

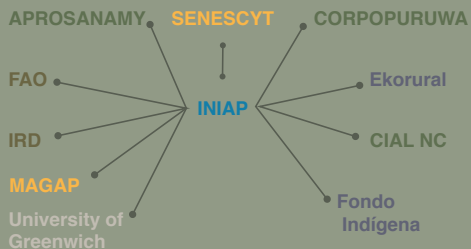


Lupin test plot CIAL
Photo credit: Eduardo Peralta

Los Andes Community of Practice



Project Partners



- Governmental Organization
- Non-Governmental Organization
- University outside of Region
- National Ag Research Center
- Farmers' Organization
- International Ag Research Center

Breeding Pipeline: Andean Grains 2005-2016

Availability of high quality seed

2014: **Farmer Organizations produced 8% national demand** for lupin seed, 7% for quinoa, up from essentially 0 when the project began in 2004.



Farmer managed seed production and dissemination

A group of farmers (48) formed a **lupin seed company** with prices 100% higher than grain prices (**\$8,000 in profit**).



CORPUPUWA launch
Photo Credit: Eduardo Peralta

Grantmaking informed by AEI

On-going research among various CoP projects to find more agro-ecological management options for Andean Grains

Interactions among multiple pathways of change

Reflective practice

Collaboration

Achieve detectable, heritable variation for traits of interest among progeny generated

With the help of the CCRP funded **PROINPA** project from Bolivia, in 2008 INIAP began implementing the quinoa enhancement program. 2015: Have 18 F2 populations, 5 F3 populations, 10 F4 lines, 5 F5 lines, 11 F7 lines and 5 F8 lines. 8 promising quinoa lines were evaluated in the 4 main quinoa provinces of Ecuador. Work with local landraces suggest a **strong varietal x context interaction**, especially for quinoa with yields varying more than 200 kg/ha for lupin and 800 kg/ha for quinoa (n=154, 2013).

START HERE

What's missing from this case study:

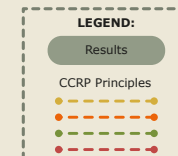
- More diverse options for various contexts available to farmers (ToC)
- Enhance resilience and sustainability (Principles)

Farmer managed seed production and dissemination

Training/ intervention	Outcome indicator	% Increase 2009-2014
Project facilitated connection between 3 FOs and other national organizations who helped to fund the purchase of threshers and seed kits as well as market opportunities .	Use threshers	30%
Andean grain cooking and recipe workshops	Consume andean grain once a week	22%
Project training of trainers on quality seed in general and farmer certified lupin seed specifically	Saving seed or buying farmer certified (vs. using grain purchased in market)	20%
Project training on "best practices"	Use of INIAP lupin variety Andino 450	50%
	Use of INIAP quinoa variety Tunkahuan	30%
	Use of chemical fertilizer	20%
	Use of fumigations	8%

Characterizing agrobiodiversity

2000, prior to CCRP funding, INIAP selected **2 high performing quinoa and Lupin varieties**,



COLLABORATIVE
CROP RESEARCH
PROGRAM

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