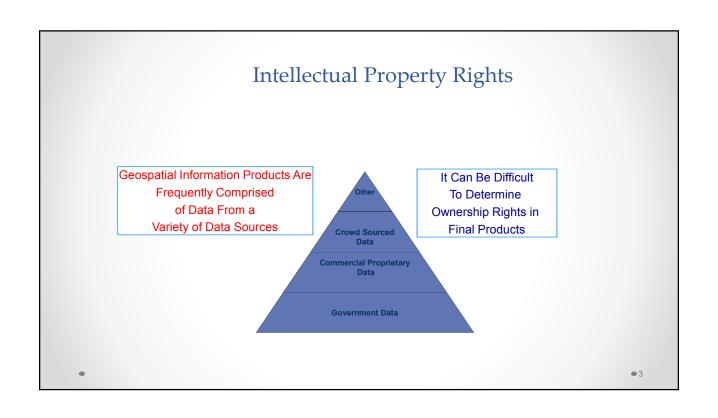
International Workshop on Legal and Policy Frameworks for Geospatial Information

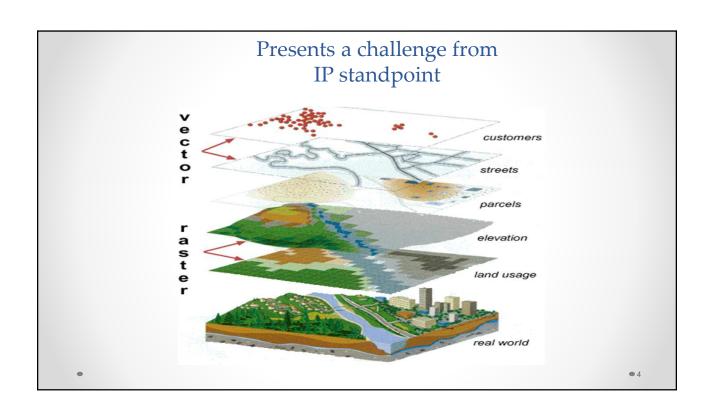


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Objectives

- Understand the key legal issues in a geospatial information license.
- Understand key legal and operational risks associated with geospatial information licenses.
- Understand how these risks can be addressed in geospatial information license agreements.





Complexity of Products/Services

- Geospatial information products/services frequently include a mixture of data sources:
 - o Government
 - o Commercial Proprietary Sources
 - Many types of licensing arrangements
 - o The "Crowd"
- Have to abide by all legal and contractual obligations.
- Obligations are not always clear or evident.

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Copyright Issues (databases)

- Data is very different from software with respect to copyright
 - Hard to protect databases through copyright protection
 - o Some jurisdictions protect intellectual property rights in databases
- "Very serious copyright issues around places databases"

Eric Schmidt,
Chief Executive Officer
Google, Inc.
(attributed to)

- Important cases:
 - o Feist Publications v. Rural Telephone Service, Co. 111 S Ct. 1281 (1991)
 - Telstra Corporation Limited v Phone Directories Company Pty Ltd [2010]
 FCA 44 (2010)
 - European Database cases

Copyright Issues (maps)

- · Maps (see e.g.)
 - Mason v. Montgomery 967 F.2d 135 (5th Cir. 1992)
 - Action was brought for infringement of copyright in land ownership maps based on United States geological survey maps.
 - o Addressed "merger doctrine"
 - o "Although the competitors' maps and Mason's maps embody the same idea in the placement, they differ in the placement, size and dimensions of numerous surveys, tracts and other features."
 - o "The record also contains affidavits...the differences between Mason's maps and those of competitors are the natural result of each mapmaker's selection of sources, interpretation of those sources."

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Challenges

- As visualization applications become more common, questions of infringement will increase.
- Can be difficult to combine free and open data with proprietary data protected by copyright.
- Will this impact value of geospatial information?

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Other Considerations

- Derivative products
 - o What constitutes a derivative product?
- Meta Data
 - o Great importance to geospatial information
 - Impacts data quality
 - o What is geospatial information meta data from a legal standpoint?
 - Part of product/service?
 - Documentation?
 - o How is it accounted for in legal documents?
 - In description of what is being licensed?
 - In representations and warranties?
 - In indemnification language?

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What Can Data Providers Do?

- Geospatial Information Audits
 - Vendor and supply agreements
- Education
 - o User conferences, etc.
 - Websites
- Clearly Define Rights in Agreement
 - o Licensed Geospatial Information
 - o Metadata

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But Data Set May Not Be Suitable For All Purposes

- The quality of data required for a particular application varies:
 - Accuracy
 - o Completeness
 - o Timeliness
 - o Currency
- How to allocate risk between parties?
 - Contract
 - o Legislation
 - o Insurance
 - Courts

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Satellite Navigation Devices

- According to 2009 study "2% of British drivers crashed or nearly crashed because of sat-nav device
- Another 18% claimed satnav "reduced their awareness" while driving
- Questions to consider:
 - o How accurate must the data be?
 - o How timely must the data be?
 - o How often should data be updated?
 - o Is having a voice telling you to turn different than reading a map?
 - o Who decides?

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Satellite Navigation Marketing: Raising Consumer Expectations

- Helps You Avoid Traffic
- Will Save You On Gas
- "Arrive Safely on Time... Every time"
- "May Everyone, Everywhere Find Their Way"
 TomTom Commercial

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Response of Geospatial Community

- Fault lies with driver
- Drivers need to use "common sense"
- Shouldn't rely on GPS devices
 - "Bring a Map"
- "Isn't bringing a map because GPS might be wrong like throwing a bike in car because car might break down."

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Particularly an Issue for Consumer Products

- Consumers do not really understand geospatial technology
- Law tends to protect consumers
 - Especially for vehicles
- Plaintiffs will wait for favorable fact patterns

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Liability - Contract

- Product vs. Service?
 - o Uniform Commercial Code
- Express warranties
 - o Are there industry standards?
- Implied warranties
 - Merchantability "goods must be at least of average quality, properly packaged and labeled, and fit for the ordinary purposes they are intended to serve"
 - <u>Fitness for a particular purpose</u> "if the seller knows the purpose for which the goods are to be used, the seller impliedly warrants that the goods being sold are suitable for that specific purpose"

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Liability - Negligence

- Causes of Action
 - Duty of care ordinary prudent person
 - oBreach of duty
 - Causation
 - Damages

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Liability - Product Liability

- Aetna Casualty and Surety Co. v. Jeppesen & Co., 642 F.2d 339 (9th Cir. 1981)
 - The "defect" in the chart was that the graphic depiction of the profile, which covers a distance of three miles from the airport, appears to be drawn to the same scale as the graphic depiction of the plan, which covers a distance of 15 miles.
 - "While the information conveyed in words and figures ...was completely correct, the purpose of the chart was to translate this information into a instantly understandable graphic representation"
 - o "It was reliance on this graphic portrayal that Jeppesen invited"

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Location Based Services

- Authentication
 - o Banks linking debit cards with cell phone locations
 - o "geofencing"
- Falsifying location is possible
 - o Foursquare false check-ins
- Future applications will require even a greater degree of accuracy, timeliness and completeness
 - Authentication
 - o Autonomous Vehicles
 - o Insurance

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Other Examples

- Data Quality Issues
 - o Garmin recalls maps due to inaccurate indications of water depth
 - Columbia Venture LLC v. Dewberry & Davis, 604 F.3d 924 (4th Cir.2010)
 - Hydrographic model flawed and inaccurate
 - Professional malpractice, civil conspiracy, injurious falsehood and violation of Unfair Trade Practices Act
- Human Factor
 - Georgia contractor destroys wrong house using GPS coordinates rather than street address
 - Proposed legislation in New York
 - Fine for truck drivers if use GPS device and hit bridge

Where Are We Going?

- Future applications will include geospatial information wider sources
 - o Crowdsourcing
 - o Internet of Things
 - o Smart Grid
- Future applications will require even a greater degree of accuracy, timeliness and completeness
 - Authentication
 - o Autonomous Vehicles
 - o Insurance
- Increases risks of error and damages

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What Organizations Can Do

- Use of Standards
- Internal Procedures
 - Quality Control/Quality Assurance
- Contract
 - Allocation of risk
 - o Indemnification
- Insurance
 - o What Are You Insuring Against?

Discussion

 How important are concerns over intellectual property rights and data quality to your organization?