

Enhancing climate resilience of the most vulnerable?
Making climate services more inclusive



SFIAR Award Ceremony | Moritz Flubacher(MeteoSwiss)
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Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Confederación Suiza

Agencia Suiza para el Desarrollo
y la Cooperación COSUDE



GFCS
GLOBAL FRAMEWORK FOR
CLIMATE SERVICES



PERÚ Ministerio
del Ambiente




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Confédération suisse
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Swiss Confederation

Federal Department of Home Affairs FDHA
Federal Office of Meteorology and Climatology MeteoSwiss

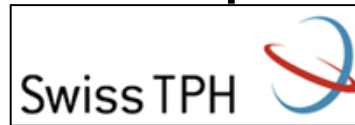
Project Set-up

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Confédération suisse
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Confederaziun svizra

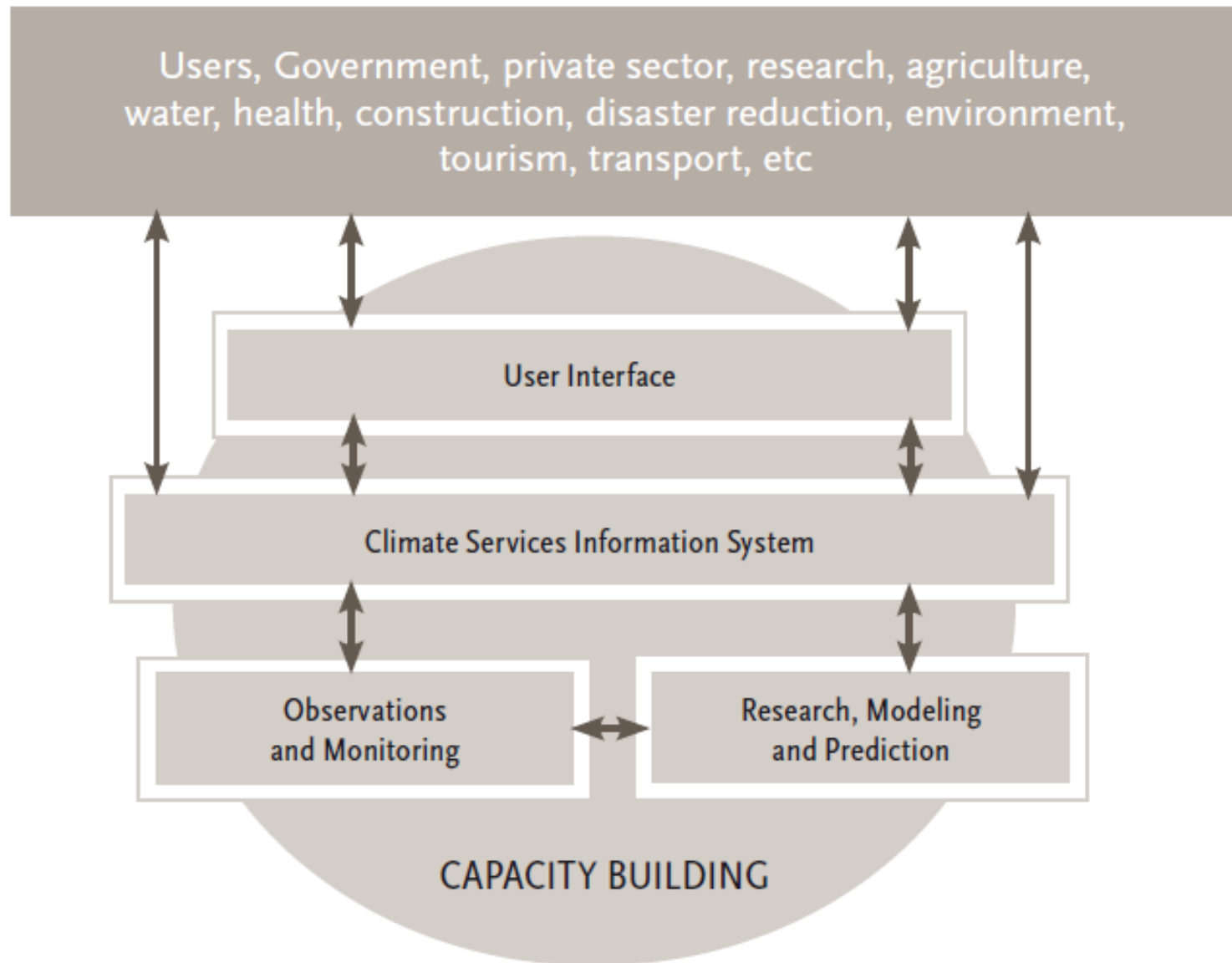
Direktion für Entwicklung
und Zusammenarbeit DEZA



MeteoSwiss



Main objectives



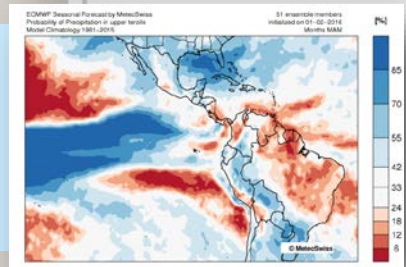
Main objectives

Users, Government, private sector, research, agriculture, water, health, construction, disaster reduction, environment, tourism, transport, etc

(WP3) Build an **interface** between users and providers & evaluation of socio-economic **impacts**



(WP1) User-tailored **Climate Services** for the **agricultural sector** in the Andean region



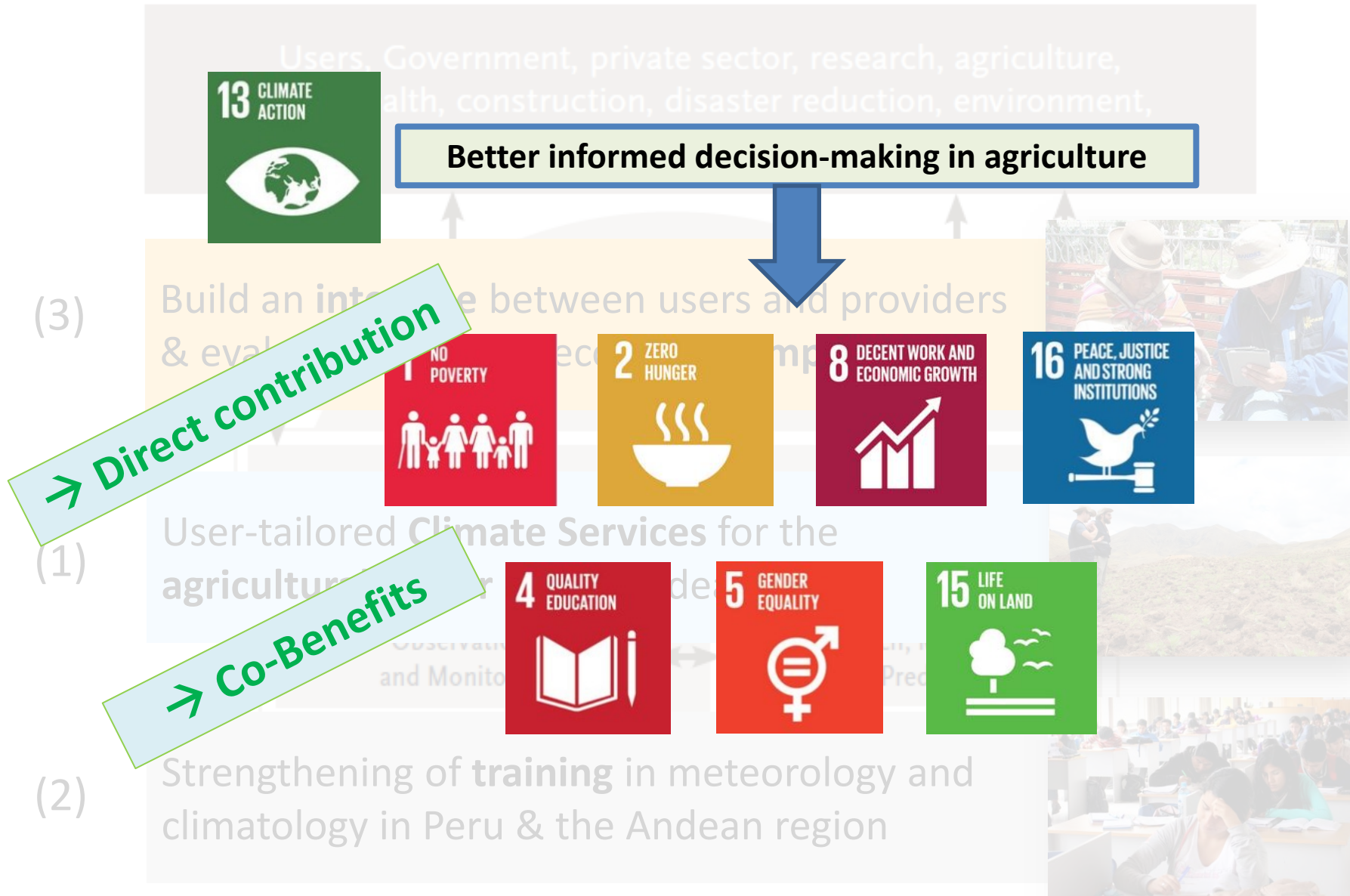
(WP2) Strengthening of **training** in meteorology and climatology in Peru & the Andean region



Observations
and Monitoring

Research, Modeling
and Prediction

Main objectives





Smallholders

-

BIG ACTORS?



Relevance



500 Mio. small-scale farms worldwide
350'000 small-scale farms in pilot regions



80% of consumed food in developing countries
70% of consumed food in Peru



Most important income source
Job source (>500'000 farmers in pilot regions)



- i) More food
- ii) Resource preservation & climate protection
- iii) Maintaining jobs



Relevance



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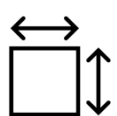



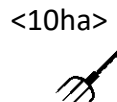


Most important income source
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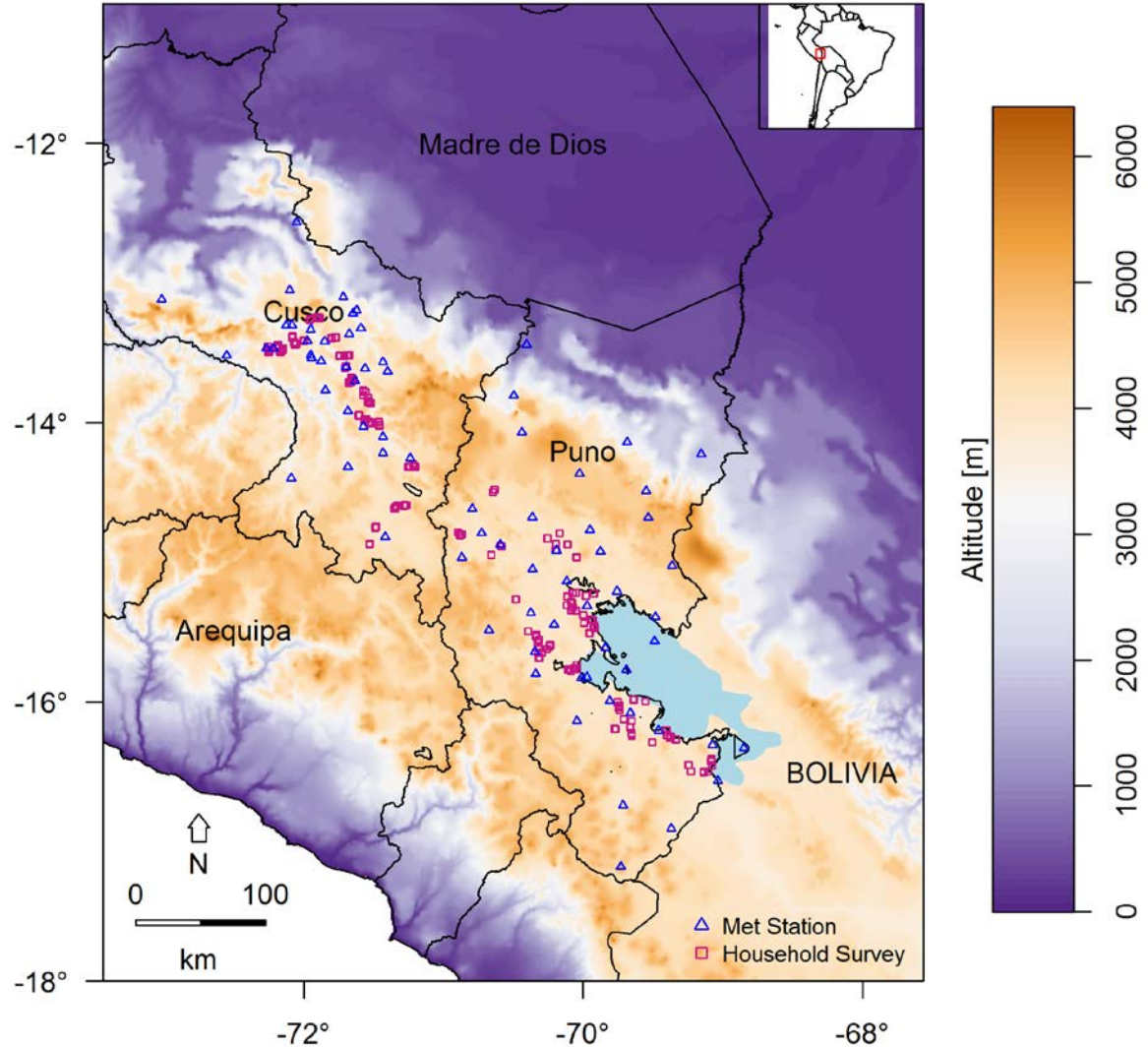


- i) More food
- ii) Resource preservation and climate protection
- iii) Maintaining jobs

→ Climate-Smart Agriculture

Location and target population

	Puno	Cusco
	72'000 km ²	72'100 km ²
	1.4 Mio.	1.3 Mio.
	43% EAP	37% EAP
	215'170	182'058
	<10ha> 85%	90%
	42	33
	726	402





Main results



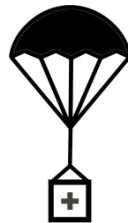
Adverse weather events

High exposure to frost, dry spells & hail
Better situated households are less sensitive



Adaptive Capacity (ex-ante)

Preventive measures are available
High potential for improved information



Coping Capacity (ex-post)

Low ability to recover from crop failures

- x Limited access to formal financing mechanism or external aid
- ✓ External work, selling of assets & reduction of expenditure on food

Key challenges for systematic change



Confidence



Comprehension



Legitimacy



Access



Forecast quality and infrastructure



System



Key challenges for systematic change



Confidence



Comprehension



Legitimacy



Access



Forecast quality and infrastructure



System

Intervention calls for participatory and community-based approach

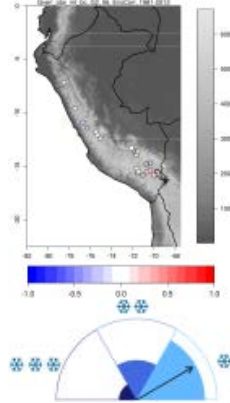
Investment in data quality, infrastructure and capacity development is key

Holistic perspective is required



Impact logic

PROVIDER



USER



... enhance climate resilience of farmers

Climandes

Servicios Climáticos para el Desarrollo



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