



Intellectual Property Rights and Data Quality Issues Associated with Geospatial Information

International Workshop
on Legal and Policy Frameworks
for Geospatial Information

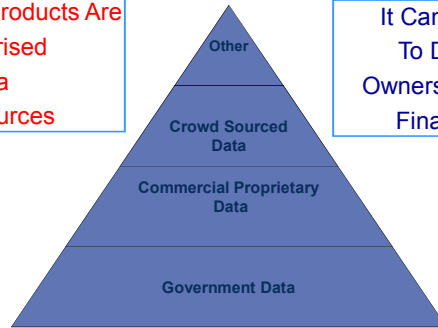


Objectives

- 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.

Intellectual Property Rights

Geospatial Information Products Are Frequently Comprised of Data From a Variety of Data Sources

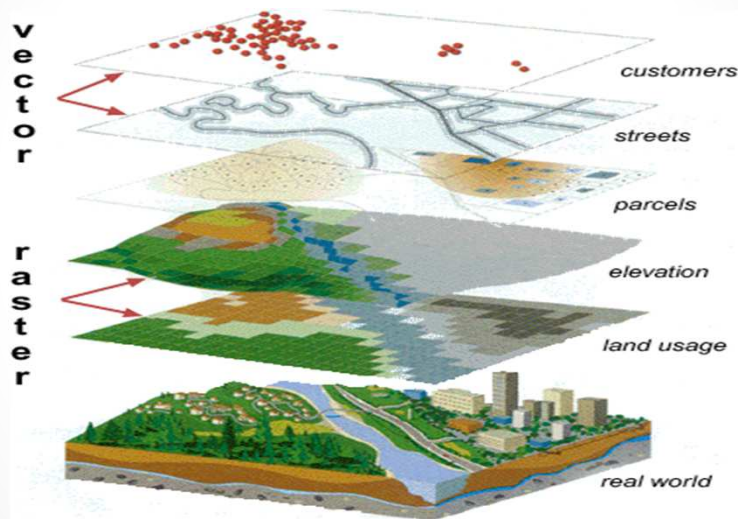


It Can Be Difficult To Determine Ownership Rights in Final Products

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Presents a challenge from IP standpoint



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Complexity of Products/Services

- Geospatial information products/services frequently include a mixture of data sources:
 - Government
 - Commercial Proprietary Sources
 - Many types of licensing arrangements
 - 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
 - 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:
 - 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

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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.
 - Addressed “merger doctrine”
 - “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.”
 - “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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Nike Used OpenStreetMap Data



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Other Considerations

- Derivative products
 - What constitutes a derivative product?
- Meta Data
 - Great importance to geospatial information
 - Impacts data quality
 - What is geospatial information meta data from a legal standpoint?
 - Part of product/service?
 - Documentation?
 - 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
 - User conferences, etc.
 - Websites
- Clearly Define Rights in Agreement
 - Licensed Geospatial Information
 - Metadata

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Geospatial Information is Versatile

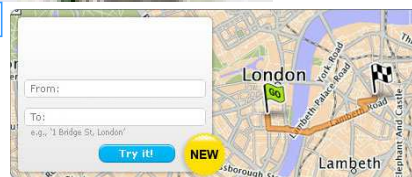


Urban Planning



SatNav Devices

Location Based Services



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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
 - Completeness
 - Timeliness
 - Currency
- How to allocate risk between parties?
 - Contract
 - Legislation
 - 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:
 - How accurate must the data be?
 - How timely must the data be?
 - How often should data be updated?
 - Is having a voice telling you to turn different than reading a map?
 - 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?
 - Uniform Commercial Code
- Express warranties
 - 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**”
 - Fitness for a particular purpose – “**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
 - Breach 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”
 - “It was reliance on this graphic portrayal that Jeppesen invited”

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Location Based Services

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

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Other Examples

- Data Quality Issues
 - 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

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Where Are We Going?

- Future applications will include geospatial information wider sources
 - Crowdsourcing
 - Internet of Things
 - Smart Grid
- Future applications will require even a greater degree of accuracy, timeliness and completeness
 - Authentication
 - Autonomous Vehicles
 - 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
 - Indemnification
- Insurance
 - What Are You Insuring Against?

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Discussion

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