

Adaptation at Altitude: how can we exchange knowledge and share lessons of adaptation solutions in mountains?







The Adaptation at Altitude programme

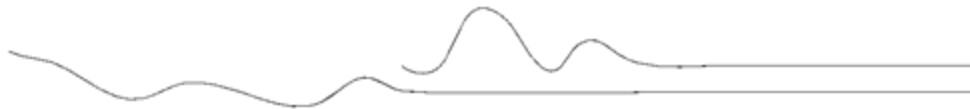
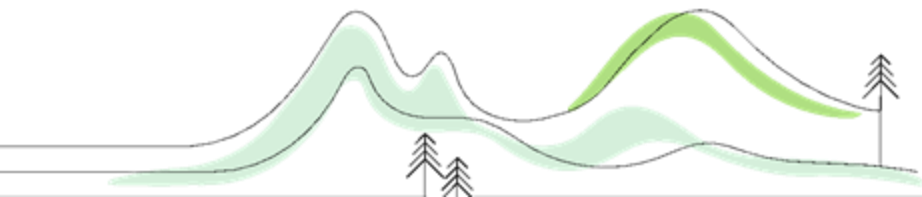
- Mountains feature some of the clearest indications of climate change.
- Adaptation at Altitude aims to enhance the resilience and adaptive capacity of mountain communities and ecosystems to climate change, through:
 1. Improving data, information, and monitoring;
 2. Strengthening regional science-policy exchange and collaboration;
 3. Fostering knowledge generation and sharing;
 4. Advocacy and policy influencing.



How are we supporting knowledge exchange?

- The Adaptation at Altitude Solutions Portal
- 'Climate change adaptation in mountains' theme
- The Adaptation at Altitude Knowledge Network

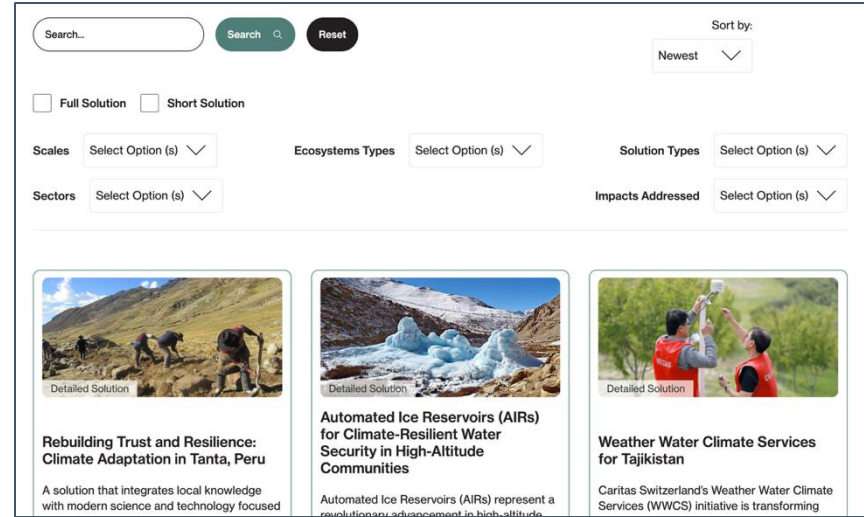
 Mountains Regions Mountains are on the frontline of climate change. Find out more.	 A@A Knowledge Network Join our community of practice – the Adaptation at Altitude Knowledge Network!	 Solutions Portal Explore the Solutions Portal of tried and tested climate adaptation solutions.
 Resources Learn and share resources, projects, and papers on our Resources page.	 Events Explore Events that are upcoming and read summaries of previous events.	 About A@A Learn more about the Adaptation at Altitude (A@A) programme on the About Us page.



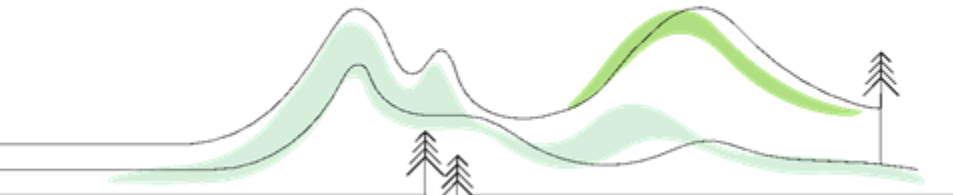
Adaptation at Altitude Solutions Portal

The Solutions Portal shares past or ongoing tried-and-tested solutions that can be scaled and replicated elsewhere.

‘Solutions’ are defined as technologies, approaches, and/or processes to adjust natural or human systems to actual or expected climate impacts, in order to reduce expected losses or harness benefits.



The screenshot shows the user interface of the Adaptation at Altitude Solutions Portal. At the top, there is a search bar with a 'Search' button and a 'Reset' button. To the right, a 'Sort by:' dropdown menu is set to 'Newest'. Below the search bar, there are two checkboxes: 'Full Solution' (checked) and 'Short Solution'. Further down, there are four filter sections, each with a dropdown menu: 'Scales' (set to 'Select Option (s)'), 'Ecosystems Types' (set to 'Select Option (s)'), 'Solution Types' (set to 'Select Option (s)'), and 'Impacts Addressed' (set to 'Select Option (s)'). At the bottom, there are three solution cards. The first card is titled 'Rebuilding Trust and Resilience: Climate Adaptation in Tanta, Peru' and features an image of people working in a field. The second card is titled 'Automated Ice Reservoirs (AIRs) for Climate-Resilient Water Security in High-Altitude Communities' and features an image of ice reservoirs. The third card is titled 'Weather Water Climate Services for Tajikistan' and features an image of two people in red vests. Each card has a 'Detailed Solution' link.



Explore the
A@A
Solutions
Portal here



Adaptation at Altitude Solutions Portal

Our approach:

Create: we collaborate with solution contributors to collate relevant information


Review: expert editors review the solution to ensure it is of high quality

Promote: we share all solutions across our social media channels to support learning and knowledge exchange



weADAPT: 'Climate change adaptation in mountains' theme

- Create a weADAPT account and subscribe
- Share your projects, papers, and case studies on adaptation in mountain regions
- Share news and updates in the dedicated forum space



Theme

Climate Change Adaptation in Mountains

Mountains are highly vulnerable to climate change. They also provide numerous essential services. This theme explores how mountains and mountain communities can be made more resilient.

148

113 Articles

24 Case studies

Join

Share



 Multiple Authors

Adaptation Solutions: Climate Resilience in the Andes

Explore this accessible compilation of climate adaptation solutions in the Andes! This book presents 12 tried-and-tested initiatives with details on implementation, actors, benefits, challenges, potential for replication and more.

26th May 2025

5 min read

 Multiple Authors

Trends in climate adaptation solutions for mountain regions

Explore the trends in climate adaptation solutions in mountain regions!

24th Sep 2024

3 min read



 Multiple Authors

Transboundary climate risks and adaptation in mountain areas: a brief for Parties and Observers to the UNFCCC

This brief highlights why it is crucial for transboundary climate risks and mountain areas to be accounted for across different negotiation tracks. It also lays out concrete recommendations for UNFCCC Parties and Observers on the road to COP29 and beyond.

16th Oct 2024

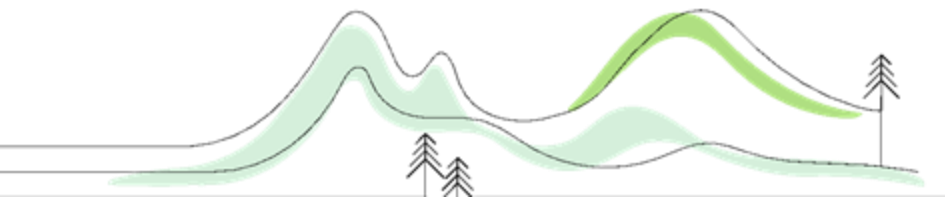
6 min read



The Adaptation at Altitude Knowledge Network

A **global community** through which we can share experiences and knowledge on adaptation in the mountains and collaborate to accelerate the uptake of innovative solutions. It aims to:

- **Encourage communication between stakeholders** working on and experiencing climate change adaptation in mountainous regions across the globe.
- **Support the sharing of successful solutions** for adaptation in mountains.
- **Foster the translation and uptake of solutions** for use in other locations.



Sign-up here!



Agenda for today's session:

13:35 – 14:15: 'marketplace' of projects and solutions

14:15 – 14:50: breakout discussions

14:50 – 15:00: closing and synthesis



Thank you!

For more information, contact: rosie.witton@sei.org or kate.williamson@sei.org



CONDESAN
Consortio para el Desarrollo Sostenible
de la Ecorregión Andina

ICIMOD

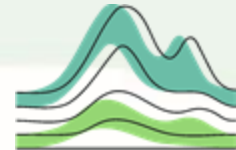


**UNIVERSITÉ
DE GENÈVE**



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC



**ADAPTATION
AT ALTITUDE**

Taking Action in the Mountains

WS 3.119: Solutions for adapting to climate change in mountains: an exchange of lessons learned and ways forward

Social-ecological vulnerability and adaptive capacity of small-scale agriculture to Global Environmental Change in Important Agricultural Heritage Systems in southern Chile.

Encouraging local knowledge as a tool for better adaptation strategies

Dr. Carla Marchant; Dr. Tomás Ibarra; Dr. Marcelo Miranda; Mg. Camilo Oyarzo;

Dr(c) Paulina Rodríguez

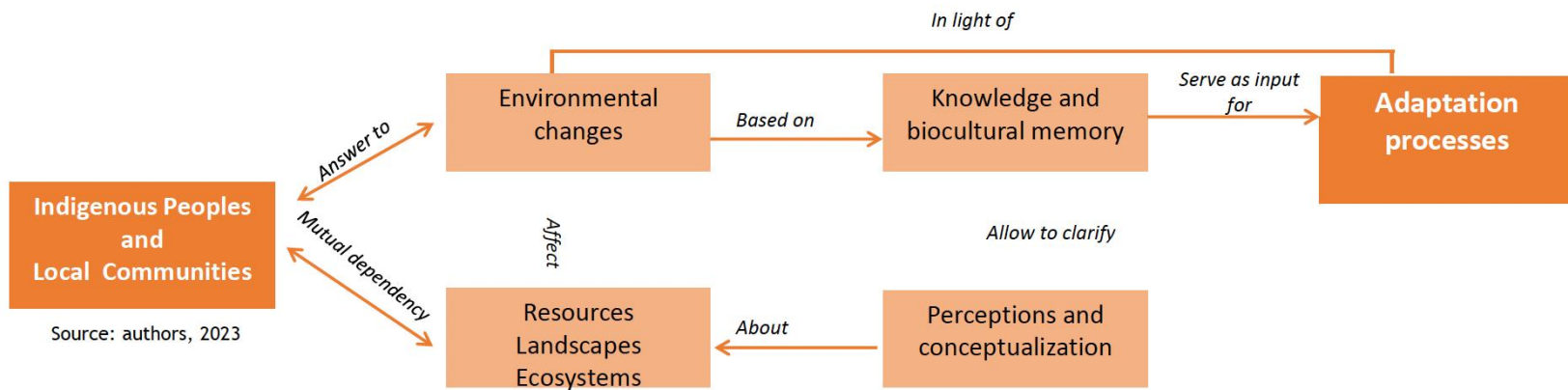
Outline

- Introduction
- Theoretical framework & research question
- Study area
- Methodological approach
- Results
- Conclusions



Introduction

IP & LC conceptualize climate and environmental changes through a relational approach



Theoretical approach

¿What is Social - Ecological Vulnerability (SEV)?

Propensity or predisposition of a social-ecological system to be adversely affected by the impacts of Climate Variability or Climate Change.

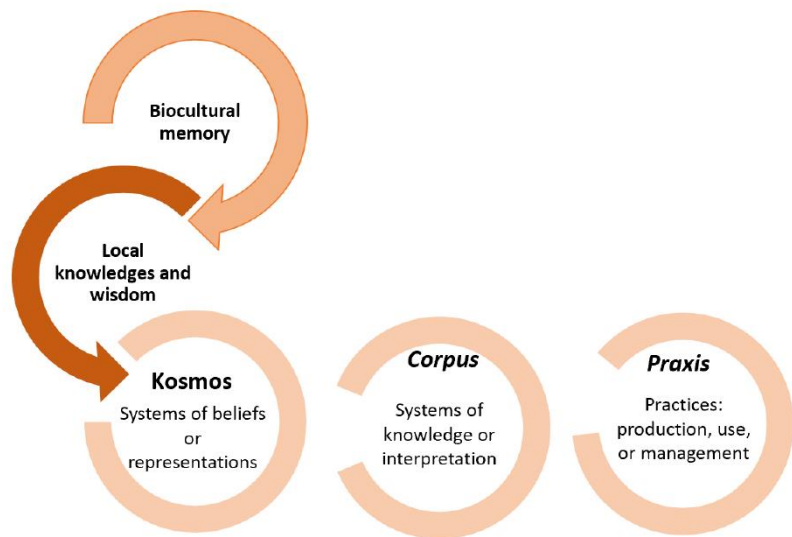
Vulnerability has been defined by the IPCC (2001; 2007; 2014; 2021) as a function of three dimensions: **Exposure** to climate variability and extremes, the **Sensitivity** of social systems, and the **Adaptive Capacity** of human groups.

$$V = (E + S) - AC$$

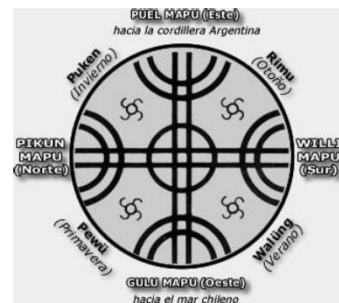


Research question

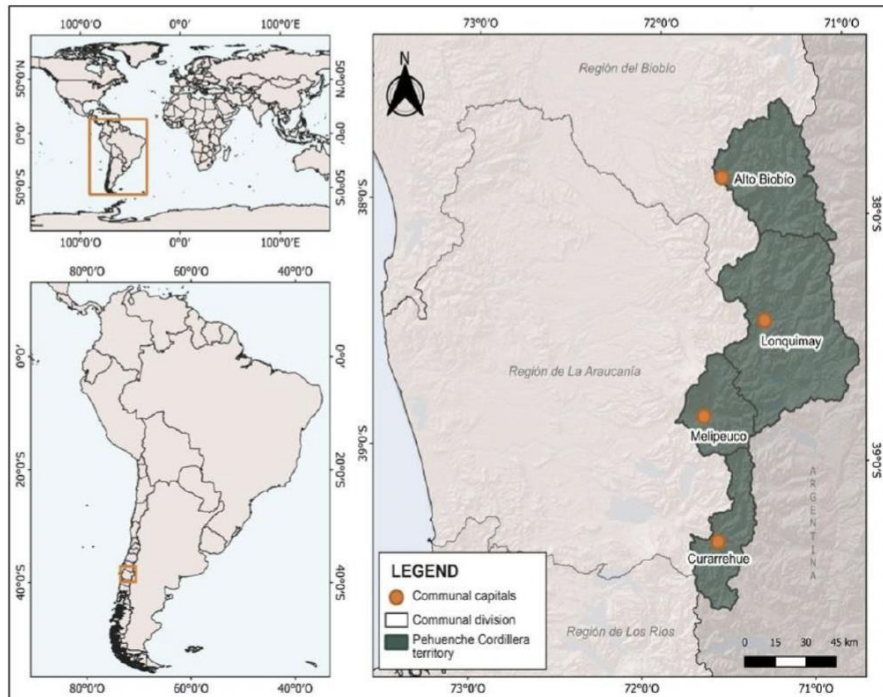
How do memory and biocultural knowledge contribute to adaptation and the reduction of social-ecological vulnerability?



Source: Toledo & Barrera Bassols (2009)



Study area: Southern Chilean Andes



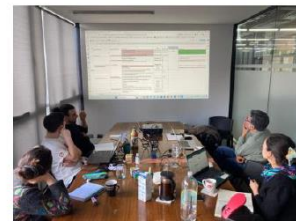
Methodological approach

Calculation of the
Social-Ecological
Vulnerability Index

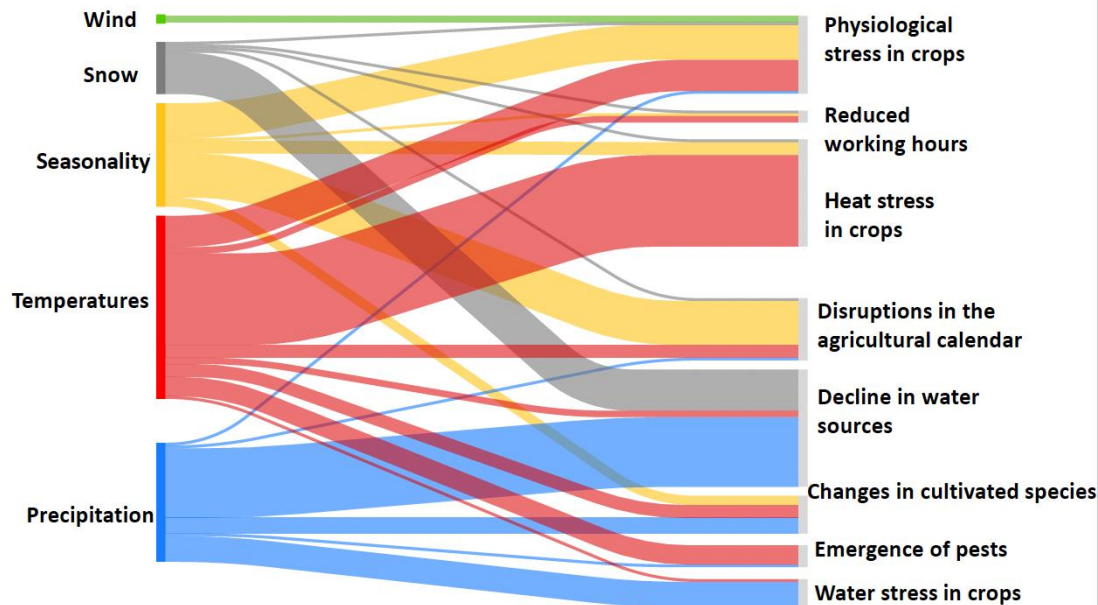
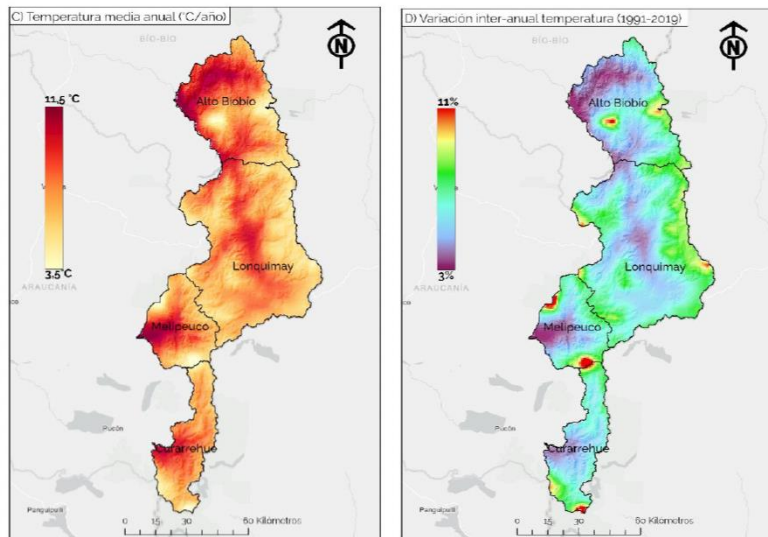
- Current CV models and future CC scenarios
- Sustainable Livelihoods Approach (DFID, 1999; Serrat, 2017)
- Social-Ecological Vulnerability Index (SEVI) based on the Livelihood Vulnerability Index (LVI) by Hahn et al. (2019)

Identify adaptation
practices,
strategies, and local
knowledge

Proposals and
recommendations
for local public
policy-making



Results: climatic modelation & perceived impacts and effects

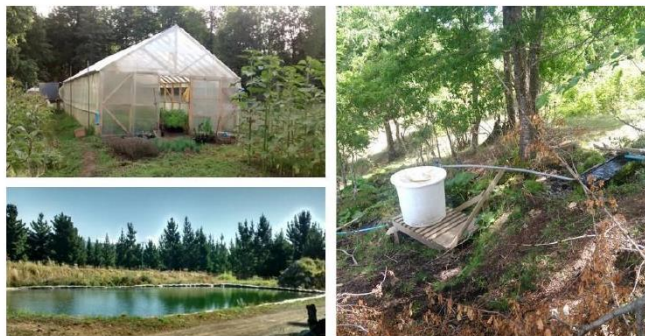


Results: 15 adaptation practices to droughts

Practices

- Adjustments in the crop calendar
- Rainwater harvesting
- Drip irrigation
- Reduction in homegardens size
- Use of smoke in greenhouses
- Shared use of water
- Use of wells
- Use of Rural Potable Water systems
- Greywater reuse
- Seed exchange: Trakintu
- Organic fertilizers and pesticides
- Shade mesh (Raschel mesh)
- Change in cultivated species
- Native trees around water sources
- Anti-Frost flowers (Maravillas Anti-heladas)

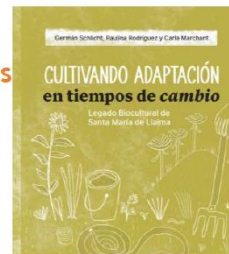
Conservation and Efficient Use of Water



Revitalization of Biocultural Heritage



Agricultural and spatial management of homegardens



Conclusions

- The challenges of Climate and Environmental Change, as a complex process, require an approach that **brings together diverse knowledge systems** and engages a wide range of local actors.
- Local knowledge, expressed through **biocultural practices**, provides essential input for the development of adaptive practices.
- It is therefore fundamental to integrate these wisdom into a **dialogue of knowledge** within local governance and management.

Luego de cinco años de trabajo entre instituciones y pueblos originarios

Chile inicia postulación para el reconocimiento mundial de sitios como Patrimonio Agrícola y prácticas tradicionales del país.

Los expedientes para obtener este reconocimiento fueron entregados por el Ministro de Agricultura a la Representante de FAO en Chile, en el marco del cierre del Proyecto SIPAN.

19 de Junio 2024

Equipo Redagricola



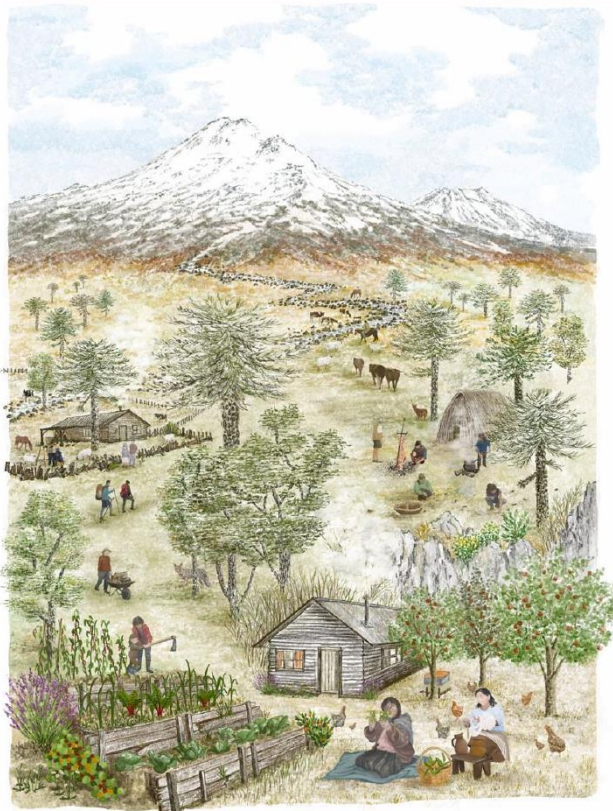
Luego de cinco años de trabajo entre instituciones públicas del agro, la FAO y las comunidades de los pueblos originarios aymara, quechua, licanantay, mapuche pehuenche y familias campesinas, el Estado de Chile, a través del Ministerio de Agricultura, hizo entrega a la FAO de los expedientes que sustentan la postulación de estos territorios al reconocimiento como Sistemas Importantes del Patrimonio Agrícola Mundial (SIPAM).

Globally Important
**AGRICULTURAL
HERITAGE**
Systems



Conclusions

Thanks for listening
and follow us!



ANDESDELSURLAB

www.andesdelsurlab.cl

WS 3.119

Solutions for adapting to climate change in mountains

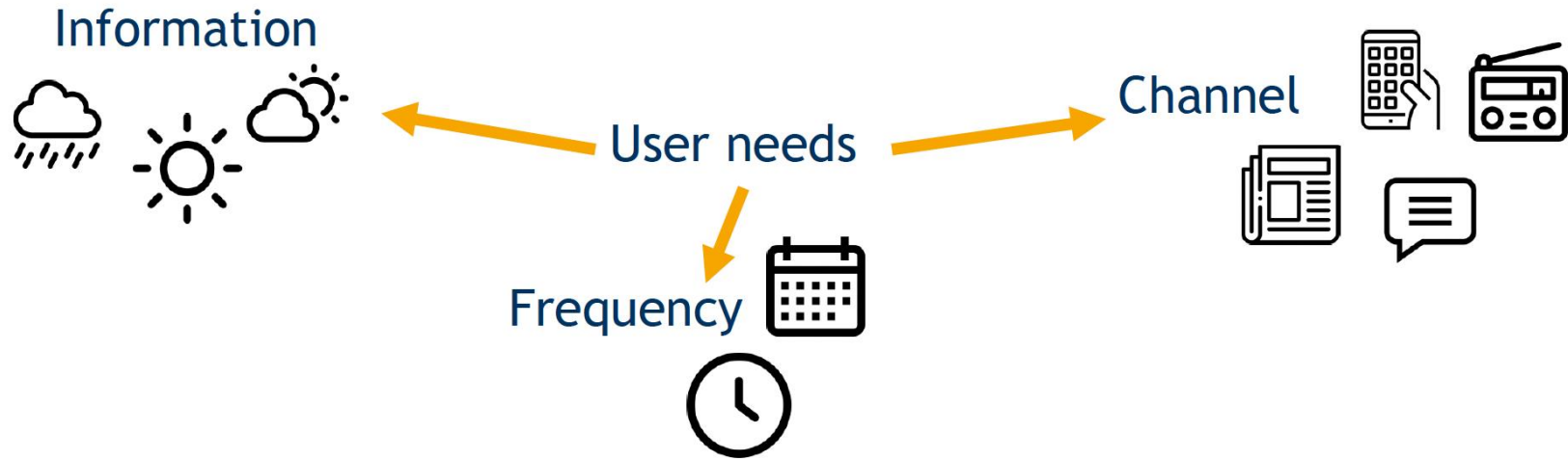
The flux of climate information in mountain regions: an example from the Andes

Christine Jurt¹; Sofia Foladori-Invernizzi¹

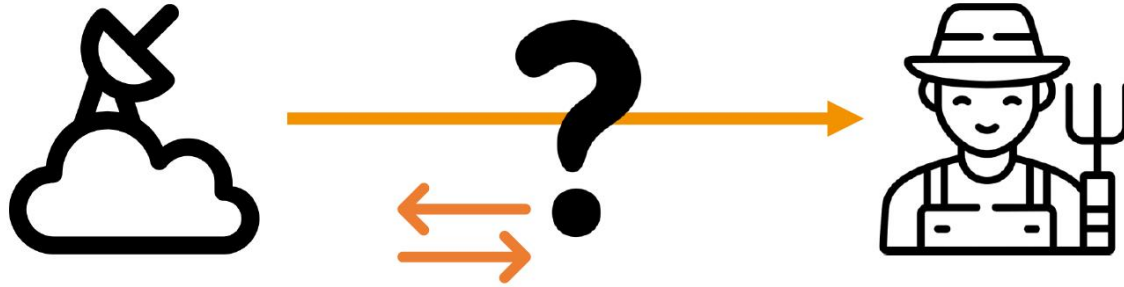
¹ Bern University of Applied Sciences, School of Agricultural, Forestry and Food Sciences (BFH/HAFL)

What are weather and climate services?

Weather and Climate Services consist of tailored information regarding weather and climate to a specific user → supports decision-making, resilience and adaptation



The "Last Mile" in Climate Service



For a climate service to be effective, it needs a good forecast, but also, it needs to reach the end user, to be **understood, trusted and to lead to decision-making**

→ **Coproduction** of knowledge is key to enfold **their full potential**

(Brasseur and Gallardo, 2016; Kalafatis et al., 2015; Vogel et al., 2019)



The Andean Context

- **Geographic Scale:** >7000 km long, vast altitudinal gradients
- **Diversity:** 7 countries (6 in ENANDES+) with different cultural, political, and economic contexts

How does this diversity translate into different systems of climate information?



Objectives



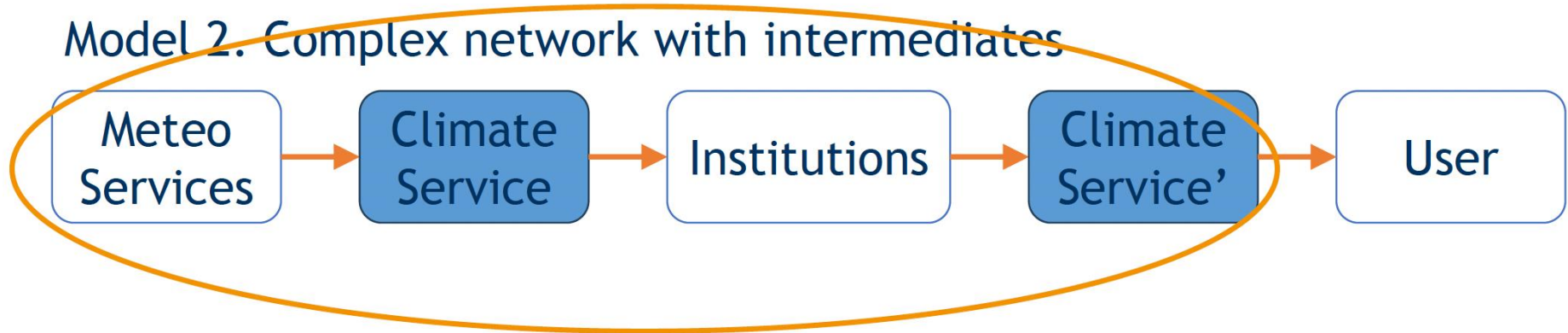
1. Examine the **flow of weather and climate information** in the different ENANDES+ case studies, from the National Meteorological and Hydrological Services until **the end user**
2. Understand how **co-production of knowledge** is considered or integrated in the climate information flow of the different case studies

Contrasting Pathways of Climate Information

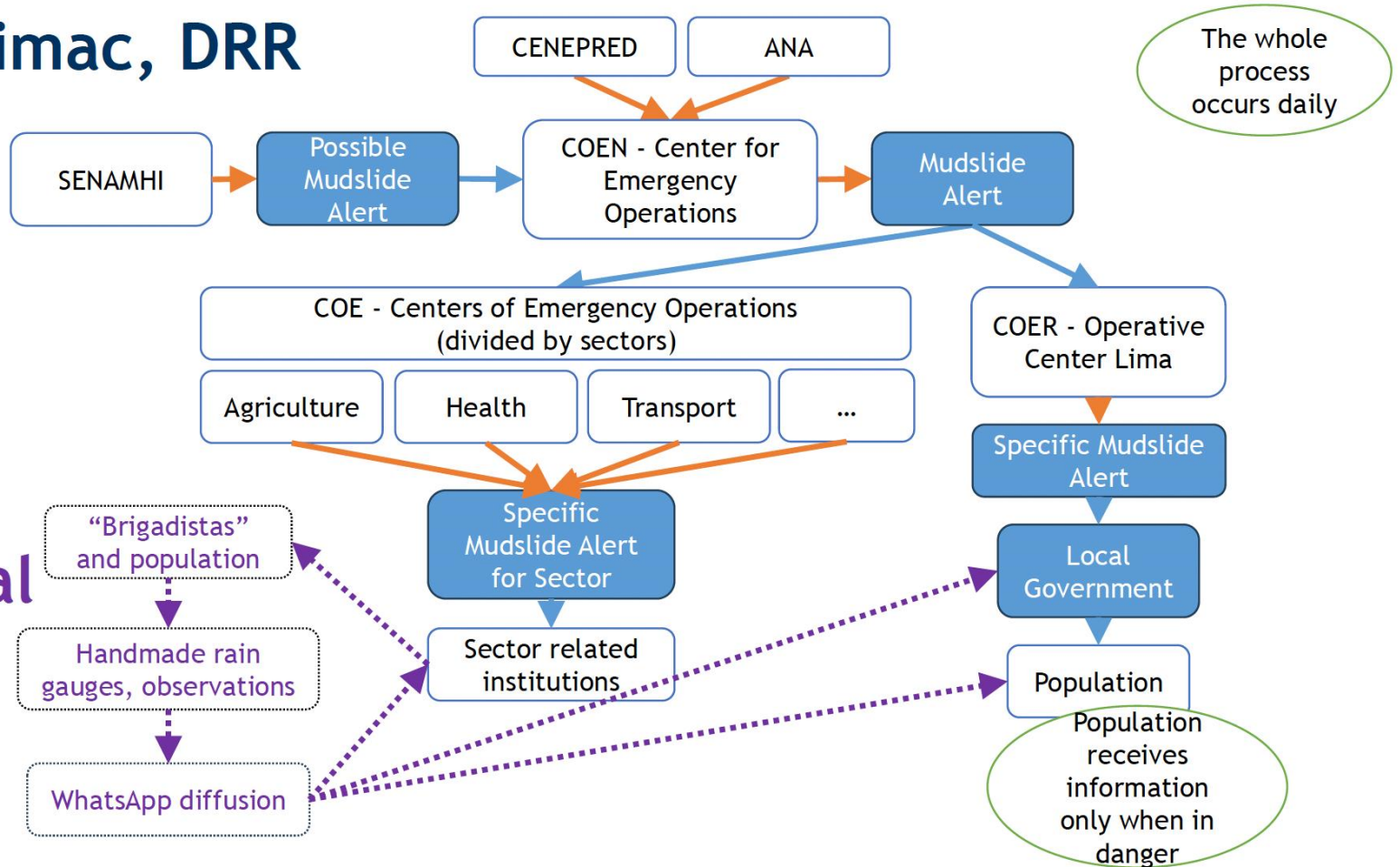
Model 1. Direct delivery



Model 2. Complex network with intermediates



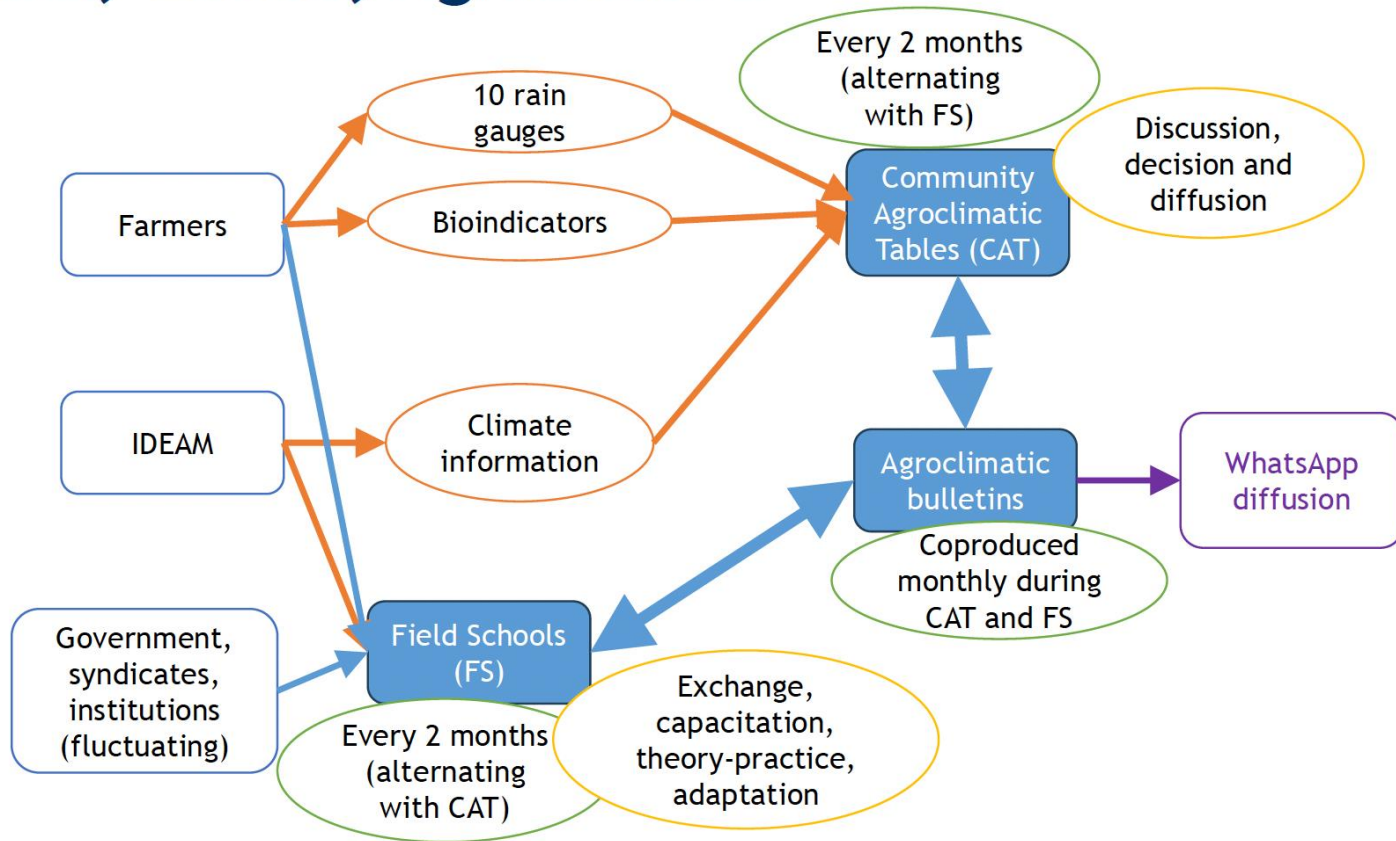
Peru, Rimac, DRR



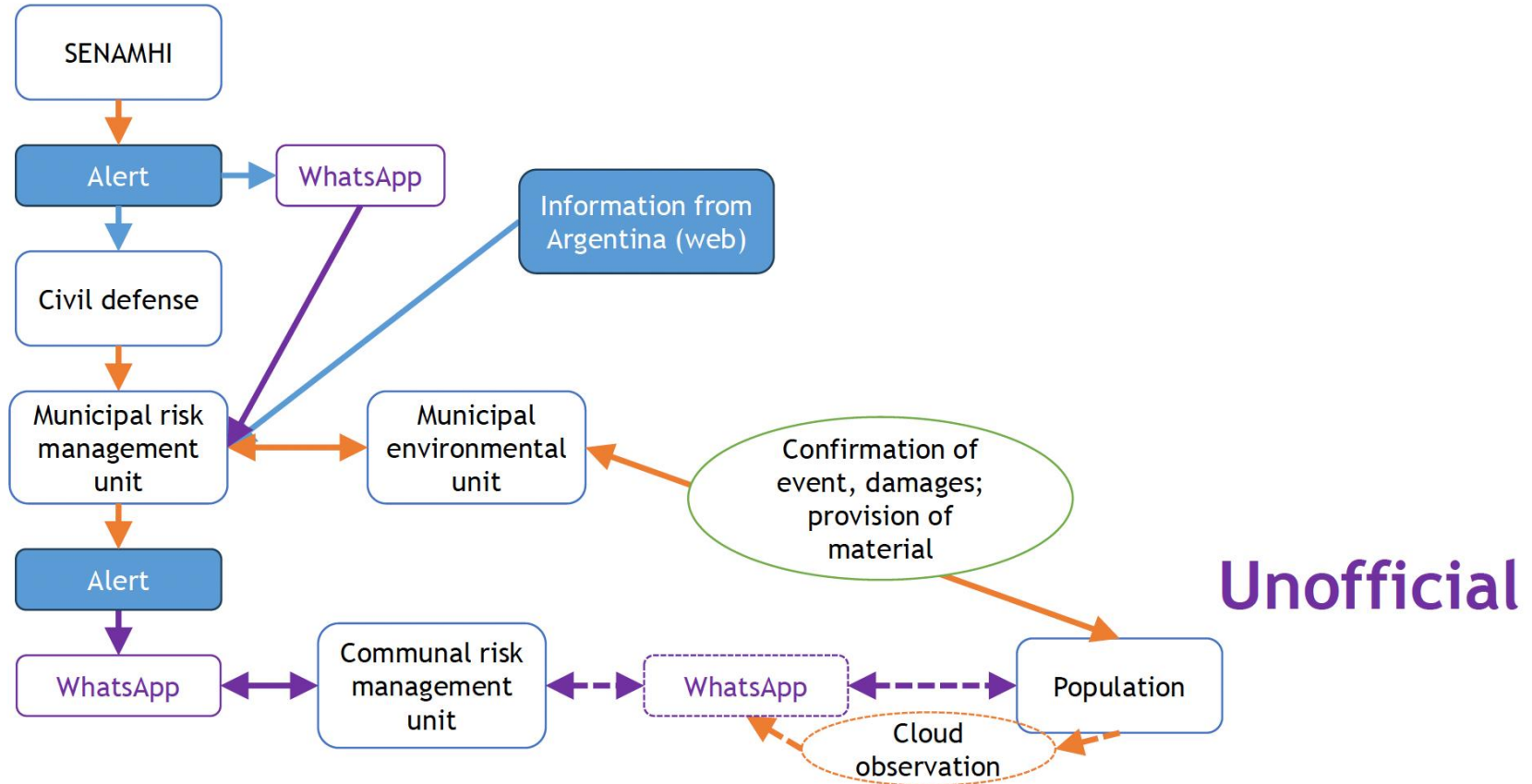
Unofficial



Colombia, Cauca, Agriculture



Bolivia, Uriondo, Agriculture



Why Does the Flow Matter?



Accuracy: intermediaries can add value



Timeliness: complex chains can cause delays



Trust: users may trust local institutions more than a distant government agencies

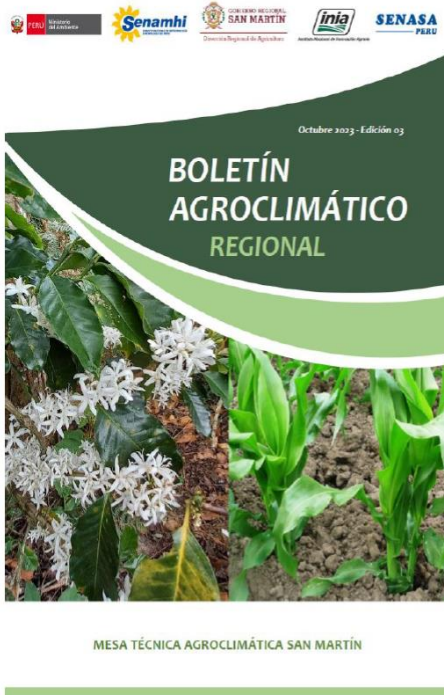


Tailoring: final product needs to be contextualized to local needs



Co-production: the more complex the flow, the harder it is to integrate the users from the beginning → **reduced tailoring and maybe reduced trust**

Key Takeaways



- Mapping the information flow is a prerequisite for designing effective climate services that fit to local realities
- Communities are interested and value information, as can be seen by the parallel systems and WhatsApp channels
- WhatsApp has a key role for delivering information in the official and unofficial flows of all countries



ADAPTATION FUND



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



ORGANIZACIÓN
METEOROLÓGICA
MUNDIAL



Berner Fachhochschule
Haute école spécialisée bernoise
Bern University of Applied Sciences

Thank you!

IMC Innsbruck 2025
International Mountain Conference



Servicio
Meteorológico
Nacional



IDEAM



SERVICIO NACIONAL DE
METEOROLOGÍA E
HIDROLOGÍA



senamhi
SERVICIO NACIONAL DE
METEOROLOGÍA E HIDROLOGÍA



TIEMPO, CLIMA Y AGUA EQUILIBRIO



CIIFEN



MeteoSwiss



Berner Fachhochschule
Haute école spécialisée bernoise
Bern University of Applied Sciences



**MOUNT
RESILIENCE**

MountResilience

*Testing innovative frameworks for climate change adaptation
practices at a regional scale: the Solution Database*

*Stefano Sala, Dario Pezzotti, Anna Giorgi
UNIMONT – University of Milan*



**Co-funded by
the European Union**

Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor CINEA can be held responsible for them.



Swiss partners have received funding from the Swiss State Secretariat for Education, Research and Innovation (SERI).

Horizon Missions – Climate Adaptation

- The project, led by **UNIMONT – University of Milan** is funded under the **Horizon Europe – Miss-2022-Clima-01**
- The project involves **47 partners from 13 European Countries**
- The project will run for **54 months** from **1 September 2023** until **29 February 2028**
- The **total project cost is €15,970,687.50** with a requested **EU Contribution of €15,169,196.25**



MountResilience - Core Objective

Support European regions and communities located in mountainous areas in increasing their climate change adaptation (CCA) capacity and their transition to a climate-resilient society by developing, testing and scaling up multi-level, multidimensional and re- applicable innovative CCA solutions in their regional and local settings.



European area

MountResilience aims to accelerate the climate resilient transformation of mountain areas of 9 EU countries.

 **6** Regional demonstrator sites

 **4** Regional replicator sites



What?

MountResilience / Solutions-database

Solutions database

The MountResilience Solution Database is a space developed within the project site to **collect good practices** for **climate change adaptation**, through useful project and articles, promoting knowledge and suggestion for stakeholders, particularly for mountain areas.



The challenge ●



✕ The opportunity

The tool



In the design phase, the tool was composed to provide material to the replicator and demonstrator regions in **co-design and decision-making phases**.

Actual database composition: 465 solutions

170

EU projects

295

scientific papers

10

Fields of interest
(e.g. Tourism, Natural Hazards,
Forest Management)

55

Keywords

This screenshot shows the search filter section. It includes a "Search" text box, a "Field of interest" dropdown menu with the text "Choose some options", a "Year" range selector with "1990" and "2025" buttons and a slider, an "Advanced options" link, and an "Apply" button.

You can participate by suggesting material to add to the solution database, using the website contact information.



Displaying 1 - 10 of 470 **CSF**

The entry for "BIO4RES - Forest biomass and fire prevention: an opportunity for rural resilience" features a fire image, a "PROJECT" tag, a "2024" date, and keywords like "Waste vegetation reuse, Forest management, Energy management, Selective timbering, Forest conservation and 5 more." It includes a "Read more" button.

The entry for "USE4FOREST - Strategy for the prevention of fires in the Sudoe through the improvement of forest spaces" features a fire image, a "PROJECT" tag, a "2024" date, and keywords like "Planning, Participative framework, Early monitoring system, Forest management, Fire control and 3 more." It includes a "Read more" button.

Some cases – Natural hazards



PROJECT

2023

Flash Flood Prediction and Prevention System

Slovakia, Poland

KEYWORDS

Water management, Water monitoring,
Rainwater collection, Urban greenery,
Monitoring techniques and 5 more.

Challenge analysed

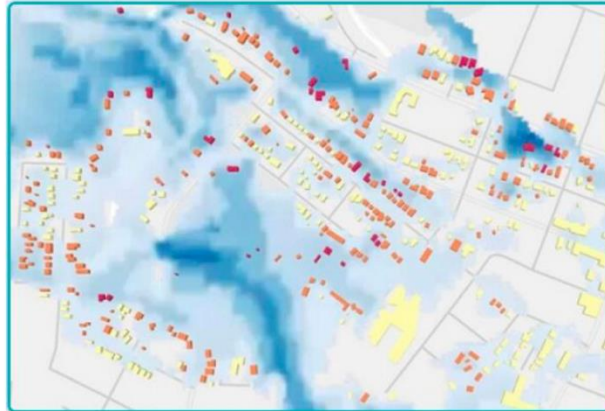
Flash Floods

Solution proposed

Develop and pilot a smart Web GIS-based system

Chosen why...

It developed a smart Web GIS-based system which enables end users to access, analyse and model different hydro-meteorological scenarios for simulating and predicting their impact in particular locations (e.g. storms, flash floods, floodplain restoration). Now a company offer geovisualization and cartographic production of interested areas, also developing and implementing desktop or web and mobile map GIS.



**BUT ALSO NEW
TECHNOLOGIES!**



Thank you for your attention!

To get in touch:

Anna Giorgi

Full Professor – Project Coordinator and Principal Investigator
Università degli Studi di Milano - UNIMONT

Anna.giorgi@unimi.it

Stefano Sala

Project Manager
Università degli Studi di Milano - UNIMONT

Stefano.sala1@unimi.it



**MOUNT
RESILIENCE**



Co-funded by
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Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor CINEA can be held responsible for them.



Swiss partners have received funding from the Swiss State Secretariat for Education, Research and Innovation (SERI).

Adaptation solutions and climate resilience: a comparative analysis across the Andes

*Luis Daniel Llambí, Alejandra Melfo,
Ma. Andreina Salas*

*Adaptation at Altitude – CONDESAN
Universidad de Los Andes - Venezuela*



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Consortio para el Desarrollo Sostenible
de la Ecorregión Andina



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

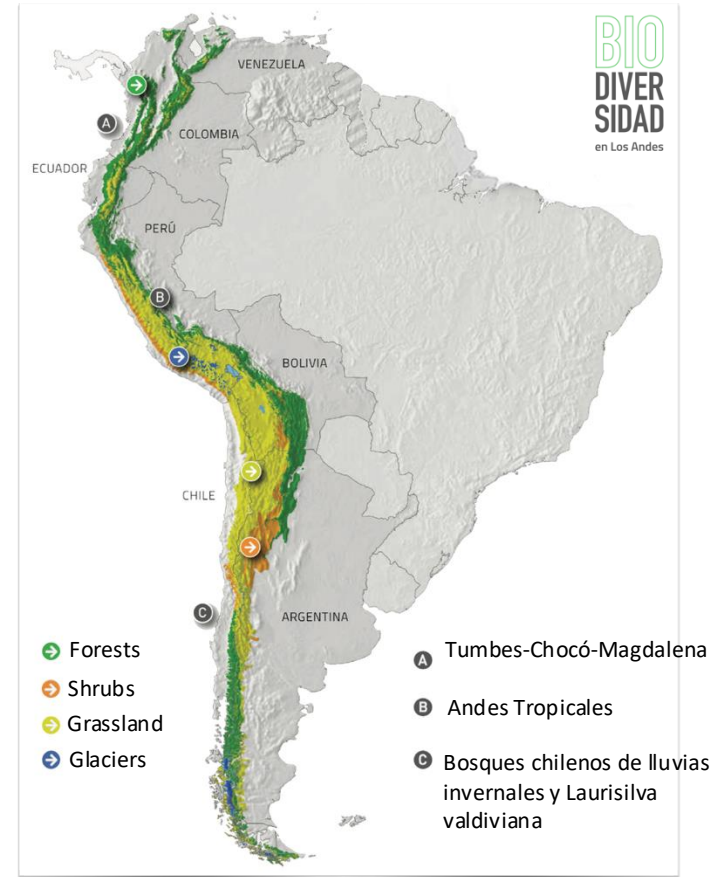
Swiss Agency for Development
and Cooperation SDC



The Andes:

a region with endangered biodiversity

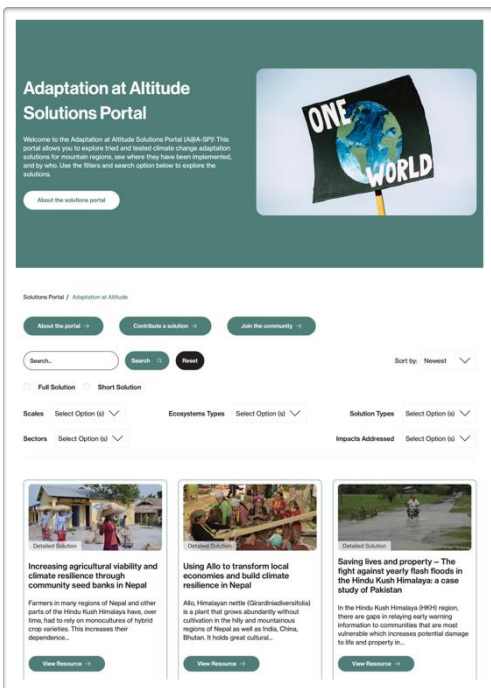
- One of the most biodiverse regions on the planet
- 8500 km latitudinal range, 6000 m of altitudinal range
- Ecosystem services for the whole continent
- Cultural and socio-economic diversity
- High vulnerability to climate change



A@A Solutions Portal

WeAdapt

<https://adaptationataltitude.org/solutionsportal/>



More than 40 adaptation solutions documented in the Andes

Where and how they are implemented, details, results, possibility of replication...



Adaptation Solutions in the Andes

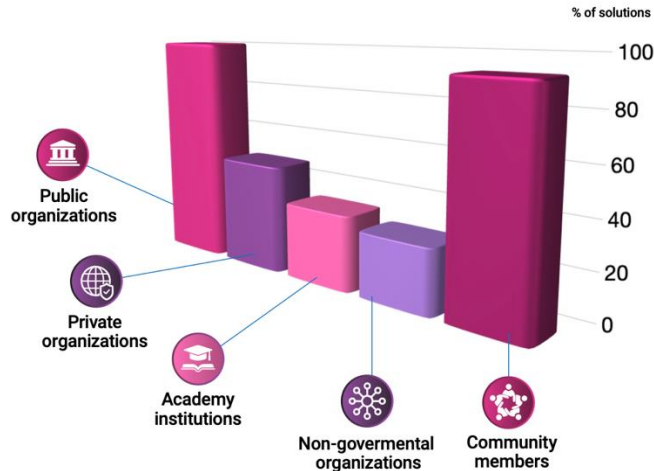


Salas-Bourgoin, 2024

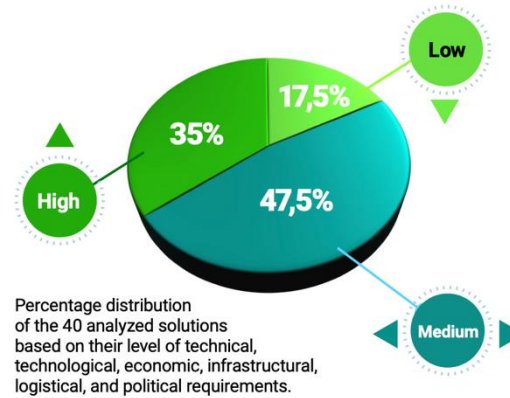


Characteristics

Who Are the Actors?



What is their level of requirements?



- Both community actors and public bodies are involved
- They require few specialists, and technologies/infrastructure that community members can handle or build

Characteristics

What Themes Do They Address?

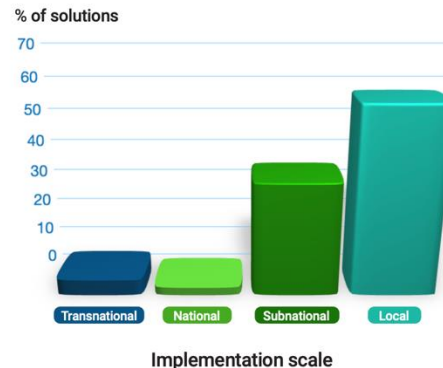


- All address three or more themes
- Focused on **water resources and...**
- Training/strengthening community livelihood strategies

Local work scale:

- Addressing several communities/localities at the same time
- Integrating community and governmental actors

At What Scale Are They Implemented?





Strengths



Robust

They benefit communities whether or not climate change occurs



Multi-benefit

They generate more than one benefit, such as improving quality of life and local economies while protecting biodiversity



Flexible and adaptable

They adjust to changes and the specific needs of each territory



Culture-centered

They revive ancestral practices, strengthening cultural identity and promoting traditional knowledge of natural resource management



Multi-actor

They involve communities, public officials, and the private sector working together



Knowledge-sharing

Results are shared and disseminated, not only at a technical level but also among communities



Gaps



Monitoring limitations

Reliable and continuous data is needed to assess the real impact of solutions



Short-term planning

Many initiatives are only supported in the short term, which does not ensure their permanence or follow-up



Weak connection with the land

Insufficient consideration of how land-use regulations influence the implementation of solutions



Greater emphasis on gender than generational inclusion

It is crucial to integrate the knowledge of elders while also involving youth



Low attention to risk management

One of the most important consequences of climate change is the increase in disaster risks

Thank you!



Assessing climate adaptation solutions in the Andes

Perspectives from beneficiary communities on effectiveness and sustainability

What remains after projects end?

Aguilera-Rodríguez J. J., Allen S., Llambi L. D., Salas-Bourgoin M.
A., Rodríguez-Molano L. M., & Sulbarán E.

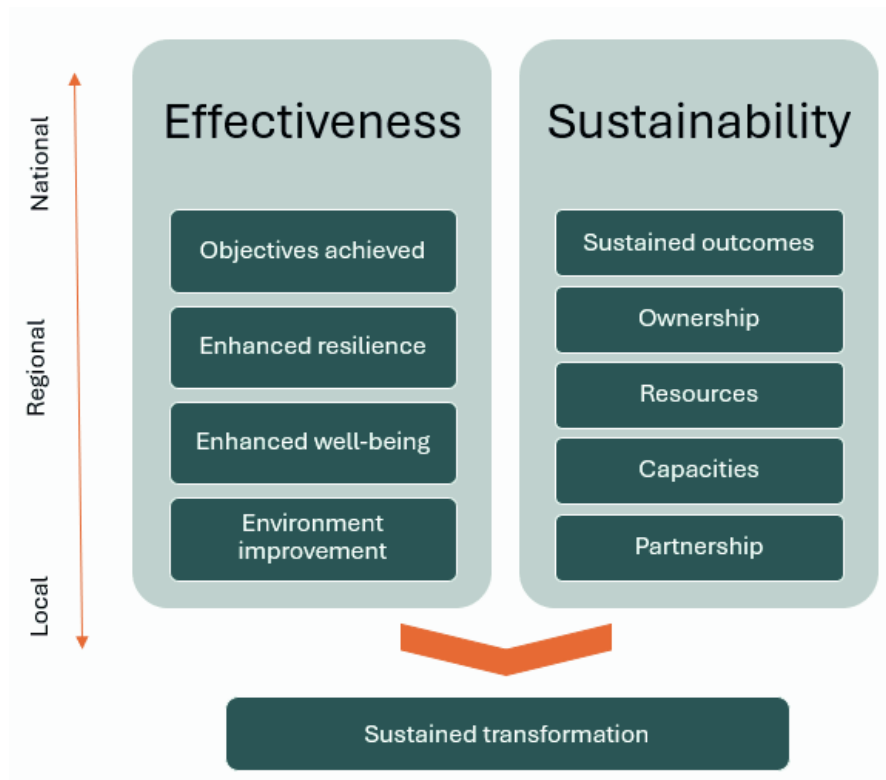


Fig. 1 - Conceptual framework to assess the effectiveness and sustainability of adaptation solutions.

Objectives

- To evaluate the effectiveness and sustainability of climate adaptation solutions **as perceived by beneficiary communities**.
- Determine the impacts the solutions have had and are continuing to have at the ground level
- To identify the factors that have enabled or hindered both their effectiveness and sustainability.

Five projects assessed in Chile, Colombia, Ecuador, Peru and Argentina through the conduction of **semi-structured interviews** (and field visits)

Lessons from Ecuador & Argentina



Ecuador: Greenhouses in Cuyuja & Papallacta

Implementation period: 2020 - 2022

Scale: Local

Problem:

- Open-field farming impossible (frosts, rains)
- Expansion of grazing threatening buffer zones of Cayambe-Coca & Antisana NPs
- Low-productivity cattle; food security highly vulnerable

CCA Solution:

- 42 family-scale high-quality greenhouses (160 m², drip irrigation)
- Complemented by: rural credit funds, water supply systems, sustainable cattle practices
- AICCA project implemented by MAATE and CONDESAN



4 remote interviews

Effectiveness



- Empowered women, improved governance relations
- Significantly improved incomes
- Diversified production and diets
- Reduced grazing pressure the buffer zones of the Cayambe-Coca and Antisana national parks

Sustainability



- Most greenhouses still active and in good conditions 3 years after the project's closure
- Local GADs and national actors are now financing the installation of new structures
- Integrated into parish schools and planning

10 interviews and field visit

Effectiveness



- 84+ ha of high andean wetlands restored; 20,000 ha under improved grazing practices
- Reliable water access for ~180 Kolla families
- Women's participation strengthened

Sustainability



- Communities maintain works & pumps
- Knowledge embedded via Indigenous governance and training manuals

Argentina: Wetland management and conservation in the Pozuelos Biosphere Reserve

Problem:

- High Andean wetlands degraded by mining, water diversion, overgrazing
- Rural Indigenous families vulnerable to drought & water scarcity

CCA Solution:

- Community-led wetland restoration (replanting, water retention trough check dams, wetland management and restoration plan)
- Sustainable grazing (rotational use, closures, llamas instead of sheep, solar water pumps)
- Implemented by Wetlands International and Fundación Humedales in collaboration with provincial and local authorities, and local indigenous organizations



Lessons learnt



Social dimensions matter as much as technical ones

- Trust-building with local institutions created enabling environments
- Women's empowerment boosted adoption and sustainability



Ownership drives sustainability

- Communities sustain practices that improve daily life (food, water, income)
- Institutional embedding (e.g., parish plans in Ecuador, indigenous governance in Argentina) secures continuity



Integration across scales is critical

- Local livelihood benefits directly linked to ecosystem services (páramos, wetlands)
- Adaptation gains are more durable when connected to broader governance and conservation agendas



Adaptation legacies provide as much evidence as project outputs

- What communities maintain after closure reveals true effectiveness
- Conventional evaluations risk overestimating sustainability if they don't track post-project continuity

Challenges



Dependence on political cycles and budgets generates risk of discontinuity



Technical and operational gaps in remote mountain communities



Demographic shifts could reduce long-term capacity for collective actions



External pressures (e.g. mining activities in Argentina)





Thank You



IMC Innsbruck 2025
International Mountain Conference

Mountains ADAPT: Learnings from piloting a small grants scheme in mountain communities

Innsbruck, IMC, 17 September 2025

The Mountains ADAPT project

Mountains ADAPT is an Austrian funded project implemented by UNEP in partnership with the Albertine Rift Conservation Society (ARCOS), EAC Secretariat and Sustainable Caucasus.

The project aims at :

- Promoting innovative mountain adaptation action in the S Caucasus and E Africa
- Providing needs based and easily accessible financial support to catalyze concrete solutions at local scales
- Establishing small grant schemes that aim at answering the needs of local communities

Small grants stock-take analysis

Objectives of the stock-take :

- Identifying existing programs that channel small grants or payments to communities
- Documenting key attributes and parameters of the various existing grants schemes, including analysis of practical operations
- Analyzing small grant transfer mechanisms and country specifics in the South Caucasus region
- Identifying potential shortcomings and main issues to consider when developing a Mountains ADAPT small grant funding scheme



30 programs identified, 14 programs analyzed and 18 projects screened

Small grants stock-take results

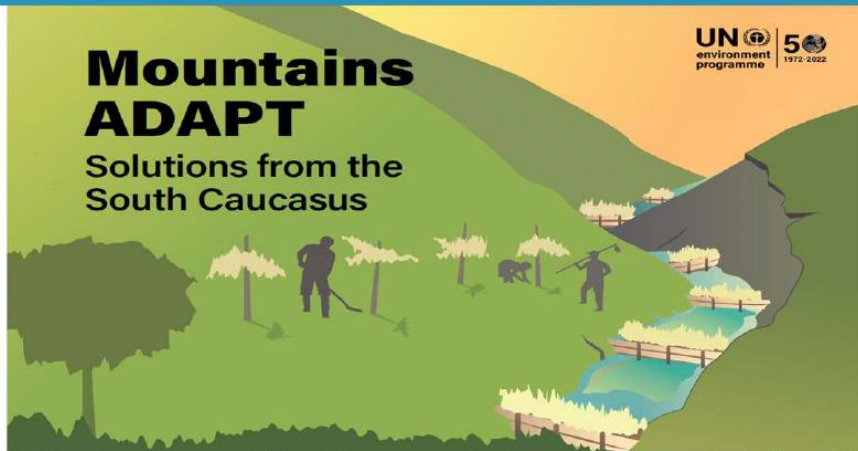
30 programs identified, 14 programs analyzed and 18 projects screened

5 key recommendations

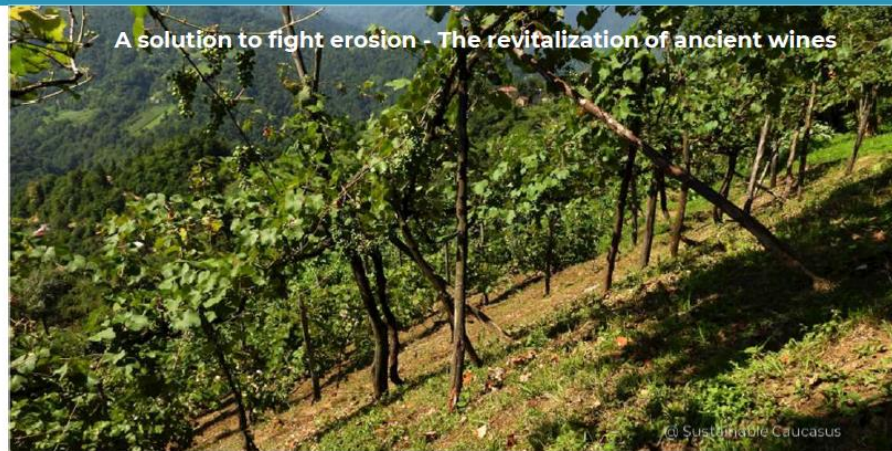
1. A project for communities by communities
2. Simplify document requirements, and application processes to allow communities to apply – use of national languages
3. Use technology to ease monitoring processes
4. Find the most cost-efficient routes to disburse grants
5. Involve national and local governments



Adaptation in Mountain regions – Tested Solutions



A solution to fight mudslide risk – tree nursery, ecosystem restoration, and check dams against soil loss



A solution to fight erosion - The revitalization of ancient wines



A solution to fight drought and land degradation – Community-based measures to improve irrigation and agricultural output

@ Sustainable Caucasus

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Learnings from Pilot Phase (2023-25)

- Strong need for community-based accessible climate finance for mountain adaptation solutions
- High awareness of (projected) climate change impacts
- Existing barriers with international funding
- Challenges in funds transfer and due diligence
- Variety of community- and nature-based solutions planned and implemented
- Acknowledge different human and technical capacities of CBOs and practical implications – provide training and assistance
- Use visual material for reporting and monitoring
- Consider Sustainability of interventions beyond small grant funding – buy in of authorities required



Mr. Piranto engaged the participants in smart agriculture training, as they followed attentively



Growing fruit trees to diversify incomes and address nutrition

Funded by

 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology



Thank you !

Ansgar.fellendorf@un.org

Mariam.Devidze@un.org

Essey.daniel@un.org

Matthias.Jurek@un.org