Filling The Gaps

• What standards are being implemented?
  – Simple Features, WMS, SLD, FE, CS-W, WFS, WCS
• Who is implementing them?
  – EU, Canada, Australia, Germany, Spain, UK, US, many others
  – FAO (UN)
  – INSPIRE (EU), The National Map / GOS (US), Canada GDI / National Forest Information System (Canada)
• Where is there consensus?
  – Integration into Information Communication Technology (ICT)
  – Open, consensus processes are in: proprietary is out
    • Like power grids, cars, and tires, proprietary was necessary to get the industry started, but growth and penetration into all of the places ‘geospatial’ is important depends on standardization
OGC

- New Standards
  - Services: Metadata, architectures, functions
    - Data is the fuel, but like a car, it needs a highway (architecture) and reason (service) to be valuable

- Challenges
  - Human inertia – that way worked last time, so we do it again
  - Contracting done by projects and managers do not like to be reliant on some other work – uncertainty costs more
  - NGOs work by project, often using funding from different nations
  - Geospatial Semantic Web
    - Automated understanding of meaning
  - Digital Geographic Rights Management
    - Control of intellectual property rights
    - Use limitations and restrictions