



NICS

Kathmandu, Nepal
14–16 November

Regional Conference 2024



Climate Responsive Land Governance and Disaster Resilience: Safeguarding Land Rights

CALL TO ACTION

15 NOVEMBER, 2024
KATHMANDU, NEPAL

CALL TO ACTION – EXECUTIVE SUMMARY

To provide actionable insights and tools to address climate change and disaster resilience, emphasising the importance and need of land professionals' expertise in safeguarding land rights

A Call to Action was developed during the **International Federation of Surveyors (FIG)** Regional Conference in Kathmandu, Nepal 14-16 November 2024, hosted by the Nepal Institution of Chartered Surveyors (NICS). This Call to Action provides actionable insights and tools to enhance the role of surveyors, property valuers, and land practitioners in addressing **climate change** and **disaster resilience**. It emphasizes the importance and need of expertise in **safeguarding land rights**, promoting **sustainable land governance**, and **mitigating the impacts of climate change**, with a focus on **equity and inclusivity**.

Climate change is one of the most pressing challenges of our time, with significant implications for land use, property values, and tenure security, particularly for vulnerable and marginalized communities. By addressing these issues, you can contribute to achieving global climate goals and the Sustainable Development Goals (SDGs).

Use this call-to-action to:

1. Develop and implement climate-resilient land governance practices.
2. Build capacity in using spatial data for climate action and disaster recovery.
3. Advocate for equitable policies and practices that protect land rights.
4. Engage in regional partnerships and knowledge-sharing initiatives.

Key Focus Areas are:

1. **Safeguard Land Rights:** Promote climate responsive land governance frameworks and fit-for-purpose land administration, including for secure land tenure, equitable land use planning, transparent land administration and valuation and coordination across government.
2. **Collaborative Partnerships:** Build regional networks and a partners' platform to share knowledge, technology, and best practices for climate resilience and disaster management, also through supporting UN-GGIM frameworks.
3. **Capacity Building:** Enhance technical and professional skills to measure, monitor, and address climate change and natural disasters using innovative technologies and approaches.
4. **Disaster Resilience:** Promote rapid response and recovery mechanisms, including for land administration, valuation, compensation, and transparent land management practices.
5. **Innovative Practices:** Embrace sustainable urban planning, smart cities, and technology-driven approaches to manage land and water resources effectively.
6. **Youth and Equity:** Empower young professionals, women and marginalized groups to take leadership roles in climate-resilient land governance.

With these priorities you can play a significant role in creating sustainable, climate-resilient communities and ensuring just land governance for future generations and by aligning your work with land practitioners, land use planners, surveyors, valuers, or other related professionals.



**INTERNATIONAL FEDERATION OF SURVEYORS (FIG) REGIONAL CONFERENCE FOR ASIA
ON 'CLIMATE RESPONSIBLE LAND GOVERNANCE AND DISASTER RESILIENCE: SAFEGUARDING LAND
RIGHTS'**

HELD IN KATMANDU, NEPAL ON 14-16 NOVEMBER 2024

CALL TO ACTION

PREAMBLE

The participants at the FIG Regional Conference held in Nepal on the 14-16 November, 2024 in Katmandu, hosted by the Nepal Institution of Chartered Surveyors (NICS), have acknowledged that the climate crisis represents the single greatest challenge facing humankind. We need to ensure that the planet remains sustainable and our people remain resilient. This theme underpins the FIG Council's vision of sustainability over the term 2023-2026. Because of the importance of climate change to the global community, FIG wishes to examine and actively promote the engagement and role that surveyors, property managers land practitioners can play in contributing to the climate change agenda. FIG wishes to lead its members so that they can fully understand, articulate and use their expertise and practical knowledge to tackle the important challenges in climate action, including focusing on the economic impact on the tenure (including ownership) and value of undeveloped and developed land. Noting that climate change affects everyone but it affects the hits the poorest and those without secure land rights the hardest and aggravates existing inequalities, further increases the levels of exclusion for the marginalised.

This Regional Conference for Asia and Call to Action is intended to be a major milestone in achieving the FIG vision. The NICS, as an FIG Member Association, has actively worked to support the achievement of this vision and milestone with reference to the Asian region. This Regional Conference discussed a range of climate challenges in the region such as greenhouse gas emissions/carbon, biodiversity loss, deforestation and large-scale land use change, urban sprawl into agricultural land, flooding, land-slides, water scarcity, and more, also considering disaster resilience and the safeguarding of the land rights of vulnerable people.

The expertise of FIG Members in the region and the role of surveyors and land practitioners are critical in achieving the climate change agenda and the Sustainable Development Goals (SDGs). Surveyors, property managers and land practitioners contribute to sustainability through a wide range of activities as evidenced from the Call to Action below. Young surveyors have a critical role to play in this also because of the uncertain outlook for the Asian region due to climate change and poorly managed natural disasters. Regional cooperation will improve the ability of FIG Members, surveyors, property managers and land practitioners to achieve humanities climate goals.



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This Conference which is focused on climate action builds on, and takes forward, the work of previous FIG conferences, workshops and publications addressing climate such as:

FIG Christchurch Declaration: Responding to Climate Change and Tenure Security in Small Island Developing States: The Role of Land Professionals (2016). This Declaration highlighted the United Nations frameworks which should underpin the work of surveyors, such as the FAO Voluntary Guidelines on Responsible Governance of Tenure, Forests and Fisheries (2012). It also identified some of the key elements needed to address climate change such as building climate resilient land governance, valuation approaches and capacity development. Regional capacity development and technical coordination, collaboration and partnerships was identified as key to meet the climate crisis. [Read the publication](#)

FIG Publication No. 65 The Surveyors Role in Monitoring, Mitigating, and Adapting to Climate Change, FIG Task Force on Surveyors and Climate Change (2014). This report highlighted the key role surveyors play regarding climate resilience in different sectors such as: urban, including peri-urban areas, rural areas, coastal zones, forest resources, carbon credit markets, large scale agriculture, water resources, the construction of physical infrastructure, energy and the spread of disease. All of these issues are important for the Asian Region and our resolutions need to ensure we can address the climate issues in all these sectors. [Read the publication](#)

FIG Publication No. 55 Spatial Planning in Coastal Regions, Facing the Impact of Climate Change (2010). This report focuses on climate change in coastal zones and highlights the issues of spatial planning, impacts of climate change on coastal zones and sea level rise, coastal zone management, assessment of coastal vulnerability, valuation of coastal resources (including non market) and coast adaptation, policy processes for coastal adaptation including for wetlands, mangroves, Small Island Developing States and moving coast lines. Again, all of these issues are important for the Asian Region and our resolutions need to ensure we can address the climate issues associated with coastal zones. [Read the publication](#)

KEY MESSAGES

This Call to Action aims to deliver concrete strategies and actionable recommendations to

- Strengthen and safeguard land rights for both women and men against climate challenges
- Foster collaborative partnerships for climate resilience and to bridge gaps
- Enhance disaster resilience of both people and place through knowledge and capacity
- Enhance regional responses through best practices and fit-for-purpose standards
- Strengthen land governance, equitable land decision making, and empower land practitioners
- Increase monitoring and measuring for climate action, and flow through impacts to land tenure, property and environmental management.

In this **Call To Action**, we call on all FIG Member organizations, affiliates and surveying professionals, particularly in the Asian Region, to become involved in climate responsible land governance and disaster resilience, including safeguarding land rights as per the Call to Action resolutions below:



Call to action proposals

Continue to Engage and Bridge the Gaps

- 1.1 Identify gaps in practical knowledge, capacity, implementation, resources, and coordination within the region related to addressing climate change and disaster challenges with a focus on safeguarding land rights of vulnerable groups when using spatial data for climate action and disaster recovery.
- 1.2 Bridge the gaps in the region by empowering, engaging and building the capacity of communities, professionals and organizations to effectively address and climate change, support disaster recovery, and safeguard land rights of vulnerable groups through the use of spatial data.

Unite for Collaborative Partnerships: From Local Action to Global Impact – Connecting Professionals to Advance Spatial Governance

- 2.1 Establish collaborative regional partnerships among (sub-)national and regional institutions (academic, professional, civil society) for effective practical knowledge sharing and technology transfer to address the multifaceted challenges of climate change, disaster management, land-climate nexus, and transboundary climate issues. Strengthen regional collaboration to build capacity for government to engage in a context specific way at local levels.
- 2.2 Create a collaborative regional professional forum that brings together government authorities, professionals, academicians, civil society organizations, private sector and development partners from across the region that will advocate and facilitate knowledge sharing of use cases, best practices and knowledge, technology transfer, to support coordinated climate action and disaster recovery by using spatial data, focusing on safeguarding land rights and promoting sustainable development.
- 2.3 Establish a platform for regional dialogue to align policies and strategies on climate change and disaster resilience, ensuring coordinated efforts and government-led support across the region.
- 2.4 Implement a mechanism to evaluate the impact of collaborative efforts, allowing continuous improvement and optimization of regional partnerships and initiatives.

Measure and Monitor Climate Change and Natural Disaster

- 3.1 Create further practical knowledge and capacity regarding positioning and measurement, engineering surveys, quality assessment and standard setting to measure, monitor and verify climate change and natural disaster as it affects land, water and marine, in partnership with environmentalists at the regional, national and local levels.
- 3.2 Encourage regional and international organizations to produce manuals and standards that support the localisation of knowledge and enable local (national or sub-national government) ownership of actions, by guiding the development of rapid procedures for addressing climate change and managing disasters. Comparative studies of country-level land systems and responses can help achieve this goal.

Govern through Strategic Land Governance

- 4.1 Develop climate responsive land governance frameworks and fit for purpose land administration by leveraging on UN-GGIM Framework for Effective Land Administration (FELA) and global land and environmental frameworks, also to support the Sustainable Development Goals (SDGs).



- 4.2 As actions to combat climate change often affect land and property, establish transparent digital database systems for the registration of property ownership, as well as recording the land rights and values. Develop land literacy to help citizens to make informed decisions.
- 4.3 Improve the transparency in the real estate markets to increase public acceptance of compensation (financial or otherwise) of the advantages and disadvantages for the value of land and property (registered and unregistered) resulting from measures to combat climate change, noting that transparency is country context specific.
- 4.4 Re-design survey systems to better support national environmental goals on carbon, biodiversity and degradation/restoration, land use change, (NDCs, NBSAPs, LDN, NAPs), for adaptation, mitigation and loss and damage, and for managed retreat. Re-design to support national carbon emission reduction sector plans (e.g. transport, agriculture, forestry, mining) balanced with economic growth, poverty reduction and just transition by supplying geodata for scenario planning and decision making.
- 4.5 Strengthen coordination and partnership within and across government to safeguard land rights, undertake climate action, disaster recovery and promote sustainable development in the face of climate change and natural disaster.
- 4.6 Enhance policy, legal, regulatory and institutional frameworks and national dialogues for climate action and to respond to natural disaster. This includes recognizing all forms of tenure, including women's land rights, sorting out regulatory conflicts, regulating the fair settlement of conflicts and identifying the effects of climate protection on the value of real estate. Policies, regulations and institutional reform need to be put in place regarding rehabilitation, relocation, valuation and compensation, including appropriate rural and urban planning.
- 4.7 Strengthen capacity to respond to evolving sustainability legislation and regulations and disclosure standards.
- 4.8 Create user friendly portals and platforms for local authorities to better manage their land and water resources and respond to their local communities, including Indigenous people.
- 4.9 Develop strategic land use planning and spatial data infrastructure/land information systems for disaster management through consultative, inclusive, gender-responsive and participatory approaches.
- 4.10 Empower communities through awareness raising about risk, early warning, insurance and access to investment. Integrate citizen data into the wider data system.
- 4.11 Empower youth, women, Indigenous People and local communities to advocate for and influence policy by supporting the creation of youth-led advocacy networks and campaigns that focus on safeguarding land rights and promoting climate-resilient land governance.



Respond to Disaster and Protect People and Planet

5.1 Promote natural disaster resilience for communities, professionals, and organizations by developing practical knowledge and capacity rapid response, disaster recovery and reconstruction, including supplying data for early warning systems, emergency management, and forecasting.

5.2 Strengthen the work of surveyors through creating a climate resilient budgetary and financing system that overcomes the climate and land silos.

5.3 Strengthen access to the Loss and Damage fund for valuation, expropriation and compensation for vulnerable communities.

Innovate, Value, Protect: Advancing Land Valuation for Sustainable Risk Management

6.1 Develop innovative and participatory approaches to land and property valuation such as addressing the needs of vulnerable groups, determining non-market and ecological values, and assessing risks and vulnerabilities.

6.2 Enhance understanding on the importance of land and property valuation work in disaster management and recovery particularly in determining insurance claims and compensation for damages, ensuring fair and adequate financial support for affected individuals and communities, and for implementing post-disaster recovery and reconstruction plans.

Empower Land Practitioners

7.1 Develop practical knowledge and capacity to utilize spatial data and innovative technologies for climate action planning and assessment of disaster vulnerability, risk and tenure insecurity before and after disaster.

7.2 Strengthen capacity to design methodologies for measuring climate impact by evaluating various sources of technical innovation, available datasets, data interoperability, data cleaning capabilities, affordability, addressing the digital divide, and the availability of open source, climate models, digital twins, simulation, scenario development and spatial analytics. LADM/STDM could reduce costs for data creation and provision.

7.3 Develop the capacity to use spatial data at the right scale for regional and national settings for forecasting of events, scenario development, planning and implementation for managing vulnerable groups, unstable terrain and national and transnational biodiversity hot spots and balancing environmental goals, food security and land and water governance.

7.4 Develop practical knowledge and capacity to use data on the price of real estate and land, analyse it and gain knowledge on the impacts of climate action and compensation for expropriated land or the protection of its natural resources by the owners or rights holder.

7.5 Strengthen customer relations around new technology capabilities and market segment to improve customer satisfaction. Support customers' climate action regarding integration into their business strategy, showing evidence of climate impact, setting targets/goals, products/services, innovation and transparency.



7.6 Foster youth leadership in climate-resilient land governance through leadership programs, mentorship opportunities, youth representation in policy forums.

7.7 Develop the capacity to assess the carbon footprint of each product or service.

Ethics, Equity, Sustainability: Surveying for a Just Future

8.1 Ensure professional standards on ethics are maintained and enhanced to effectively respond to increasingly complex situations involving emergency technologies.

8.2 Strengthen quality assessment and risk management practices for new technologies, tools, databases, methods and processes being applied for climate action.

8.3 Document best practices and create use cases for the region to build practical knowledge and capacity, and to scale up successful strategies and tailor them to local contexts, thereby enhancing the effectiveness of regional and national responses.

8.4 Identify base minimum requirements and develop iterative fit for purpose standards and design, also for the efficient collection of geodata and price data for developed and least areas. Strengthen the ability to design for replicability and scale.

Climate Responsive Workforce for the Future

9.1 Scale up the capacity and efficiency of the industry work force to respond effectively through training, increased public-private partnerships, government led strategic planning, also with NGOs and CSOs, and the application of new technologies.

9.2 Re-design the curriculum of surveying, land management and valuation education and training with more climate responsive content. Strengthen soft skills on how to negotiate precision, timeliness, relevance, customer needs and modern technology with ethical concerns and in a way that responds to market needs. Strengthen the work force's ability to negotiate fit-for-purpose climate resilient capabilities.

9.3 Integrate youth into disaster resilience strategies by capacity building in disaster risk reduction using modern tools and technologies and supporting youth research and innovation.

Innovative Smart and Safe Cities

10.1 Re-design urban and peri-urban systems and create smart cities through the innovative use of data and technology for land use planning, fit-for-purpose land administration, informal settlement upgrading, sustainable waste management, digital services and e-governance, and green and resilient infrastructure. Develop the responsible use of Earth Observation techniques and AI technology to support urban land management.

10.2 Protect the land rights of those who own, occupy, permanently, temporarily, where rights are registered and unregistered during disaster recovery and actions to address climate change. Recognize that climate change often impacts vulnerable groups the most.