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OGC Health Summit / OGC Health DWG

99th OGC Technical Committee

Dublin, Ireland

Eddie Oldfield, Kym Watson, co-chairs

23 June 2016

OGC Health Summit Highlights

40 registered participants: OGC members and non-members: Government, Academia, Technology providers, national and international organizations: e.g. GEO, WHO, NOAA, UN ISDR, UNCAP, etc.

General

- Across all areas: Interoperability is greatest challenge and need
- OGC Standards are critical for geospatial data and interoperability
- Global challenges – Local impacts / solutions
- National ownership is key – for data, support, policy
- Recognize different stakeholders: individuals and organizations at local, national, international levels, have different requirements of data, privacy; different needs, barriers, roles etc

Panel 1 – Active and Healthy Ageing

- Key challenge: Sensor devices need *certification* (CE); services need *accreditation* from local health fund / authorities; Procedures for data collection need *ethical approvals*
- Data stored in cloud: needs to be highly secure (critical applications)
- UNCAP – lessons learned can inform OGC Health DWG

Highlights



Panel 2 – IoT, Healthy Urban Environments

- IoT / SensorThing API lends particularly well to health – for both health and environmental sensor data integration; at lower cost. Connecting sensors (indoor, outdoor) in network adds value. IoT evolving rapidly.
- O&M profile can standardize data collection, reduce time/cost, enable processing / reduce time spent on data collection.
- Need for scalable health information / access, to better understand interaction between disease (e.g. vector borne) and health determinants (including environment, built environment, lifestyle, demographics, etc)
- Need land use classification schema useful for health applications.
- EMF – proposed SpectrumML, for both risk assessment and treatments
- Measure the exposome (totality of environmental exposures)
- Take holistic approach to understanding health / risks

Highlights



Panel 3 – Climate Health

- Climate Change data/science not easily understood in health community
- Locally appropriate action requires local info / evidence and tools
- Impact pathways (direct vs indirect) – challenge to geo-enable – need interoperable geospatial data and services to analyze impact pathways
- Methods for aggregation, disaggregation, anonymization, need BP docu.
- Data collection is needed at all levels of government / shared responsibility
- Need Open Access multi-hazard data platforms (using OGC standards)
- Need to establish linkages with: other SDOs, GEO, UN ISDR / Sendai framework, IRDR, EM / DRR community, SDGs, with OGC Health DWG

Panel 4 – Other – Standards in Action


- Security is required in eHealth – especially for systems that support medical uses.
- DWG members can be observers to UNGGIM
- Inform other SWGs of health requirements (eg. WPS, SPS, UP/Smart City)

Matrix approach and results



- Matrix is quick method to gather input from all participants in short time
- Matrix of 4 questions, groups of four, each person asks each other person their question, 2 min./question.
- Responses collected and compiled, for the following questions:
 - Q1 – Identify 1 or 2 health application areas/scenarios. Identify any key issues/needs.
 - Q2 – Are there gaps (in data, technology, standards)?
 - Q3 – Who are beneficiaries, key stakeholders?
 - Q4 – Key needs, do solutions exist, what is ideal future state?
- Results will be compiled for Summit Report

Actions

-  TC Report (this PPT)
 - Summary and Webpage with PPT links (within 4 weeks)
 - Blog (within 4 weeks)
 - Whitepaper (for publication) describing state of geospatial standards in service of health application areas + where work is needed (within 8 weeks)
 - Develop charter for AHA O&M SWG (for next OGC TC), + Profile.
 - Establish liaisons with: GEO, UNISDR, WMO-WHO Climate Health Office, IRDR, UN SDGs (by next OGC TC); OASIS Emergency Management Technical Committee (for EM alerting and HAVE)
 - Establish link between GEO Public Health Surveillance SBA, Health and Environment CoP, and OGC Health DWG
 - Document for GEO, UNISDR, WHO – to define role of OGC Health DWG to support their efforts
 - Review User Requirements for GEOSS Common Infrastructure (GCI)
 - Cross-pollinate with Smart Cities (OGC) initiatives