

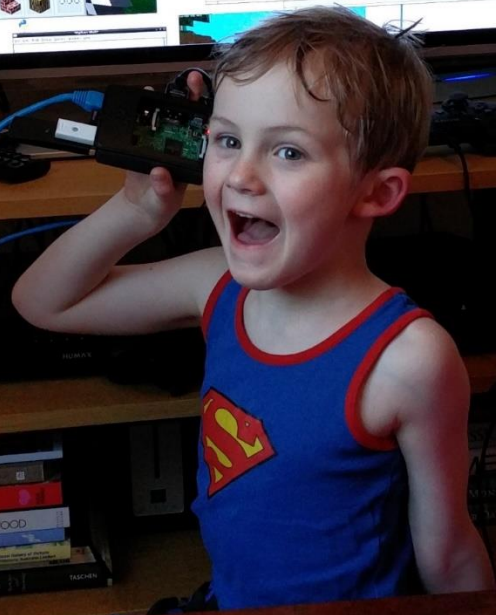
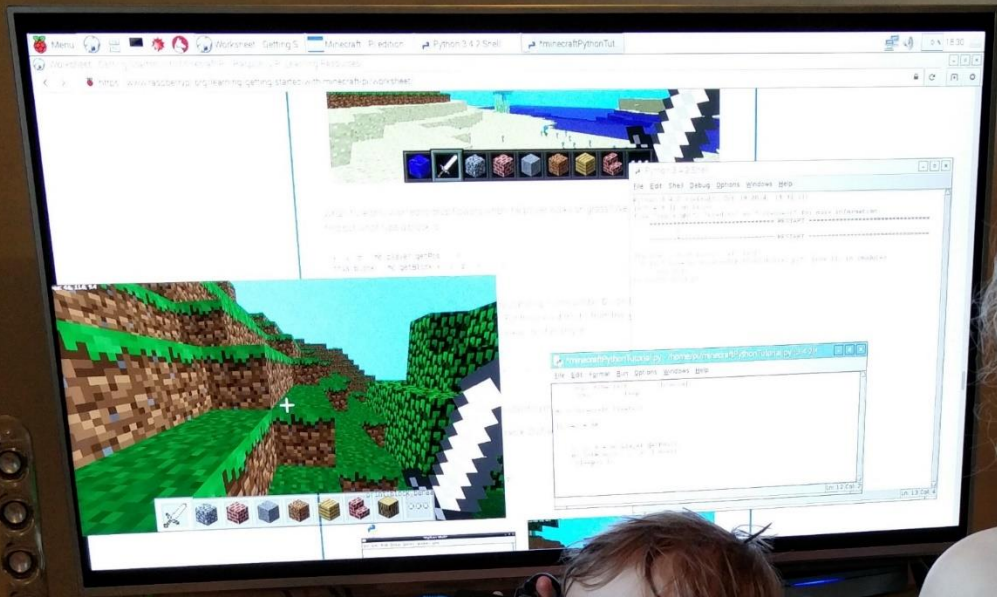


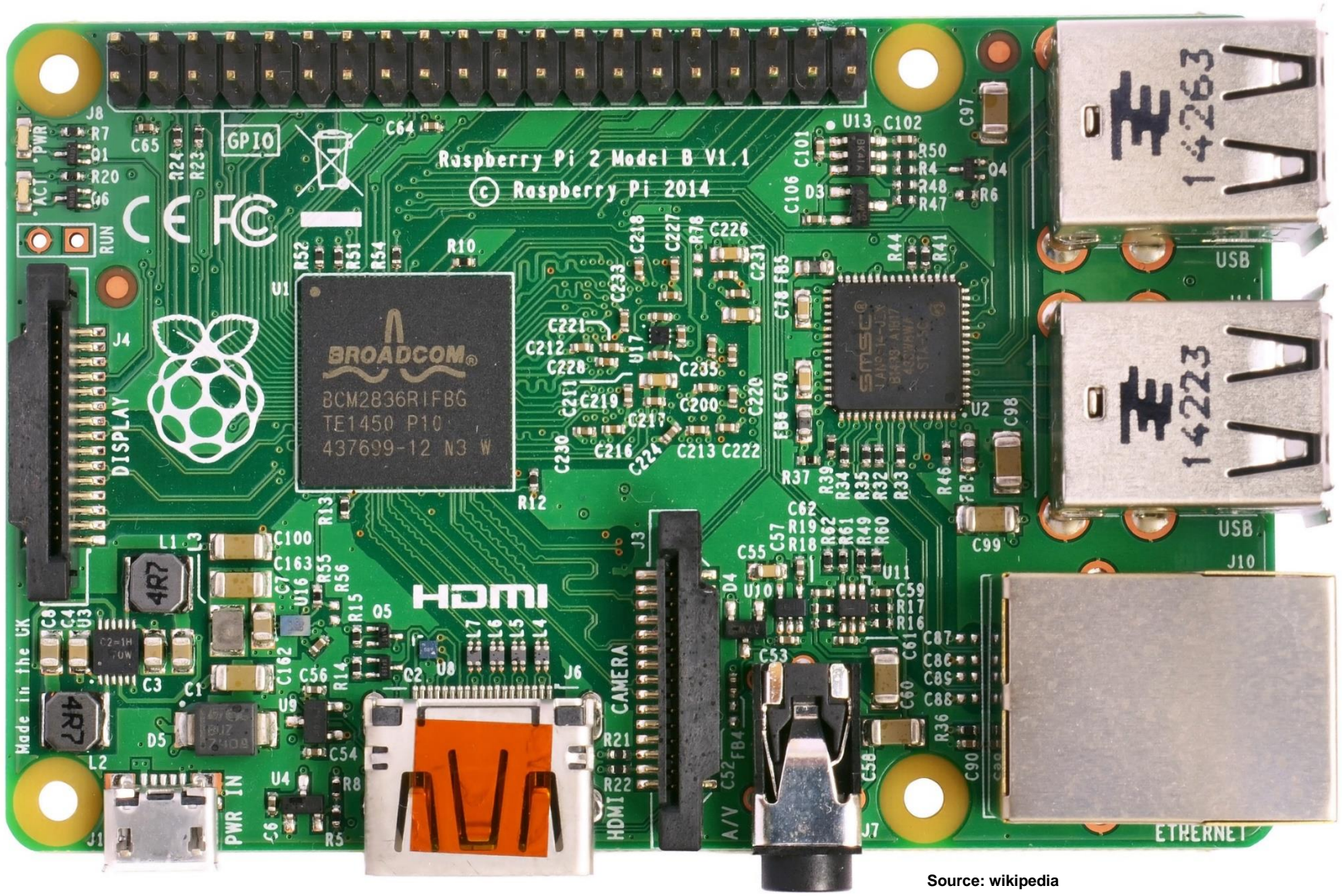
Capacity Development & Knowledge Frameworks

Denise McKenzie
Open Geospatial Consortium
22 April 2016
Addis Ababa, Ethiopia

#EarthDay2016





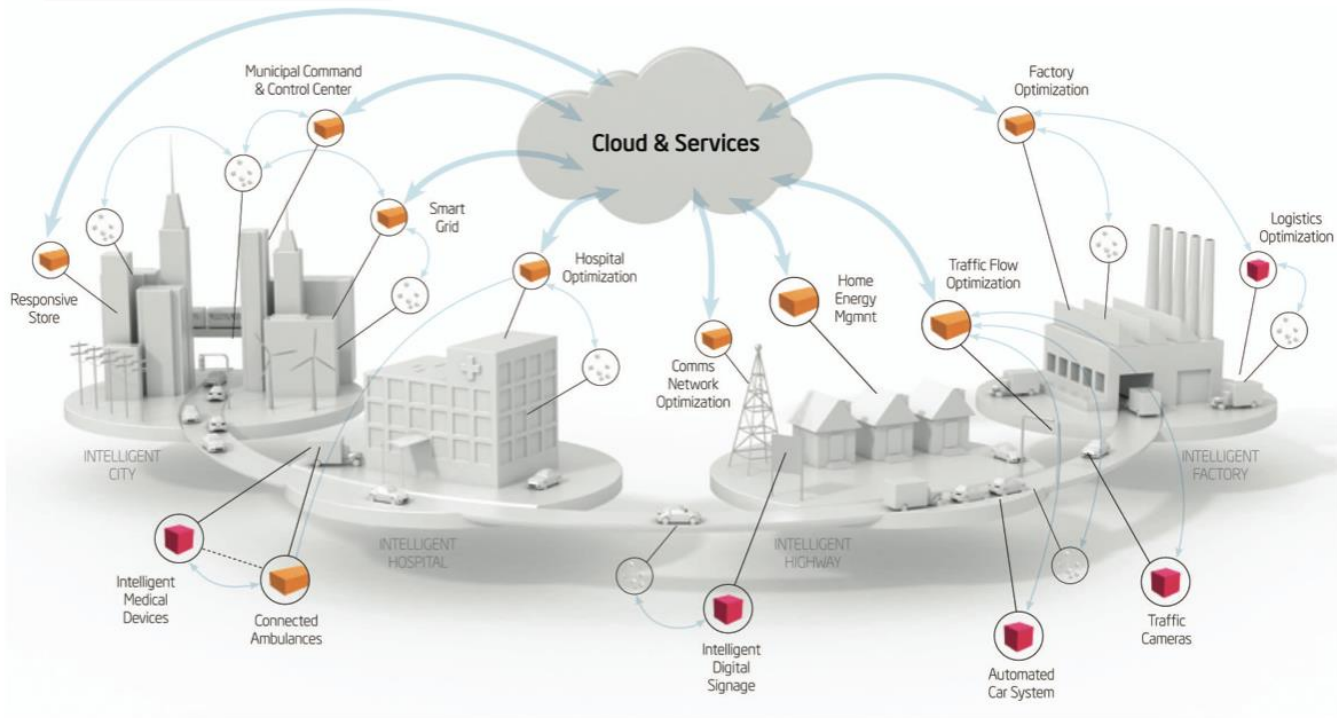


Source: wikipedia

50 billions Internet-connected things by 2020

Sensors Everywhere

(Things or Devices)



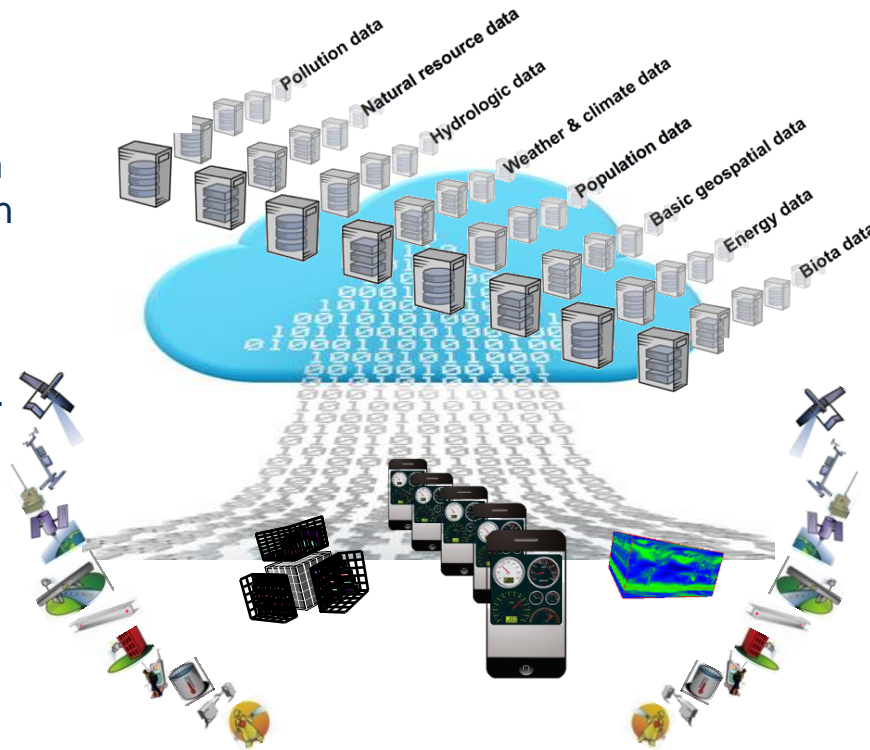
Slide source: Steve Liang, Univ. Calgary



Exponential growth in data, but...



We get lots of data from an explosion of sensors, satellites, citizens, models, etc.



However, data has little value if it can't be easily discovered, assessed, accessed, aggregated, combined, passed from system to system, etc.

Why are Standards important?

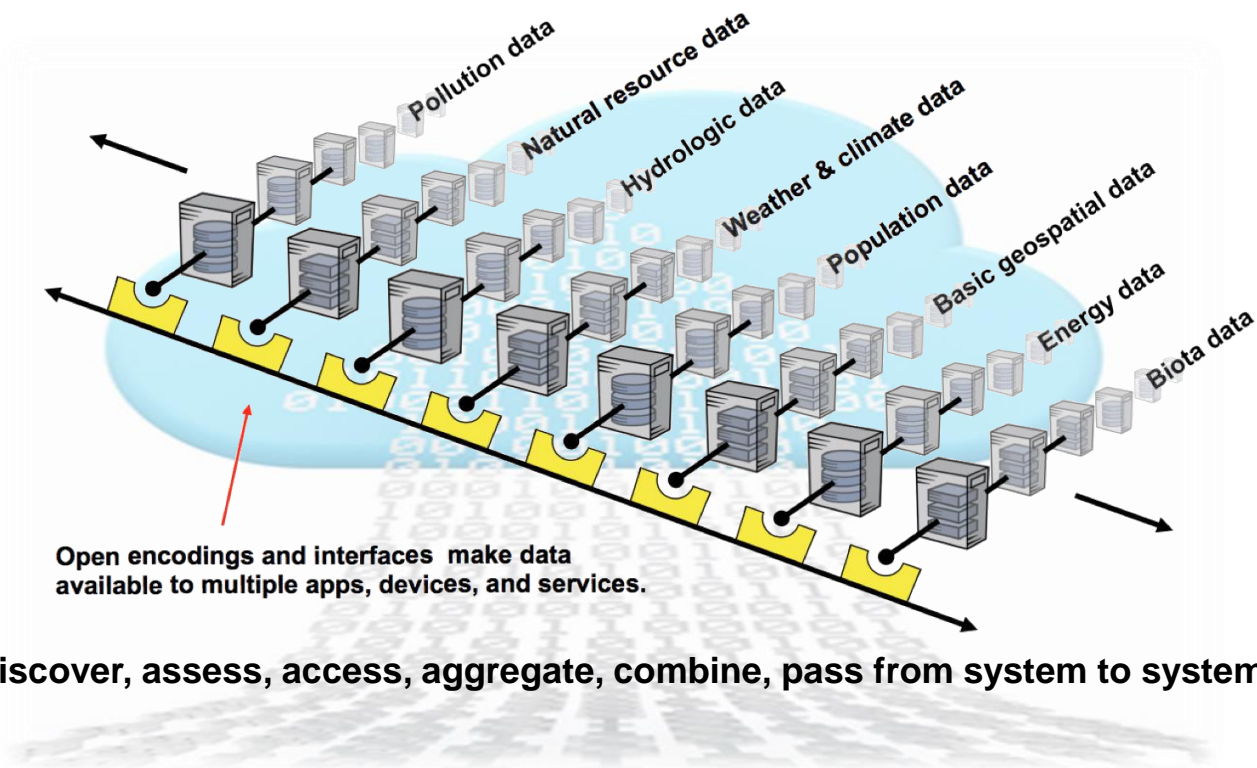


- A light bulb fits a socket
- Individuals can withdraw money from their bank accounts through any ATM anywhere in the world
- Mobile phones work across multiple countries around the world
- Latitude and Longitude provide a standard reference system for the Earth
- GPS coordinates are always provided in the same format

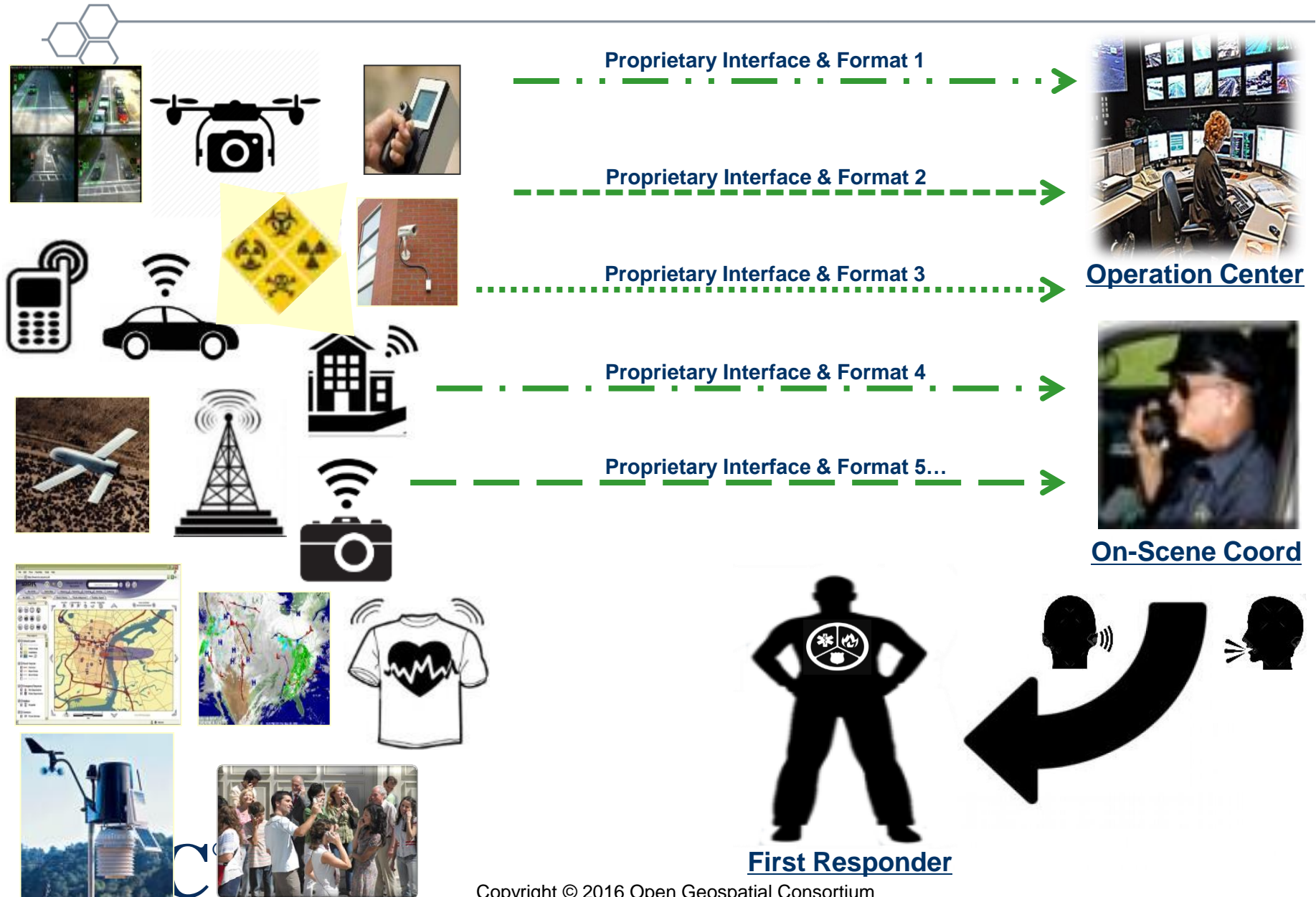


http://en.wikipedia.org/wiki/LED_lamp

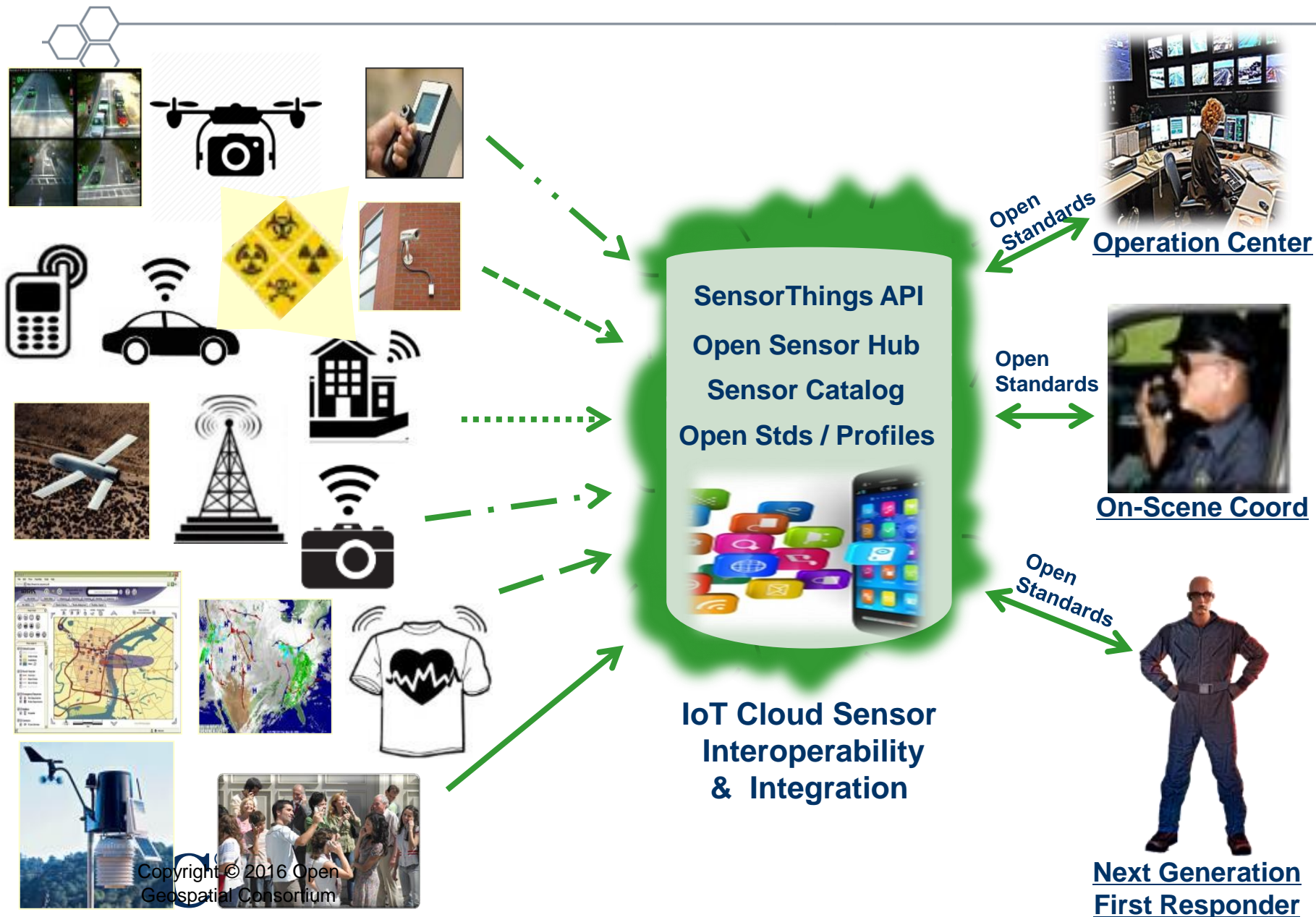
Open standards create a World Wide Web of Data



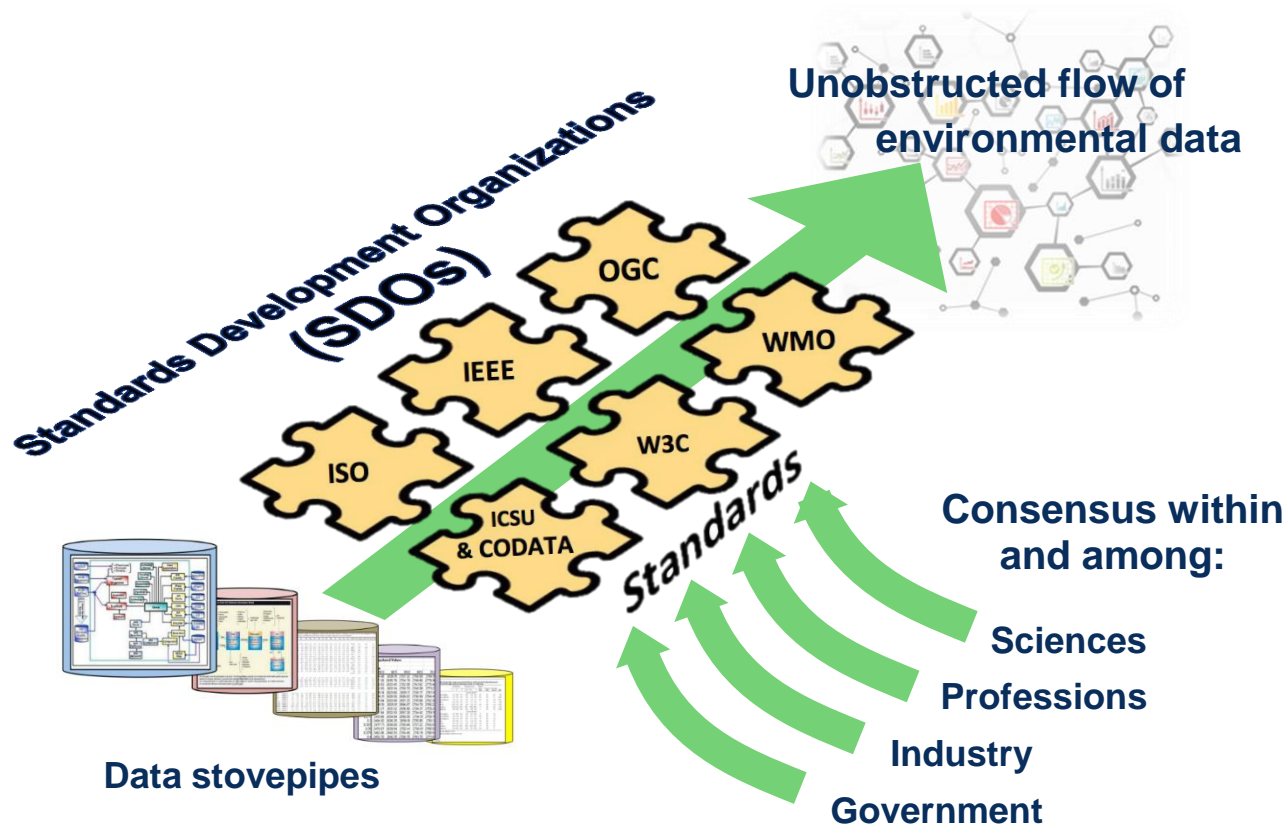
IoT for First Responders: As-Is Environment



IoT for First Responders: To-Be Environment



Consensus standards are essential!



**What do you need
to do?**

Key to Success: Geospatial Standards Policy



esa
Developing Spatial Data Infrastructures:
The SDI Cookbook
Version 1.0
21 January 2004

JRC Scientific and Technical Reports
The Socio-Economic Impact of the Spatial Data Infrastructure of Catalonia

RFP FOR CREATION OF DEM STATE SPATIAL DATA INFRASTRUCTURE (SDSI)
SURVEY OF INDIA
(DEPARTMENT OF SCIENCE & TECHNOLOGY)
GOVT. OF INDIA

Standard on Geospatial Data
1. Effective date
2. Application
3. Contact

Geospatial Information Infrastructure (GII)
The Department of Defense
User Guide
How To Videos
Create a Map
Find Groups
Threading Topics

INSPIRE
Infrastructure for Spatial Information in the European Community
INSPIRE DIRECTIVE
Legislation
Implementation
Adoption

GEO
Group on Earth Observations
Newsroom
Learn from the Global Earth Observation System of Systems (GEOSS) will transform understanding of the environment, understanding of Earth's resources, and mitigation of major disasters.

Geospatial Intelligence Standards
Enabling a Common Vision

Compliance – Software Acquisition



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Additional For

Internal reference number of 1

OGC Compliance Overview - Guide for Software Acquisition

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A Guide to the Role of Standards in Geospatial Information Management

Prepared cooperatively by the
Open Geospatial Consortium (OGC);
The International Organization for Standards (ISO)
Technical Committee 211 Geographic information/Geomatics;
and the
International Hydrographic Organization (IHO).

July 2015



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Companion document on Standards
Recommendations by Tier

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Get involved



- Don't be passive, be part of standards innovation
- This is not just about the big guys fighting it out – standards are ultimately chosen by a consumer
- Ask for your solutions to be “open” standards compliant
- As you build your solutions – do so in partnership with Standards organisations

Data is more valuable as a shared resource



Standards make this sharing possible



Please keep in touch!

www.opengeospatial.org



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Open Geospatial Consortium (OGC)



<http://www.youtube.com/user/ogcvideo>