# Commission 7

Coimbra 2016 working group 7.2

**Universidad de los Andes**

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**LAND IS ABOUT PEOPLE**

*La tierra se refiere a las personas*

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**PEOPLE-LAND RELATIONSHIP IS UNIQUE FOR EACH CULTURE**
*La relación entre tierra y personas es única para cada cultura*

**TODAY, YESTERDAY AND TOMORROW, CONFLICTS ARE ABOUT LAND**
*Los conflictos de ayer, y los de mañana, son sobre la tierra*

- **Working Group 7.2 – Land Management in Climate Change and Pre- and Post-Disaster Areas**
- Chair: Daniel Páez (PhD), Colombia, email: dpaez@uniandes.edu.co
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- **Policy Issues**
- assessment of **land tenure in post-disaster** areas
- pre-disaster assessment / **documentation** of land tenure
- legal/institutional/technical **Fit-For-Purpose methods** to secure land rights in pre- and post-disaster areas
- impact of **climate change** on land tenure / loss of land, land use changes
- compensation for **value changes**, **consolidation of agricultural land**, **adjustment of urban land** in post disaster regions
- **new technologies** for data capture in pre-disaster areas / validation of third party data
- cooperation models with **public authorities / voluntary guidelines in conflicts**
- capacity building in **disaster response** bodies
- **spatial data infrastructures** for pre-, during and post-disaster response (link to FIG Commission 3)

**F I G**

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*FIG Commission 7 working group 7.2 have been working in improving knowledge for Disaster Management*

*"Ensuring the Rapid Response to Change Ensuring the Surveyor of Tomorrow"*

What is FIG
International Federation of Surveyors

**FIG**

What is the 7th Commission
Cadastre and Land Management

What is de 7.2 Group
Climate Change, Disaster Risk Management and Land Administration

**DANIEL EDUARDO PÁEZ – DAVID MITCHELL**

## Publications in Point Share

- *Climate Change and Adaptation*

| Land, Environment and Climate Change | Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation | Surveyor's Role in monitoring, mitigation and adapting to Climate Change |
|---|---|---|

- *Disaster Risk Management*

| Land Ternure and Disaster Risk Managment | Land and Natural Disasters: Guidance for Practitioner | Microfinance and Disaster Risk Management Experiences and Lessons Learned |
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**DANIEL EDUARDO PÁEZ – DAVID MITCHELL**

## Pointshare is an holistic approach to knowledge and data share for disaster management

- **Sharing data, cloud points, orthophotos**

- **Publications and general information**

- **E-Learning material and social networks**

**DANIEL EDUARDO PÁEZ – DAVID MITCHELL**

**Working group 7.2 has the objective, using pointshare, to develop key policy documents in the next 4 years**

Guidelines for post- and pre-disaster management of land rights

Whitepaper on the use of new technologies for spatial data collection for disaster prevention and management

Analysis of climate change impacts on land management and land use

Guidelines for spatial data infrastructure (SDI) development and sharing for disaster management

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# Key issues are still the same…

- Significant different results between cadastre agencies
- An incomplete cadastre
- Lots of technology, very few results
- Overlapping of competencies

Situation today

## What we drive?

- Out of date
- Expensive to run and maintain
- Does not support sustainable development

**Rural** cadastre – IGAC, Antioquia

- Capable to drive fast but…
- an old model renovated
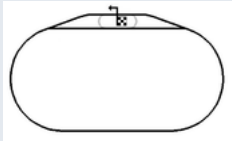- Expensive to run and maintain

**Urban** Cadastre – Bogota, Medellin Urban parts IGAC

- Modern
- Efficient to run
- Serve the needs of market and sustainable development

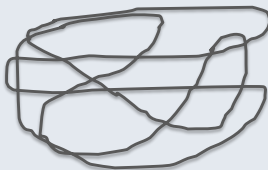Swedish, Dutch, Austrian cadastre

## Where we drive?

- Straightforward processes
- Multi-purpose
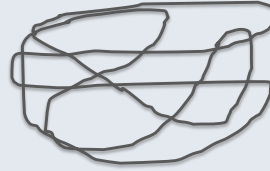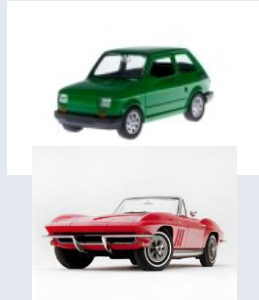- Good road signs (Clarity of competencies)
- No overlaping

Ej: Australlia

- Multi-purpose
- Good road signs (Clarity of competencies)
- Some costly corners for development
- No overlaping

Ej: USA

- No line-marking
- Many overlapping between agencies
- Costly processes and lack of result
- where is the fiishline? (no clear purpose)

Colombia

Where we race

- No improvement for the poor
- Increases in land disputes
- New agencies for new purposes



By the citizen for the citizen

Problem

- Straightforward processes
- Multi-purpose
- Integration cadastre-registry
- Fit for purpose

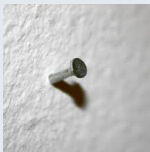How to remove the nail?

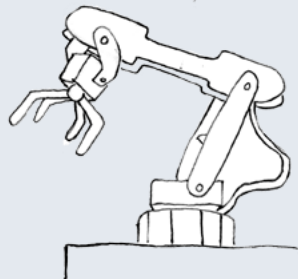## Lawyers propose…

**Problem**



**Computarized screw driver**



Over complex bullet-proof processes
Based on an effective burocracy (that does not exist)
Good for other purposes…but not for the cadastre

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## Technology sellers proposes…

**Problem**



**Robotic arm**



Fit the purpose
Expensive investment (already US200m other US$400m)
Expensive to maintain (high technology, many staff)
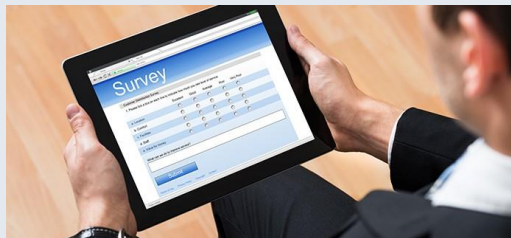
## What we need…

### Problem

**A hammer…**

- Legislation that changes the racetrack
- A focus on a multi-purpose cadastre that all can use
- Decentralization
- Open technological tools for the vehicles on the track
- Funding sources from land value capture to buy a new efficient car

Focus on the objectives
Simple to use by all agencies
Cost-efficiently

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# Online survey for technology use, regulation and future

- To be distributed to FIG members
- Questions reviewed by Commission 7 (this week!)
- Write a white paper

October 2017
Cartagena – Colombia
# COMM 717
## Annual meeting

Universidad de
**los Andes**