

Human Planet Forum
University of Twente, Enschede, The Netherlands,
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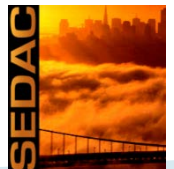
Settlement, Infrastructure, and Population Data: The POPGRID Data Collective

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Center for International Earth
Science Information Network
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A “Data Collaborative” for Settlement, Infrastructure, and Population Data

- Public-private data partnership involving intergovernmental organizations, national & academic research institutions, large and small companies, NGOs, foundations, universities, data stewards, etc.



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Goals and Objectives of the POPGRID Data Collective

▶ Overall Goal

- Accelerate the development and use of high quality, highly usable georeferenced data on population, human settlements, and infrastructure, drawing on an international, interdisciplinary community of data developers and users from both the public and private sectors.

▶ Objectives

- Share resources
- Improve data quality and documentation
- Clarify user needs and priorities
- Address scientific and technical challenges
- Facilitate appropriate data use and interpretation in a range of sustainable development application areas

- ▶ Documentation and Publication
 - Improve consistency, usability of metadata and data documentation
 - Coordinate preparation of technical reports, peer-reviewed articles and other materials
 - *Contacts: Kytt MacManus, Susana Adamo, Deborah Balk*
- ▶ Framework Data, Standards, and Interoperability
 - Coordinate development and sharing of input data
 - Develop quality control processes for identification of framework data
 - Identify and develop consensus on data standards and schemas
 - Encourage data interoperability (scientific, technical, legal)
 - *Contacts: Kytt MacManus, Bob Chen (legal interoperability)*
- ▶ Validation and Intercomparison
 - Design intercomparison framework and metrics (including uncertainty assessment)
 - Develop and plan intercomparison experiments
 - *Contacts: Greg Yetman, Sergio Freire, Stefan Leyk*

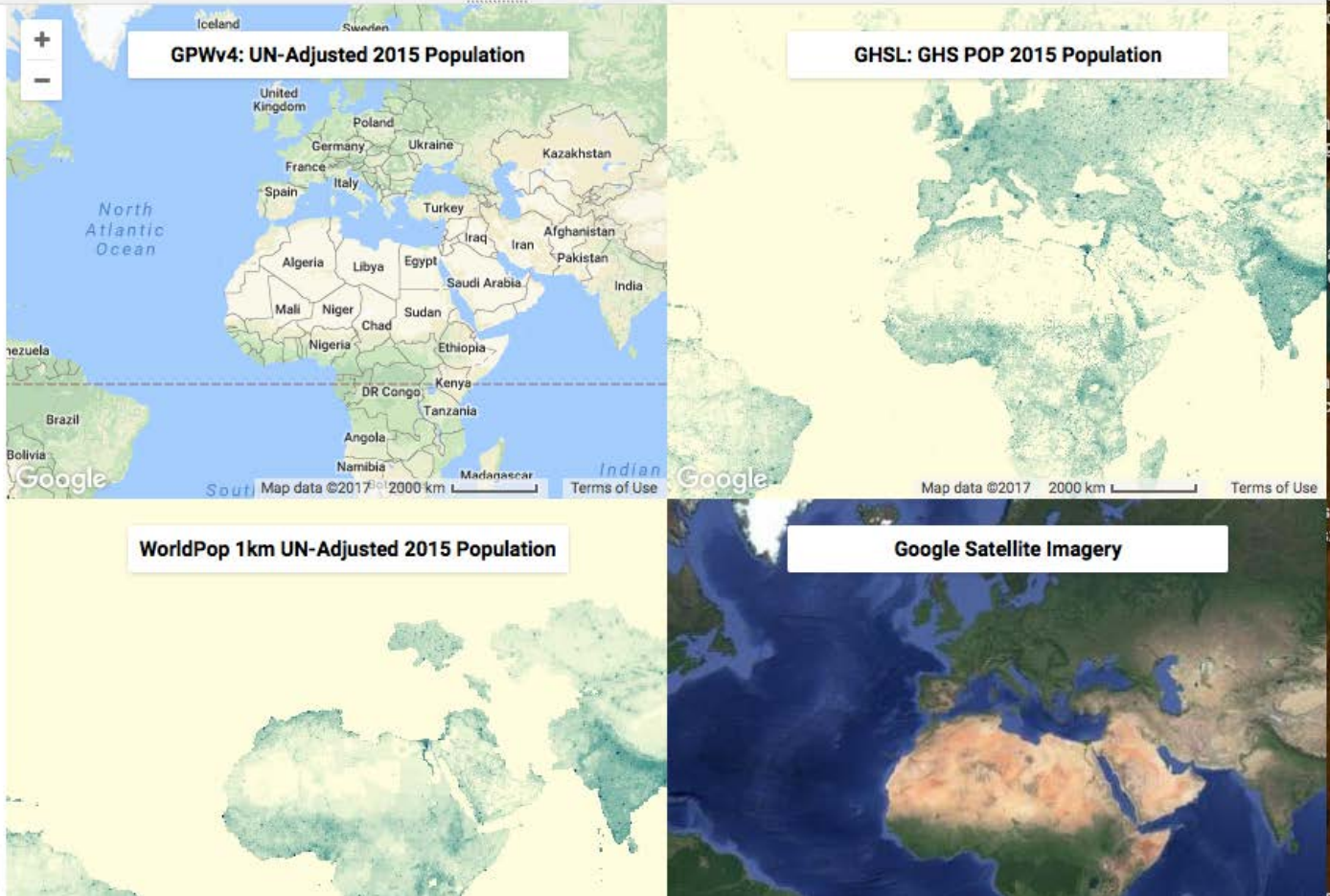
- ▶ User Needs, Stakeholder Engagement, and Governance
 - Develop strategic approach to stakeholder engagement
 - Identify user requirements and develop user scenarios
 - Explore options for establishing and sustaining data collective with existing international initiatives
 - Coordinate outreach and training efforts for stakeholder communities, especially in developing countries
 - *Contacts: Bob Chen, Tim Trainor (TBC)*

- ▶ Tools, Portals, and Shared Resources
 - Establish coordinated POPGRID web presence
 - Document relevant tools and portals and potential shared resources and identify gaps
 - Develop proposals to fill gaps
 - *Contacts: Alex de Sherbinin, Allie Lieber, ?*

- ▶ Infrastructure
 - Explore characterization of infrastructure associated with the built environment including review of types of assets, taxonomies, and database representation
 - *Contacts: Charles Huyck, Greg Yetman*

Google Earth Engine Applet

2015 Population Data Comparison



Participation Welcome!

- ▶ **POPGRID Google Group**

<https://groups.google.com/forum/#!forum/popgrid>

- ▶ **GEO-XIV Plenary side event**, Washington DC, 24 October

<http://www.earthobservations.org/geo14.php>

- ▶ **American Geophysical Union**, New Orleans LA, 11-15 December

<http://fallmeeting.agu.org/2017/>

- POPGRID session organized: 2 oral and 1 poster session, ~27 papers
- Side meeting to be scheduled

