Why food?
Latin America area if land was aggregated by usage or terrain cover. Land categories are not shown by their distribution around LAR area but are representative of the total area they cover.

Source: Land Cover of the European Space Agency - ESA Climate Change Initiative – CCI (www.esa-landcover-cci.org/)
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THE CURRENT SITUATION

- **70%**
  - Of habitat conversion in Latin America comes from the ag sector (3 times global rate!)

- **50%**
  - Of agricultural lands in Latin America have some level of degradation

- **1/3**
  - Of global GEI emissions come from ag sector (including land conversion), where LAR is major contributor

LESS
- Energy/Materials Required

MORE
- Energy/Materials Required

**FAR FROM NATURE**

**CLOSE TO NATURE**

**DEGENERATING**
- Extractivistic Design
- Reductionist Thinking

**R2A STRATEGY**

**SYSTEMS APPROACH**
- Natural Climate Solutions
  - **REGENERATING**
  - **SUSTAINABLE**
    - Long term resilience and socio–economic development
  - **RESTORATIVE**
    - CO₂ capture and sequestration
      - Double organic content in soil in agroecological vs. conventional production
  - **GREEN**
    - Stability and resilience in ag productivity
  - **CONVENTIONAL**

Source: John Fullerton, “Regenerative Capitalism: How Universal Principles and Patterns Will Shape Our New Economy”. Capital Institute, April 2015
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STRATEGIC FRAMEWORK

Avoided Forest Conversion

Reforestation

Peatland, Forest, Grasslands Restoration & Conservations

Habitat Restoration and Conservation

Alley Cropping

Living Fences

Silvopastoral systems

Animal Feed Management

Grazing optimization

Legumes in pastures

Improved manure management

Windbreaks

Sustainable Ranching

Living Fences

Silvopastoral systems

Animal Feed Management

Grazing optimization

Legumes in pastures

Improved manure management

Windbreaks

Agroforestry

Agricultural Diversification

Intercropping

Multi-cropping

Crop rotations

Field margins

Integrating native strips on fields

Biochar added to soil

Minimum tillage

Cover crops

No burn

Agricultural profitiability

Efficient use of inputs

Climate resilience

Resilience to market fluctuations

Soil health

Water resilience

Stability and resilience in ag productivity

Biodiversity

Habitat conversion

Habitat restoration

CO₂ capture and sequestration

Efficient water usage

Sediment and nutrient loading

Quality of life

Financial stability & economic resilience

Access to markets

Water quality

Food security

Socio-economic development

Nature Based Solutions

Resilience

Diversity

Synergies

Continuous Improvement

Efficiency

Nature Based Solutions

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Resilience

Diversity

Synergies

Continuous Improvement

Efficiency
From Conventional to Regenerative Ranching and Agriculture with Biodiversity for Climate Resilience

**CONVENTIONAL AGRICULTURE**

- Only production benefits
- Highest yields
- Highest Return on Investment (RoI)

**BEST AGRICULTURAL PRACTICES**

- One or a few environmental/social and production benefits

**COSTS**

- Soil degradation
- Water pollution
- GHG emissions
- Biodiversity Loss

**SYSTEM OUTCOMES REQUIREMENTS**

- Landscape level habitat restoration and conservation for agricultural communities’ climate resilience

**REGENERATIVE RANCHING AND AGRICULTURE**

- Highest production benefits
- Highest Return on Investment (RoI)
- One or a few environmental/social and production benefits

- Landscape level habitat restoration and conservation for agricultural communities’ climate resilience
REGENERATIVE FOOD SYSTEMS
Foodscapes: Living Laboratories Guiding A New Food Economy

- RESTORATIVE AQUACULTURE
- SUSTAINABLE FISHERIES
- AGROFORESTRY
- RIPARIAN BUFFERS
- PLANNED ROTATIONAL GRAZING
- INTERCROPPING
- COVER CROPPING
- PRECISION NUTRIENT MANAGEMENT

± 3 million HA
Land & seascapes

Systems Approach
- Regenerative practices
- Enabling policies
- Localized incentives
- Platform of partners, learning network effect

Rooted in place, supporting producer livelihoods
SCALING ADOPTION
Across Action Landscapes

To achieve system impact in the long term, TNC will:

• Focus on nucleus points of the action landscapes to pilot R2A interventions
• Implement, evaluate and build visibility for successful interventions with partners
• Across R2A multi-stakeholder platforms, replicate and scale up successful R2A projects throughout and across action landscapes.
• By 2027, R2A adoption will spread to at least 10 action landscapes to contribute towards regional agricultural sector transformation.
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PROGRESS ON ACTION LANDSCAPES

SUSTAINABLE RANCHING

WHERE DO WE WORK?

- **Valle del Río Cesar**
  - Cesar y La Guajira

- **Piedmonte Orinocense**
  - Meta

- **Ecorregión Cafetera**
  - Caldas, Quindío, Risarada, Tolima y Valle

REGIONS: 5
DEPARTMENTS: 12
MUNICIPALITIES: 87

PROGRESS

- **4,100** FARMERS PARTICIPATING
- **26,730** HA Implemented with silvopastoral system
- **80,107** HA Of sustainable production
- **17,455** HA Of conserved forests
- **840,122** MT Of CO₂e in reduction of greenhouse effect gases

**COLOMBIA**
**INTENSIVE SILVOPASTORAL SYSTEMS**

This combines the cultivation in pastures, high-density forage shrubs, fruit trees and carbon storage in wood. Additionally, there are paddock rotations and a permanent water supply.

**LIVING FENCES**

Planted trees and shrubs of different species in high density replace wooden or cement poles and wires. They serve as fodder and also as ecological corridors enabling wildlife passage.

**DISPERSED TREES**

Trees scattered in paddocks generate environmental and productive benefits such as shade, nitrogen fixation, wood, food and fruits. It is recommended to have 35 trees minimum per hectare.
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Regenerative Index

**Environmental**
- Soil health restoration
- Water management
- GHG sequestration
- Biodiversity, habitat

**Productive**
- Agricultural profitability
- Resilient to market fluctuations
- Functional biodiversity

**Social**
- Livelihood and food security
- Economic resilience
- Financial stability

*will vary by geography and value chain*
Latin America Region

REGENERATIVE RANCHING & AGRICULTURE (R2A)

Thank You!