



Land Degradation and Restoration Research Needs

Zoom eConference, 14 January 2019

Bob Scholes & Luca Montanarella
Co-chairs, Land Degradation and Restoration Assessment



www.ipbes.net



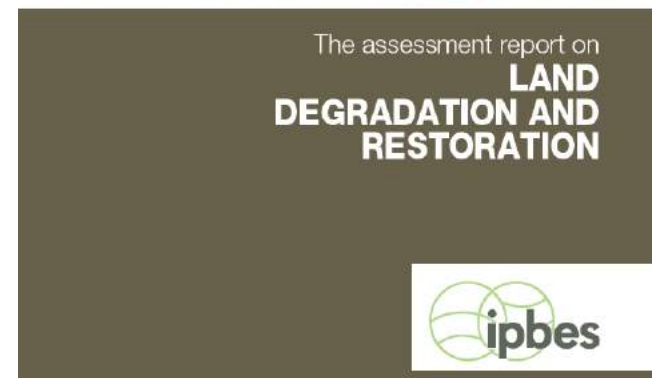
Food and Agriculture
Organization of the
United Nations



empowered lives.
Resilient nations.

Land Degradation and Restoration Assessment

- **>150 leading international experts** from 55 countries over three years
- More than **4,000 publications** (scientific papers, Government reports, indigenous & local knowledge and other sources)
- Refined by over **7,300 comments** from external reviewers, scientific bodies, and Governments
- **SPM and full report** can be found at: <https://www.ipbes.net/assessment-reports/ldr>



What this presentation will touch on

1. Key IPBES-LDRA findings
2. Some thing we could not asses, because of inadequate prior research
3. Emerging high priority issues, as revealed by the LDRA



1.

Key findings



Top-level messages

- You can find instances of land degradation in virtually **every ecosystem type in the world**, and in every country.
- The severity and **consequences vary**, depending on the **social and ecological context**, and **when** the degradation took place, but in total are a major burden on human wellbeing and threat to the existence of other species.
- The problem is **ongoing and worsening**, rather than improving, as the demands we place on land increases and its capacity to satisfy them is progressively and persistently weakened.
- Present policy and civil society efforts to address the problem have demonstrated that it is **possible to make a difference**, but the current level of effort is far below that required to turn the situation around.



2.

Some non-findings
things we would have liked to have said, but did
not have enough supporting information

Just how much land degradation is there?

Despite decades of study, hundreds of reports, we still can't answer this question definitively

The key problem is differing and incompatible definitions of degradation

IPBES LDRA was given an agreed definition which partly solves the problem:

-persistent decrease in ecological function, ecosystem services and biodiversity

But: you need to distinguish between transformation and degradation,
and Treat the impact on biodiversity separately from those on function and services

Global comparison requires that each instance includes the following attributes

Type: eg deforestation, forest degradation, wetland drainage, soil erosion...

Area affected, separately by different classes of

Severity – what is the % reduction in ecosystem services, function or biodiversity

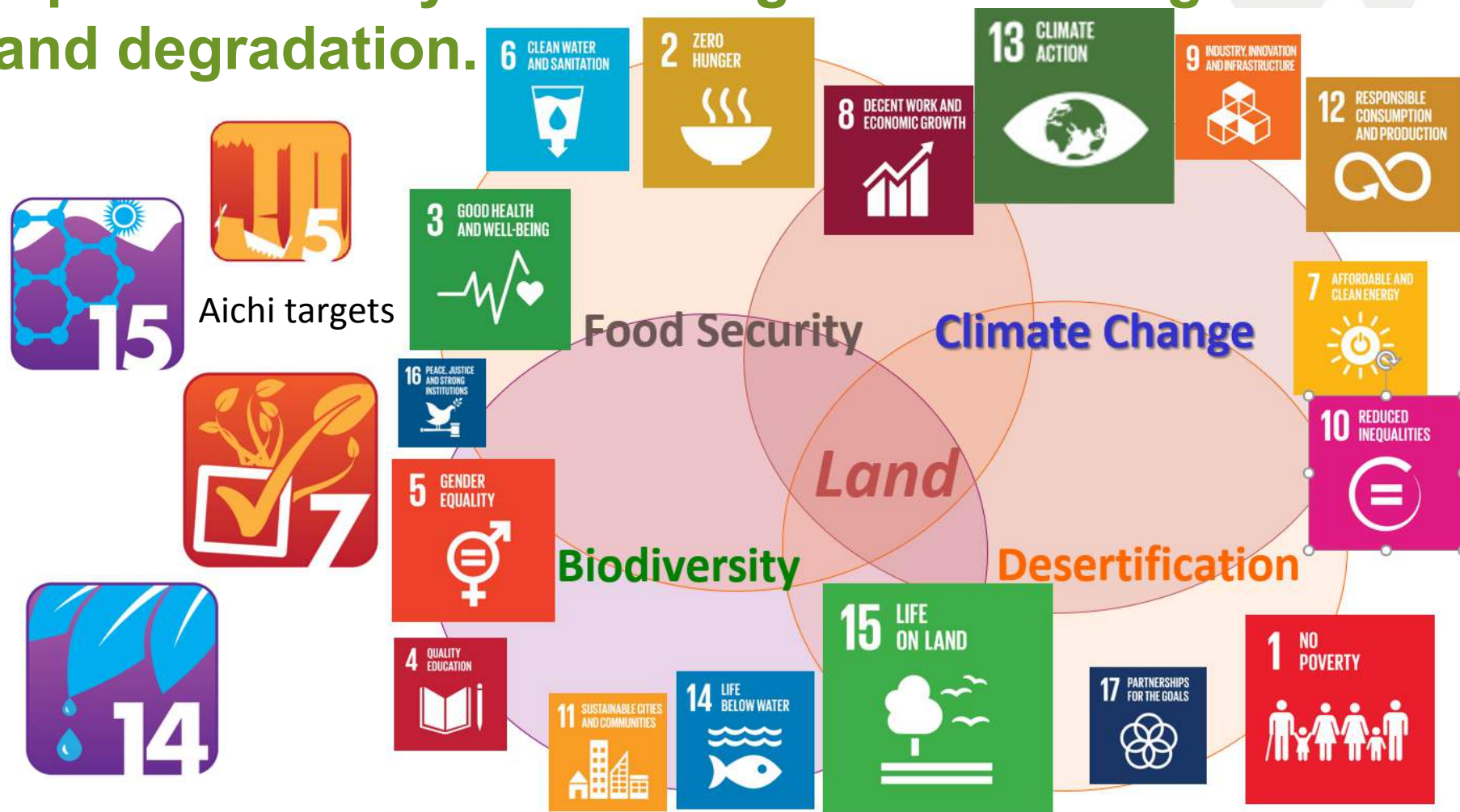
Spontaneous recovery rate – how many years to 90% recovery if left alone



3.

Emerging issues

The success of many international concerns depend critically on halting and reversing land degradation.



Research gaps

- The changing relationship between people's worldviews and their perceptions of degradation
- Non-domineering but rigorous ways of engaging with 'non-scientific' knowledge systems
- The causal relationships between degradation, conflict and migration

