

Emerging technologies and the impact of legal and policy frameworks on access, sharing and use of geospatial information

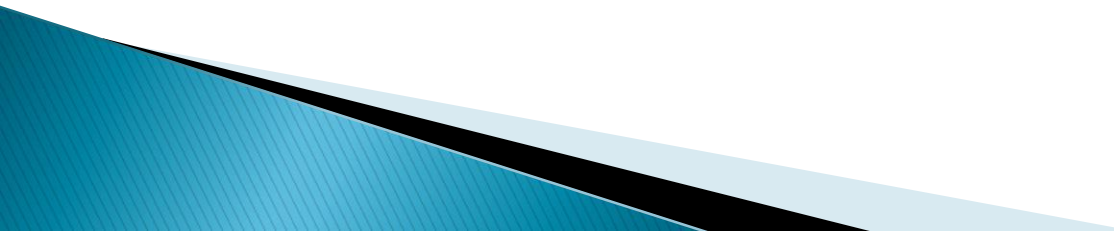
World Geospatial Information Congress



Centre For Spatial Law and Policy

- Educate governments and businesses on current legal and policy environment with regards to location and other types of spatial data.
- Advocate development of consistent and transparent policy and legal frameworks for collection, use and distribution of spatial data.
- Identify solutions to legal and policy issues that limit the sharing of spatial data for critical transnational issues.
 - Climate change
 - Disaster response
 - Tracking spread of infectious disease

Agenda

- Key legal issues in geospatial law
 - Impact of new collection technologies on legal and policy frameworks
 - Impact of new analytical/visualization tools on legal and policy frameworks
 - Example: Data protection/privacy
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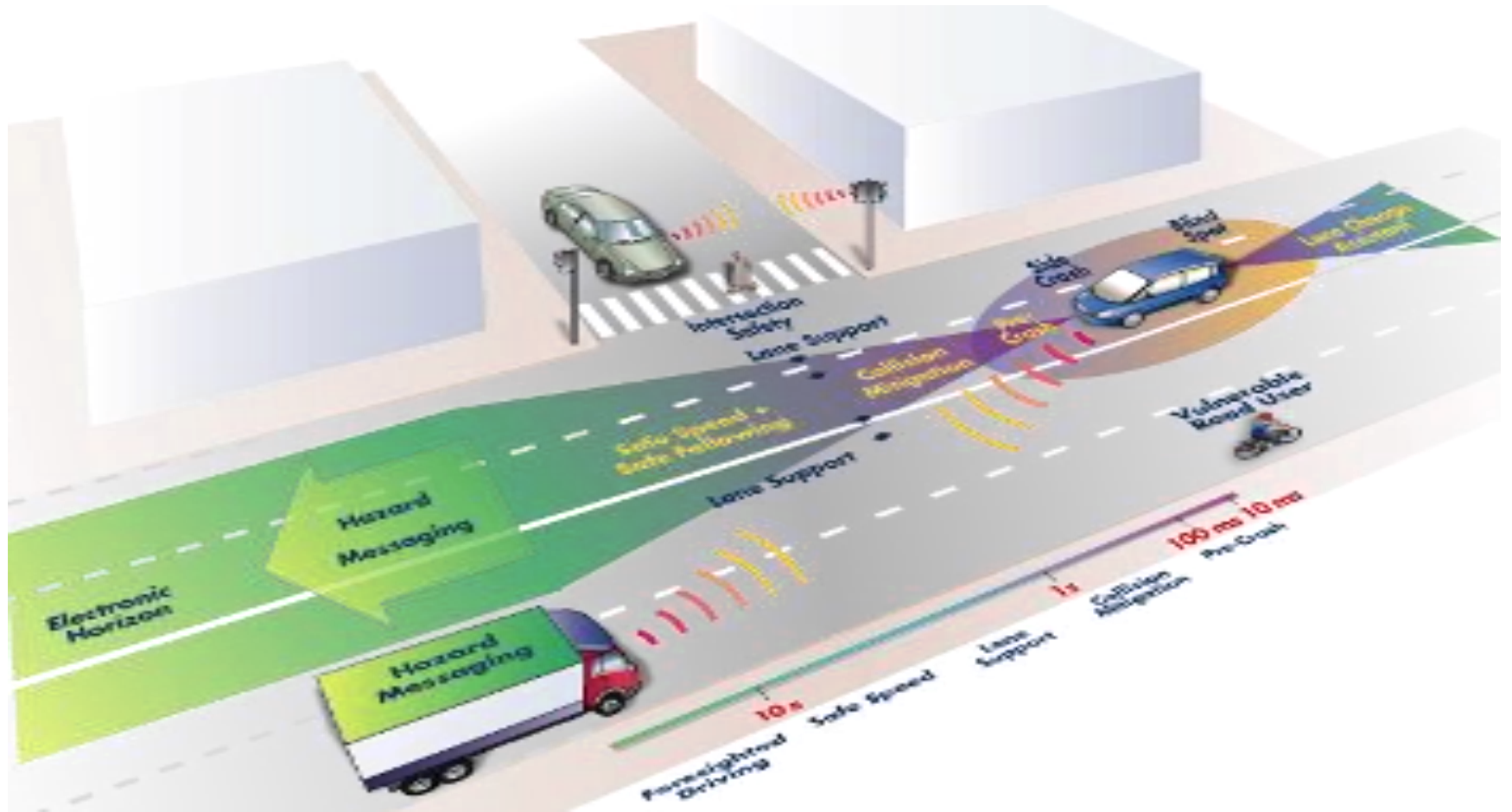
Key Legal and Policy Issues

- Intellectual Property Rights
 - Data Protection/Privacy
 - Data Quality/Liability
 - National Security
 - Platform/Industry Specific Regulations
 - Licensing/Data Sharing
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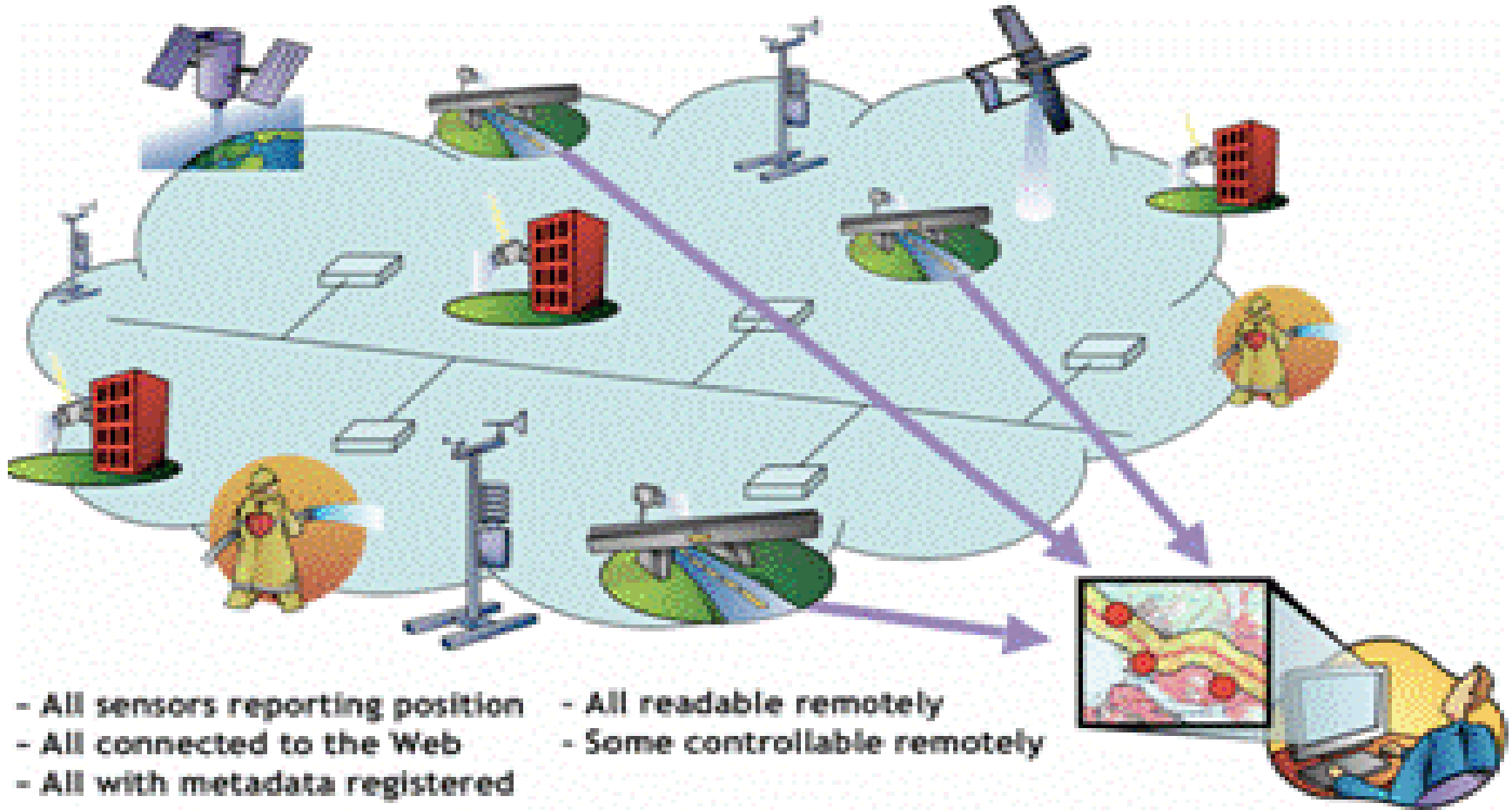
Unmanned Aircraft Systems



Autonomous Vehicles



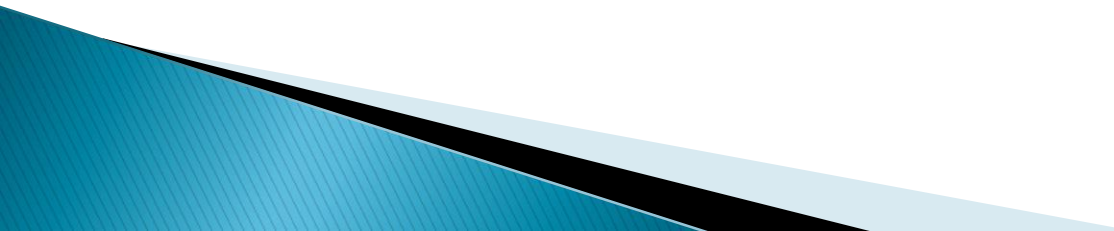
Internet of Things



Crowdsourcing



As Are Technologies that Analyze Data

- Growing number of technologies that can process, aggregate, analyze and visualize Big Data.
 - Exponentially increases the value of each piece of data.
 - Much of this work goes on behind the scenes and only comes to light when either:
 - Something goes wrong
 - There is a report in the media
 - Applications for data are growing rapidly.
 - Legal and policy communities are unable to keep up
- 

3D Visualization



Artificial Intelligence/Machine Learning



Blockchain



Augmented/Virtual Reality



Example: Impact on Data Protection/Privacy

- There are numerous threats that must be considered:
- Misuse
 - Intentional
 - Unintentional
- Data breaches
 - Cyberattacks
 - Human error

Perceptions of Privacy are Changing...

St. Peter's Square – 2005



Luca
Bruno/AP

...Creating a Privacy Paradox

St. Peter's Square – 2013



Michael
Sohn/AP

. . . Across Technology Platforms

https://techcrunch.com/2016/10/11/facebook-twitter-cut-off-data-access-for-geofeedia-a-social-media-surveillance-startup/

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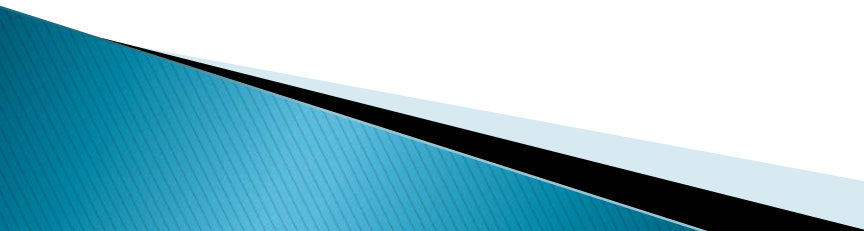
Crunchbase

9:27 PM 12/6/2016

Strava Heat Map



General Data Protection Regulation

- ▶ Came into effect on May 25, 2018
 - ▶ Replaced a Directive – more teeth
 - ▶ Based upon “controllers” and “processors”
 - Data Processing Agreements
 - ▶ Significant penalties for failure – up to 4% of turnover
 - ▶ Grants data subjects significant rights
 - Right to be forgotten
 - Right to have a copy of information
 - Right to know who information is share with/how used
 - ▶ A lot of questions remain
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Impact of New Technologies on Data Protection/Privacy

- ▶ We are struggling to understand location privacy.
 - Advancement in technology are changing expectations.
- ▶ Need to identify and weigh the true privacy risks.
 - Policy often involves trade-offs between public benefit and perceived risks.
- ▶ Location information doesn't easily fit into existing privacy protection constructs.
- ▶ Excessive regulation, conflicting and/or confusing legal and policy regimes will have a significant impact on ability of entire geospatial ecosystem to collect, use and distribute geospatial.
- ▶ Geospatial community needs to play active role in this and other legal/policy discussions.

Questions

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