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06-11 MAY 2018 EMBRACING OUR SMART WORLD WHERE THE CONTINENTS CONNECT: ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES

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## Fundamental Infrastructure for Spatially Enabled Societies

**Global Land and Geospatial Agenda** 

May 10, 2018 Keith Clifford Bell





# **Presentation Outline**

- Overview of World Bank
- New Approaches to Development Investment
- Overview of Global Land Portfolio
- Global Trends
- Investment in Modern Land Administration Systems
   & NSDI
- Opportunities
- Global Fora & Advocacy
- 🛠 Final Remarks 😳



# **The World Bank Group Structure**





## **WBG Financing**

WBG is one of the world's largest sources of funding and knowledge for developing countries, and is committed to reducing poverty, increasing shared prosperity, and promoting sustainable development.

- Overall WBG Financing: FY 2017, WBG provided nearly US\$59 billion in loans, grants, equity investments, and guarantees to partner countries and private businesses—including to multiregional and global projects.\*
- Land-related Project Financing: Globally, since 1980, WBG has financed over 70 Land projects, in at least 42 countries, with commitments of around US\$3 billion.

\*Source: http://pubdocs.worldbank.org/en/982201506096253267/AR17-World-Bank-Lending.pdf





# **Sustainable Development Goals**





# The World Bank's Twin Goals



# END EXTREME POVERY AND PROMOTE SHARED PROSPERITY



# **New Approaches for Development Investment**

#### **MFD** – Maximizing finance for development

- systematically leverage all sources of finance, expertise, & solutions to support developing countries' sustainable growth
- countries' resource needs surpass their own budgets and available donor funding.
- consider a spectrum of solutions, private as well as public help tap a variety of financing opportunities, incorporate global lessons and good practices, and address equity and affordability for consumers.

Harnessing Technologies - Including disruptive technologies in the Bank Group's work to in support of new pathways to growth

- **Build:** Develop the foundational building blocks for sustainable, technology-led economies
  - **Boost:** Expand the capacity of people and institutions to thrive in a resilient society
- **Broker:** Harness disruptive technology, data, and expertise to solve development challenges and manage risks through collaborations

#### To apply a FIG term fit-for-purpose

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embracing both MFD and harnessing technology (both disruptive and foundational) requires a savvy engagement with countries, understanding their needs, governance, political economy and citizen engagement.



# The Current WB Land Portfolio

- Active Projects: 11 operations (\$723 M)
- Pipeline (next 18 months): 11 operations (\$698 M)
- Analytical and Technical Assistance: 20+ tasks
- Two Reimbursable Advisory Services (\$11.8m)
- 15 Trust-Funded activities

## From



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# **Global Partnerships**



Cooperative Programme

VOLUNTARY GUIDELINES ON THE Responsible Governance of Tenure OF LAND, FISHERIES AND FORESTS IN THE CONTEXT OF NATIONAL FOOD SECURITY



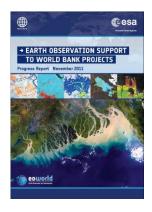


Global Donor Platform for Rural Development









Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH





# **Global Trends: Food Production Needs to Increase**

# **Global food demand**

To meet global food demand in 2050, agricultural production must be 60 percent higher by weight than in 2005.

Alexandratos and Bruinsma, 2012



# Increase of population

2 to 3 billion by 205060% increase in agricultural production

# Needs of....

another 2 billion tons of cereals another 200 million of meat another 130 million of oilseeds



# Global Trends Natural Disasters Frequency & Severity increasing \* Links to Climate Change \* Other causes of natural disasters

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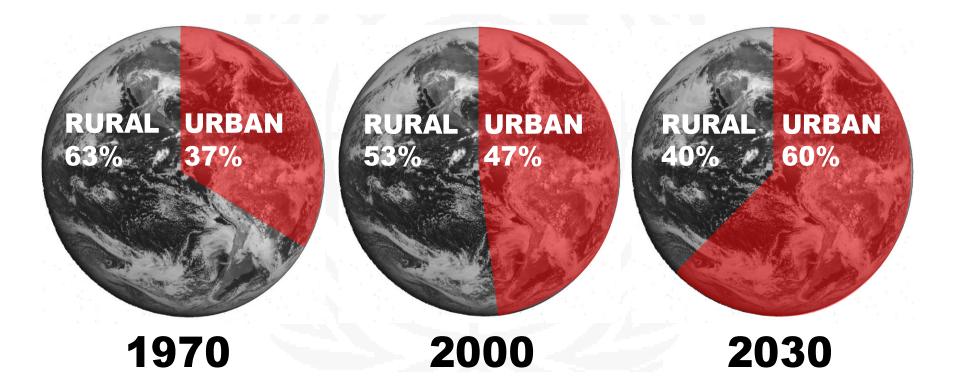
# **Global Trends: Displaced persons\***

- An unprecedented 65.6 million people around the world have been forced from home. Among them are nearly 22.5 million refugees, over half of whom are under the age of 18.
- There are also 10 million stateless people who have been denied a nationality and access to basic rights such as education, healthcare, employment and freedom of movement.
- In a world where nearly 20 people are forcibly displaced every minute.
- Turkey is the top hosting country for refugees

Displaced persons need shelter, nutrition, security, ID, etc. Solutions require access to land and to be spatially enabled Source: UNHCR , Jun 19, 2017 http://www.unhcr.org/figures-at-a-glance.html



# **Global Trends: The World Becomes Urban**



## 2 billion new urban residents 1.2 million new km<sup>2</sup> urban area

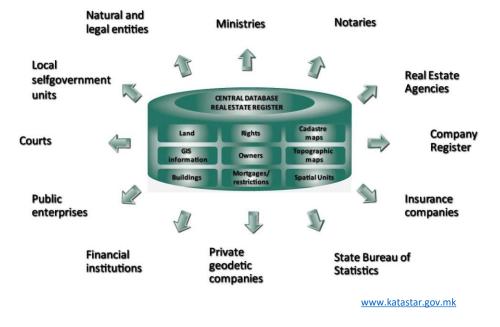


# **Modern Land Administration Links and Applies Data**

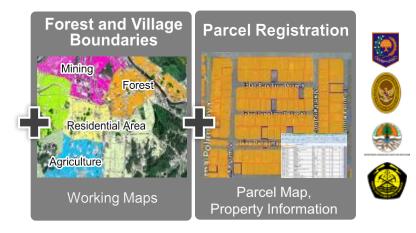
#### **Modern Land Applications**

- Data/certificates compiled form **interlinked public datasets**
- Digital records used for mass valuation systems for taxes
- State lands inventory and management systems develop
- One Map defined as the baseline for **environmental** conservation and management
- Geospatial data provides the base for Early Warning Systems and other disaster resilience.

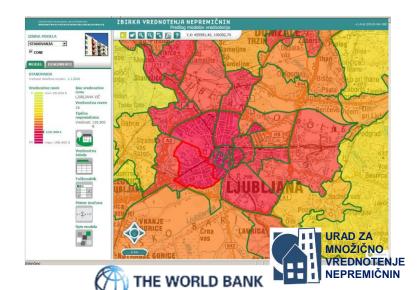
#### Interlinked Data and Services, Macedonia



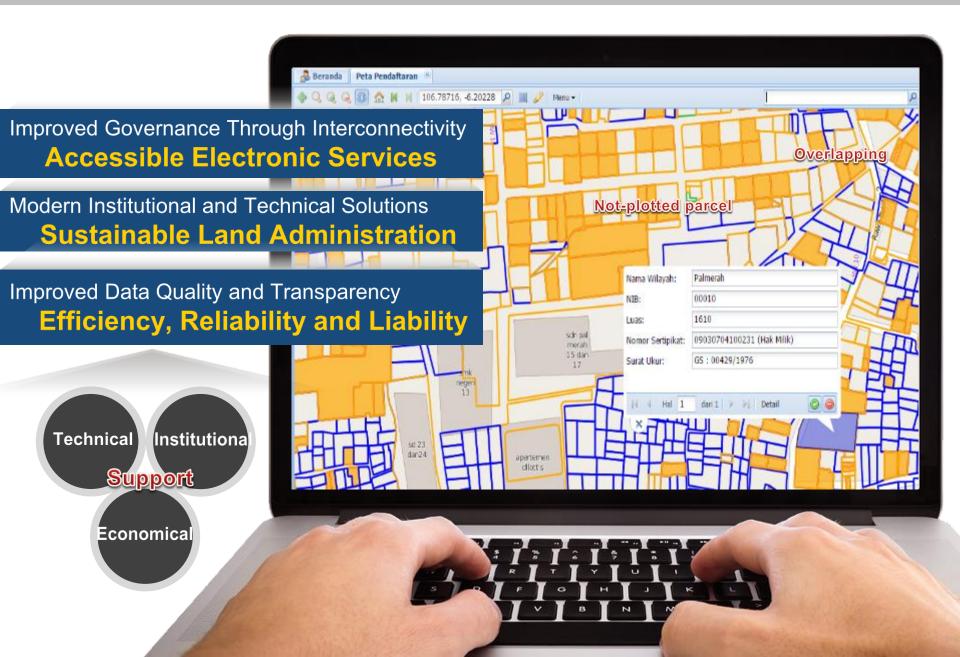
#### Agrarian Reform and One Map, Indonesia



#### Land Records for Mass Valuation, Slovenia



### Land Administration E-Government





Land Administration & Geospatial Information Support Economic and Social Development & Generate Jobs

# Important for (value adding) investments:

- Clear tenure
- Transparency of markets/values
- Availability of data
- Incentivized stakeholders







Source: <u>http://www.uitp.org/</u>

## Our "Two-Speed" World – High Speed vs Low Speed



# 80% of humanity live below US\$10.00 a day or where 70% of humanity do not have clear legally & spatially defined land or property rights ...."

**Source:** Childress, M., Bell, K.C. & Cheehai, T., 2014, *Spatial Innovation & Good Practices in Land Administration Forum*, Report of the Joint World Bank-FIG Forum held March 28, 2014, Washington D.C., Coordinates, May 2014.









# Some of the Notable Characteristics of Land Sector\*

- Colonial legacies embedded in land administration systems, laws & institutions.
- **\*Land related conflicts** that have persisted over the years.
- Frequent occurrences of natural disasters.
- High proportion of forestry lands, Indigenous Peoples & forestdependent communities who hold land in accordance with customary tenure arrangements.
- Large-scale investments in land (e.g., forestry, agriculture, palm oil & mining concessions especially FDI).
- Land acquisition challenges.
- Rapid pace of urbanization & emergence of mega-cities.
- Strong interest & growing investment in SDI & related

Understanding the political economy of land in each country is an essential pre-requisite for engagement.

\*Not all are applicable to all regions of the world



# Land Agency Governance Challenges

# **Substantial Financing**

required for building land records and infrastructure and retaining specialist personnel

Failed financing leads to poor systems, data and services

# 2 Monopoly Commodity

(transaction registration) as the core business line creates vulnerabilities

- Petty and grand corruption
- Wealth accumulation

Governance arrangements and checks and balances define whether land agencies serve, hinder or exploit social and economic growth



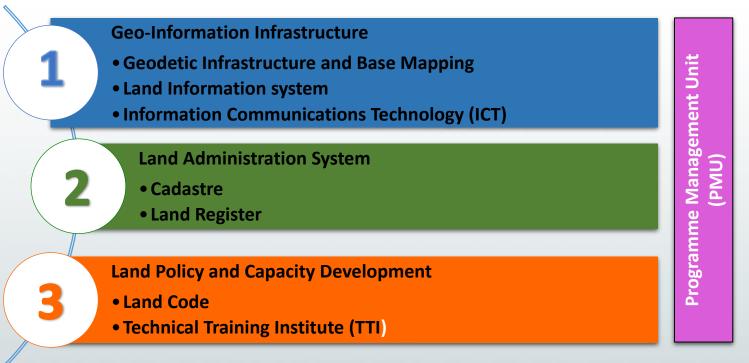


Establishment of Modern e-Land Admin

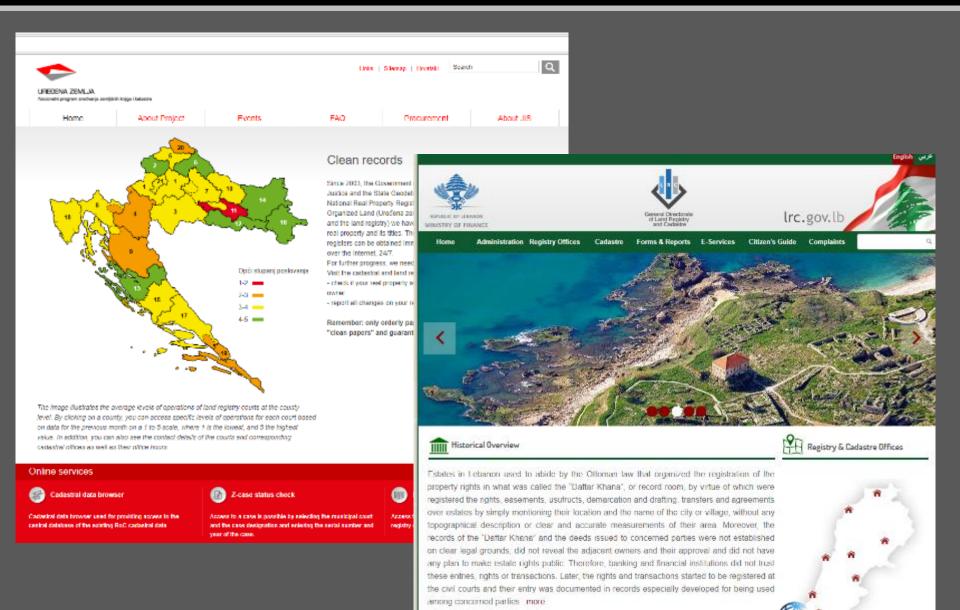
# Topu ve Kadastro Grav tekadastro

#### The IDPL Architecture

The IDPL consists of the following 3 inter-related components and 7 sub-components:



# 600,000 (Lebanon) vs 100,000,000 (Croatia)



WORLD BANK

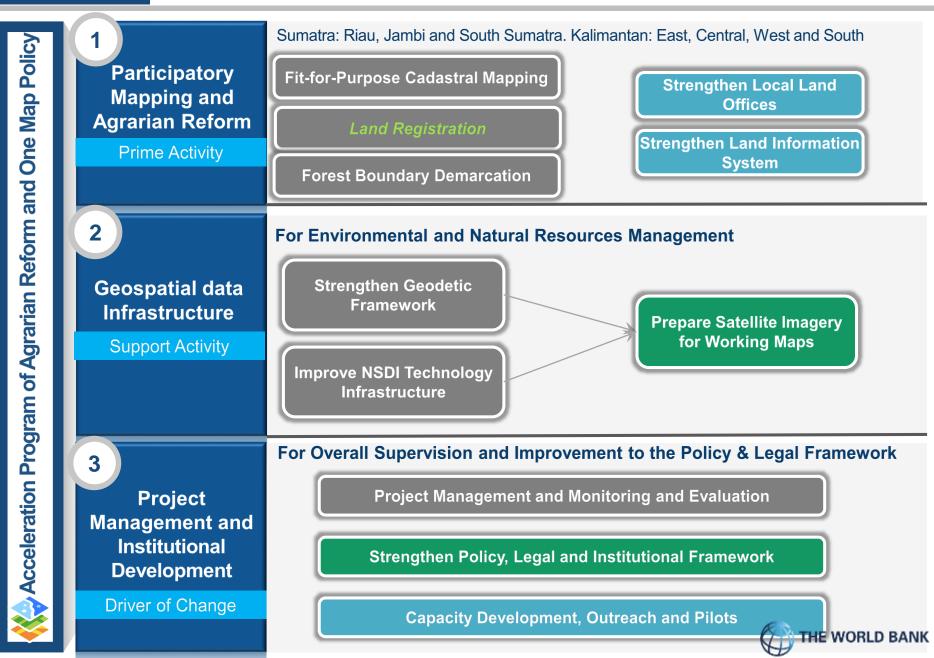
# **TURKEY: 3D City Model Production Project**



Tapu ve Kadastro Genel Müdürlüğü

#### Agrarian Reform New Project in Indonesia, US\$200m+

and OMP





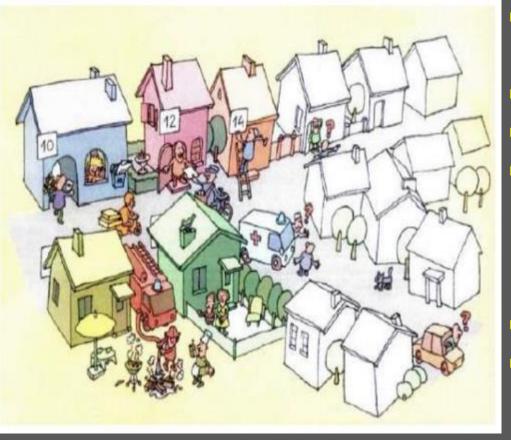
# National Land and Geospatial System Resilience

- Land administration systems provide secure tenure reducing vulnerability, and the baseline for estimating disaster damages and eligibility for support
- NSDI provides the common location platform for identifying the impact, directing responses, reconstituting the pre-disaster land use, identifying areas for temporary shelter, and facilitating planning and reconstruction.



# Property Valuation & Resource Mobilization

## Taxation base requires a reliable cadastre



Builds on digital land registry and cadastre Produces accessible results Creates revenue Improves market transparency, corporate and public asset values, and compensation fairness **Reduces financial risk Facilitates** local government finance



## Strategic Partnership: World Bank – UN Initiative on Global Geospatial Information Management (UN-GGIM)

## "Bridging the Geospatial Digital Divide": Two Key Activities







Develop an overarching Geospatial
Framework for countries to
reference when developing their
national and sub-national spatial
data infrastructures (SDIs).

To be endorsed by member states August 2018

 Assist countries to prepare and implement Country-level Action Plans to operationalize the Geospatial Framework



## **Global Advocacy Campaign for Women's Land Rights**

- Land rights are key for shelter, livelihoods, identity, security ...
- Yet many, especially women, lack secure rights to land.
- SDGs (1.4.2 and 5a) require reporting and action on women's access to land.
- Good laws not enough implementation and impact on women matters.
- Change in social norms required long term effort.
- Improving women's land rights is right and also good economics!
- The global advocacy campaign will be launched with WBG support to raise attention and action on the importance of secure land rights to women.





## Sustainable Societies Must be Spatially-Enabled





WORLD BANK GROUP

Social, Urban, Rural & Resilience



# **Final Remark:** It is About Rights!

#### "The technocratic illusion is that poverty results from a shortage of expertise, whereas poverty is really about a shortage of rights."

Easterly, W., 2013, The Tyranny of Experts. Economists, Dictators, and the Forgotten Rights of the Poor.

Access to land & spatial enablement are fundamental to redressing the shortage of rights

