**Key messages**

- Landscapes are **complex** & **unique social constructs**

- ILA and FLR are about **processes** & outcomes

- Restoration is a long term process that demands: **shared vision**, **negotiated interventions** & **adaptive management**

- **Collaboration** is needed to work across social, political & scientific disciplinary boundaries. **GLF** aims to create a global community of practice

- **Collective action** & **governance** are key factors for large scale effective restoration

- Participatory & inclusive negotiation/planning are key to manage **trade-offs** & **synergies**

- There are key principles & interventions; however, **harmonization/integration** & **flexibility** are critical

Time for restoration is now

- Human wellbeing depend on **ecosystem services** from a wide range of land uses (MEA 2005)

- Extent of world's **forest continues to decline** as human population and demand for food and land increases

- Land and ecosystem degradation is the **major impact of humans** on the natural environment (Dobson, Bradshaw and Baker, 1997)

- Degraded lands **range widely** from less than 1 billion ha (< 7%) to over 6 billion ha (> 40%) (Gibbs and Salmon, 2015)

- Need to **restore value** to the World´s degraded lands (Daily, 1995)

**Landscapes are social constructs**

- Degradation, management, protection, restoration are outcomes of <u>social processes</u>

- <u>Technology</u> has been key in human evolution:

  - Domestication -> pastoralism & horticulture
  - Ploughing, irrigation ->  agriculture
  - Steam engine -> industrial
  - Social media -> today

- <u>Collective impact:</u> different sectors agree to solve a specific social problem using a common agenda, aligning their efforts, and using common measures of success

- <u>System approach</u> that integrates diverse actors, sectors, spatial/temporal scales to make the most of existing assets and capacities = <u>collective intelligence</u>

Landscapes
=
socio
x
ecological

systems

Three key conditions:
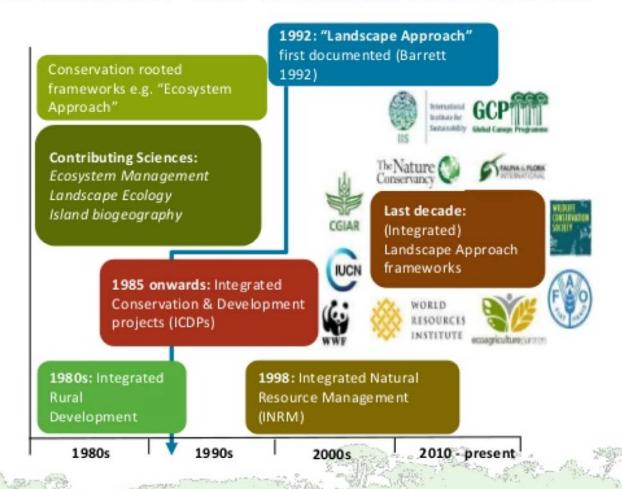
Complexity

Evolution

Uncertainty

**Integrated landscape approach**

- Landscape approach:
  - **framework** to integrate policy and practice to manage competing land uses and ecosystems to achieve social, economic and environmental objectives (Sayer et al., 2013; Reed et al. 2015)
  - A **social organization** process
- Enhance the **total economic value** of the landscape
- Help address **interlinked** and **conflicting challenges**
- Key elements: **multiple objectives**, **stakeholder engagement and dialogue** and **adaptive management** (synergies & trade offs)
- Main **obstacles** are institutional and governance

Another attempt to reconcile conservation and development objectives

Other organizations & experiences (e.g. IWM, participatory forest management, model forests, biological corridors, Landcare, Satoyama, etc.)

THE ORIGIN OF THE "LANDSCAPE APPROACH"

Conservation rooted frameworks e.g. "Ecosystem Approach"

**Contributing Sciences:**
*Ecosystem Management*
*Landscape Ecology*
*Island biogeography*

1992: "Landscape Approach" first documented (Barrett 1992)

Last decade: (Integrated) Landscape Approach frameworks

1985 onwards: Integrated Conservation & Development projects (ICDPs)

1980s: Integrated Rural Development

1998: Integrated Natural Resource Management (INRM)

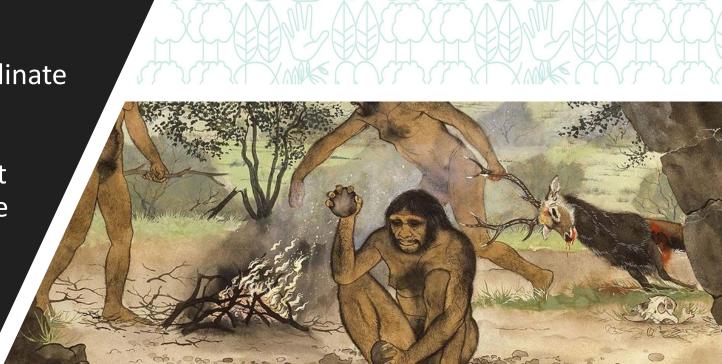1980s    1990s    2000s    2010 - present

# Mutual benefits enhances collaboration

"Humans' ability to collaborate to obtain otherwise inaccessible goals may be one main cause for our success as a species." (Melis, 2013)

Mutually beneficial collaboration need:
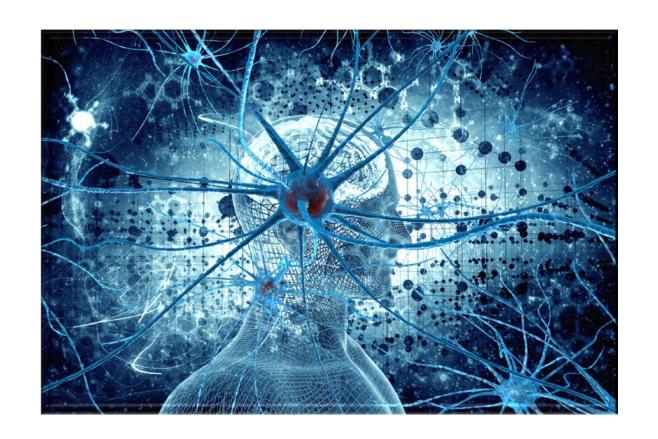- Cognitive mechanisms to coordinate actions with partners
- Mechanisms to distribute the acquired resources in ways that incentivize partners to continue collaborating

**Collaborative intelligence**

Recent concept (1990s) supported by the potential of technological development and society´s demand for higher participation
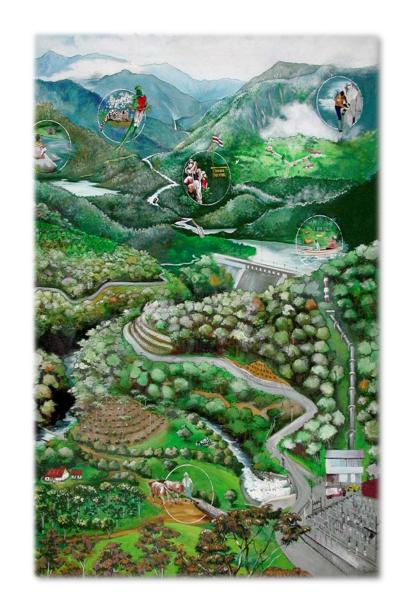
**Building smarter FLR**

**Social organization** for the sustainable management of lands

**Integration of interests** from diverse actors and sectors under a shared vision and action plan

**Integration of scales**: national, local, farm/management unit ...

top down

bottom up

Pillars of smarter FLR
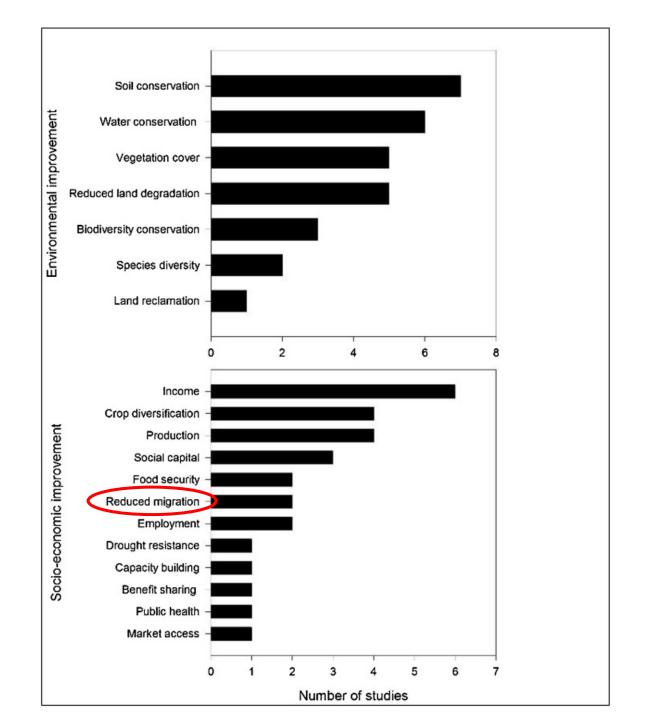
Collective action

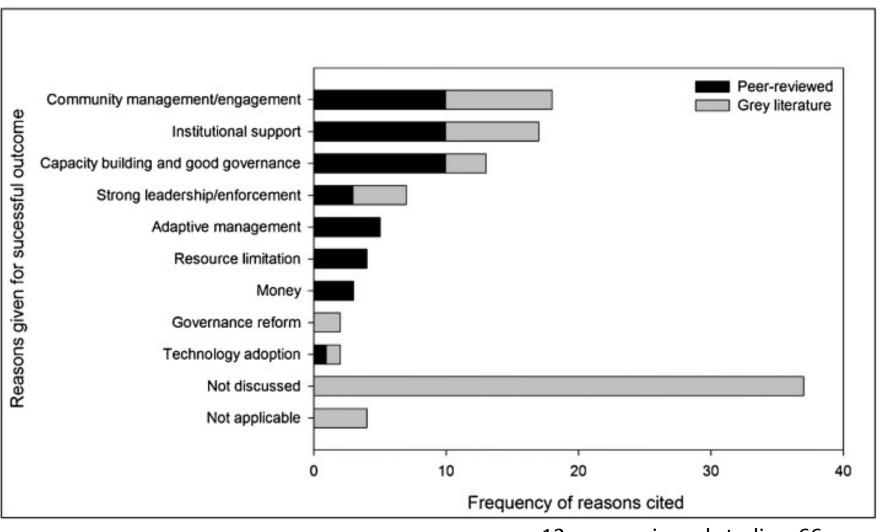Inclusive and participatory governance

# Evidence of improvements



12 peer reviewed studies. Reed et al. 2017

# Contributing factors



13 peer reviewed studies; 66 grey literature. Reed et al. 2017

# Hojancha, Costa Rica: a success story
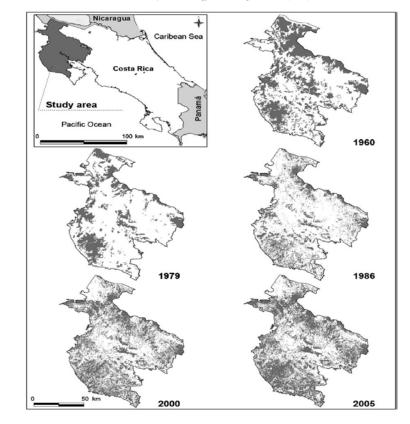


Land use in the 70´s

Hojancha:
40 years
later

# Forest cover dynamics in the Nicoya Peninsula (1960-2005)

**Drivers of change**

**Common sense of crisis**
> Beef price drop
> Land and watershed degradation
> Significant emigration

**Restoration efforts**
> Reforestation, AFS, protection, diversification and added value

**Enabling conditions**
> Willingness of landowners
> Policies and institutions (local & national)
> Local values: locally rooted people, collaboration, tolerance, etc.
> Local collaborative leadership
> Technical and financial cooperation

## Critical interventions

## 1. Sustainable production systems and value chains

- Emphasis on management of ecosystems (agriculture, AFS, forests and wild)

- Reconcile production and conservation targets (soils, water, biodiversity, etc.)

- Enhance livelihoods assets (human, social, natural, physical and financial)

- Integrate scientific and local knowledge

  (e.g. farmer field schools)

- Development of value chains to integrate farmers to markets

Forest community concessions in Peten, Guatemala

- From sawn timber to FSC parts for guitars in USA (mahogany)

- Sell of lesser known species for garden furniture in Spain:
  - +52% harvesting (less mahogany dependent)
  - +23% revenue

- Use of tree branches and log tops:
  - +19% volume
  - +11% revenue

- Small local enterprise and service provider negotiate directly with buyers

- Monitoring impact of harvesting

**2. Ecosystem-based mitigation**

- Restoration of degraded lands: Bonn Challenge, GPFLR, Initiative 20x20 and AFR100

- Sustainable forest management and protection

- Future scenarios of forest cover and land use to support strategies such as REDD+

- Trees in agricultural lands through AFS and SPS

- Agroecological practices to increase biomass and carbon (vegetation and soil)

- Fertilizer and livestock management to reduce emissions

- Support to national policies and strategies towards low emission development

**3. Ecosystem -based adaptation**



- Enhance socio-ecological resilience at household, farm and landscape scales (assets, strategies)

- Priority to zones, ecosystems and crops key for the provision of ES, food and forest products

- Diversification, germplasm, crop management, pests & diseases, water harvesting, etc.

- Support to landscape governance platforms for participatory decision making and enhance collaborative leadership

- Learning through monitoring and knowledge management

**Stregthening resilience of vulnerable populations in Nicaragua**

- Organization and planning of charcoal producers allowed legal timber harvesting

- Technological innovation in kilns (earth to brick): +240% revenue (yield and quality)

- Community revolving fund ($15,000) for kiln construction and operating capital

- Improved commercialization and partnerships with intermediaries improved quality & price: +135% in the value chain

# 4. Social inclusion and and gender equity



- Collective action for wellbeing and inclusive green growth at household, farm and landscape

- Mechanisms and incentives for inclusion and participation of women + minorities + marginalized:

  - ✓ From planning phase to access to benefits

  - ✓ In households, farms, value chains and governance platforms

- Enhance landscape´s "collaborative intelligence" (learn to think and act together)

**5. Knowledge management**


Our KM Cycle

- Seek better impact through decision making supported with evidence

- Collaboration to enhance better access to information and knowledge

- Integrate diverse sources of knowledge: farmers field schools, workshops, future scenarios, MRV, governance platforms, observatories

- Enhance landscape´s "collaborative intelligence"

# 6. Inclusive and participatory governance

- Improved collaboration and networking among actors for decision making

- Platforms could be formal or informal

- Joint and collaborative planning based on a joint vision

- Collaborative leadership styles are necessary

- Harmonize interventions to optimize the capacity of the landscape to provide public and private goods

- Optimize use of assets and capacities (intelligence)

- Effective links with governance structures and processes at higher levels

# The GLF Scales Up

The Global Landscapes Forum 2017-2022:
Landscapes for a new climate and development agenda

Global Landscapes Forum

# From Warsaw to Lima, Paris, London, Jakarta… .

- 2013 Warsaw:  **Defining the landscape approach**
  - 1,200 at venue, 1,684 webcast views, 1.9 million through Twitter

- 2014 Lima: **Transforming the landscape approach into practice**
  - 1,700 at venue, 2,074 webcast views, 6.7 million through Twitter

- 2015 Paris:  **Launching, scaling and monitoring landscape action**
  - 3,200 at venue, 4,290 webcast views, 15.9 million through Twitter

- 2015, 2016 The Investment Case, London *Connecting global funds with local farms and forests*

- 2017 Peatlands, Jakarta *Communities first*

# GLF Marrakesh: Climate thematic event

5,500 participants from 95 countries

60 % of respondents say they will apply knowledge learned at the GLF

*German Government announces support for GLF 2017-2022 and Global Secretariat in Bonn*

# GLF vision: *Community of Landscapes*

**The Global Landscapes Forum**

**enhances well-being and environment for all**

**by putting people first**

- **communities (people acting together) drive change**

- **landscapes are complex and require flexible solutions**

- **local collective consciousness and solutions can fulfil global goals**



**The Global Landscapes Forum 2017-2022:**
Landscapes for a new climate and development agenda

Global Landscapes Forum

# GLF aspirations: Restoration



*Current estimates of potential production on degraded lands are greatly hindered by missing and often unreliable information*
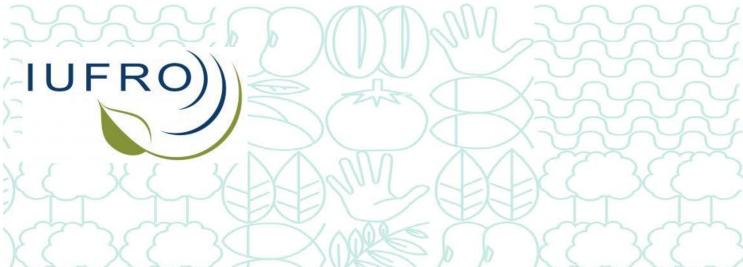
*Mapping the World's Degraded Lands*, H.K. Gibbs & J.M Salmon

Connecting all restoration initiatives to accelerate action

## Summary

- Healthy landscapes are (social constructs) fundamental for our future

- ILA/FLR do not seek to replace existing institutions or processes, but to connect them

- Key elements: multiple objectives, stakeholder involvement and dialogue and adaptive management

- It is about negotiation and collaboration that embraces diversity of solutions

- It is a smarter social organization process for collaborative management of natural resources

"*In the course of history, there comes a time when humanity is called upon to shift to a new level of consciousnees, to reach a higher moral ground*'

Wangari Maathai

Thank you

# The 5 Conditions of Collective Impact

**1** Common Agenda
- **Common understanding** of the problem
- **Shared vision** for change

**2** Shared Measurement
- **Collecting data** and **measuring results**
- Focus on **performance management**
- **Shared accountability**

**3** Mutually Reinforcing Activities
- **Differentiated approaches**
- **Coordination** through joint plan of action

**4** Continuous Communication
- **Consistent** and **open communication**
- Focus on **building trust**

**5** Backbone Support
- Separate organization(s) with **staff**
- Resources and skills to **convene** and **coordinate** participating organizations