



# The United Nations, poverty and spatial data infrastructure

UN Geographic Information Working Group  
Jeff Tschirley & David Kaatrud  
Co-chairs

GSDI, Santiago de Chile, 7 November 2006



## United Nations Setting

### Millennium Development Goals

- Goal 1: Eradicate extreme poverty & hunger
- Goal 7: Ensure environmental sustainability
- Goal 8: Develop a global partnership for development (including information & communications technologies)

### Global governance

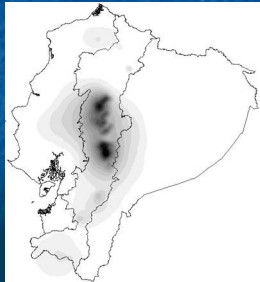
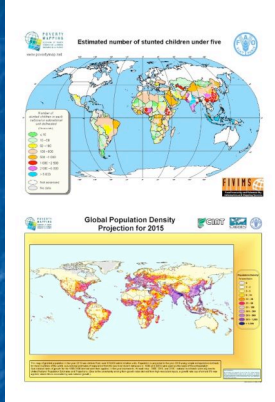
- Countries increasingly working in context of multi-lateral agreements (Conventions)

### UN reform agenda 2006-07

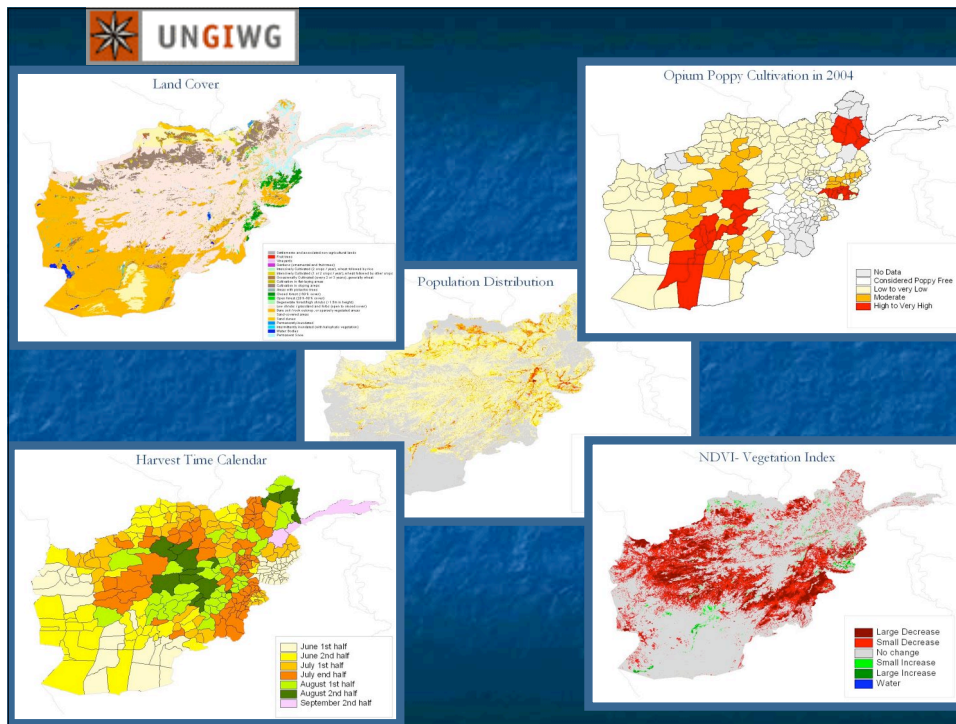
- UN System-wide coherence in areas of Development, Humanitarian Assistance, Environment
- Comprehensive management reform



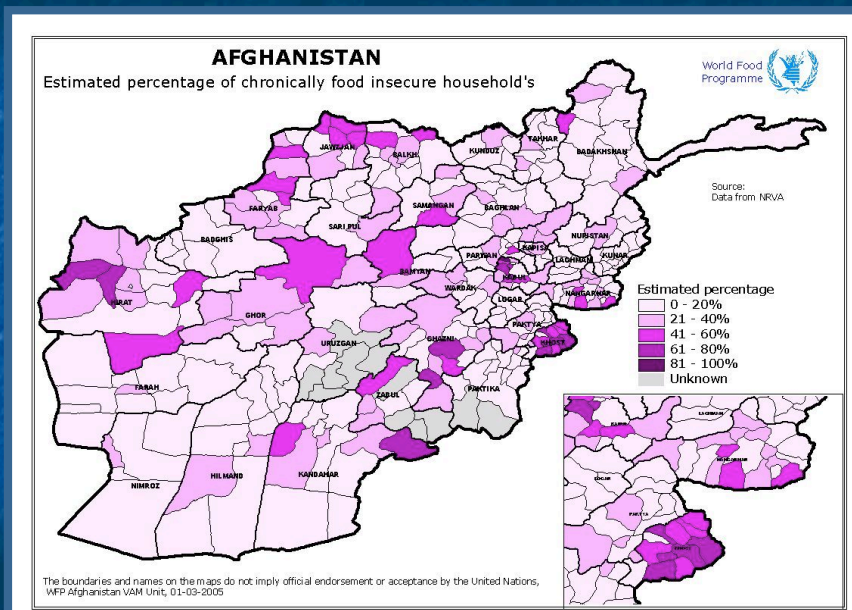
# Methods for poverty & food insecurity mapping at country level



Ecuador  
Clusters of  
Poverty  
Assessment Index



Geospatial analysis supporting comprehensive food security & vulnerability analysis





## A voluntary network of UN specialised agencies, programmes and funds

*Established in 2000 to:*

- Facilitate technical collaboration and formulate policies concerning geospatial information in the UN-system and with member states
- Address common geospatial issues – maps, boundaries, data access and exchange, adherence to international standards, naming conventions and location
- A forum to coordinate actions, discuss emerging technologies, exchange experience and best practices



**Co-chairs: FAO, WFP** (OCHA, UNHCR to take up chair 2007-2008)

- Annual plenary: (Addis Ababa, 2005 ) (Santiago de Chile, 2006)

### **Members**

- FAO, WFP, DPKO, OCHA, UNAIDS, UNDP, UNEP, UNHCR, UNICEF, UNODC, UNOPS, WHO, WORLD BANK, and others

### **Task groups**

- International and administrative boundaries (WHO)
- Core geo-database (FAO)
- Remote sensing (UNOSAT)
- Interoperable services (FAO)
- GIS map production guidelines (OCHA)
- Global navigation satellite systems (WFP)



**UNSDI**

## **Building the business cases**

(who are our clients, what do they need, how do we deliver it to them)

1. **Provision of spatial data**
  - Cartographic data, satellite imagery, GIS services
  - Thematic data to support emergency response, development projects, environmental analysis
  - Global observation, assessment
2. **Development of common data services**
  - Discovery, authentication, modeling etc to increase data sharing and re-use
  - Adoption / development of standards & shared infrastructure to promote interoperability, ease of data access & re-use
3. **Capacity building**
  - Stronger national capacity to share & utilize spatial data including policies, technology, best practices
4. **Partnerships and cooperation**
  - To leverage spatial data access
  - To build infrastructure – human and technological
  - To share in capacity building



## **UNSDI Contours**

- Focus on shared member country applications
- A decentralized coordination framework
- Expanded partnering between UN agencies, academia, private sector
- Increased continuity and sustainability of activities



# Building toward the future

## Mission

- To respond rapidly and appropriately to emergency situations
- To support national and global development efforts (MDG's)
- To assist and guide actions related to global environmental change

## Vision

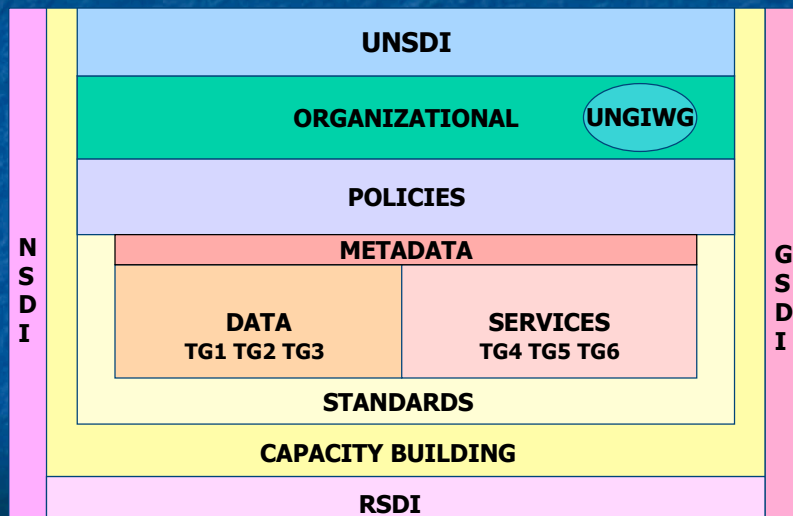
- Robust core global data sets
- Interoperable systems among UN organizations and countries
- Ability to rapidly discover, access and integrate relevant data and information across national and international boundaries

## Strategy

- Address key constraints to geospatial data access and use
- Develop partnerships to facilitate geospatial data access and use
- Build visibility, understanding among decisionmakers regarding the value of investment in geospatial data infrastructure



# UNSDI Framework





## UNGIWG 7<sup>th</sup> Plenary

### Santiago de Chile, 2-4 Nov 2006

- UNSDI Compendium – December 2006
  - Trends analysis
  - Review of UN priorities, requirements
  - Partnerships
  - A plan
  - An architecture
  
- UNSDI Strategy document– June 2007



## UNSDI Strategy document 1.0

ca. 30 pages, aimed at broad audience

Vision :: Operational geospatial systems to meet Humanitarian, Development, Environment needs within the UN mandate

Outcomes :: Rapid, targeted, accurate responses to country priorities and requirements at national, regional, global levels

### Objectives

- Data coverage and access
- Common standards
- Data services
- Policy development and harmonization
- Capacity building

### Outputs

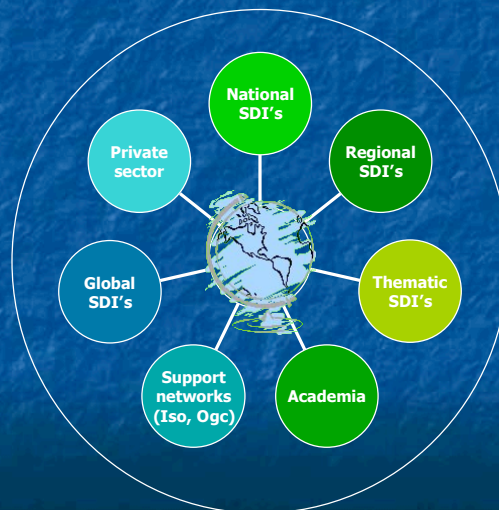
- Near term (1-3 years)
- Medium term (3-5 years)

### Activities

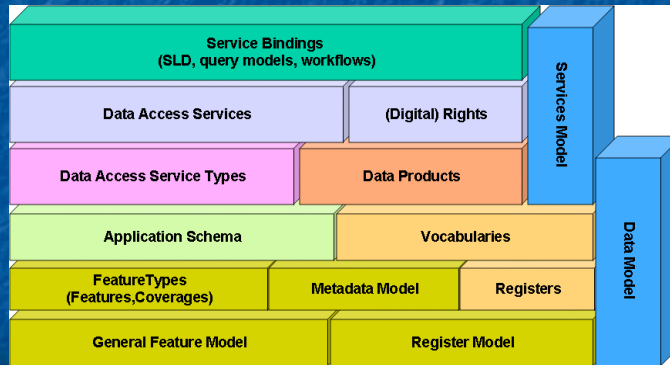
# Thank you

<http://www.ungiwg.org>

## Stakeholders, Partners



# Architecture: Conceptual building blocks



# Architecture: Internet bus model

