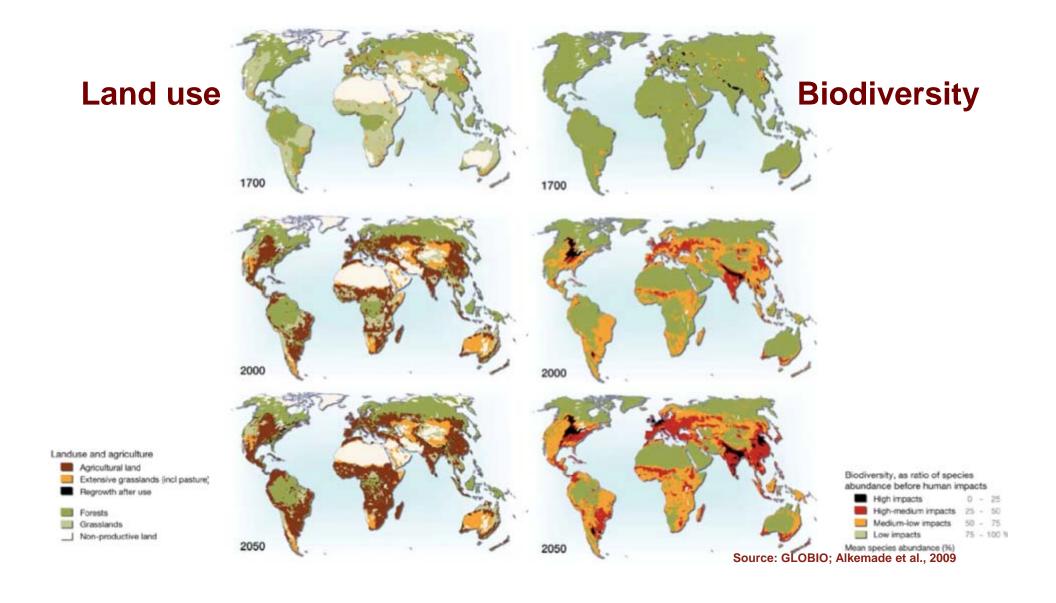


# 4 returns: a holistic framework for landscape restoration

Willem Ferwerda Green Week, IUCN, 31 MAY 2016





### Many policies and actions plans in place

Bonn Challenge

Action 2020

**UNCCD** 

**New York Declaration 2014** 

Land

**Degradation Neutrality** 

**UN Climate Change** 

Africa 100m ha

CoP 21 Paris

Sustainable Trade
Initiative - IDH

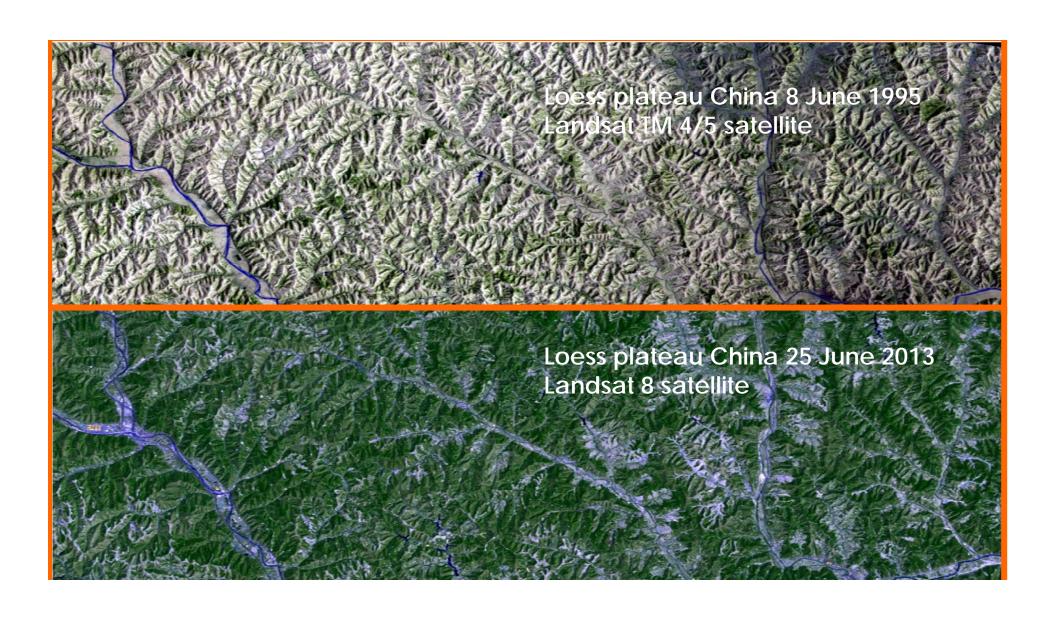
Global Landscape Forum

Global Partnership on Forest and Landscape Restoration

Climate Smart Agriculture







## 2.5 million

people were lifted out of poverty

Low-value agricultural commodities were replaced with high-value products

In 10 years farmers' incomes

tripled

**Employment diversified** 

Grain output increased from 365 kg to 591 kg per capita per year

Sediment flow into the Yellow River

Reduced with 80% since the start (> 1 billion tons annually)

Opportunities for women to work increased significantly

Perennial vegetation cover increased from 17% to 34%

Employment rate increased from

70% to 87%

Source: World Bank

Large investable landscape restoration projects are needed but non existent.

How to built a pipeline of large scale projects to accelerate a restoration industry?

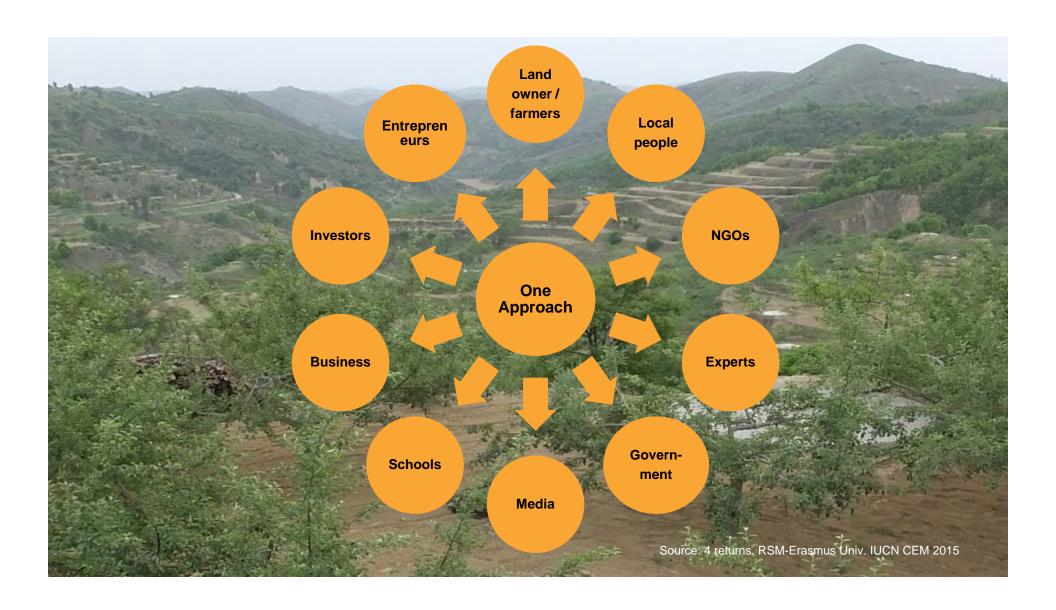
#### **Business as usual**





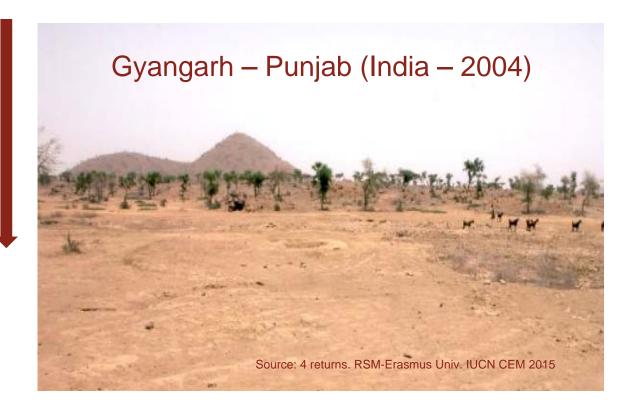
# Maximization of Return on Investment per hectare creates deforestation, desertification, biodiversity loss, climate change

Source: 4 returns. RSM-Erasmus Univ. IUCN CEM 2015



## Degradation leads to four losses:

- Biodiversity
- Jobs
- Economic activity
- Meaning





## Restoration gives four returns:

- Inspiration
- Social capital
- Natural capital
- Financial capital





## 4 returns from Landscape restoration

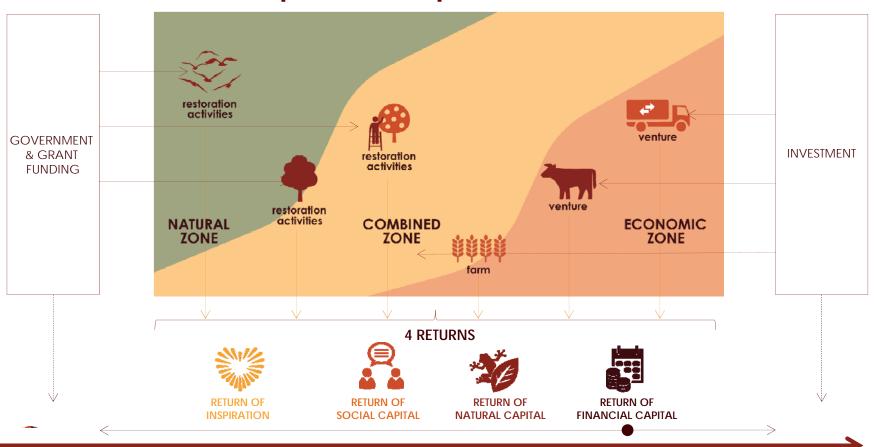
Returns	Different Entities	Values measured
Inspirational Capital	<ul> <li>Meaningfulness, holistic awareness</li> <li>Local culture wisdom &amp; outreach</li> <li>Landscape leaders, commitment to local ownership, less corruption</li> <li>Understanding meaning of long term commitment of companies, investors</li> <li>Time for inner reflection, worship</li> </ul>	<ul> <li>% of stakeholder group / yr / ha:     # local cultural, social, religion events</li> <li># 'defining moments' of people involved</li> <li>% of stakeholder group /yr / ha committed; % -/-     corruption benchmark</li> <li>% responding to long term commitment;     responsible leadership; % of &gt; # years commitment,     investment</li> <li>% of free time to rest and think</li> </ul>
Social Capital	<ul><li>Jobs</li><li>Security</li><li>Local social cohesion</li><li>Education &amp; Social Services</li></ul>	<ul> <li># of new jobs / project / municipality - ha</li> <li># various savings yr / project</li> <li># of social ventures / yr / project</li> <li># schools, trainings, services / project</li> </ul>
Natural Capital	<ul> <li>Biodiversity</li> <li>Invasive species</li> <li>Vegetation cover</li> <li>Top soil</li> <li>Water</li> </ul>	<ul> <li># of (native) species / yr / ha</li> <li>% decrease / yr / ha</li> <li>% coverage / yr / ha; % cloud formation</li> <li>mm layer / yr / ha; % microbes; % C / ha</li> <li>% humidity; # stream flow (m³ / yr / ha)</li> </ul>
Financial Capital	<ul> <li>Agriculture, Carbon, Timber</li> <li>Leisure, hunting, bush harvesting</li> <li>Real estate &amp; other incomes</li> <li>Water</li> <li>Decrease erosion, increase topsoil</li> </ul>	<ul> <li>Yield / yr / ha</li> <li>Yield / yr / ha</li> <li>Value / yr / ha</li> <li>Production m³ / yr</li> <li>Decrease costs input chemicals / ha / yr</li> <li>Source: 4 Returns (2015) Ferwerda</li> </ul>

To maximize the 4 returns, we apply the 3 zones landscaping principle to every landscape restoration plan, for a period of 20 years.

- Nature zone
- Combined zone
- Economic zone

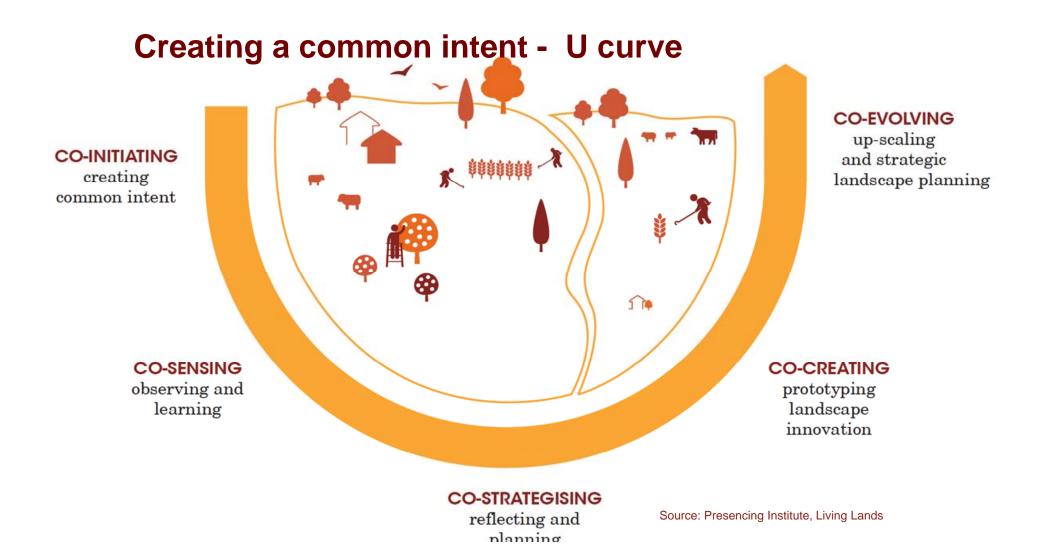


### 4 returns landscape masterplan - zoom out /zoom in



20 Years

**Source: Commonland** 







Stakeholder Mobilization

**Business Development** 







Financing & Investment

Knowledge & Learning

Founded in 2013 by IUCN CEM, Rotterdam School of Management and private investors. Mission partners: GPF ELD-GIZ, WBCSD, WUR, Presencing Inst.

Contributing Bonn Challenge, by developing business cases with 4 returns, 3 zones, 20 years.

Projects in South Africa, **Spain**, Australia.

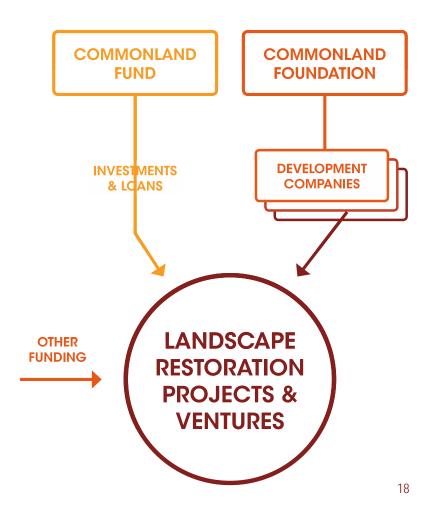
Scouting in Colombia, Netherlands

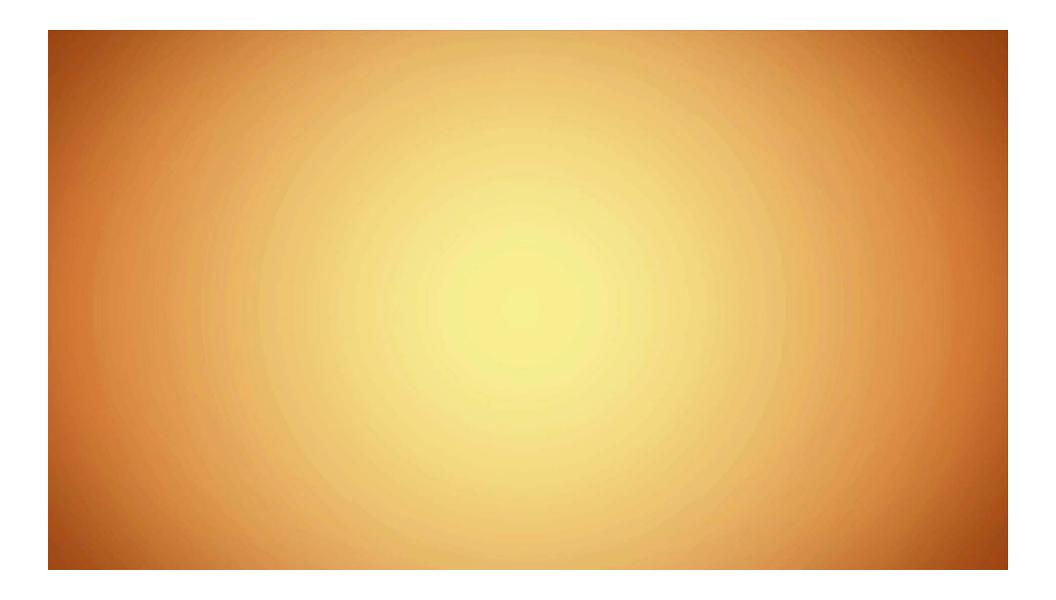
Academy for Business and Landscapes

Multidisciplinary team of 30 people

Developing an investment fund with others









#### © 2014-2015 Commonland Foundation

Commonland and 4 returns are registered trademarks of Commonland Foundation

T +31 20 8116603 / info@commonland.com / www.commonland.com

