



# FIG WORKING WEEK 2023

28 May - 1 June 2023 Orlando Florida USA

*Protecting  
Our World,  
Conquering  
New Frontiers*

## TS02C: FIG / GLTN Working Together on Land and Climate

**Monday, 29 May 2:30–4:00 pm**

Session Chair: Roshni Sharma



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## Session purpose

- FIG has a long history of developing land tools within the GLTN context. How can these experiences and tools be adapted to engage with the land and climate agenda?
- What land tools do FIG members need to advance their climate engagement and work?
- How can FIG professionals contribute within the context of GLTN on the land and climate agenda?



## Agenda

- Welcome and housekeeping
- Core Presentations
- Thought provokers
- Open discussion
- Next Steps & Closing Remarks



## Core Presentations

- John Gitau





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## Global Land Tool Network *Overview of Tools, Approaches and Experiences*

**John Gitau**

Land, Housing and Shelter Section

UN-Habitat

29 May 2023

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## KEY LAND GOVERNANCE CHALLENGES

- Informal and customary tenure systems – informal register
- Complexity of land rights, claims and records
- Systemic inequalities (*e.g. women's limited access/control over land*)
- Rapid urbanization is increasingly putting pressure on land (*e.g. urban sprawl 175% by 2030, slums*)
- Food insecurity and pressures on agricultural land (*need 70% increase in food production by 2050*)
- Technology versus capacity
- Disaster and post conflict recovery

**Conventional land systems cannot deliver tenure security at SCALE!**



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## WHO WE ARE



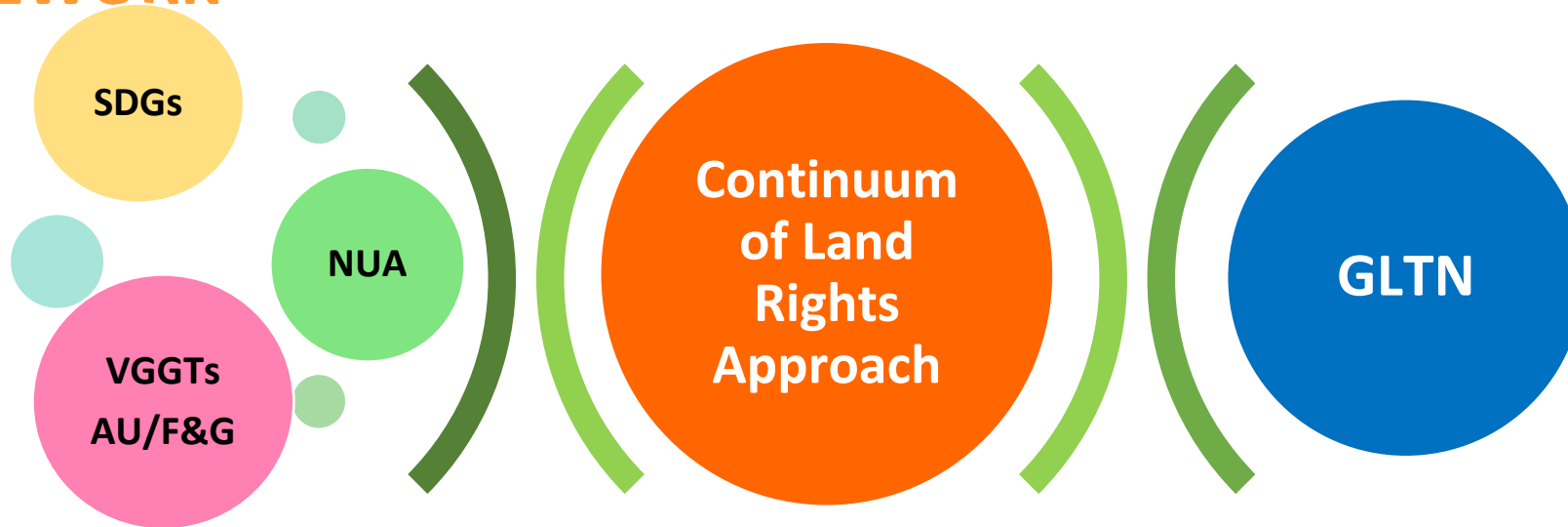
- Established in 2006, GLTN is a dynamic and multisectoral alliance of over 85 international partners committed to increasing access to land and tenure security for all, with a particular focus on the poor and women
- Network's partners include international civil society organizations, research and training institutions, bilateral and multilateral organizations, and international professional bodies.

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## GLTN FRAMEWORK



Frameworks

Pro-poor, gender responsive and **fit-for-purpose** land policies, tools and approaches

Over 85 partners and counting

***'For a world in which everyone enjoys secure land rights'***



## KEY AREAS OF INTERVENTIONS

- Tools development and implementation
- Awareness and knowledge building (e.g. GLII, continuum of land rights)
- Championing land governance initiatives (e.g. LGAF, VGGTs, ALPC)
- Regional and country engagements
- Capacity development
- Strengthening partnerships and coalitions



## GLTN PHASES

- **Phase 1 (2006–2011)** - GLTN developed an innovative, inclusive approach and methodology for understanding land tenure security via the Continuum of Land Rights
- **Phase 2 (2012–2018)** - GLTN has fostered partnerships for country-level implementation. It has overseen the intensive testing and improvement of tools in a variety of different contexts and the development of capacity for implementation at scale
- **Phase 3 (2019-2023)** - GLTN developed more institutionalized approaches and strategic interventions to scale up land tools for country-wide implementation and impacts
- **Phase 4 (2024 – 2027)** - under development but expected to consolidate national pilot and scaling work while strengthening global normative impact



GLOBAL LAND TOOL NETWORK  
STRATEGY 2018-2030

*A WORLD IN WHICH EVERYONE ENJOYS SECURE LAND RIGHTS*

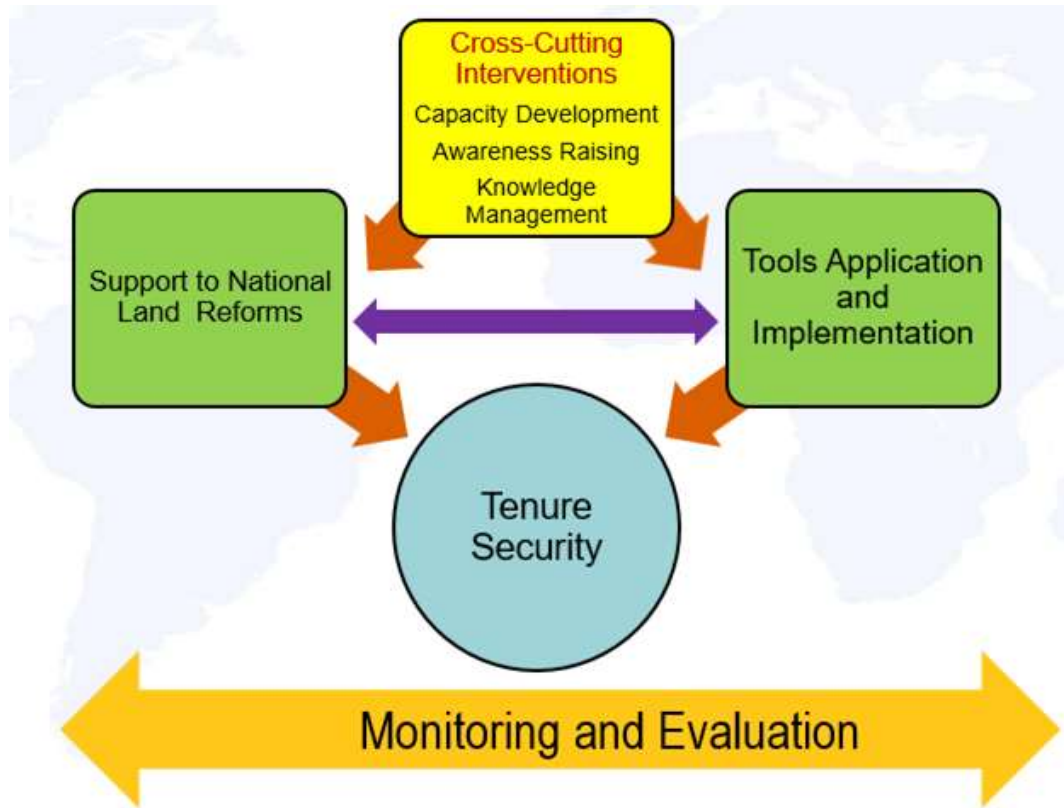
## DATA AND MONITORING

# Global Land Indicators Initiative (GLII)



Developing a common framework for tracking progress on land issues.

## COUNTRY ENGAGEMENT



1. Democratic Republic of the Congo
2. Iraq
3. Jordan
4. Kenya
5. Lao PDR
6. Lebanon
7. Libya
8. Namibia
9. Nepal
10. Palestine
11. Philippines
12. South Sudan
13. Syria
14. Tunisia
15. Uganda
16. Yemen
17. Zambia

## GLOBAL OUTCOMES AND LOCAL IMPACT

### 1. Global Outcomes

- Binding resolutions, policy or legislation change: principally local and national policy and practice change to date
- Contribution to global development agenda

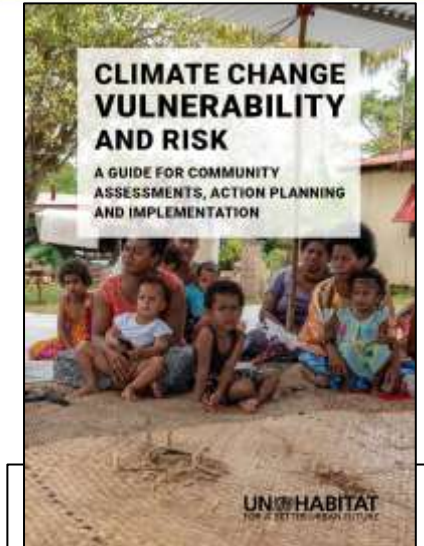
### 2. Local Impact

- Actual change on the ground: peace, prosperity, planet, people. Sustainable impact on the ground can be demonstrated in at least 70% of countries with significant activity and potential remains in most others provided we can maintain activities



## LAND AND CLIMATE STRATEGY

- Develop normative knowledge on land and climate change nexus
- Mainstream climate work stream in GLTN's Phase 4 programme
- Incorporate relevant climate resilience strategies in regional and country land tenure interventions
- Create awareness and promote climate-resilient land administration approaches in global, regional and national events and multi-stakeholder platforms



Climate-Resilient Land Administration: A Framework for National and Settlement Level Implementation

GLTN Training and Research Cluster

Acknowledgements:  
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## THANK YOU

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## Core Presentations

- Professor David Mitchell







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## Core Presentations

- Professor Eugene Chigbu





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# Urban & Rural Linkages and Climate

**Uchendu Eugene Chigbu**

Global Land Tool Network & Namibia

University of Science and Technology

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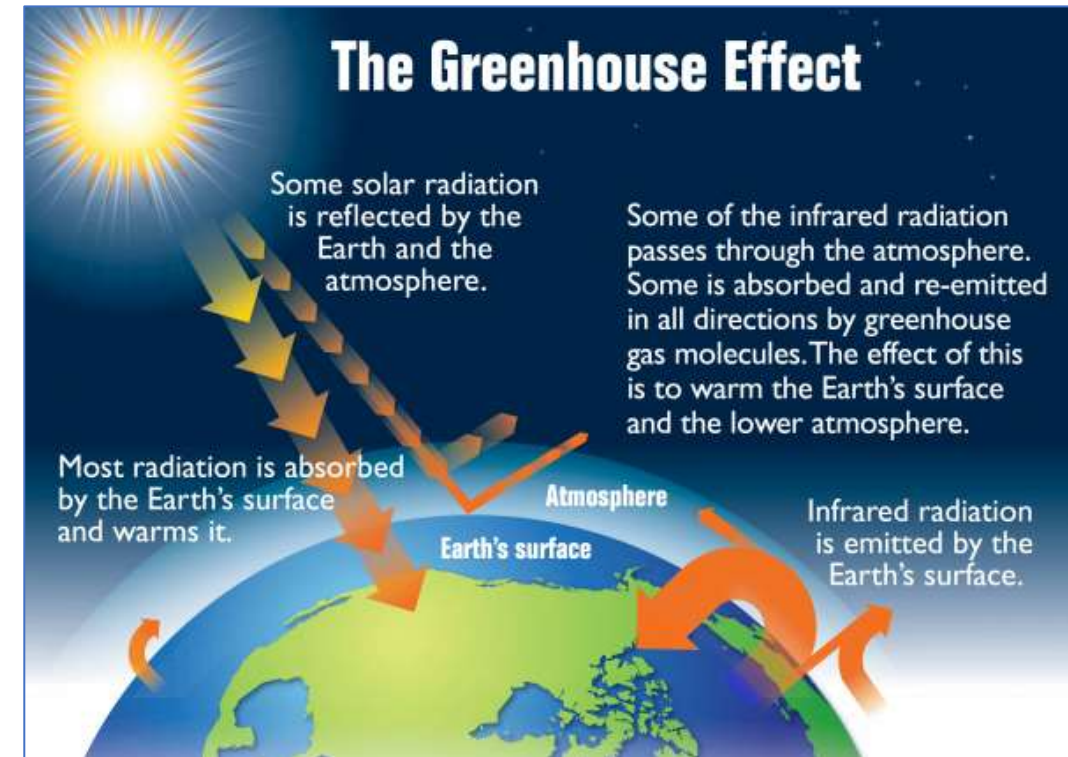
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## Climate change

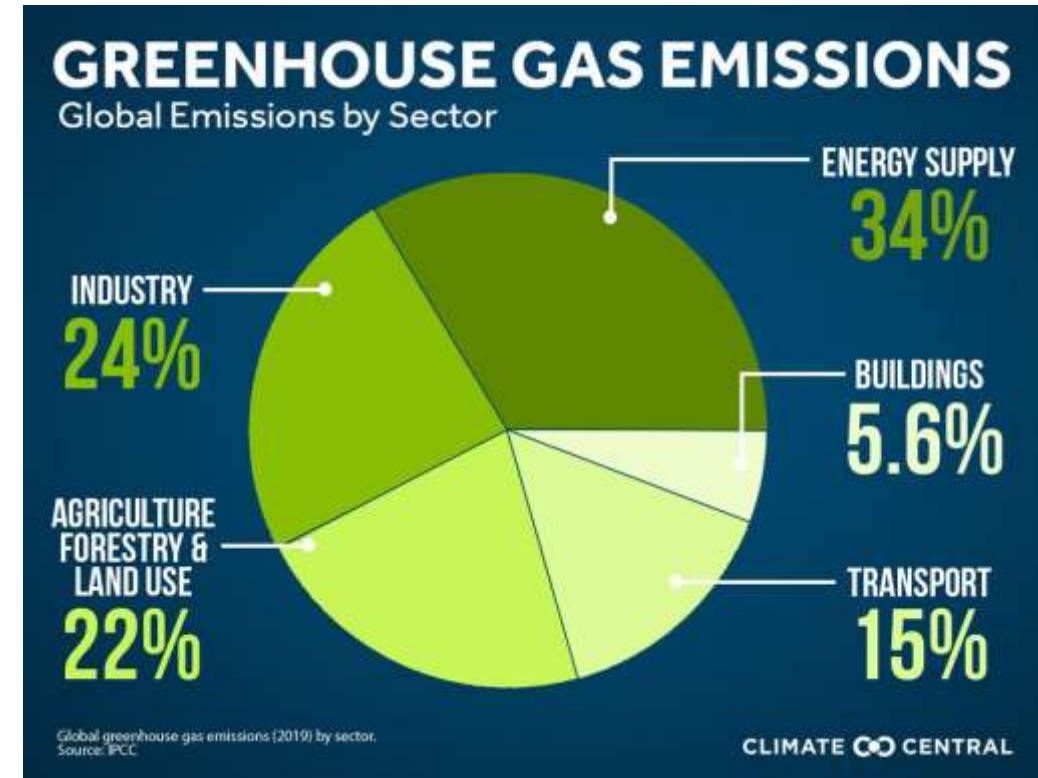
- Climate change refers to long-term shifts in temperatures and weather patterns (natural or human caused).
- Since the 1800s, human activities have been the main driver of climate change, primarily due to the burning of fossil fuels like coal, oil and gas.
- It is due to greenhouse gas (GHG) emissions that act like a blanket wrapped around the Earth, trapping the sun's heat and raising temperatures.

Climate healers (2023)



## Emission by sector: Climate change is all about land

- The land sector: Energy, industry, transport, buildings, agriculture, forests and other land uses are among the main origin of the GHGs emissions.
- About 77% of the agricultural land on the planet is directly used for raising animals.
- About 23% is used for raising crops:
- Since half of the crops are fed to animals, animal agriculture accounts for more than 86% of the agricultural land area on earth.

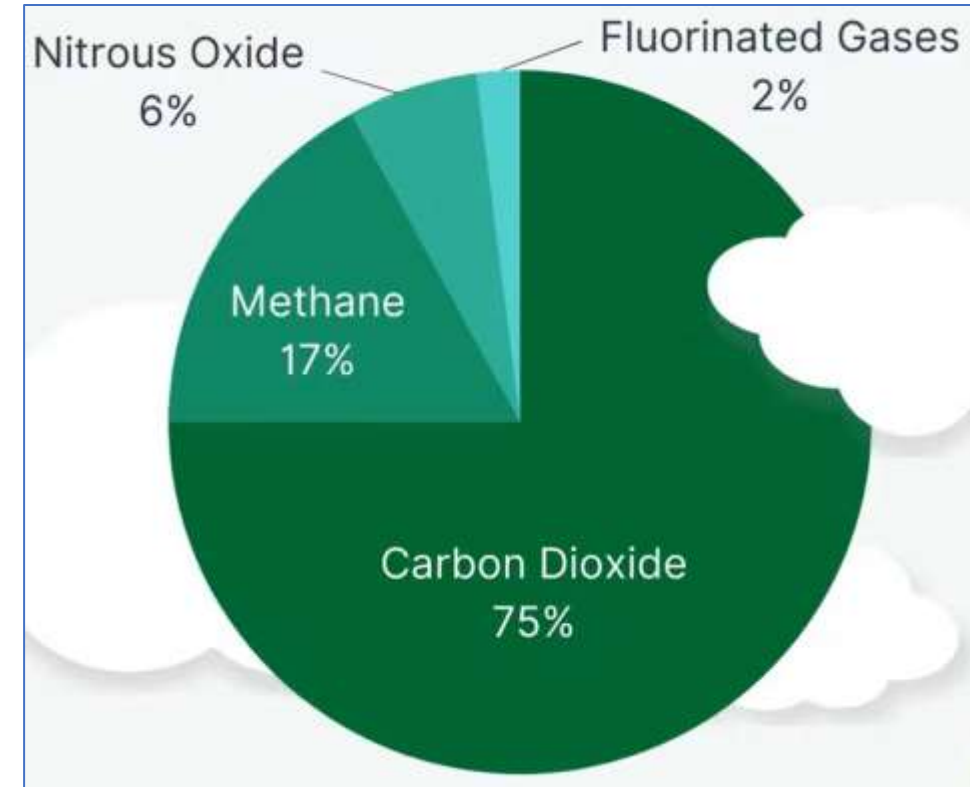


Climate healers (2023)

## Emission by sources: Climate change is all about land

- Land stores three times as much CO<sub>2</sub> as the atmosphere.
- 98% of the CO<sub>2</sub> stored on land is in forests and cropland while 2% is in deserts and grazing land used for animal agriculture.
- Forests are one of the most important solutions to addressing the effects of climate change. Approximately 2.6 billion tonnes of carbon dioxide (one-third of the CO<sub>2</sub> released from other sources), is absorbed by forests every year.

Climate healers (2023)



## urban-rural land linkages (URLLs)

- Urban-Rural Land Linkages: A Concept and Framework for Action – a collaborative work of the Global Land Tool Network (GLTN), the UN-Habitat, the International Federation of Surveyors (FIG) and the Namibia University of Science and Technology.
- Developed in response to finding new ways of conceiving the interlinked land challenges (peri)urban and rural areas face to find new ways of solving them.

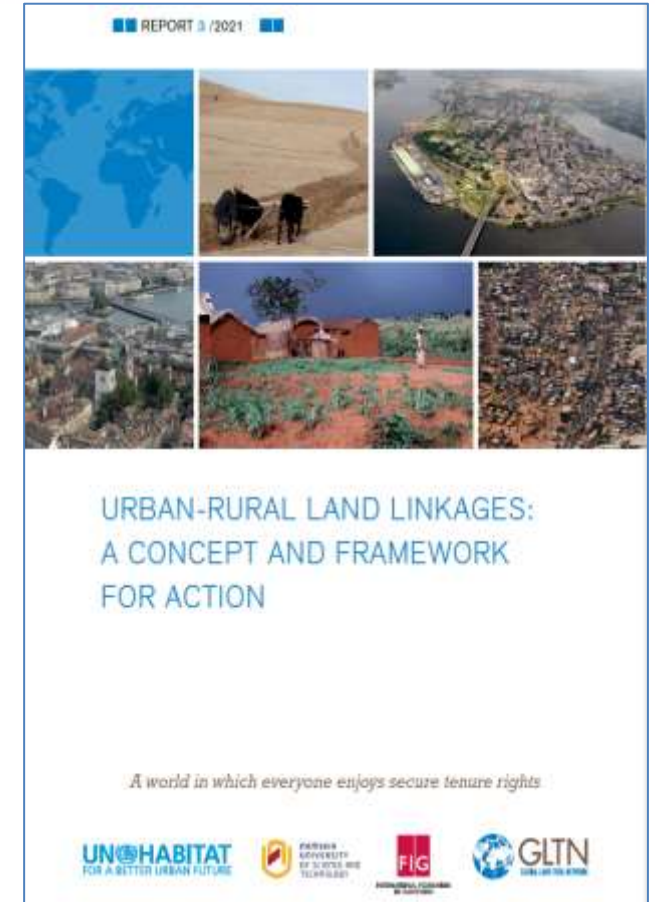
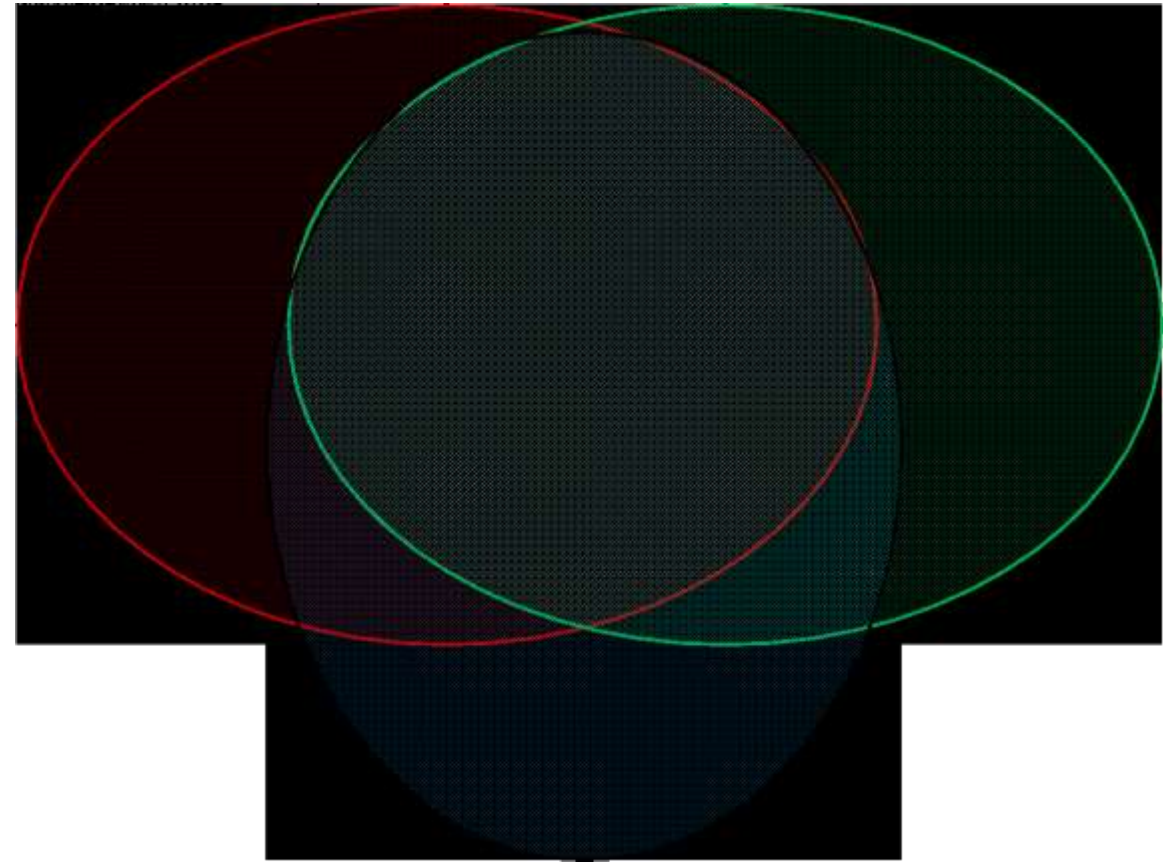


Figure 1: URLLs report of the GLTN

## Climate change as an urban-rural wide challenge

- A critical look at prevalent land issues suggests that urban (including peri-urban) and rural areas share some common and distinct land-related problems.
- Climate change is directly an urban-rural land issue that requires urban-rural land solution.
- Climate change mitigation

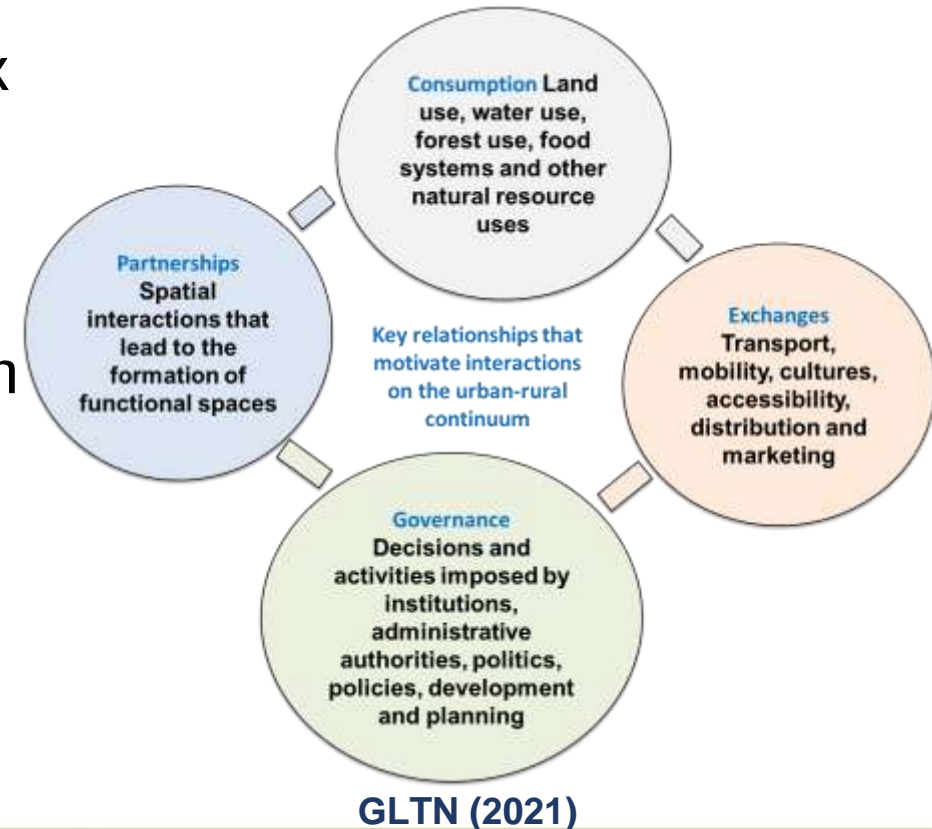


GLTN (2021)



## What has URLLs to do with climate change?

- Urban-rural land linkages (URLLs) has potential to unlock climate change mitigation opportunities through the urban-rural nexus of land administration.
- URLLs is about the planning of land and spaces (spatial planning) to enable the various exchanges between urban and rural areas to provide a continuum of development that benefits all units.
- The climate change dimension involves managing land and living spaces to contribute to climate change mitigation.



## How urban-rural land linkages can influence climate change

- Managing land functional interdependencies across urban and rural borders.
- Regulating spatial adaptation and land conflicts between the land sectors of agriculture and nature.
- Tackling conflicting and synergistic properties of different land uses.
- Adapting land tenure to ensure climate adaptive human behaviour.
- Integrating climate change measures in land/spatial planning processes from a cross-urban-rural perspective.
- Engagement in cross-border land tenure, land rights and climate change policies as a continuum of land issues.

## Thought provokers

- Paula Dijkstra





BE THE

CHANGE

Take the Challenge

## Thought provokers

- Clarissa Augustinus



# LEARNING FROM GLTN'S HISTORY AND USING IT FOR CLIMATE

by  
CLARISSA AUGUSTINUS

**International Federation of Surveyors Working Week 2023**  
**'Protecting Our World Conquering New Frontiers'**  
*Orlando, USA, 28 May-1 June 2023*



## Thought provokers

- Segretario Enrico Rispoli



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## Sustainable Development Goals

Let conserve sustainably of territory and resources to collaborate to drives global systems that make the Earth habitable for humankind.

What are the opportunities to be protagonists?



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Aggressive policies, implemented now without delay, can postpone the moment when global warming would lead to truly catastrophic consequences, giving us more time to be able to avoid them

## Mobilization must involve young people above all



**NEXT  
GEN  
EU**

**SUSTAINABLE  
DEVELOPMENT  
GOALS**

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**Interventions for sustainable development include new skills in surveying**

**With our experience we must look to the future with enthusiasm of youth and their imagination and encourage every possibility of collaboration**

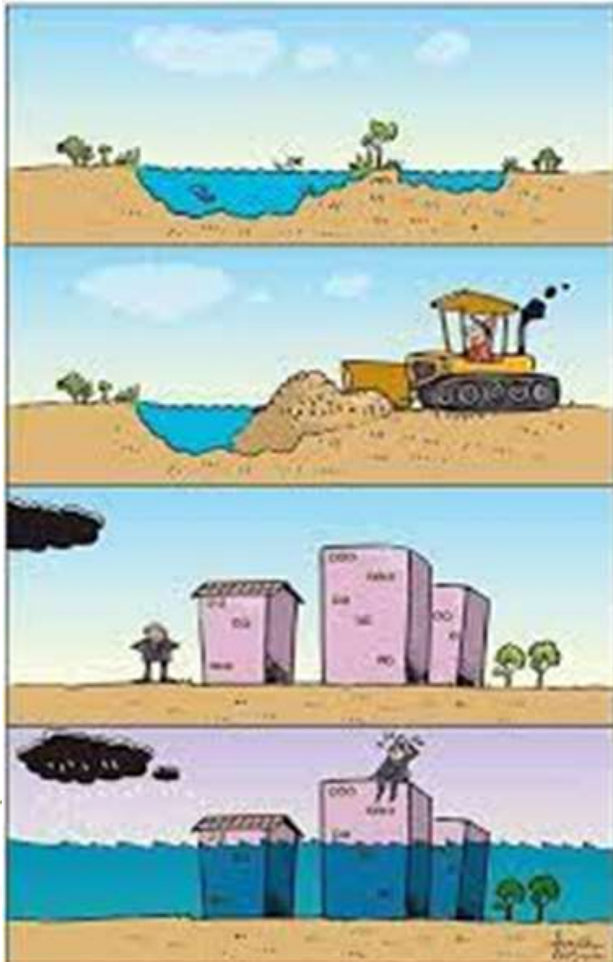


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The prevention of hydrogeological instability  
The monitoring of river flows is very important,  
the activity aimed at calculating how much the  
overbuilding of the soil used by the inhabited  
centers can modify the natural ability of the  
slopes to disperse water without creating  
flooding.



## Open discussion

- How can professionals promote this work?
- What will it take?



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