Disaster risk reduction, sustainable development, and global urbanization

Moderated by Tim Trainor, US Census Bureau

Seventh Session of the Open Working Group on Sustainable Development Goals UNHQ, New York, 10 January 2014

Positioning geospatial information to address global challenges

How can you measure and monitor sustainable development...



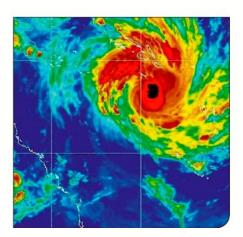






UN-GGIM





...without location and geography

UN-GGIM: A global initiative

Formal inter-governmental UN Committee of Experts to:

- Discuss, enhance and coordinate Global Geospatial Information Management activities by involving Member States at the highest level. Reports to ECOSOC
- Make joint decisions and set directions on the use of geospatial information within national and global policy frameworks
- Work with Governments to improve policy, institutional arrangements, and legal frameworks
- Address global issues and contribute collective knowledge as a community with shared interests and concerns
- Develop effective strategies to build geospatial capacity in developing countries



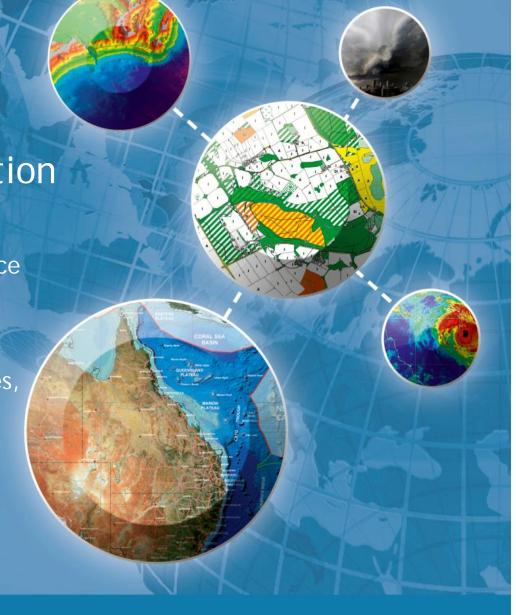
Positioning geospatial information to address global challenges



Monitoring Sustainable Development: Why Location Matters?

"I am pleased to see that the importance of reliable, trusted geospatial information is now recognised. The United Nations has now established a Committee of Experts of Member States, which the UK co-chairs, to move this agenda forward"

Rt Hon Nick Clegg MP, Deputy Prime Minister, United Kingdom Government, Rio+20, June 2012





The Future We Want: 19th June 2012

187. We recognize the importance of early warning systems as part of effective disaster risk reduction at all levels in order to reduce economic and social damages including the loss of human life, and in this regard encourage States to integrate such systems into their national disaster risk reduction strategies and plans. We encourage donors and the international community to enhance international cooperation in support of disaster risk reduction in developing countries as appropriate through technical assistance, technology transfer as mutually agreed, capacity building and training programmes. We further recognize the importance of comprehensive hazard and risk assessments, and knowledge and information sharing, including reliable geospatial information. We commit to undertake and strengthen in a timely manner risk assessment and disaster risk reduction instruments.

274. We recognize the importance of space-technology-based data, in situ monitoring, and reliable geospatial information for sustainable development policy-making, programming and project operations. In this context, we note the relevance of global mapping and recognize the efforts in developing global environmental observing systems, including by the Eye on Earth network and through the Global Earth Observation System of Systems. We recognize the need to support developing countries in their efforts to collect environmental data.



Our Countries are Facing Serious Challenges

Collectively we need to create the future we want

Natural Resources

Economic Development

Globalization

Loss of Nature

Wealth and Poverty

Human Health

Ecological Change

Population Growth

Cultural Diversity

Inequality

Food

Biodiversity

Energy

Leveraging our best science, technology, and information

Urbanization

Social Conflict

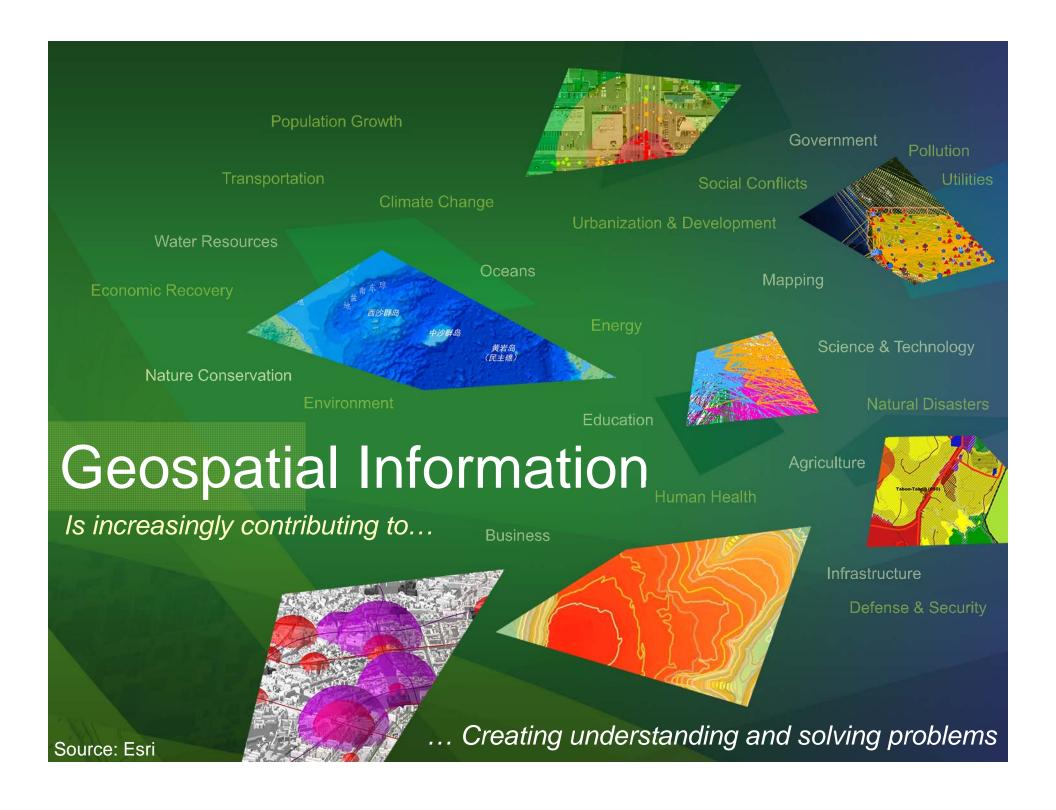
Land Use

Resource Shortage

Climate Change

Water

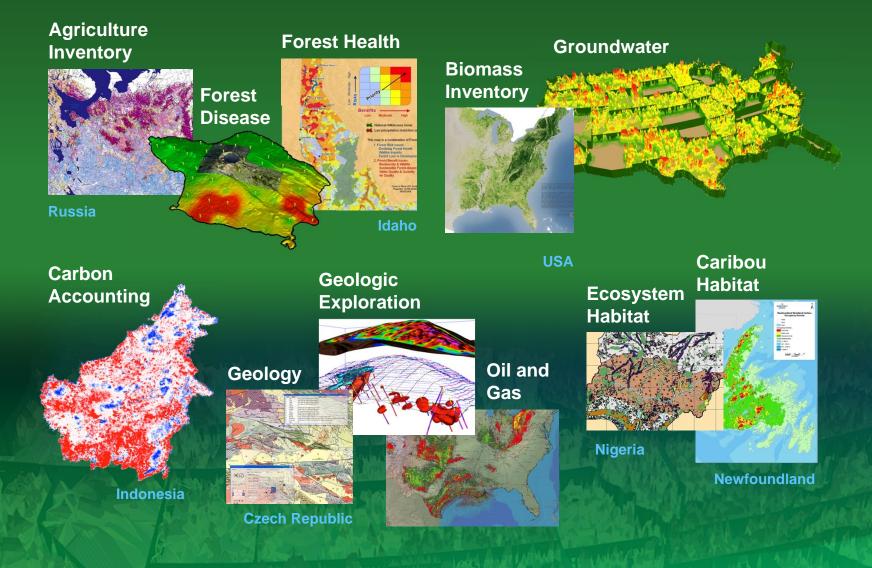
Source: Esri



Monitoring Environmental Change Ocean Health Index Deforestation Ocean **Temperature** Habitat **Micro Climate Change South America** Missour **Coastal Erosion** Historic Beach **Drought Erosion USDOI** Fish and **Wildlife Service** Willapa National Wildlife Refuge Source: Esri

Managing Natural Resources

Source: Esri



Developing Energy Geothermal Pipeline Solar Potential ambodia Oil & Gas Germany **North America** awan South Asia **Wind Farm Renewable Energy** Management Wind **Wind Power Turbine Denmark Massachusetts** Source: E

Managing Land Information

Cadastre and Registration

200 m



Parcel Mapping



Colorado





Tax Assessment



Planning For and Responding to Natural Disasters



Drought Status



USACE

Severe Weather



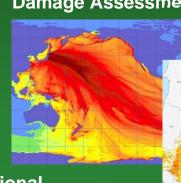
Flooding



California

North Dakota

Tsunami Forecast, Earthquake **Damage Assessment**



Situational Awareness (COP)



Quake Tracking





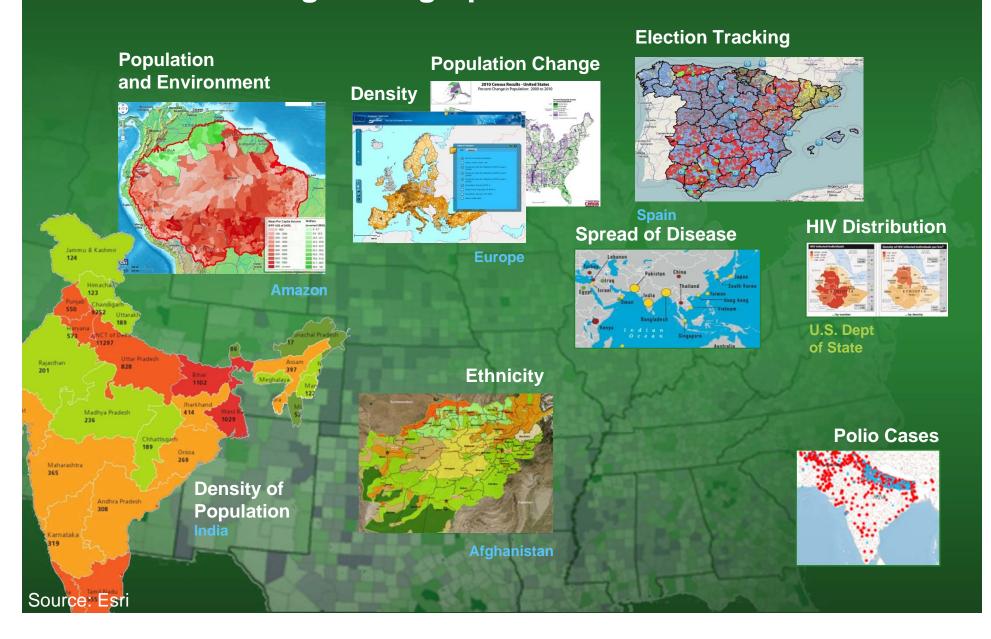
Recovery Planning



International Committee of the Red Cross

Source: Esri

Understanding Demographics and Human Health



Today's Presentations

Objectives

- 1. Introduce OWG to the importance of reliable geospatial information and its role in measuring and monitoring the SDGs via well defined targets and indicators
- 2. Begin a dialogue with the OWG and have an interactive exchange of views

Presenters

- 1. Dr. Hiroshi Murakami, Director-General of Planning Department, Geospatial Information Authority of Japan
- 2. Dr. Li Pengde, Deputy Administrator, National Administration of Surveying, Mapping and Geoinformation of China
- 3. Mr. Rolando Ocampo, Vice-President, National Institute of Statistics and Geography, Mexico

Questions

