Conceptual Framework for VGI-based Geo-Portal for DM
Empowering Citizen’s Measurement & Connectivity

Bali Indonesia
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Measuring from the Public

Citizen scientists classify storms for the Cyclone Center
Massive crowdsourced identifications of cyclones are helping scientists classify storms

The authors report more than 7,500 volunteers have sifted through approximately 350,000 images. Each citizen scientist classifies a storm based on satellite images. Multiple classifications are given for each image so that there is a degree of redundancy. When the classifications were compared with automated methods and aircraft data from the Atlantic, the authors found that in some cases, the crowd outperforms the automated method.
Volunteered Movement in Korea

**Saemaeul Movement** for rural small village

- Rapidly industrialising, but the small villages in poverty.
- Slogan: Diligence, Self-helping and collaboration
- Encourage community members to participate in the development process

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Korea’s Use-case

Community mapping for urban facility monitoring in Seoul City

- Upload/Share pics, video, file on the map
- Collaboration with Private Web-Portal Company
  [http://campaign.agora.media.daum.net/cureseoul](http://campaign.agora.media.daum.net/cureseoul)
Korea’s Use-case

Community mapping for collecting crime vulnerability in Kwangsan city

- Categories crime vulnerability from the public perception

WHAT TO DO?

1. Understand from citizen’s geospatial experiences and expectations
2. Raise geospatial awareness capacity in the community and society
3. Stimulate stakeholder groups’ participation in societal decisions
4. Provide a transparent link between citizens and the decision-making process
Conceptual VGI QA Process

Social Sensors
Stakeholder, Governance
- Crowd Source
- Community Group

VGI quality Assurance Process
- QC. from history analysis
- QC. from comparison with National GI
- Validated Quality approved Compliant

Physical Sensors
SDI, GNSS, RS
- National Authorised Data
- Metadata

High Velocity, but Quality Concerns, Need to Support!

Considering Standard

UN-GGIM-AP Objectives
- Enterprise Viewpoint
- Abstract/Best Practices
- Information Viewpoint
- Computational Viewpoint
- Optimized Design/Development
- Engineering Viewpoint
- Technology Viewpoint
- RM-ODP Viewpoints

UN-GGIM-AP Regional Committee of United Nations Global Geospatial Information Management for Asia and the Pacific