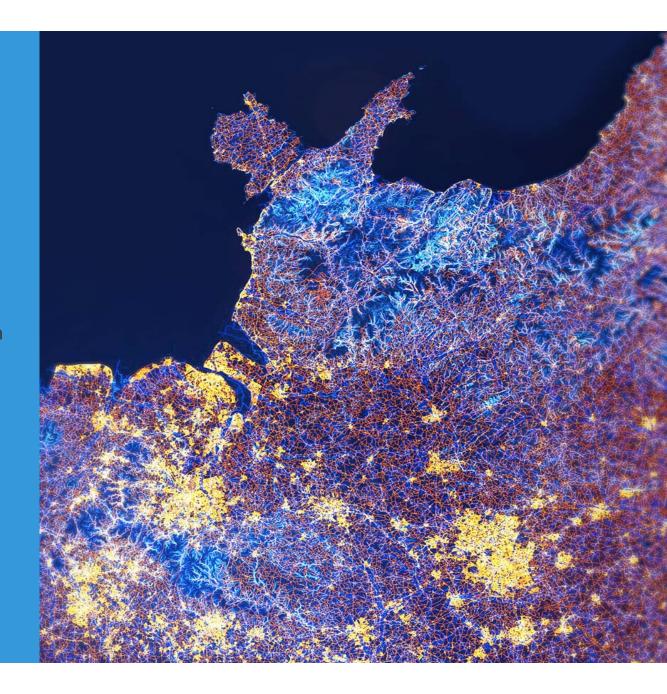
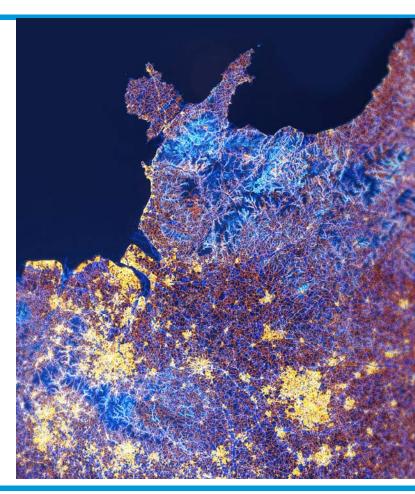
# Future Scenarios for Land Administration — a Status Report Chair UNECE Working Party for Land Administration



Athens 8 Nov 2018

#### Agenda

- 1. WPLA introduction
- 2. Global trends, expectations and constraints
- 3. Objectives with the study
- 4. Methodology
- 5. Results to date
- 6. Next step





#### United Nations Economic Commission for Europe (UNECE)

#### 56 member States in Europe, Central Asia and North America

Albania Belarus	Andorra Belgium	Armenia Bosnia and	Austria Bulgaria	Azerbaijan Canada
Croatia Finland Hungary Kazakhstan Luxembourg Norway	Cyprus France Iceland Kyrgyzstan Malta Poland	Herzegovina Czech Republic Georgia Ireland Latvia Monaco Portugal	Denmark Germany Israel Liechtenstein Montenegro Republic of	Estonia Greece Italy Lithuania Netherlands Romania
Russian Federation Spain	San Marino Sweden	Serbia Switzerland	Moldova Slovak Republic Tajikistan	Slovenia The former
Turkey	Turkmenistan	Ukraine	United Kingdom	Yugoslav Republic of Macedonia United States of
Uzbekistan			of Great Britain and Northern Ireland	America



#### The Working Party for Land Administration

- Overall objective: Promotion and where very ent of land management and administration in the ECE region
- Adhere to and support Agenda 2030 and New Urban Agenda
- Activites are based on cooperation and exchange of experience and best practices among ECE member states through:
  - Workshops and conferences (>= 2 per year)
  - Land administration reviews upon request from governments
  - Publications of studies and guidelines on specific topics
  - Benchmarking
- Coordination with UN-GGIM, PCC, EuroGeographics, FIG, ELRA, FAO, UNDP, UN-Habitat, CLGE, etc.



#### WPLA task group activities 2018-2019

- Continuous benchmarking of land Administration systems – cost study
- Land consolidation
- Informal settlements
- Fraud in land administration
- Future scenarios for land administration



#### Objectives with the scenario study

- Understand emerging developments expected to shape the future
- Support land agencies to identify common challenges, share best practices for solutions and risk mitigation measures and to improve preparedness for future disruptive changes
- Ultimately the study is aimed at contributing with relevant thought leadership to the long-term strategic work of the land agencies for them to <u>stay relevant</u>, liable and provide trustworthy and future proof services



#### Megatrends

Define what we do, how we do things and what is possible to do





Globalization



Urbanization



**Technological** advancement

**New business** ecosystems



Climate change



Individualization



Knowledge-based society



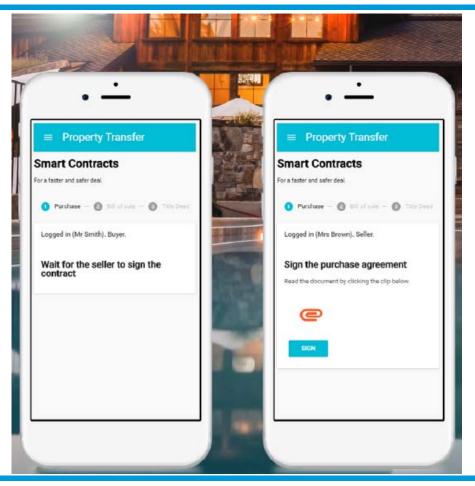
Diversity and pluralism



Agenda 2030



#### **Expectations**





Data-centric organisations - the world's most valuable resource is no longer oil, but data'

Theresa May v Brussels The Ten years on: banking after the crisis Economist South Korea's unfinished revolution Biology, but without the cells The world's most valuable resource Data and the new rules of competition

**Data integration** – geospatial + RRR + thematic data + key registers **Data-driven approach** to facilitate decisions supporting sustainable development

#### Built-in evolution – scalable solutions





## + Involvement in state priorities and investigations

Housing - 700 000 in 10 yrs

Climate change initiatives

Smart cities

Digital first – speed up planning and building process

E-government

Framework for national 3D geospatial data

Blockchain technology

Standardized geospatial processes with local gvt

Update national Geospatial Strategy focusing on solving future challenges in the society

Licensing of dissemination of information from UAVs

3D/4D and closing the gap between BIM and GIS

Open data - consequence analysis

- Increased interaction
- More complex decisionmaking processes
- Make neccessary priorities
- Control processes
- Designate accountability
- Increased business intelligence and internaitonal collaboration



#### + Constraints

- Unsustainable custom-made systems
- Human resources constraints
- Financial constraints
- No holistic policy
- Limited political will
- Weak performance of services
- Siloed data and institutional overlaps/competition
- Low data quality and coverage
- Legal barriers
- Paper-based systems
- Exclusion from formal system







#### Methodology

Dialogue of ideas and visioning among a task group of policy leaders, experts and researchers. Verification procedure through feedbacks from member states based on interviews and questionnaires

- 1. Identify global megatrends and score their relative importance and anticipated impacts on LA within the next 10-15 years
- 2. Clustering the megatrends and combine with the expert group's collective experience to define a scenario cross
- 3. Define four scenarios
- 4. Feedback from the member states including practical examples (February 2018)
- 5. Compile results and present at the World Bank Land and Poverty Conference (March 2019)
- 6. Annual fine-tuning of the scenarios



#### Megatrend analysis

Megatrend	R1	R2	R3	R4	R5	R6	R7	R8	Average	Ranking
1. Demographic change	4	3	6	6	3	8	7	2	4.9	7
2. Societal disparities	3	2	6	4	6	5	4	3	4.1	8
3. Differentiated Lifeworlds	2	2	2	2	8	2	7	6	3.9	10
4. The digital transformation	10	10	10	10	10	10	8	10	9.8	1
5. Volatile economy	8	6	3	7	8	4	5	3	5.5	6
6. Business Ecosystems	8	7	8	8	10	4	8	10	7.9	3
7. Anthropogenic Environmental										
Damage	5	8	7	7	8	2	8	6	6.4	5
8. Decentralised environments	8	6	5	5	10	6	6	8	6.8	4
9. New political world order	3	5	3	3	3	7	6	2	4.0	9
10. Global/regional power shifts	3	5	5	4	2	-	4	3	3.7	11
11. Urbanisation	7	5	9	8	10	-	8	10	8.1	2
Average	5.5	5.4	5.8	5.8	7.1	5.3	6.5	5.7	5.9	



#### Feedback comments

#### Business ecosystems:

"Open data and less motivation for citizens to pay for the services. We do not have customers but open data"

"Enable new ways for land administration, especially due to platform economy and sharing"

#### <u>Urbanization:</u>

"Need for better tools for planning, information in 3D/4D. Also increased need for tools to deal with illegal buildings and slums"

"Will lead to increased importance of rights, responsibilities and restrictions affecting land, real estate and infrastructures"



#### Feedback comments

#### **Digital transformation:**

"We are moving into an age where our core business will be delivering 'digital trust'. Digital networks may become so strong that the land agencies may have no added value anymore if they keep operating in the 'classical' way"

#### Differentiated livelihoods:

"The shift towards a more liberal direction regarding the perception of the relationship between citizens and public institutions result in that the rights and obligations nowadays start from the individual and it is then for the public institutions to respond to the citizens' preferences"

#### **Decentralized environments:**

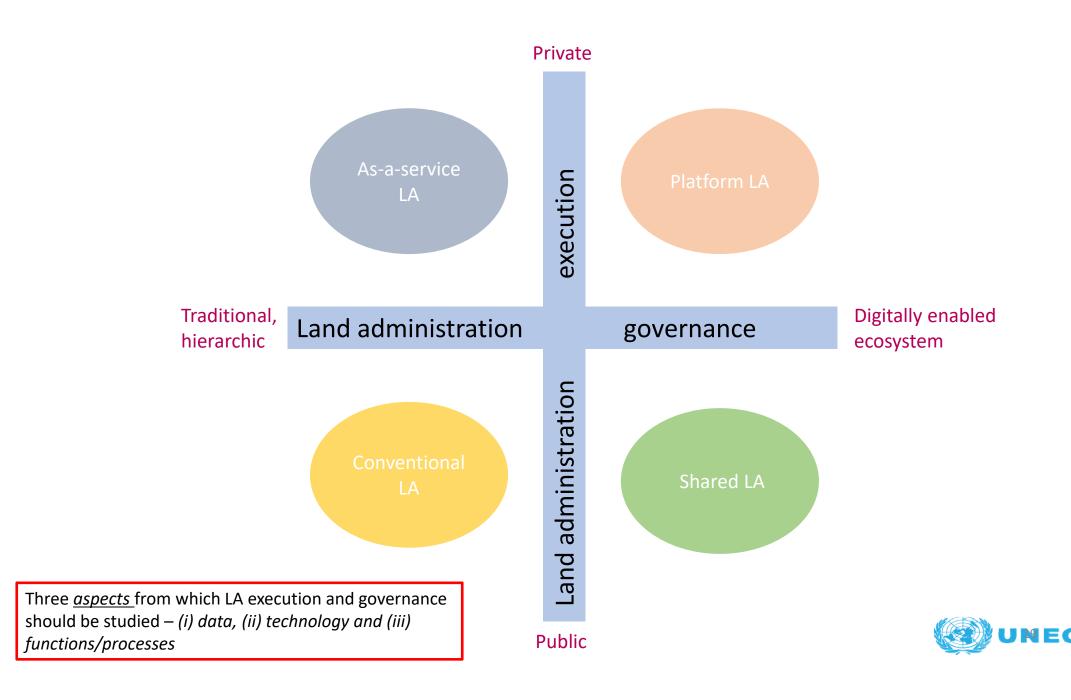
"PPP. Authorities need only for "stamps", private companies' role is increased"



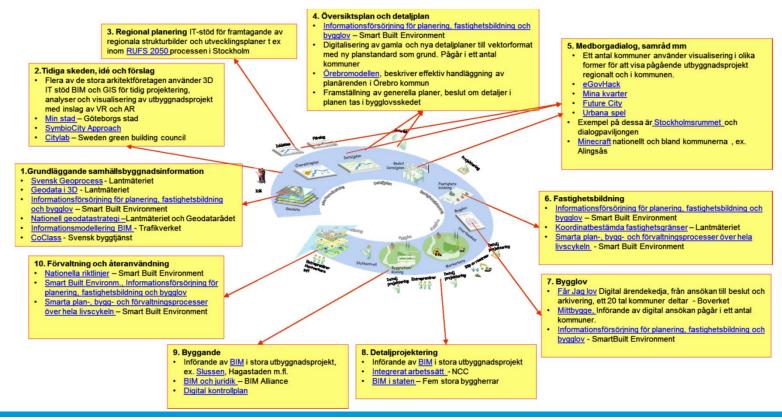
#### Scenario cross - example







#### Platform for the land development and building process





#### Next step

- Round table in December to decide on the scenario cross
- Develop the narrative
- Develop the questionnaire feedback in February
- Present at WB L&P
- ...Annual review



### Sustainable, trustworthy land administration





## Thank you for your attention

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