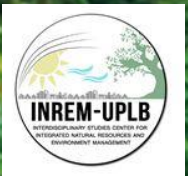


Integrating the Commons in Landscape Governance in a Changing Climate: Key Challenges and Opportunities

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IASC Focal Person for Southeast Asia**

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Outline of Presentation

- Context and Key Concepts
- Why Integrate the Commons in Landscape Governance: Key Opportunities
- Major Challenges for the Integration
- Take Home Message

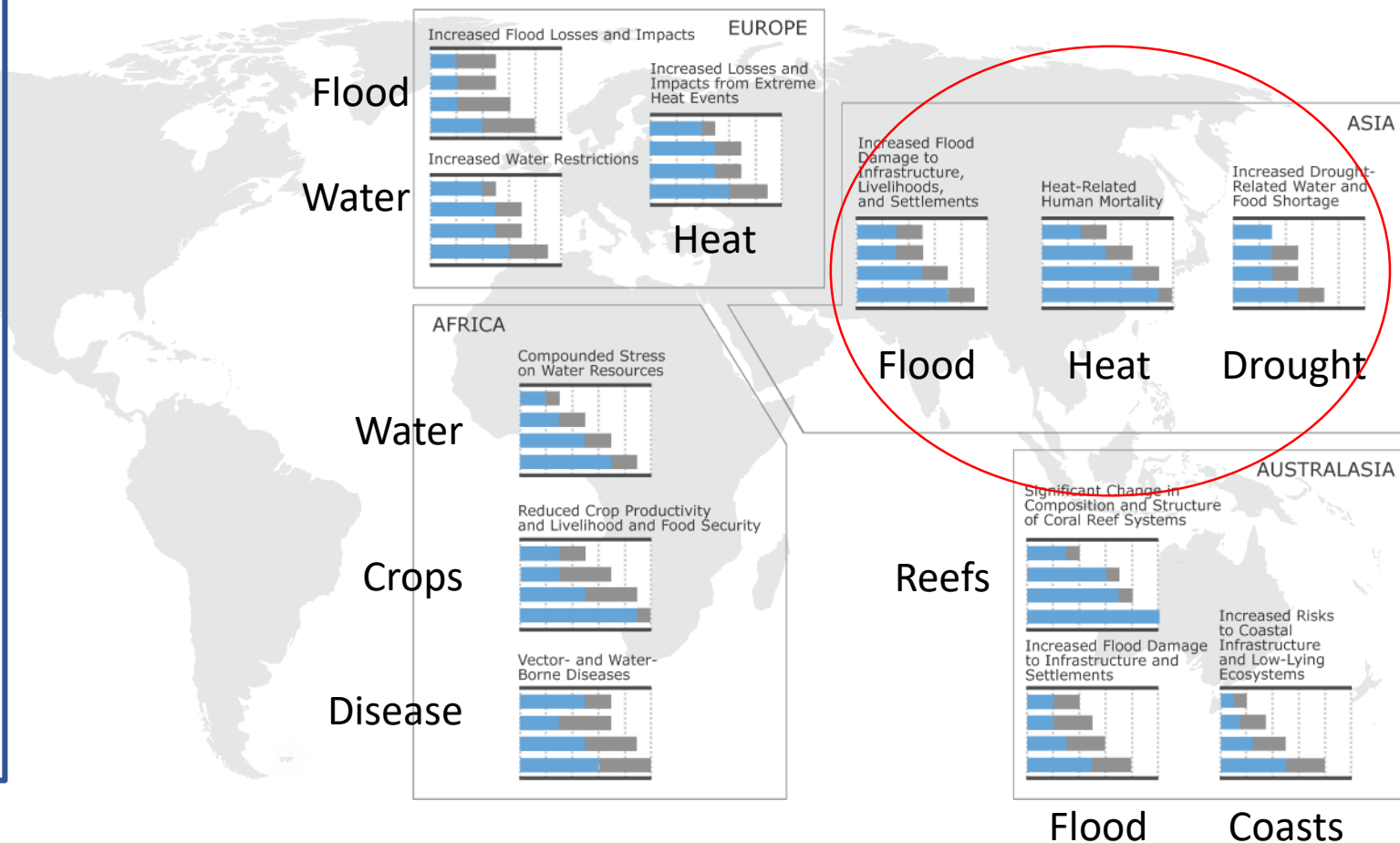
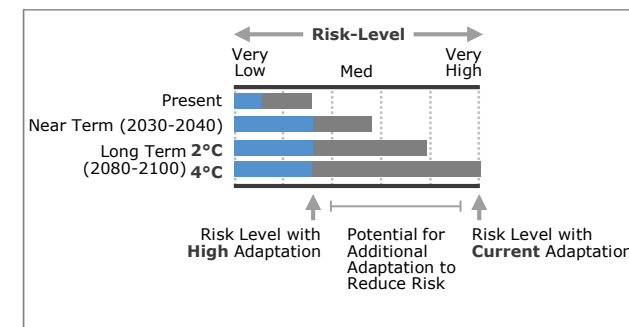


- Natural resources - important assets fundamental to achieving the SDGs
- NR undergoing massive degradation in many parts of Asia compromising the environmental services they provide
- Climate change a threat multiplier that contributes to NR degradation and threatens SDGs



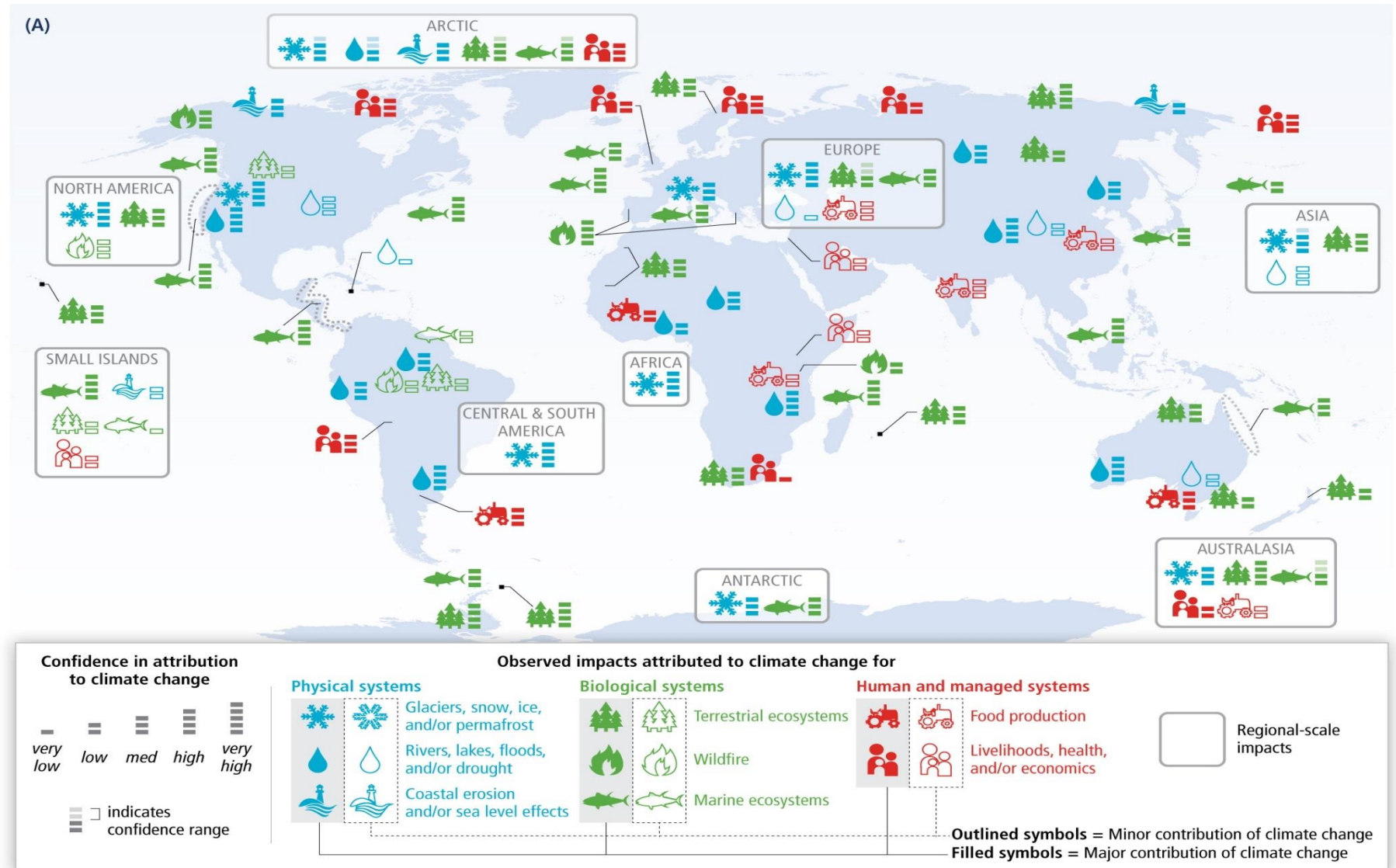
Key Climate-related Risks in Asia

- Increased flood damage to infrastructure, livelihoods and settlements
- Heat-related human mortality
- Increased drought-related water and food shortage



Climate change has major adverse impacts on the biological and physical systems in Asia

- Global patterns of impacts in recent decades attributed to climate change, based on studies since the AR4



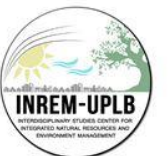
Source: IPCC (2014) WGII AR5

Common Pool Resources

Resources which:

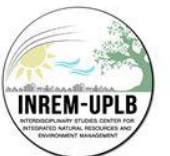
- 1) produce a steady flow of *resource units* (benefits accruing from the resource), and
 - 2) are so large (e.g. river basins, ocean, etc.) that excluding the individuals that use them unsustainably becomes almost impossible –hence maximization of collaboration between users becomes essential (Ostrom 1990:30).
- The success of **self-governing institutions**, proves that policies of privatization and government control are not the only alternatives available

Source: Ostrom, 1990:30

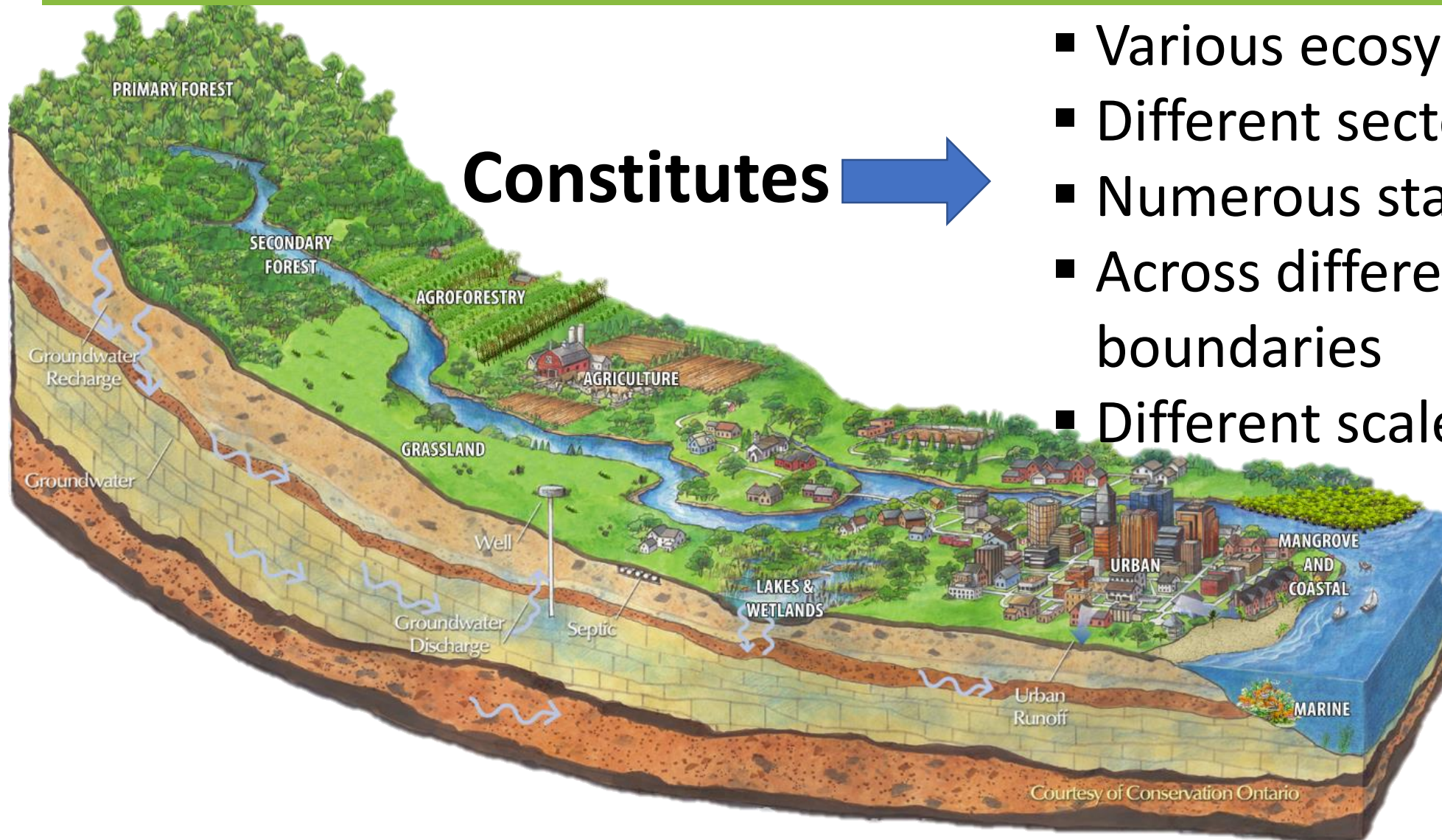


What is a Landscape?

- “A **socio-ecological system** that consists of a mosaic of natural and/or human-modified ecosystems, with a characteristic configuration of topography, vegetation, land use, and settlements that is influenced by the ecological, historical, economic and cultural processes and activities of the area.” (Scherr, Shames and Friedman 2013: 2).
- Not just a geographical area but involves people and natural processes
- Socio-cultural, economic and environmental context of paramount importance



Typical Representation of a Landscape



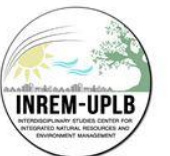
- Various ecosystems
- Different sectors
- Numerous stakeholders
- Across different political boundaries
- Different scales



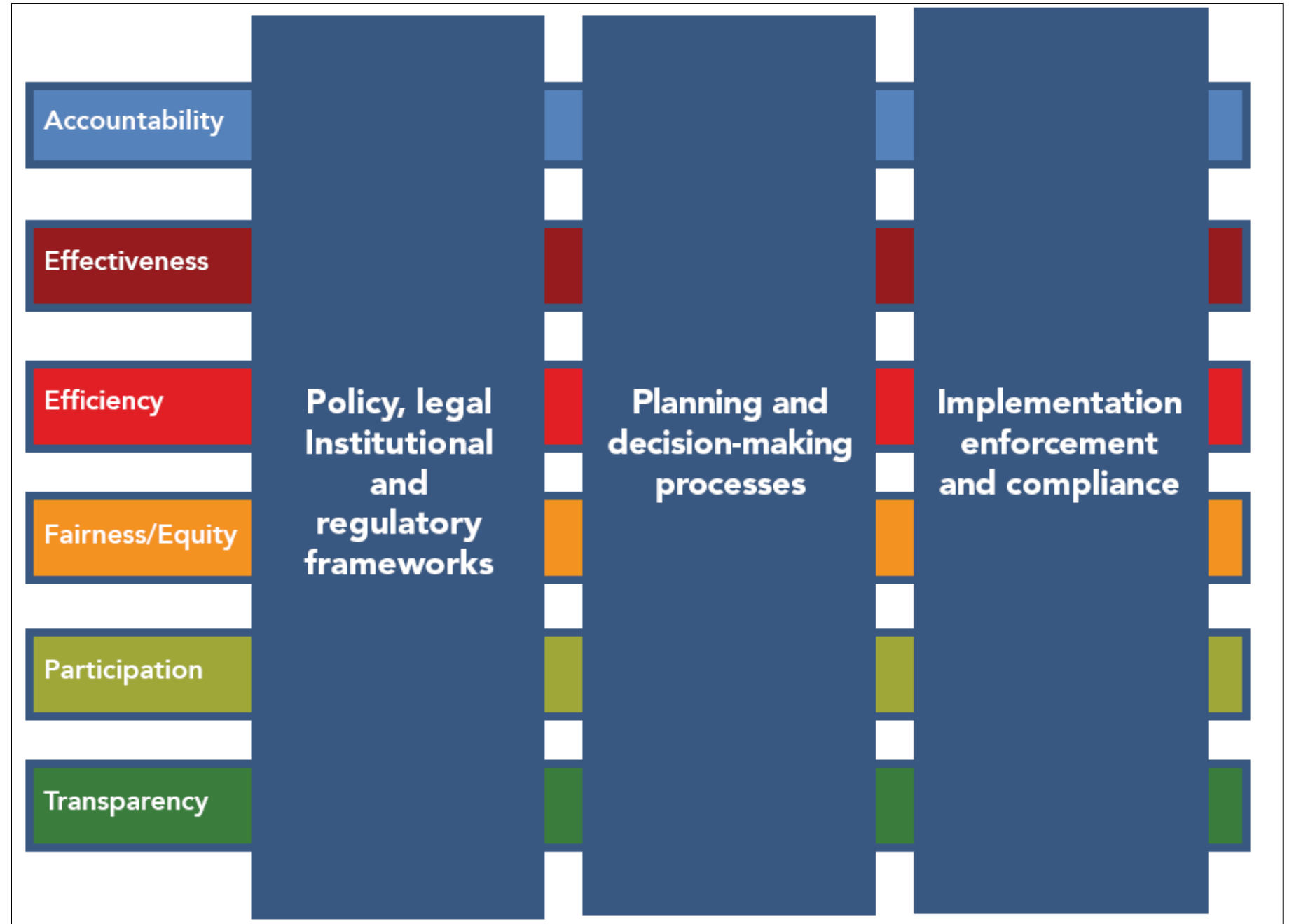
Courtesy of Conservation Ontario

What about Landscape Governance?

- “set of rules (policies and cultural norms) and the decision-making processes of public, private and civic sector actors with stakes in the landscape that affect actions in the landscape” (de Graaf et al., 2017)
- requires **effective coordination mechanisms** and application of **good governance principles**
- **good landscape governance is a precondition for achieving a sustainable landscape.**

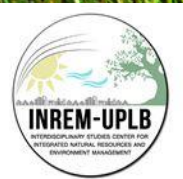


Pillars and Principles of Governance (FAO, 2011)



Why the Landscape Approach in Integrated Natural Resource Governance?

- **Ecosystems in a landscape are complex, dynamic and interacting**
- **Sectoral, individual ecosystem and fragmented approach proven inadequate, inefficient, ineffective and unsustainable**
- **Resource management is multi-objective and comprise of many stakeholders with varying needs and interests;**
- **Need to bring all elements together in a landscape approach for integrated natural resource management (Castella et al, 2013).**

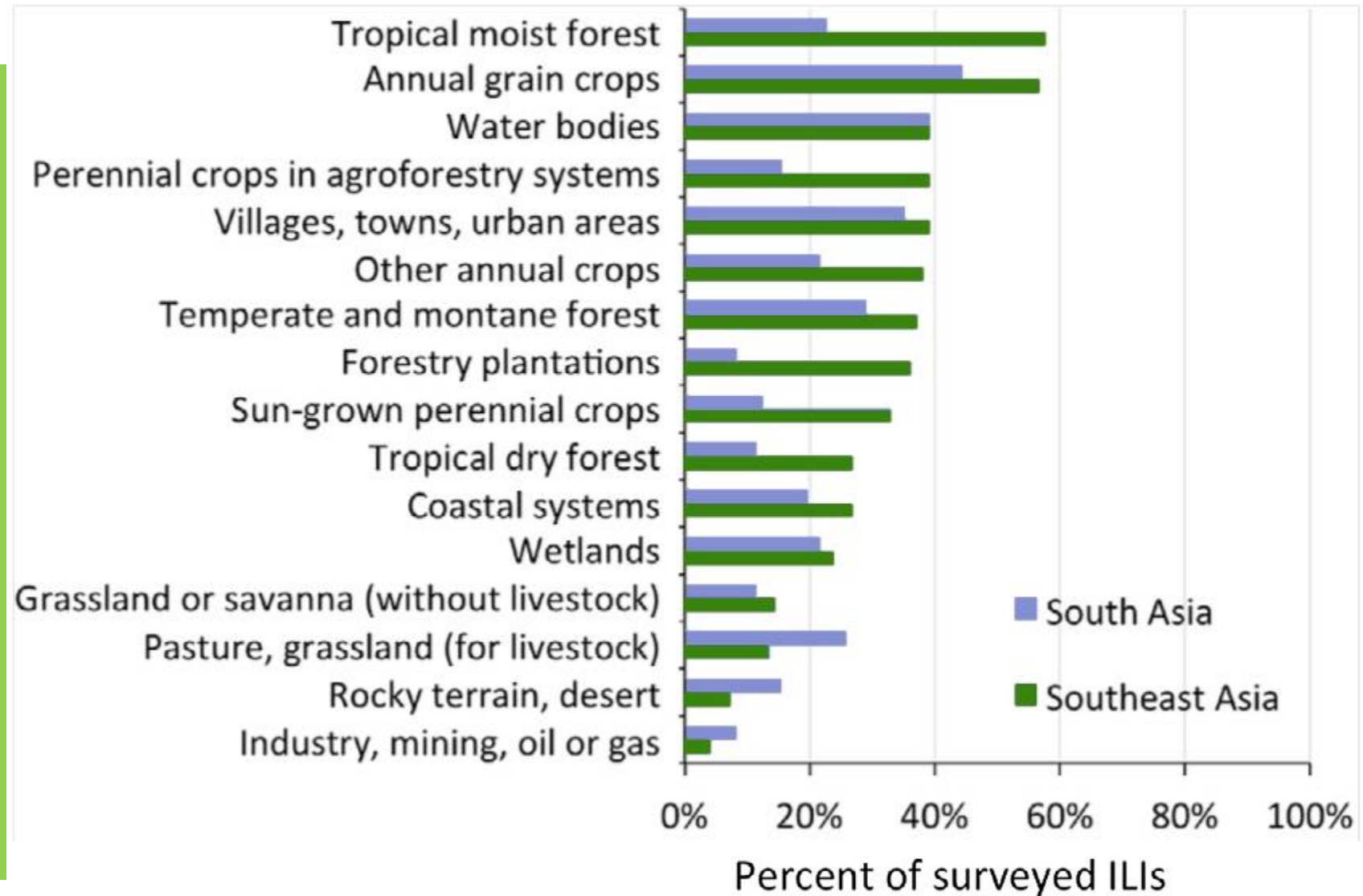


Opportunities for Integrating the Commons in Landscape Governance



Photo:
Sumatra,
Indonesia.
Roderick
Zagt/Tropenbos
International

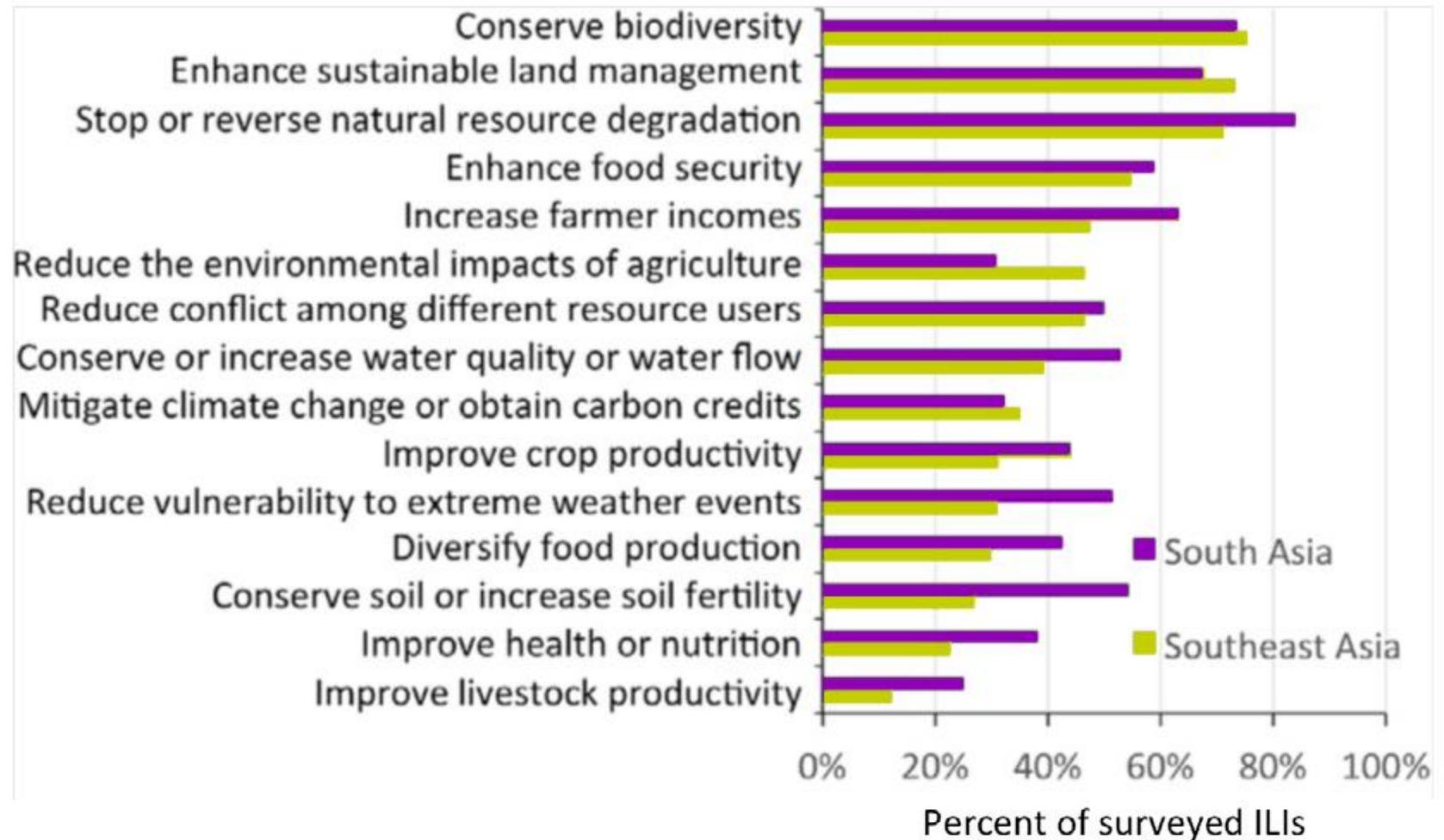
Potential to determine and employ appropriate combination of various land uses in a given landscape (implication on land use zoning and allocation)



Percentage of integrated landscape initiatives (ILI's; n = 166) that include the listed major land uses in South and SE Asia. ILI's can include more than one dominant use.

Source: Zanzanaini et al., 2017

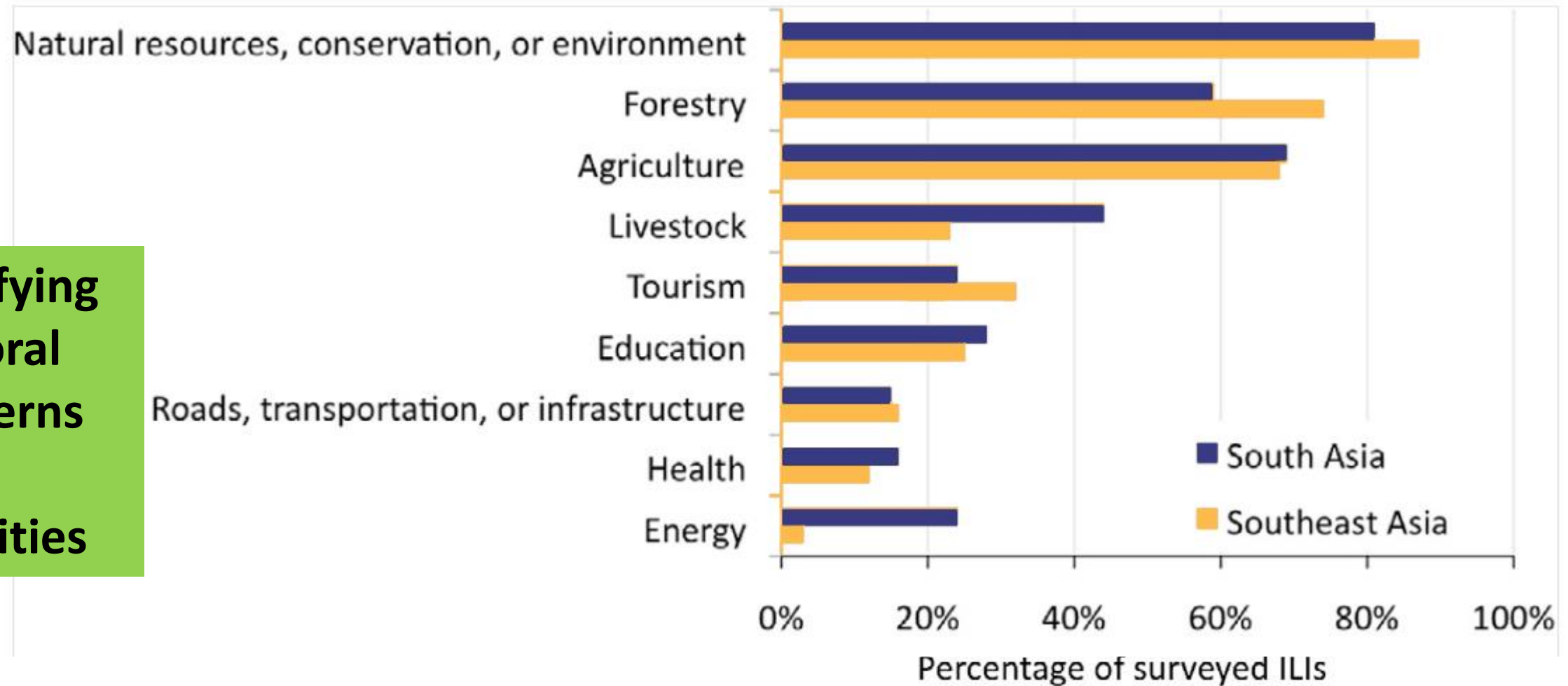
Achieving multiple objectives in a collaborative manner including those depending on CPR for livelihoods



Motivations for the creation of the surveyed integrated landscape initiatives (ILI's; n = 166) in South and SE Asia.

Source: Zanzanaini et al., 2017

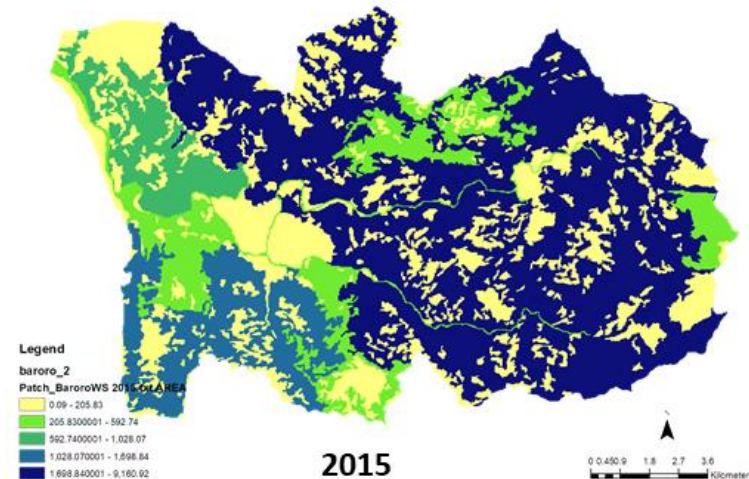
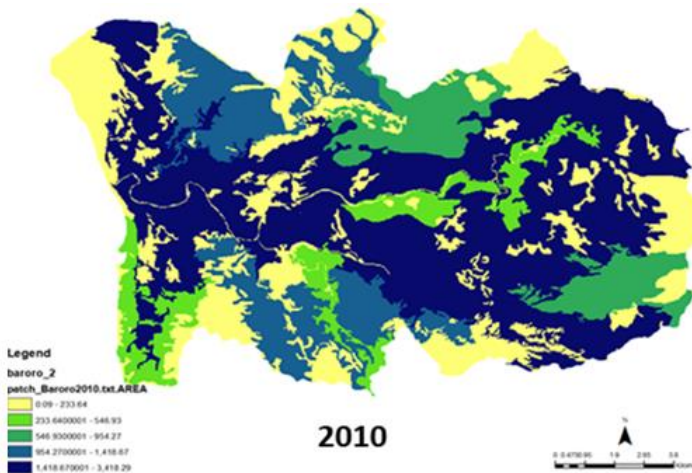
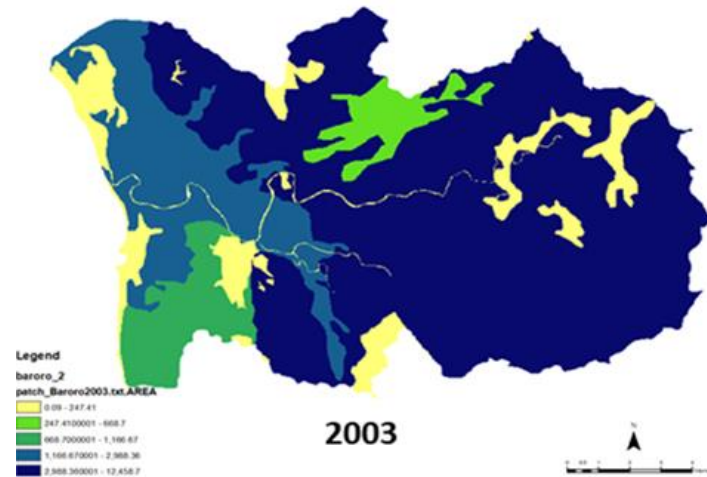
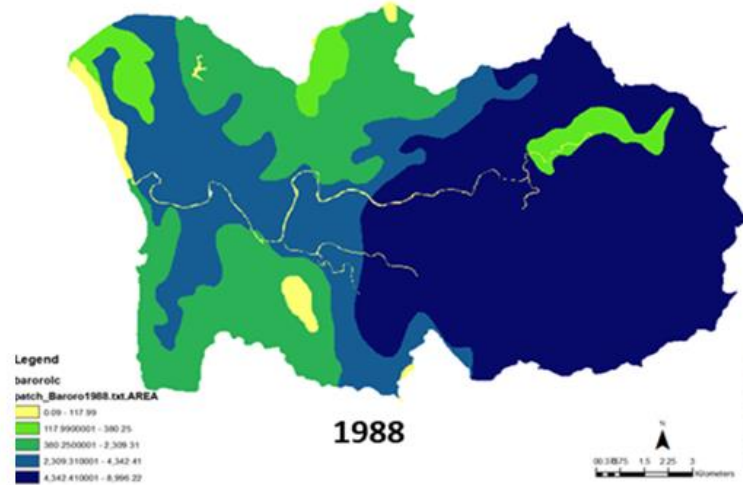
**Satisfying
sectoral
concerns
and
priorities**



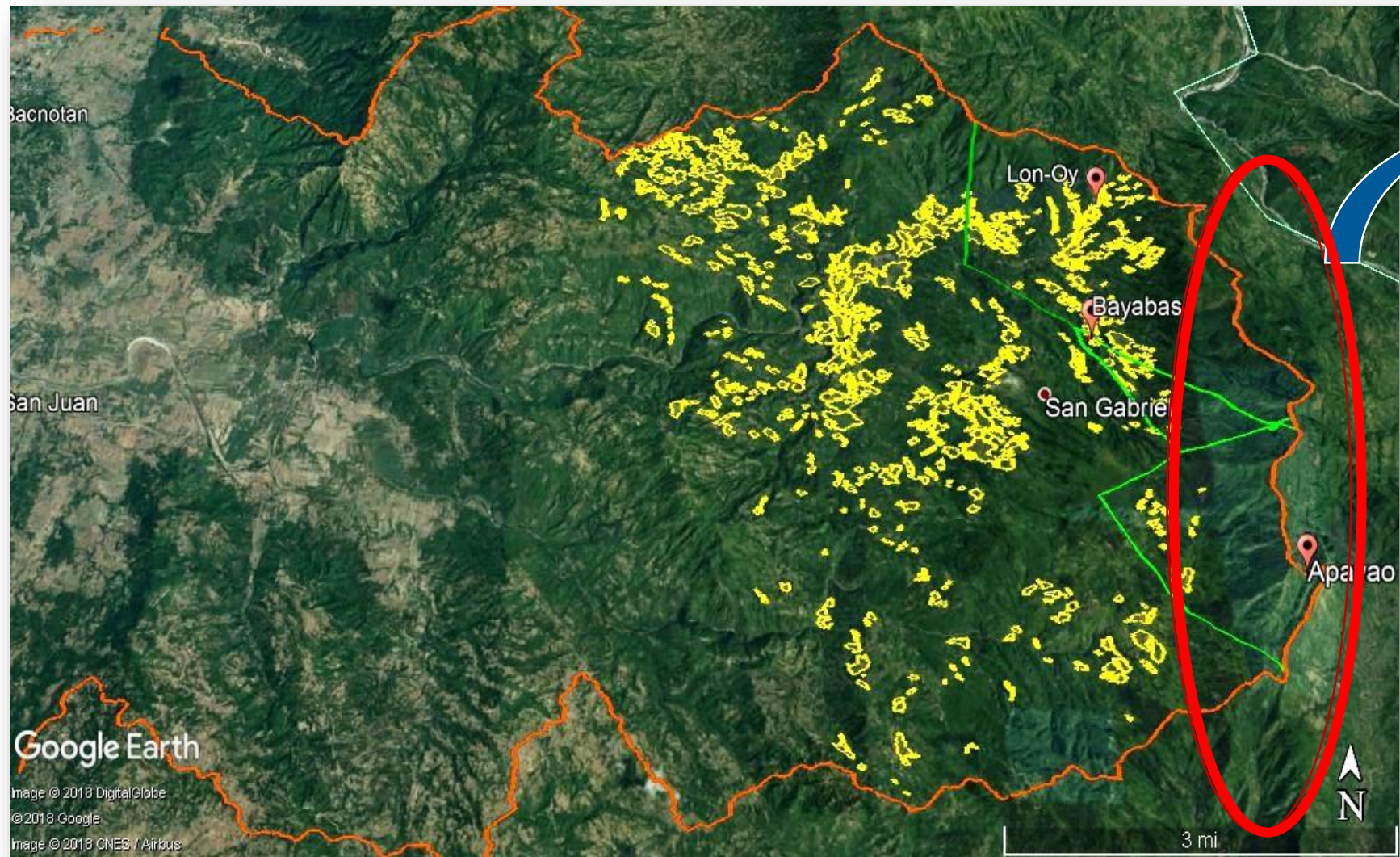
Percentage of integrated landscape initiatives (ILI's; n = 166) in which each of nine different sectors was involved.

Source: Zanzanaini et al., 2017

Baroro Watershed, Philippines: Fragmentation



Opportunity
to
incorporate
local and
indigenous
knowledge in
landscape
governance



Lesser or no fragmentation in the upper area of Baroro watershed in the Philippines managed by Indigenous People

Legend: watershed boundary barangay agricultural land

Source: Google Earth Imagery 2018 CNES/Airbus/DigitalGlobe

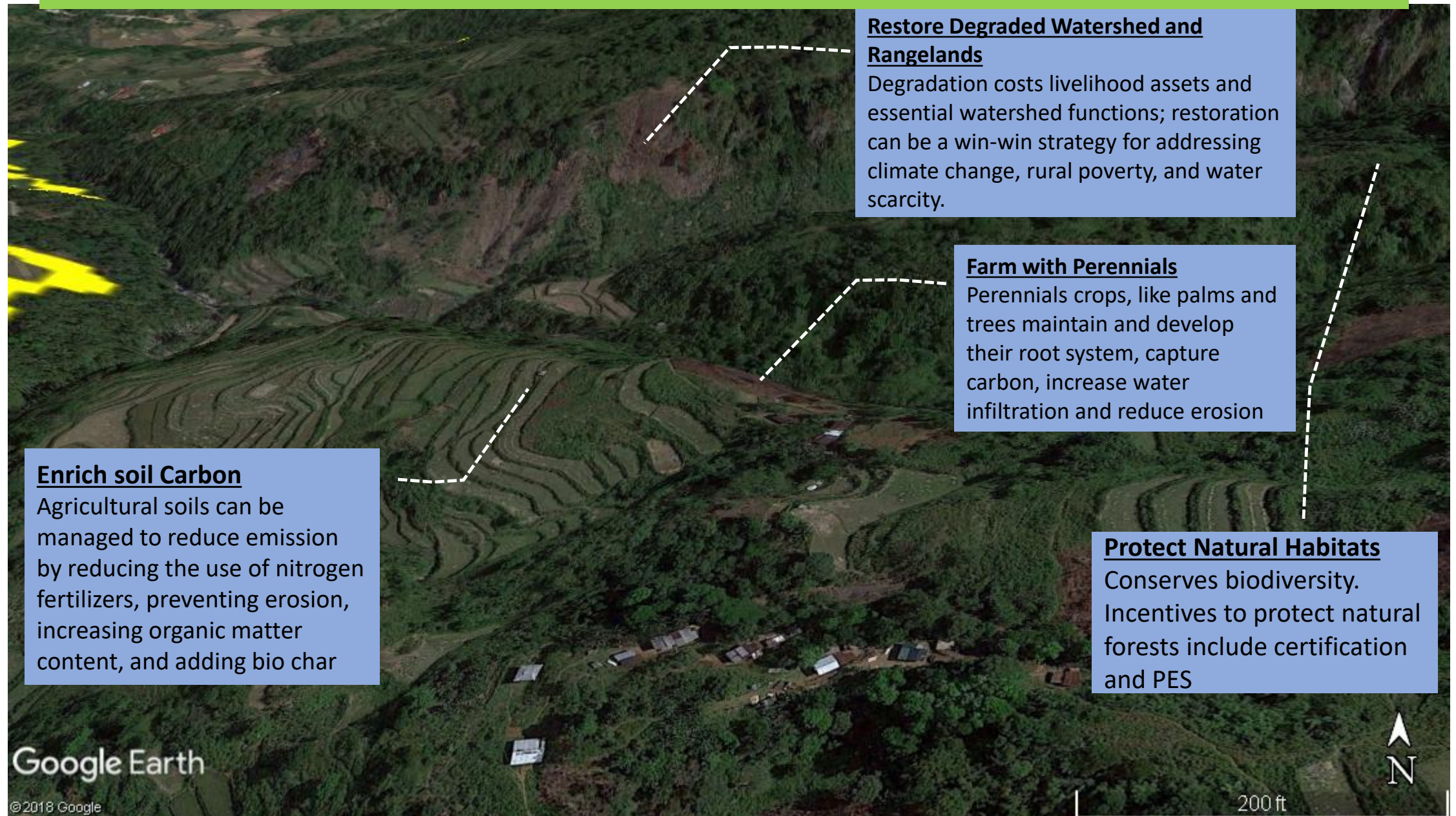
Local Knowledge and its Importance

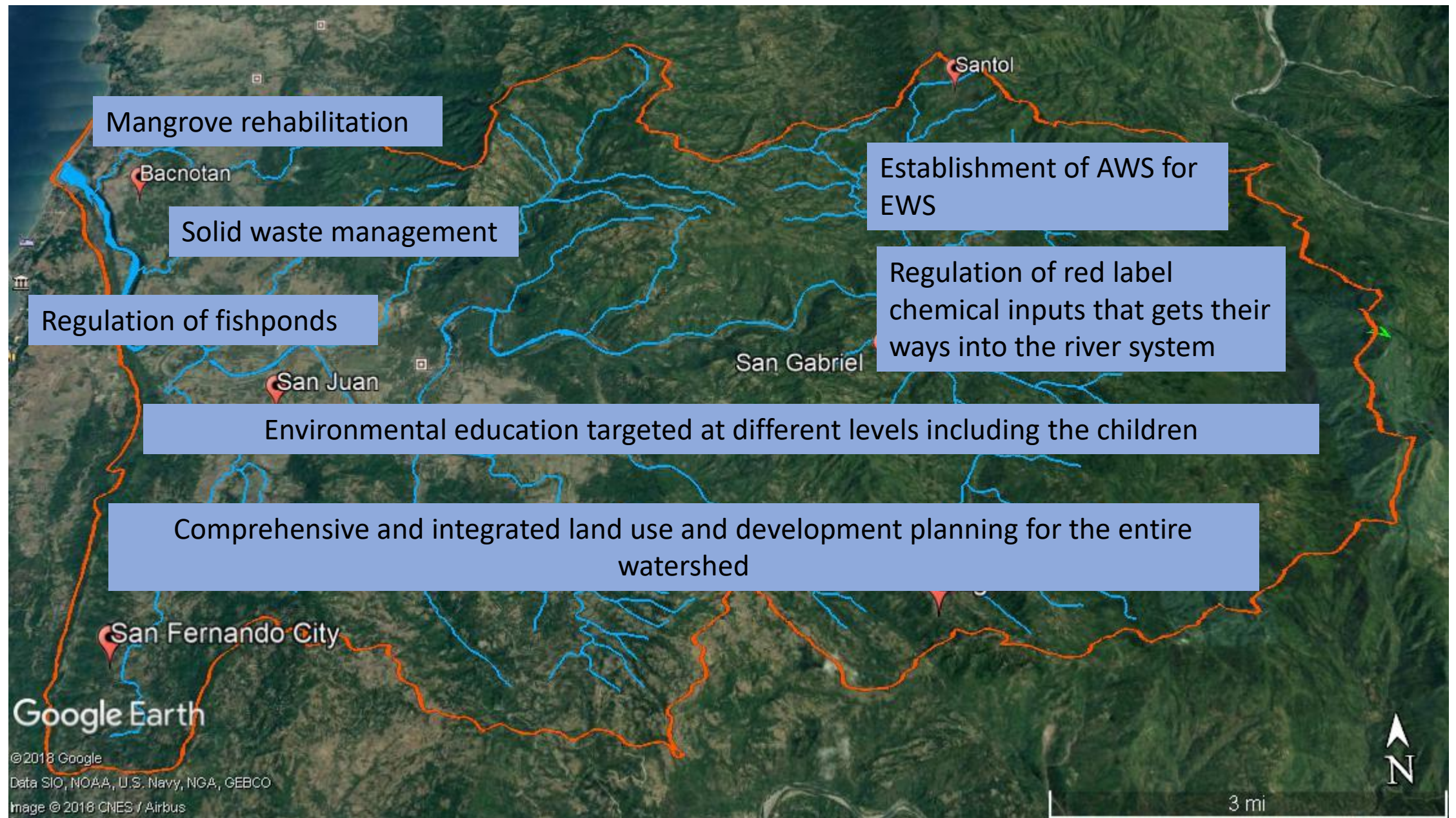
Importance to CCA

- Climate change adaptation is local and site-specific
- Indigenous knowledge is “locally fine-tuned, which is essential for climate change adaptation and long-term community resilience” (Victoria Tauli-Corpuz, Executive Director of Tebtebba (<http://www.tebtebba.org/>))



Opportunity to combine CCA, CCM and DRM interventions in a landscape (modified after Shames et al., 2011)



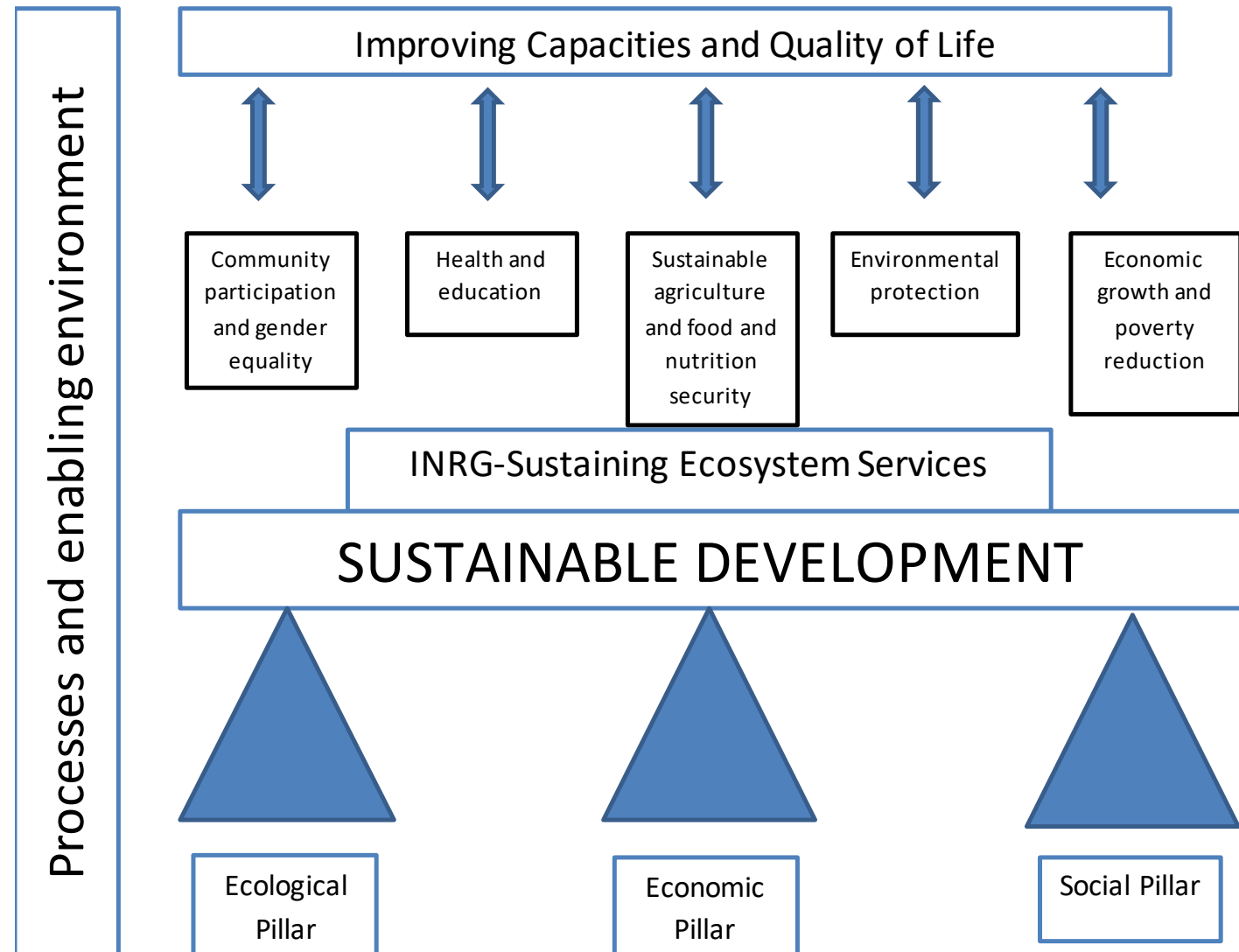


Legend:  watershed boundary  river system



Major Challenges for the Integration

Evolving a mutually agreed framework for Landscape Governance and collaboration

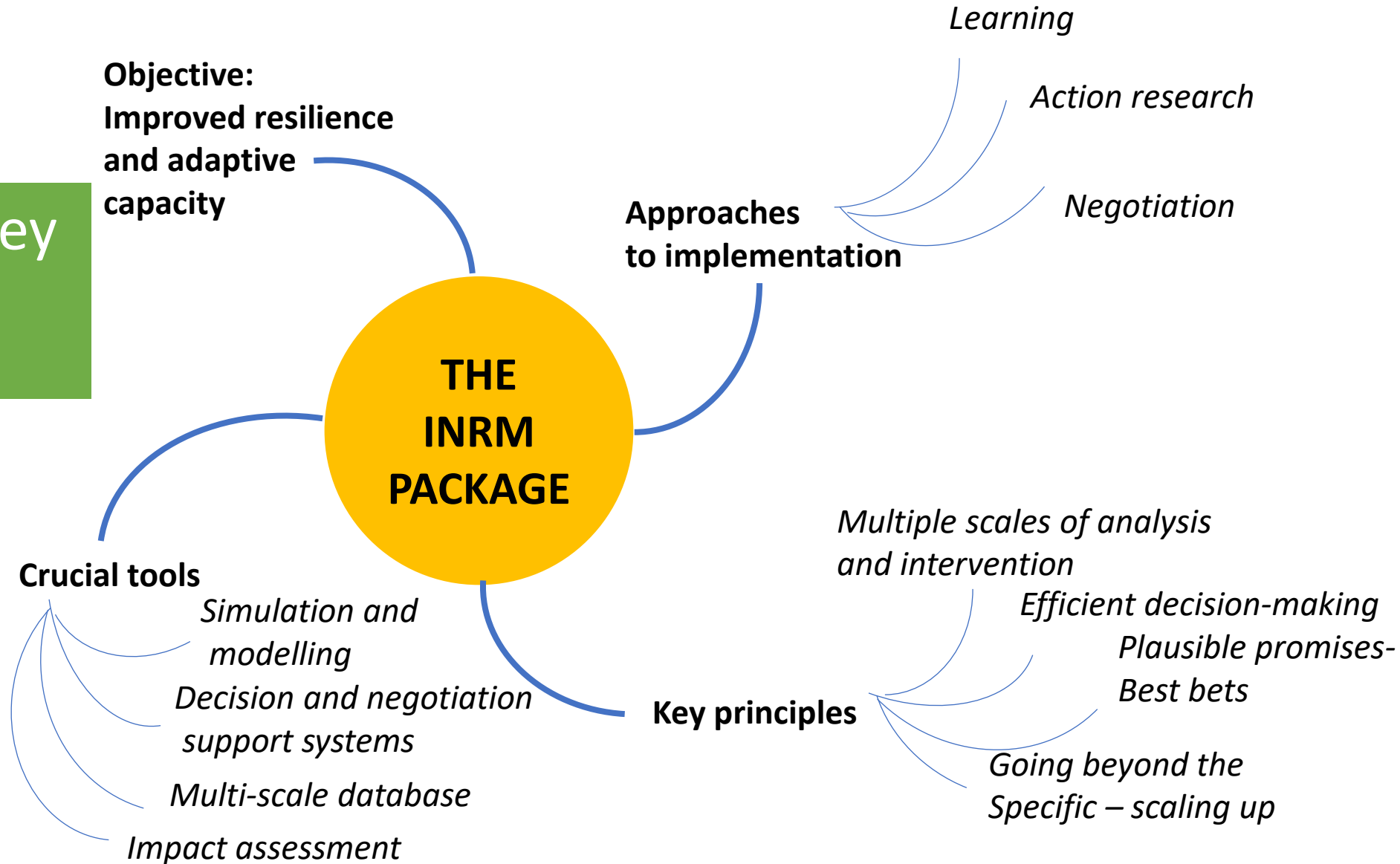


Source: Sajise, 2014



Major Challenges for the Integration

Building on the key
features of INRM
(Sayer and Cambell, 2001)



Major Challenges for the Integration

Creating
enabling
policies for
effective
implemen-
tation

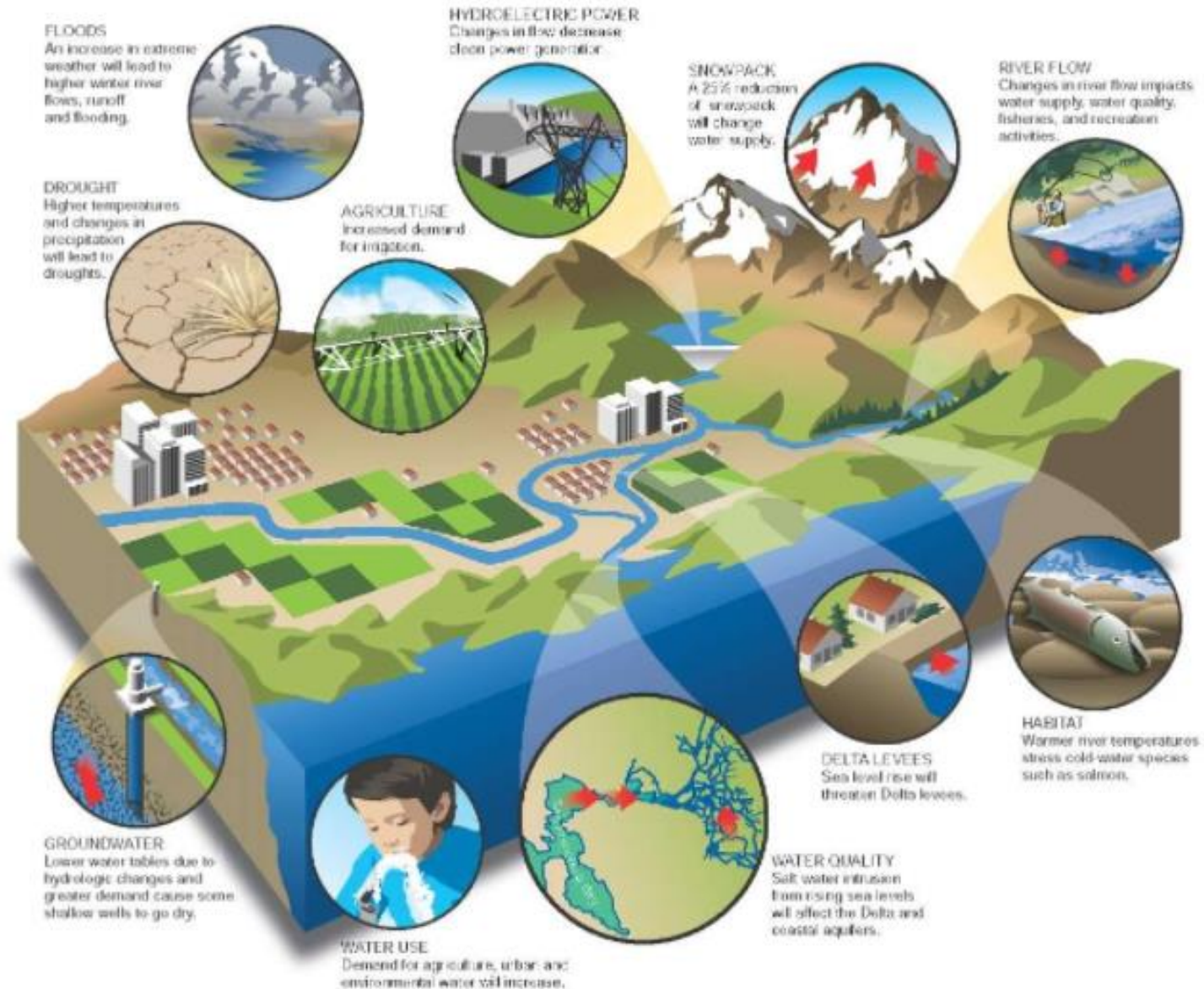
Effective Policies to Promote the Landscape Approach in INRG (Katerere and Smith, 2013)

- Recognizing that services provided by ecosystems are not limitless;
- Promoting effective link across sectors;
- Regard agricultural systems as agro-ecosystems link to other ecosystems;
- Valuing ecosystems as productive assets;
- Strengthening local organization and amplify voices of rural communities especially the marginalized groups; and
- Support increased investments in off farm ecosystem assets or provide payment for environmental services.



Supporting integrated planning that cut across different sectors

- Agriculture
- Coastal
- Water
- Health
- Forestry
- Biodiversity
- Environment
- Energy
- Education
- Tourism
- Infrastructure
- Settlement
- Mining



Major Challenges for the Integration

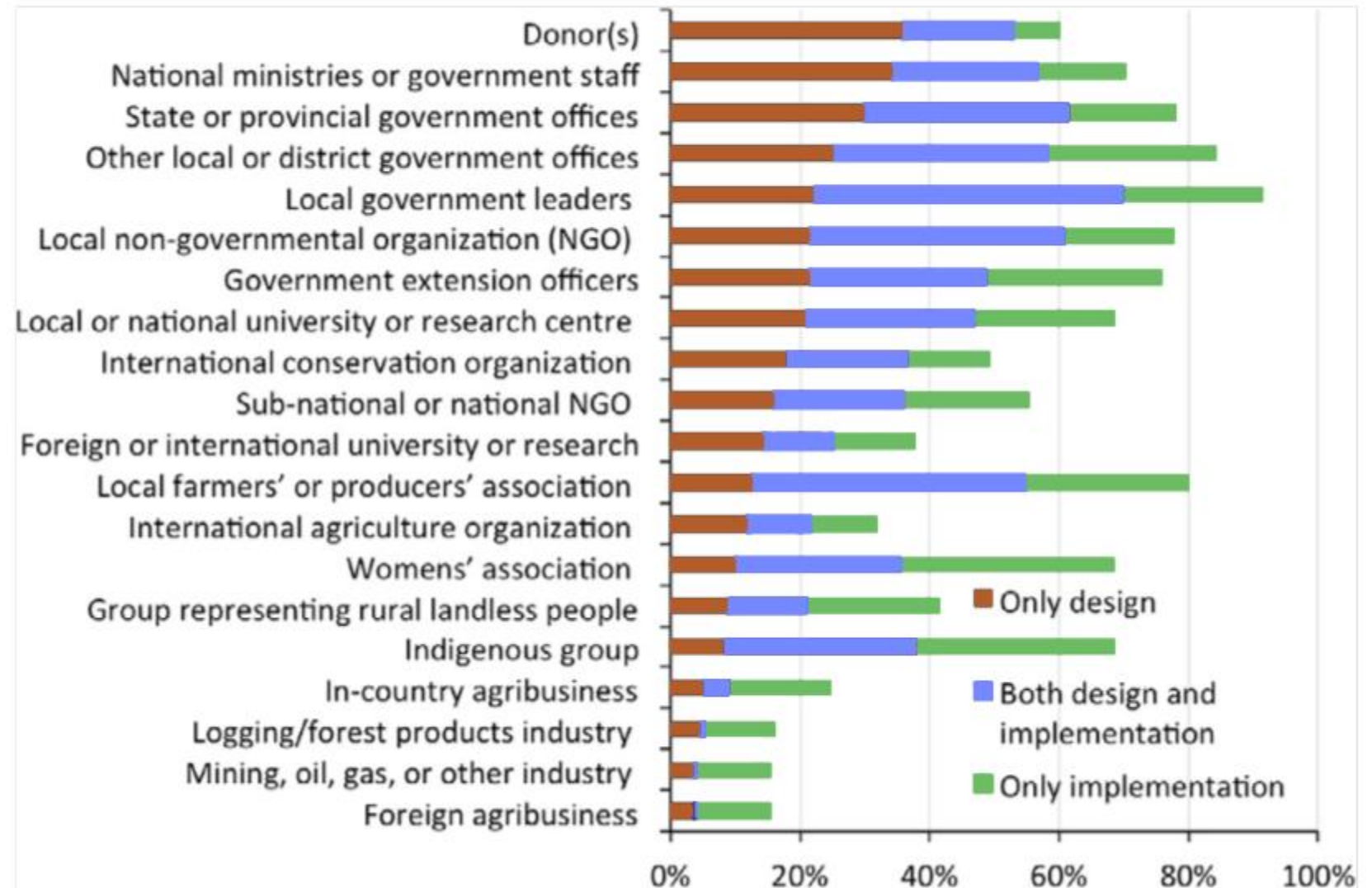
How to
effectively
implement
necessary
processes
that builds
local
capacity

- Advocating for systems/integrated approach in natural resource and environment management
- Employing participatory methods of analysis, planning, implementation, monitoring and evaluation involving different stakeholders
- Employing interdisciplinary and transdisciplinary approaches in research and development
- Continuing capacity building at all levels but most especially at the local level
- Practicing good governance



Major Challenges for Integration

How to
empower the
marginalized
and
powerless
groups for
better
outcomes



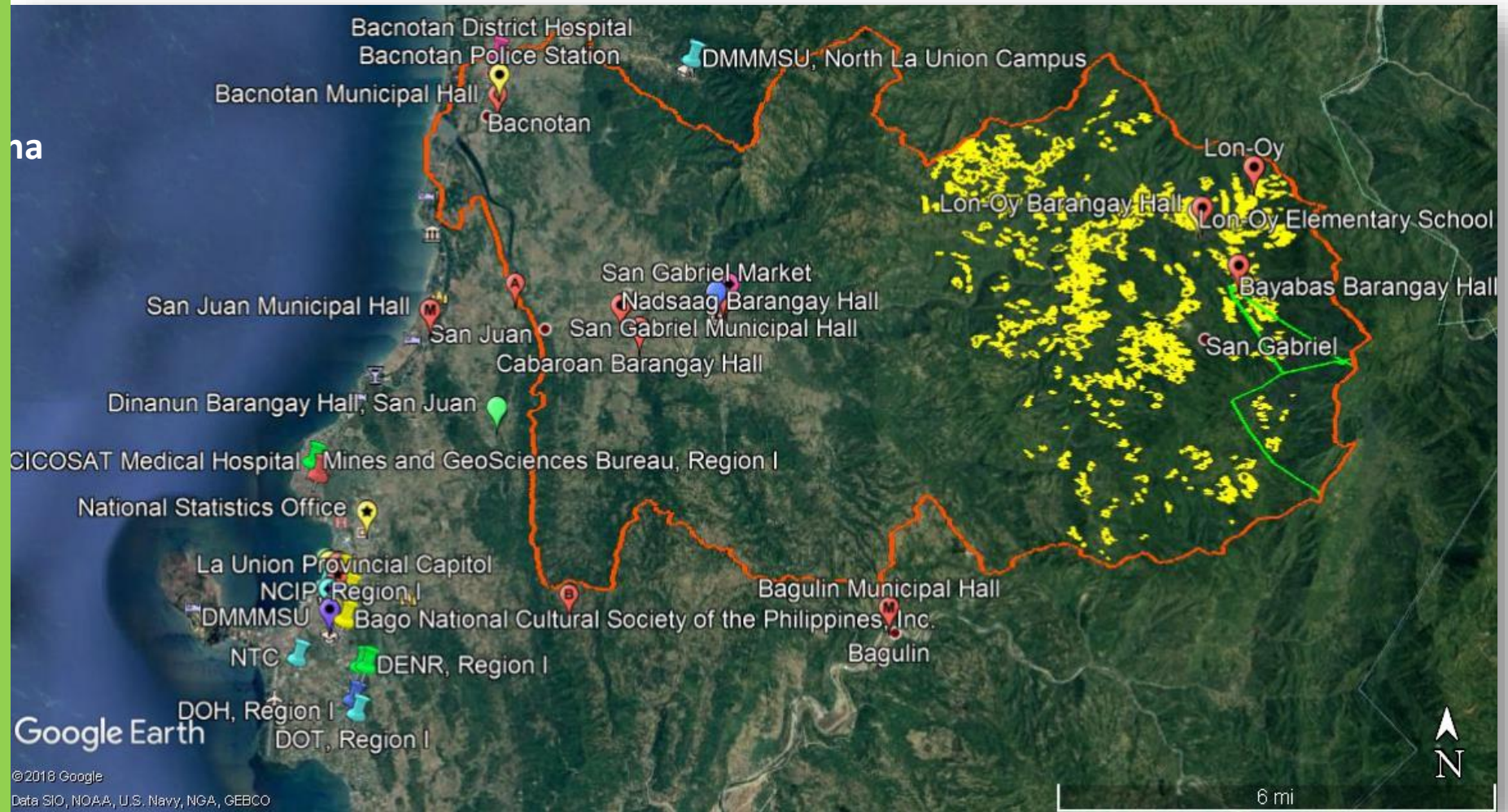
Percentage of integrated landscape initiatives (ILI's; n = 166) in which the indicated stakeholder groups were involved Source: Zanzanaini et al., 2017

Major Challenges for Integration

Finally, looking for a champion at different levels to facilitate and bring about the integration for greater impacts



Overall challenge:
Initiating and sustaining effective collaboration in a **fragmented landscape and governance system**



Source: Google Earth Imagery 2018 Data Sio, NOAA, US Navy, NGAm GEBCO

“Fragmentation is our enemy and a recipe for disaster.”

Peter Holmgren

Director General

Center for International Forestry Research



Take Home Message

- The complex and interrelated problems confronting the natural resources in Asia require a comprehensive and integrated solution
- Integrating the commons in landscape governance offers opportunities to sustainably manage natural resources and meet the needs of the people who depend on these resources for livelihoods
- Challenges of integration are multiple and context specific
- IASC can play an important role in addressing many of these challenges by providing strong scientific basis to various decision-makers through high-quality research outputs



Thank you very much
and warm welcome to
all participants!

La Libertad, Negros Oriental, Philippines