



4th WGGI Meeting, 06.-08. December 2017, UNHQ New York City

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Task on Alternative Data for SDG Indicators

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Terms

- Alternative data = non-authoritative data
- Crowd Sourced Data (CSD)
- Volunteered Geographic Information (VGI)
- Citizen Science

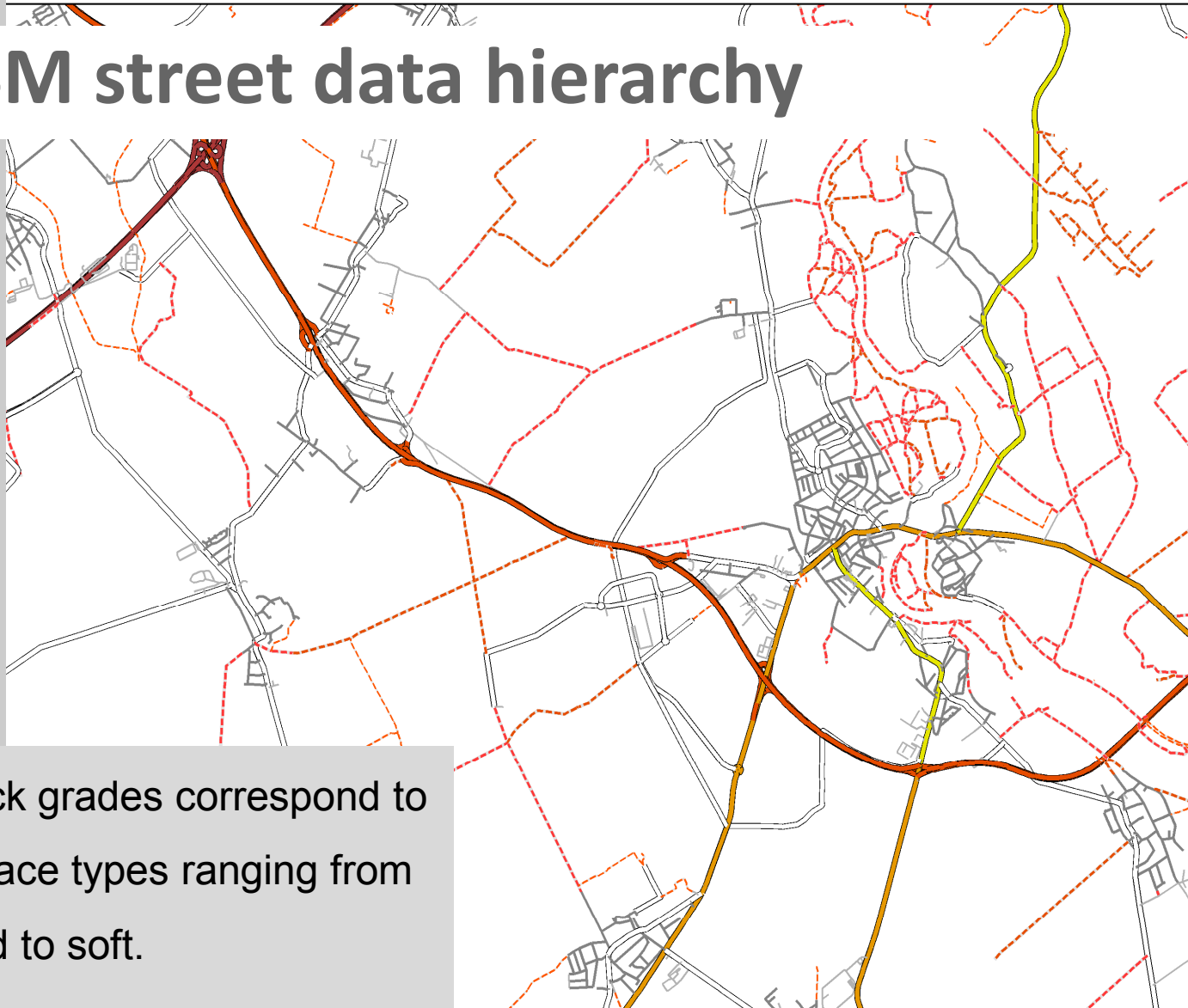


Players

- Volunteered Geographic Data Community
e.g. OSM
- Citizen science organisations
- Open Geospatial Consortium (OGC)
- Global spatial data infrastructure (GSDI)



OSM street data hierarchy



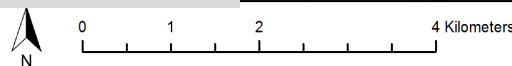
Legend

OSM Street Data

Attribute: fclass

- motorway
- motorway_link
- trunk
- trunk_link
- primary
- primary_link
- secondary
- secondary_link
- tertiary
- tertiary_link
- unclassified
- residential
- service
- track
- track_grade1
- track_grade2
- track_grade3
- track_grade4
- track_grade5

Track grades correspond to surface types ranging from solid to soft.





Players

The screenshot shows the LANDSENSE website interface. At the top, there is a navigation bar with the LANDSENSE logo on the left and menu items: HOME, PROJECT, THEMES, NEWS, and CONNECT. Below the navigation bar, the main heading reads "LANDSENSE THEMES". A descriptive sentence follows: "LandSense technologies are deployed across various themes to illustrate the potential of Citizen Observatories to tackle environmental monitoring issues". Below this text, three thematic images are displayed in a row, each with a caption underneath:

- URBAN LANDSCAPE DYNAMICS**: An aerial view of a residential neighborhood with a river and a road.
- AGRICULTURAL LAND USE**: Aerial view of a large agricultural field with distinct rows of crops.
- FOREST & HABITAT MONITORING**: A view of a forest with a large pile of cut logs in the foreground.



Players

https://geo-wiki.org

ENGAGING CITIZENS IN ENVIRONMENTAL MONITORING

GEO-Wiki


- » Home
- » News
- » Publications
- » Downloads
- » Sources

Games

- » Picture Pile
- » Picture Paint
- » FAQ


Get involved now!

Participate in these ongoing projects and join the citizen science movement to help us address global land cover issues



FotoQuest Go


Join FotoQuest Go and explore the outdoors! Help us monitor changes in land use and land cover.



built-up surfaces.


New! Global Built-Up Surfaces

We're launching a new campaign to validate 2 maps of built-up surfaces. Help us identify these areas! Stay tuned!



Picture Pile

Sort pictures and win great prizes! You can help us tackle global issues like deforestation.



Geo-Wiki pictures

Capture different landscapes using your smartphone and share with others through Geo-Wiki.

deforestation.



Players

ABOUT US COMMUNITY ENGAGE WITH US EVENTS DOCUMENTS [LOG IN](#)

Citizen Science to Monitor Landscape Changes

EUROPEAN CITIZEN SCIENCE ASSOCIATION WEBINAR

Mobilizing citizens for in-situ observations
Inian Moorthy (IIASA)

Home-based citizen participation
Linda See (IIASA)

7th December 2017, 16:30-17:30 CET

More information and registration:
<https://ecsa.citizen-science.net/>

In collaboration with: **LandSense**
A Citizen Observatory and Innovation Marketplace for Land Use and Land Cover Monitoring

Supported by: **museum für naturkunde berlin**



Players

Browser tabs: <http://www.opengeospatial.org/projects/groups/citizenscience/>, [GSDI - GSDI 15 World Conference](#), gsdiassociation.org, [Citizen Science DWG | OGC](#)

Address bar: info@opengeospatial.org



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- Standards ▾
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- Membership ▾
- Resources ▾

Citizen Science DWG

Chair(s):
Maso Pau, Joan (Universitat Autònoma de Barcelona (CREAF))
Abhayaratna, Jo (PSMA Australia)
Bowser, Anne (Woodrow Wilson International Center for Scholars)

Group Description:
Purpose of Working Group

There are a large and increasing number of citizen science projects active around the world involving the public in environmental monitoring and other scientific research activities. The OGC Citizen Science DWG is motivated to support citizen science by providing a forum for increasing understanding and demonstration of the benefits brought by the use of open standards and best practices. This DWG will support the development of improved interoperability arrangements for the citizen science community.



Players



The screenshot shows the GSDI website homepage. At the top, there is a navigation menu with links for Home, News, About GSDI, Membership, Events, Projects, Educational, GSDI Conferences, and Join GSDI. Below the menu is the GSDI logo, which consists of two stylized globes flanking the text 'GSDI Global Spatial Data Infrastructure Association'. A breadcrumb trail indicates the current location: 'You are here: Home > GSDI 15 World Conference'. Under the heading 'Latest Articles', there is a list of links: 'EuroSDR 2017 E-learning Courses Update', 'GSDI Geo Open Data Webinar Report', 'EuroGeographics joins GEO', 'Open European Location Services (Open ELS) Project', and 'Ireland and Spain elected to EuroGeographics Management Board'. To the right of this list, there is a section titled 'Proceedings of the GSDI 15 World Conference Published' with a sub-heading 'The Proceedings of the GSDI 15 World Conference, held from 29 November to 2 December 2016 in Taipei, Taiwan, are now available for downloading from the GSDI web site - Non-Refereed Papers here and Refereed Papers here. You can also download the Abstracts here and the conference book - "Spatial Enablement in a Smart World", containing 13 papers especially selected for the book - here.'



SDI of Crowd Sourced Data as possible future instrument for the SDGs?

- If no authoritative data is available, where to find **alternative data** like CSD / VGI for indicator calculation?
- How to **gain overview** of possible Crowd Sourced Data (CSD) and/or Colunteered Geographic Information (VGI) ?
- Where to **find metadata** on CSD / VGI?
- How to assess which of them are **usable for SDG Indicator** measurement purposes?
- Once data is found, is it **comparable** to data from different source about the same theme?



SDI of Crowd Sourced Data as possible future instrument for the SDGs?

- SDG **activities** worldwide: Who does what?
- Limited **budget**: bound to focus on data production itself, lack of knowledge or lack of budget left for integration in SDI?
- Global Spatial Data Infrastructure (GSDI) possible vehicle to publish, search for and access SDG Indicator relevant alternative data?
- http://gsdiassociation.org/images/reports/UN-GGIM_Europe_3rd_Plenary_Budapest_Oct2016_GR_RAL.pdf



Anker examples

- GSDI global spatial data infrastructure conference 2015 taiwan
<https://conf.gsdi.org/index.php/conferences/gsdi15/paper/view/145>
- Landsense Project CSD, Results possibly as SDI service?
<https://landsense.eu/News/13>
- Geowiki: geo-wiki.org
- Ushahidi <https://www.ushahidi.com>
- Making Sense making-sense.eu



Intermediate Conclusion for Alternative Data

- CSD do not follow standardized protocols
- The CSD-Community is under way to organize themselves
- Possible role of custodian agencies:
 - Trigger CSD initiatives through existing communities in countries where needed
- Reporting on Alternative Data as a living document: adding new best practise examples over time



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Thank you for your attention

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