OGC Health Summit / OGC Health DWG

99th OGC Technical Committee
Dublin, Ireland
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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
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
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)
- 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