

SESSION: GEOSPATIAL TECHNOLOGIES, DIRECTIONS AND STANDARDS

Speakers:

- Mark Reichardt, President & CEO, Open Geospatial Consortium
- Sanjeev Trehan, Regional Manager-Geospatial Division, SAARC, Trimble Navigation
- Srinibas Patnaik, Senior Director, SAARC, DigitalGlobe
- Dwaipayan Dighal, Regional Manager, Intergraph India
- M.Rajathurai, Technical Manager-Utilities and Mapping,
 Bentley





Easing Technology Adoption and Integration in Changing Times

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Increasing Global Complexity



- Global Change creates complex problems
- The problems cut across multiple domains
- The effects are local to regional to global in scope
- The integration of Geospatial data and information into workflows is critical to address issues such as climate change, water resource management, and smart / sustainable cities.







Thousands of Data Sources

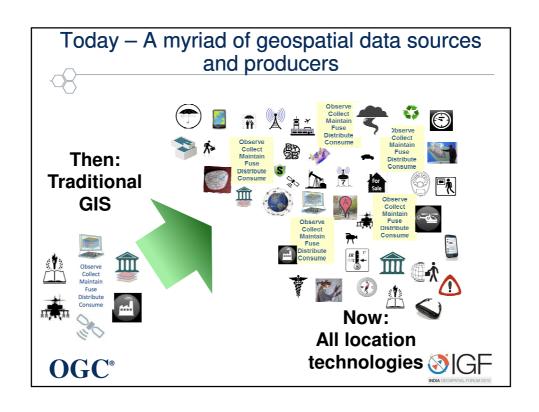


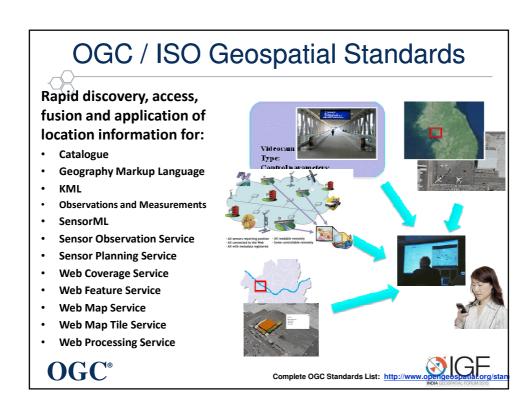
- The number of sources of GEO data is increasing geometrically, e.g
 - UAVS
 - Mobile Devices
 - Citizen Scientists
 - Increase in Space borne and airborne sensors
 - CCTVs, Flood gauges
- In many cases there are untapped resources
- · Increasing complexity

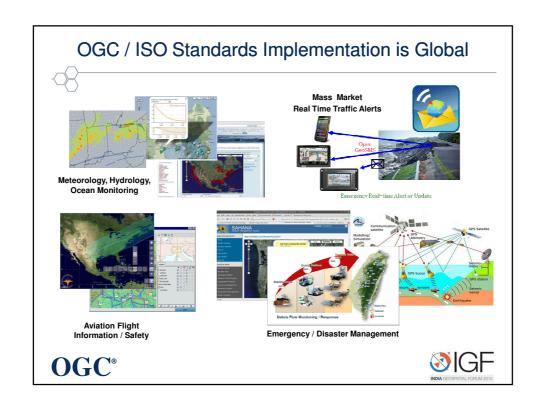








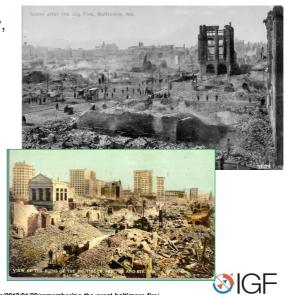




Standards Promote Interoperability



- Without interoperability, you have:
 - Missed opportunities for information sharing and improved decision making
 - Greater time and cost
 - Difficulty adding new capabilities
 - Duplication of effort





http://whatweekly.com/2013/01/30/remembering-the-great-baltimore-fire

Standards – Enabling Smart Cities Urban Resilience



- Urban Planning / Operations
- Emergency Mgt / Response
- Public Safety
- Transportation / Routing / Logistics
- Indoor navigation
- Retail Site analysis
- Sustainable / Green Communities
- City Services Management
- Noise abatement
- Telecommunications placement
- · Many other uses...



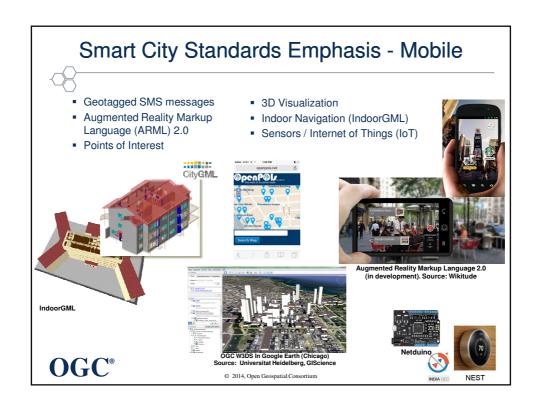
Source; Thomas Kolbe, Berlin TU





rrce: GTA Geoinformatik GmbH, www.gta-geo.de





Climate Change and Urban Vulnerability



Table 2: Top 20 cities ranked in terms of assets exposed to coastal flooding in the 2070s (including both climate change and socioeconomic change) and showing present-day exposure (Source: Nicholls et al (2007), OECD, Paris)

Source: www.oecd.org/env/cc/39721444.pdf, from "Ranking of the World's Cities Most Exposed to Coastal Flooding Today and in the Future", © OECD



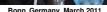
OGC Standards Program Domain Emphasis



- Hydrology
- Meteorology
- Oceanography
- Aviation
- Energy and Utilities
- Emergency & Disaster Management
- Defense & Intelligence
- Earth Systems Science Land & Infrastructure
- Security
- Data Quality
- · Big Data

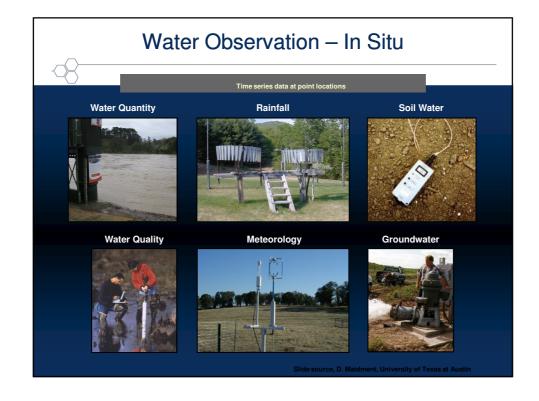
- 3D Information Mgt
- · Mass Market
- · Public Safety & Law Enforcement
- Geosemantics
- Agriculture
- Health
- Urban Planning (Smart Cities)
- · Mobile Location Services
- Temporal
- Others

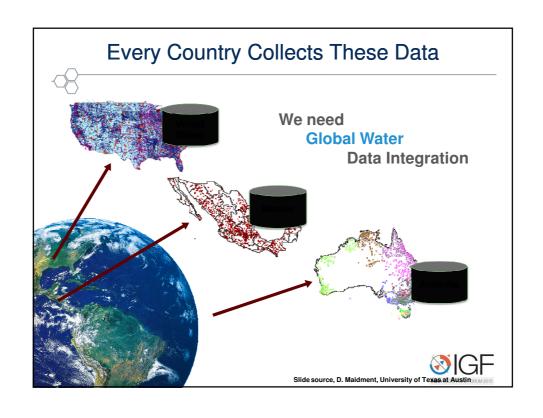


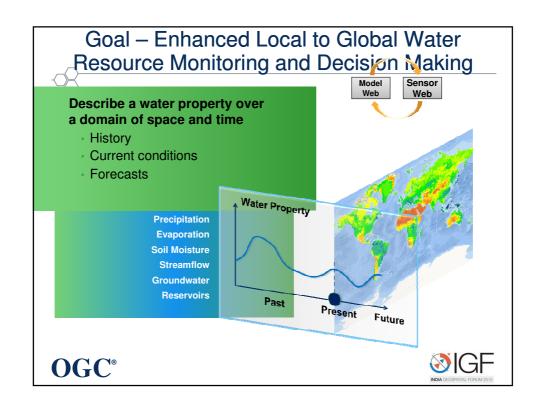


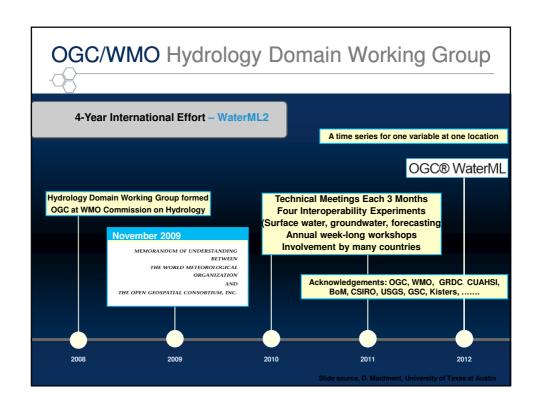


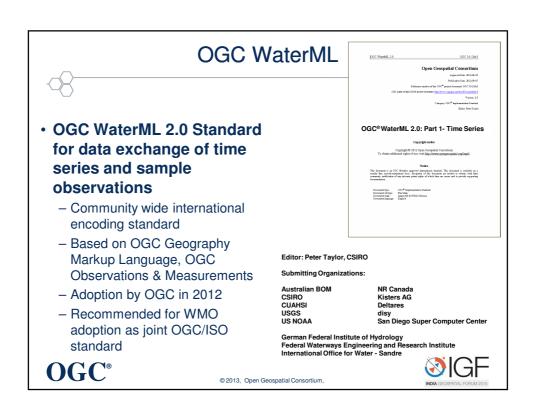


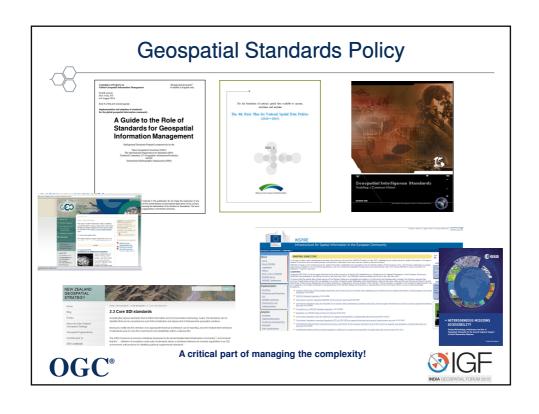


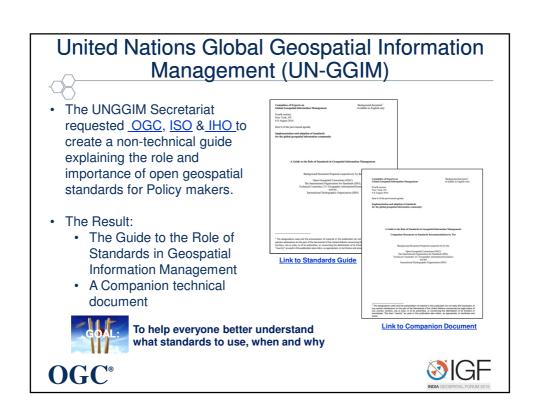


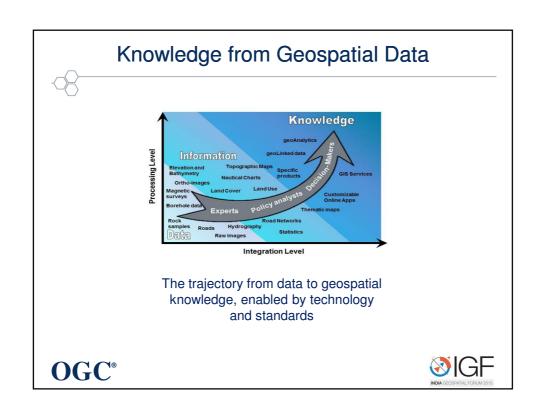


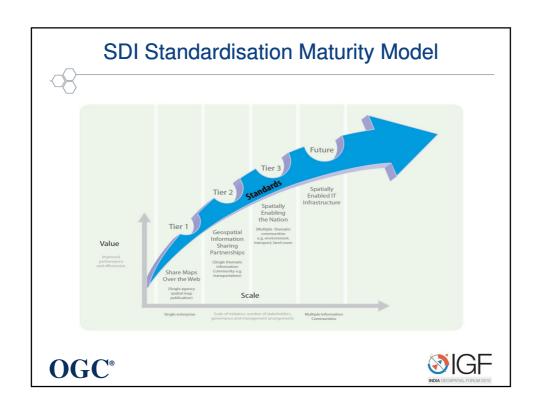


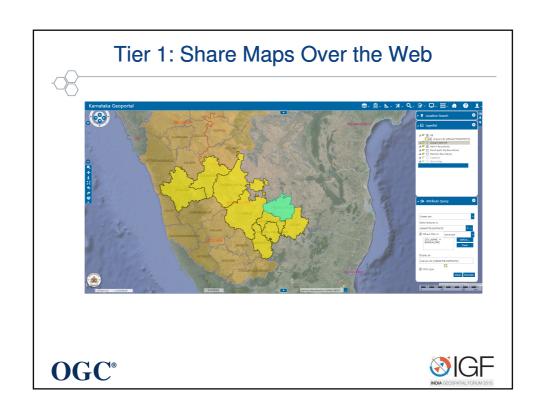




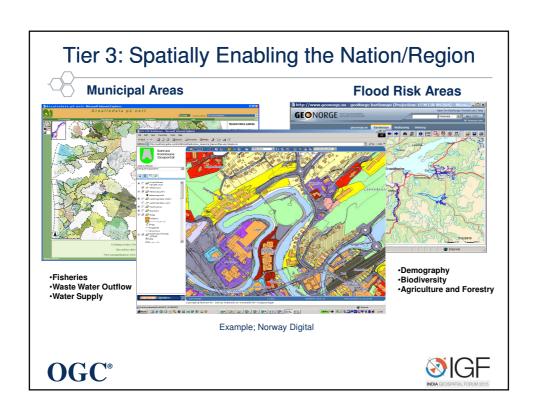


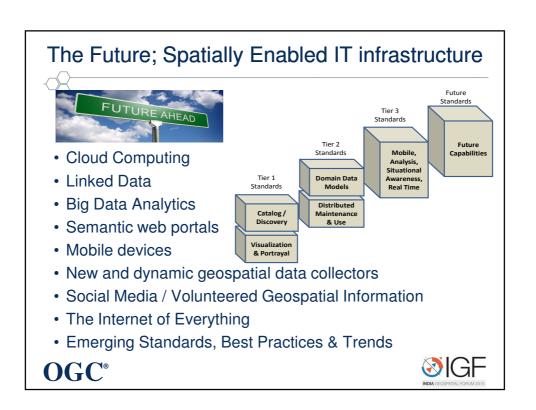














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- Megha Datta, Industry Manager-NGIOs, Geospatial Media and Communications



