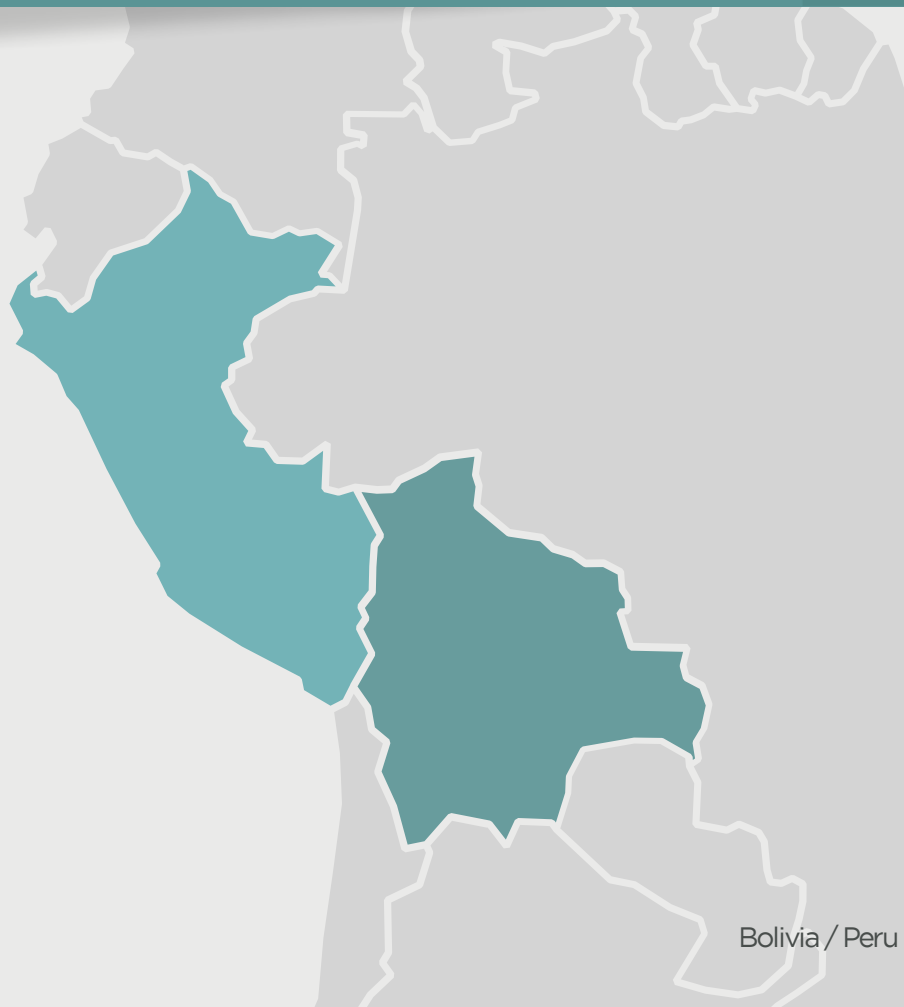


Resilient Native Potatoes: Safeguarding Food Security

In Bolivia and Peru, we will work with communities to preserve the genetic diversity of native potatoes, enhancing food security in the face of climate change.



Bolivia / Peru



Protecting native potato diversity

The implemented initiative

We will focus on the recovery and strengthening of native potato crops in Bolivia and Peru, where these varieties play a fundamental role in food security and cultural identity. In collaboration with the Universidad Mayor de San Andrés (UMSA) in Bolivia and the National Institute of Agrarian Innovation (INIA) in Peru, the project combines ancestral knowledge with modern

technology, such as marker-assisted genetic improvement and crop monitoring with drones. Training farmers in sustainable practices and promoting the native potato market seeks to promote climate resilience and socio-environmental and economic sustainability, safeguarding a key genetic resource

Innovation in crop improvement and sustainable practices

The technological solution

Using advanced techniques such as genetic improvement assisted by molecular markers, we will identify and develop a potato variety with high resistance to extreme conditions such as drought. This variety will be grown in experimental plots where full tillage and zero tillage methods will be compared, in addition to the use of ancestral agricultural terraces (in Bolivia) and the influence of the phases of the moon (in Peru). Additionally, we will implement the use of drones

(with RGB cameras in Bolivia and multispectral cameras in Peru) to monitor the health and development of crops, thus evaluating the effectiveness of these methodologies with the farmers. Through training and field schools, the project will seek to work with local farmers to determine best practices for growing native potatoes and using technologies, encouraging the sustainable use of water and soil resources, promoting climate resilience of families

MÁS INFO



Results

By combining ancestral knowledge with scientific knowledge, we hope to achieve better production of native potatoes, benefiting producers and promoting the revalorization of a genetic resource of great importance for the future of our countries. Native potatoes have suffered for years of cultural value erosion due to the demands of an industrialized and

globalized world. Fortunately, we are at a time when the diversity of native products is being revalued and recovered, thanks to the opening of fair-trade markets and solidarity economy, the gastronomic movement of innovation and fusion and other factors, which will give a positive turn in farmers' perceptions about the cultural, biological and economic value of these ancient products