

Prepared by Elvira Marín of Aland Foundation and Alejandro Díaz of Commonland for the "Investing in Landscapes: A Challenge for Finance Innovation, A Wealth of Opportunity," virtual event convened by the 1000 Landscapes for 1 Billion People initiative, Laudes Foundation and IKEA Foundation on February 22, 2023.

# Reversing Desertification Through **Business-driven Landscape Restoration in Spain**

Altiplano Estepario, Spain AlVelAl Association / Aland Foundation **February 2** 













**Bioregional** Weaving Labs

## Altiplano Estepario landscape context

Almería, Granada and Murcia, Southeast of Spain

## 1. Description:

- Cold semiarid steppe
- 200.000 inhabitants
- Agriculture, livestock and forestry
- Monoculture of almond trees
- Largest area of rainfed almond trees in the world (100.000ha)
- 50% of the agricultural land is certified as organic



## Altiplano Estepario landscape context

Almería, Granada and Murcia, Southeast of Spain

- 2. Total area 1 million hectares
- 3. Key land use-related challenges:
  - Erosion
  - Desertification
  - Loss of soil
  - Loss of biodiversity
  - Depopulation



## AlVelAl 4Returns Restoration Landscape Project

- Partners with a collaboration agreement:
  - AlVelAl Association (local farmers and entrepreneurs) is leading the project
  - 4returns businesses: Almendrehesa, Habitat, AlVelAl Foods and others
  - Commonland: international partner
  - Aland Foundation: national partner
  - Municipalities
- 2. Active since 2015
- 3. Started working together to unite under the same dream of creating a prosperous landscape where future generations can live in dignity



## Our vision and transformation strategy

- 1. The 20-year vision for the Altiplano that resulted from the coinitiation workshop, using the "U Theory". Along the "U", the future is emerging; it is about creating a regenerative landscape, with agroecology as a form of life, connecting economy and ecology. And just as important: confidence and well-being, both socially and economically. Serving as a lighthouse for dryland restoration in the Mediterranean basin, landscape vision a reality.
- Collective leadership training and facilitation is a very useful tool, already implemented in AlvelAI, for the resolution of internal and external conflicts and tensions with the different partners.
- 3. The first high-level, long-term vision for the Altiplano was created in 2014. Since then, it has been enriched with the experience of working on the landscape. An area of inspiration exists where a strong and proud community is mobilised to transform its territory for future generations. For example, a participatory process amongst AlVelAl's members in the last months of 2021 was held, and led to the following vision 2050 per zone aims beyond the initial 20-year planning period:





## 4 Returns Framework for Landscape Restoration

### Process 5 Elements

Our landscape restoration process consists of 5 phases.

- Establishing a landscape partnership
- Reacha shared understanding
- Building a landscape plan
- Ensure effective implementation
- Develop monitoring and learning

## **Impact**

4 Returns

Our landscape restoration framework delivers 4 types of returns to the landscape and its stakeholders.

### Return of Inspiration

Opening people's eyes to the possibility of a better future



### Social Returns

Creating jobs, businesses, networks, and social prosperity



### Natural Returns

Restoring the health, resilience and prosperity of landscapes



### Financial Returns

Realising long-term, sustainable, and local income

### Landscapes 3 Zones

For successful landscape restoration we distinguish, restore and connect 3 types of zones.

## Time 20+ years

Successful systematic landscape restoration takes one generation, or 20 years.







Regenerating a landscape's ecological foundation by restoring and protection of biodiversity within natural ecosystems such as wetlands, grasslands and forests

### Combined Zone





Combining food, fibre and biodiversity productivity through regenerative agriculture. agroforestry and soil restoration.







Delivering sustainable economic productivity with dedicated areas for activities that create value, typically concentrated in urban areas. infrastructure and processing,

# 20+ years

A minimum of 20 years, or one generation, is needed to successfully implement large-scale integrated landscape management.

### Economic Zone







## Our 20-year plan for the Altiplano

### **Natural Zone**

Connect the Region through 4,000 ha of green corridors







## Our 20-year plan for the Altiplano

## **Combined Zone**

800 farmers to transition to regenerative practices influencing 100.000 ha







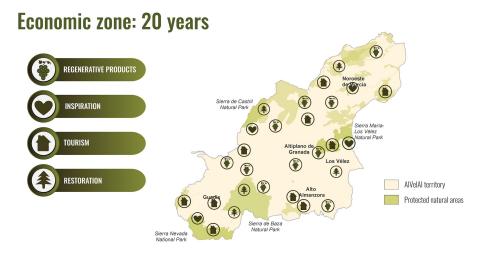
## Our 20-year plan for the Altiplano

### **Economic Zone**

Co-create 30 business cases conductive to landscape restoration







## **Investment Complementarity**

- 1. In the Altiplano, desertification of farmland is largely a consequence of intensive agricultural practices, so AlVelAl developed the "almendrehesa" system to slow down and reverse desertification (see slide 8).
- 2. To incentivize the transition to regenerative practices, business cases have been developed to find and/or create (premium) markets for these products and keep added value in the landscape (see slide 9) by capturing a bigger piece of the value chain.
- 3. Importantly, these businesses were developed by AlVelAl and therefore inherently contribute to the broader restoration initiative.
- 4. This is a **mutually beneficial relationship**, as the businesses and farmers benefit from services provided by AlVelAl and other partners, including training, R&D, marketing, etc.

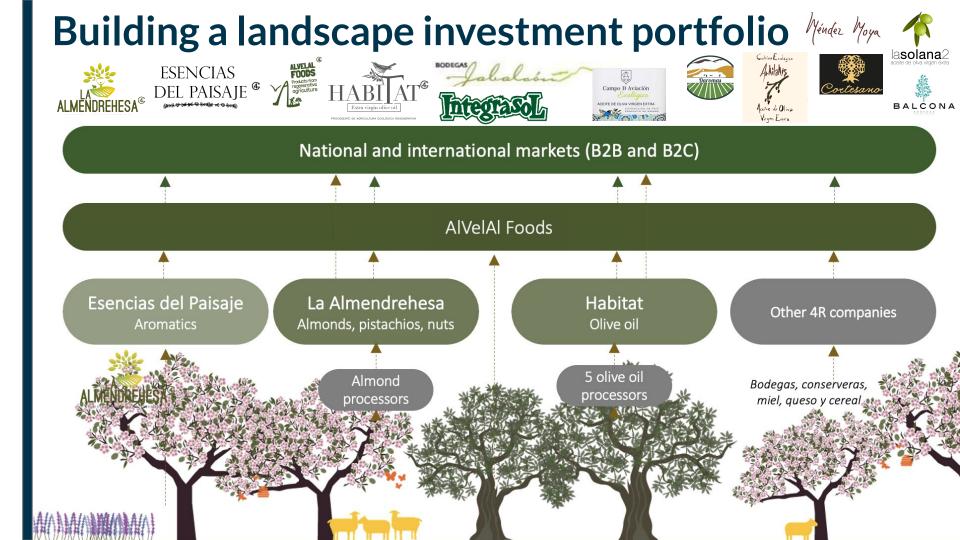


## La Almendrehesa

Integrated Productive Ecosystem for Large Scale Restoration Based on Sustainable Business Cases



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ELEMENTS	ORGANIC, RAINFED ALMOND GROVERS, WITH INTERSPERSED LOCAL TREE SPECIES	AROMATIC PLANTS	ENDEMIC SEGUEÑO LAMBS	BEES	POLINIZERS
FUNCTIONS	- Create habitat for biodiversity	- Prevent erosion - Promote insect diversity	<ul><li>Aerate and fertilize the soil</li><li>Mow weeds</li><li>Feed on almond husks</li></ul>	<ul> <li>Promote pollinization and production of high quality organic honey and other bee products</li> </ul>	Act as bridges between the natural zone and the agromix zone
BUSINESS CASES	- Almonds and by-products - Biomass - Compost	Medicinal plants     Organic essential oils	<ul> <li>Organic meat</li> <li>Organic wool</li> <li>Leather</li> <li>Milk and dairy products</li> </ul>	- Organic honey - Polen, royal jelly, wax	



## Partners and supporters

- Aland Foundation, as national partner, and AlVelAl Association, as local landscape partnership, lead and coordinate (primarily) grant funding so activities are aligned and complementary and have mobilized nearly EUR 5M to-date.
- Business cases, once developed and operational, are financed independently by other funders, impact investors, and financial institutions, primarily equity and debt
- While most finance is project specific, Commonland and other funders provide valuable process funding (flexible and long-term grants)





















EARTH MINE





















## Financing needs

Landscape needs include both grant funding and investment capital, which

Approx. **€52 million over next 10 years**:

- o Grant funding predominantly through Aland Foundation and AlVelAl Association: €36 million
  - o Natural zone restoration
  - o Research and development
  - o Marketing and communication
  - o Capacity building / technical assistance
- o Investment predominantly through business cases Almendrehesa (almonds), AlVelAl Foods (regen products from territory), and Habitat (olive oil): €16 million
  - Agri-business (production, transformation, distribution)
  - o E-commerce to sell products from territory
  - o Transition finance for farmers
  - o Tourism opportunities



# Landscape investment: lessons learned

- Flexible (unrestricted) and long-term grant funding (process funding) is critical to drive landscape restoration
- Process funding de-risks investments by providing low-cost capital to the landscape to activities not expected to generate revenues nor be investable
- 3. Similarly, grant funding allows investable businesses and projects to be developed, which in turn raise private investment
- 4. Commercialization of regenerative products can support farmer transitions
- Funders and investors can consider how investments might be complemented with grant funding and other forms of support (and vice versa)

