Fit-for-Purpose

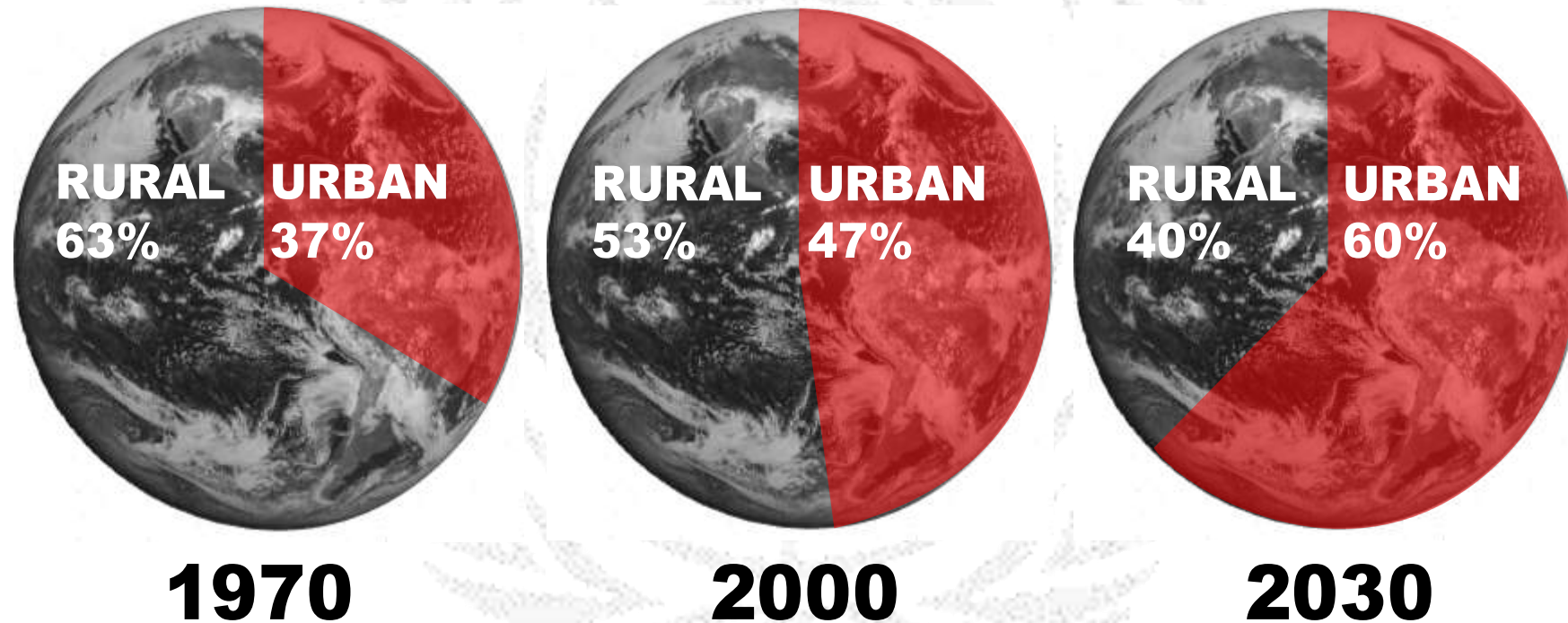**Mika-Petteri Törhönen**
Lead Land Administration Specialist
The World Bank

Global Trends: Climate Change

Global Trends: Urbanization

RURAL 63% **URBAN** 37%	**RURAL** 53% **URBAN** 47%	**RURAL** 40% **URBAN** 60%
1970	**2000**	**2030**

+ **2 billion new urban residents**
1.2 million new km² urban area

Global Trends: Food production

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

F. Fiondella, IRI/CCAFS

- **Increase of population**
- 2 to 3 billion by 2050
- 60% increase in agricultural production

- **Needs of…**

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

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

Social, Urban, Rural and Resilience Global Practice of

Sustainable Communities

CLEAN AND EFFICIENT

INCLUSIVE
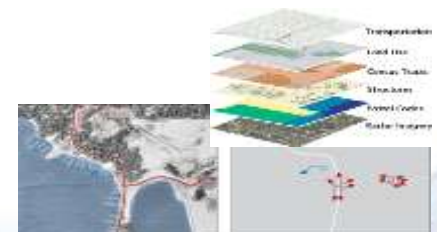
RESILIENT

COMPETITIVE

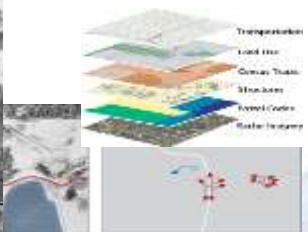*And land is at the center of it all…*

Cambodia; Participatory Land Registration

- **Public Awareness**
- **Adjudication**
- **Demarcation**
- **Surveying**

Parcel Based Land Registration in Cambodia

Land Administration Successes

World Bank Support on Land

- Recognition of **property rights**
- **Land reforms** and anti-discrimination
- **First registration** and cadastral mapping
- Digitalization and **web-based services**
- Land and geospatial records and **eGovernance**
- Sustainable **business models** for land agencies
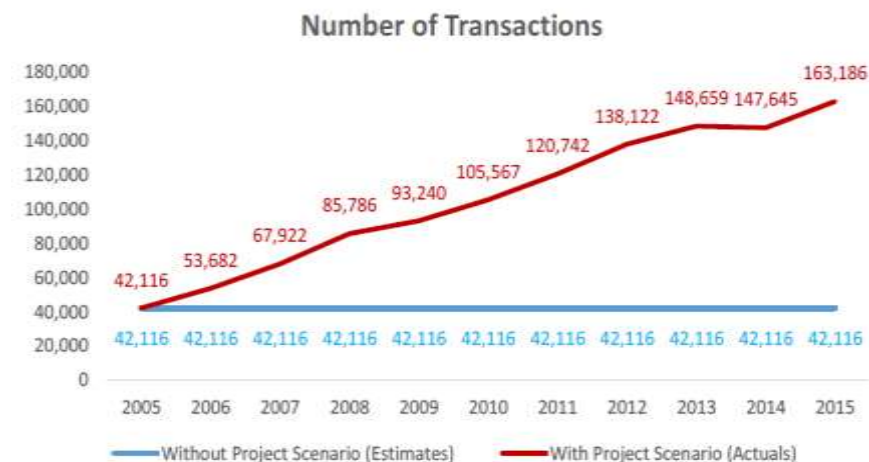
EASTERN EUROPE AND CENTRAL ASIA

Doing Business 2016; Registering Property

1	New Zealand	11	United Arab Emirates
2	Lithuania	12	Denmark
3	Georgia	13	Armenia
4	Rwanda	14	Norway
5	Belarus	15	Iceland
6	Estonia	16	Switzerland
7	Slovak Republic	17	Taiwan, China
8	Kyrgyz Republic	18	Kazakhstan
9	Russian Federation	19	Singapore
10	Sweden	20	Finland

KYRGYZ REPUBLIC

Dramatic Growth in Mortgages in Kyrgyzstan

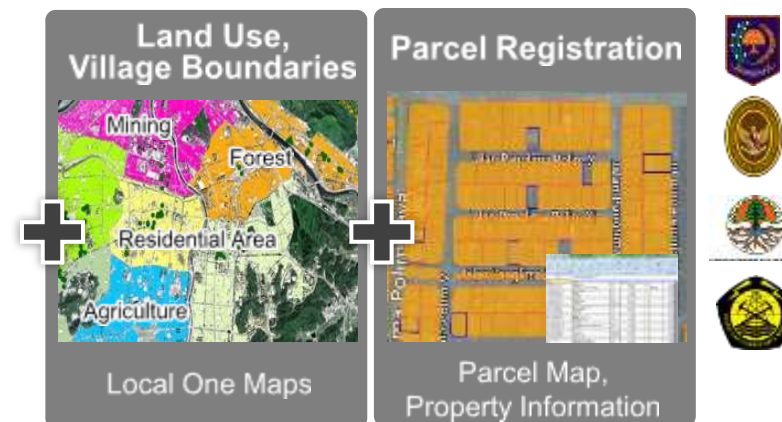## MACEDONIA

Number of Transactions
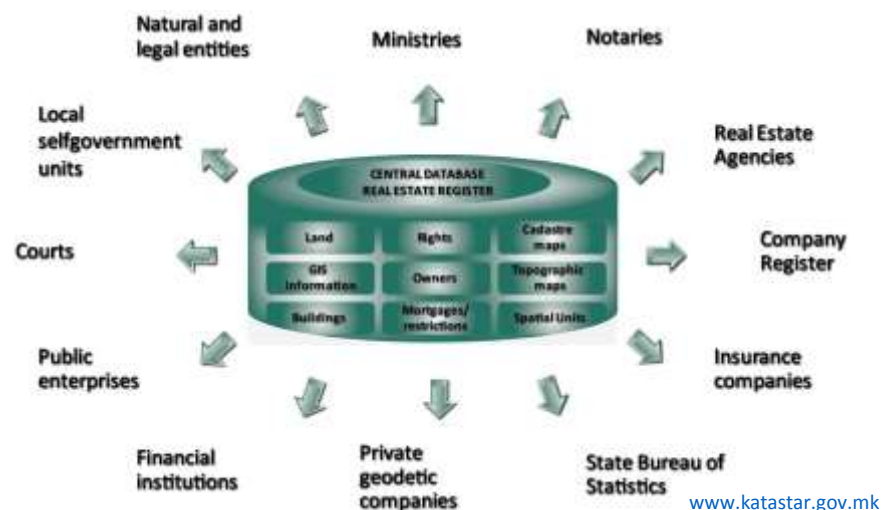
Applied Land Administration; Trends

Modern Land Applications

- Register outputs produced from **interlinked public datasets**
- Digital land and geospatial records used for **mass valuation systems** for property taxes
- **State lands inventory and management** integrated to the land administration system
- One Map defined as the baseline for **environmental conservation and management**
- **Geospatial data provides the base for Early Warning Systems** and other disaster resilience.
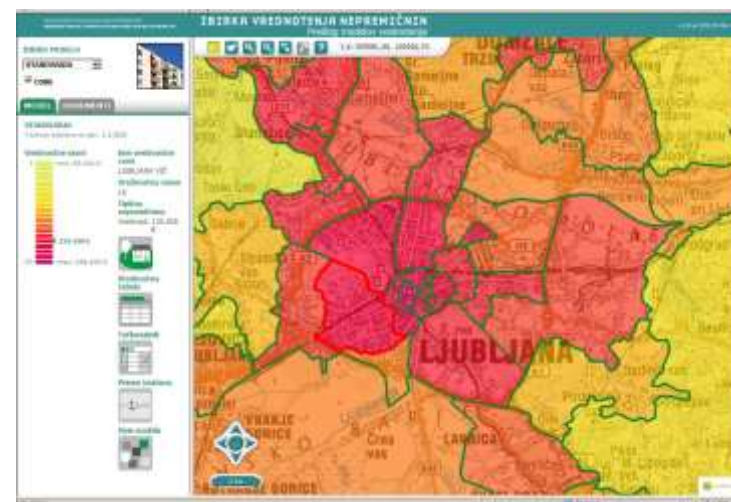
One Map on Land Use in Indonesia

Interlinked Data and Services in Macedonia

www.katastar.gov.mk

Land Records for Mass Valuation in Slovenia

URAD ZA MNOŽIČNO VREDNOTENJE NEPREMIČNIN

OMP for Tenure, Environment and Planning

Geodetic/NSDI Strengthening

Enhanced OMP/NSDI Service with Integrated Geospatial Data Sets

Mining

Forest

Village Boundary

Residential Area

Agriculture

Village Validation

Fit-for-Purpose Participatory Mapping

Field Validation

OMP Synchronization

Actual Land Use

Agrarian Reform Maps (1:5,000)	Forest Management Maps (1:5,000)	OMP Maps (1:50,000)
ATR/BPN	MoEF	MEMR MoHA

BIG

MENKO

One Map Policy in Indonesia

WORLD BANK GROUP

Time to Open Geospatial Data

- Capture innovation

- New businesses, jobs, growth

- Better services

Fit-for-Purpose =
Solutions within Budget!

Our job is the *How*

Folks, let's be part of the solution!