GLOBAL DEVELOPMENT CHALLENGES, GEOSPATIAL INFORMATION & PUBLIC PRIVATE PARTNERSHIPS

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The World Bank Group Structure

**International Bank for Reconstruction and Development (IBRD)**
- 1944
- Over 10,000 employees
- Over 5,000 consultants
- 120 country offices

**International Development Association (IDA)**
- 1960
- Private sector engagement

**IFC (International Finance Corporation)**
- 1956

**ICSID (International Centre for Settlement of Investment Disputes)**
- 1966

**MIGA (Multilateral Investment Guarantee Agency)**
- 1988
- Guarantees to crowd in private sector investments
The World Bank’s Twin Goals

THE WORLD BANK GROUP GOALS

END EXTREME POVERTY AND PROMOTE SHARED PROSPERITY
Global Trends

- Growing Prosperity
- Urbanization
- Food production
- Climate Change
- Sustainable Land Management
Global Trends: Growing Prosperity

Since 1990, the number of the poor living on $1.25 per day was significantly reduced by 700 million, mostly in China and Asia.

But… 1.2 billion people are still living in extreme poverty.
Global Trends: Urbanization

1970: Rural 63%, Urban 37%
2000: Rural 53%, Urban 47%
2030: Rural 40%, Urban 60%

+ 2 billion residents & 1.2 million km² (Urban expansion)
Today’s Urban Realities

- **80%** of global economic activity generated in cities – mostly in industry and services benefiting from density.
- **2 billion** additional residents in cities between 2000-2030.
- **1 billion** live in slums today to be near jobs and opportunity.
- **1½ billion** exposed to cyclones and earthquakes in large cities by 2050 (up from 580 million 2000).
- **1.2 million km²** of new urban built up area by 2030—equivalent to a whole new world; rapid spatial expansion makes it difficult to provide services, houses, and transport.
- **80%** of Greenhouse Gas emissions + **70%** of energy consumption is attributable to cities.

**THE EVIDENCE HIGHLIGHTS URGENCY FOR ACTION**
Global Trends: Food production

- Increase of population (2 to 3 billion, 60% more)
- Needs of...
  - another 2 billion tons of cereals
  - another 200 million of meat
  - another 130 million of oilseeds
Global Trends: Climate Change
Increasing Risks in the World: A relentless increase in disaster loss

Disaster loss has tripled in 30 years
2,275,000 fatalities
US$3.5 trillion of economic losses

2011 losses = $380 billion

Source: Munich Re, Geo Risks Research and NatCatSERVICE.
Global Trends: Sustainable Land Tenure

- Social peace & Good governance
- Sustainable economic growth
- Poverty reduction

GEOSPATIAL WORLD Magazine (June 2012)
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- Use of Geospatial Information in WB and the role of PPPs
- Key Messages
Use of Geospatial Information in WBG

A recognition of central role of geospatial information in development, but also the need for a **Paradigm Shift**

**From…**

Flat maps  
Single mapping agency  
Public sector focus  
Multilaterals and donor agencies

**To…**

Multiple dimensions  
Whole of government  
PPPs and Society at large  
Broad development platforms
Use of multiple tools for...

- Legal and Policy frameworks
- Institutional capacities and skills training
- Developing and meeting standards
- Sharing good experience across countries
- Bringing the private sector as a key stakeholder in service provision and investments
Case Study in WB projects: DRM

[Pacific Risk Management Initiative]

- Provide the Pacific Island Countries with disaster risk modeling and assessment tools
- Largest collection of geo-referenced dataset
- Disaster Risk Planning
- Post-disaster damage assessment
- Public access to information
- Disaster Risk Financing with private sector reinsurance industry
Case Study in WB projects: Urban

Land Use & Urban Structure
- Complex land use for low-carbon urban structure
- Reducing Carbon by circulating water & resources & building waterfront space

Ecosystem & Green Space
- Reducing Carbon thru greening buildings & expanding green space
- Reducing Carbon Thru u-bike & green car

Low-Carbon Energy System
- Reducing Carbon based on renewable energies & green home

Green Transportation
- Railway
- Bus
- Bicycle
- Access

Water Circulation

Green Lifestyle
- Neighborhood Square
- District Square
- Waterfront

Reducing Carbon system based on movements on green consumption & green start
Case Study in WB projects: Land

Russian Public Cadastral Map’(PCM) e-service

- Over 15 million visits in 2013
- Over 25 million pages viewed in 2013
- Average length of PCM visiting is 29 minutes

Also available on Mobile devices
Global Partnerships
Collaboration with ESA

- Since 2008, Collaboration on the Earth Observation for Development Initiative
- 35+ pilot projects implemented across the ‘Sustainable Development Cluster’

www.worldbank.org/earthobservation
Key issue: Why Cadaster is important?

‘Cadaster’ is the fundamental element for sustainability.
Key Messages

- Growing prosperity, urbanization, food, and climate change require:
  - Accurate location of land, people and resources with Geospatial information
  - Transparent and inclusive institutions
- We need strong collaboration between national and local governments, the private sector, civil society and international partners
- Geospatial tools fundamental to support global efforts in poverty elimination and boosting shared prosperity
  - Role of private sector in unleashing value added of geospatial data for economic development is key
Thank You

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