

Solutions fondées sur la nature appliquées aux risques gravitaires

Possibilités, limites, enjeux

Mardi 19 novembre 2024

St Bonnet en Champsaur



Aspects socio-écologiques des solutions fondées sur la nature



Ignacio Palomo



Pôle Alpin Risques Naturels

INDURA
Auvergne-Rhône-Alpes

Co- Organisation

Dans le cadre de la dynamique partenariale RESAlpes

Avec le soutien de



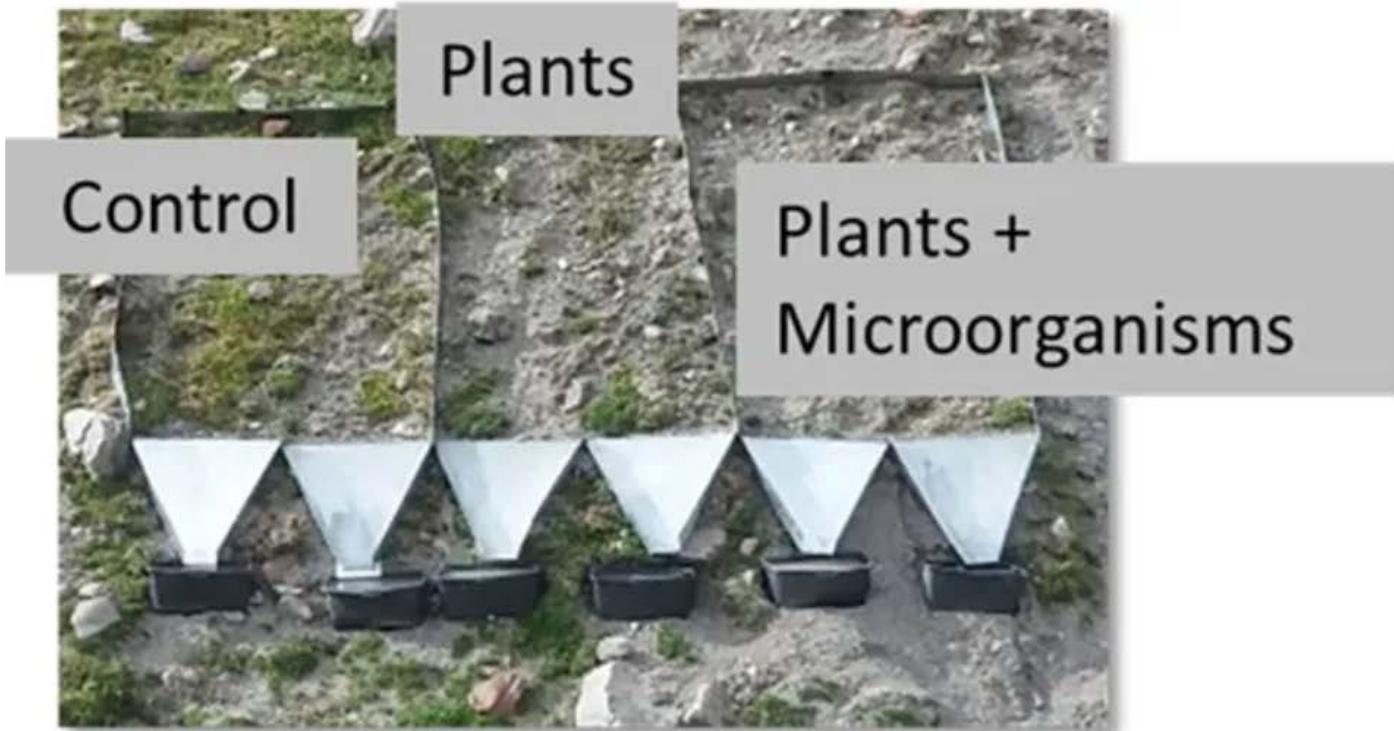


Introduction

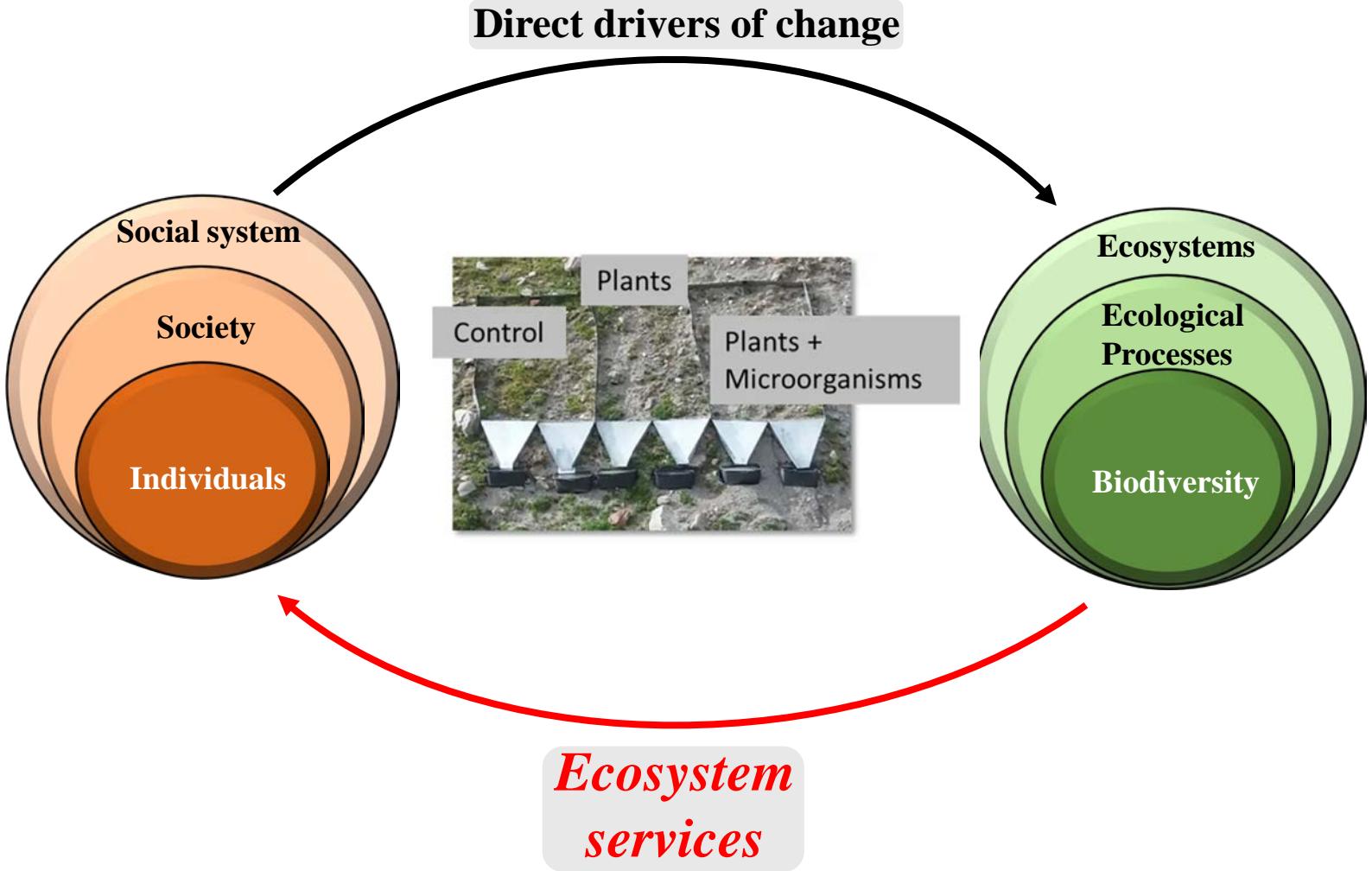
Actions to protect, sustainably manage, and restore natural or modified ecosystems to simultaneously provide human well-being and biodiversity benefits



Introduction



Introduction



Projet PORTAL



MAKE OUR
PLANET
GREAT AGAIN



A research platform to showcase
climate initiatives in the Alps

OUR PROJECT ATLAS OF INITIATIVES THE TEAM EVENTS RESULTS CONTACT



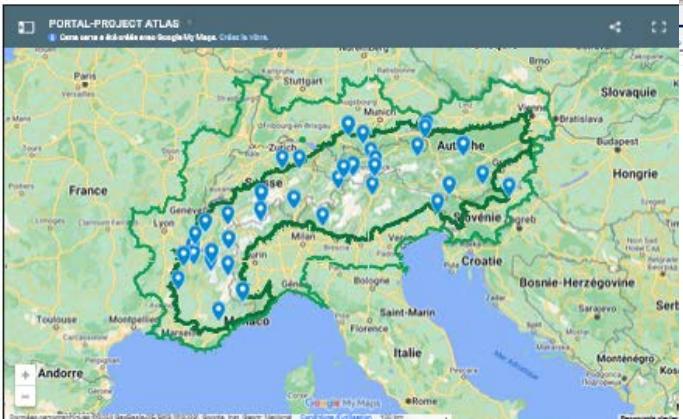
The PORTAL project

Mountains are dramatically affected by climate change and bold adaptation responses are needed.

To tackle this challenge, a transformation at personal, political and practical levels should be incorporated in the different human-nature interactions.

PORTAL project collects nature-based initiatives in a diversity of social-ecological settings from the Alps that could serve as an inspiration to learn new pathways of adaptation

[Read more >](#)



Contribute your initiative!

If you are willing to contribute a nature-based adaptation initiative in the Alps, please fill in this questionnaire

[GO TO QUESTIONNAIRE](#)



METIS - Mobiliser à l'Echelle Territoriale par l'Innovation et la Synergie
Adapting forests to climate change by modifying their composition

[Read more](#)



Econnect project
Reconnect the natural area in the Alps to improve the gene flow and enable species to adapt to climate change

[Read more](#)



Wetlands in Vanoise National Park
Actions to protect wetlands from the different threat

[Read more](#)



AT3 Mountain Forestry
Mountain forestry and public roads in the region Piemont

[Read more](#)



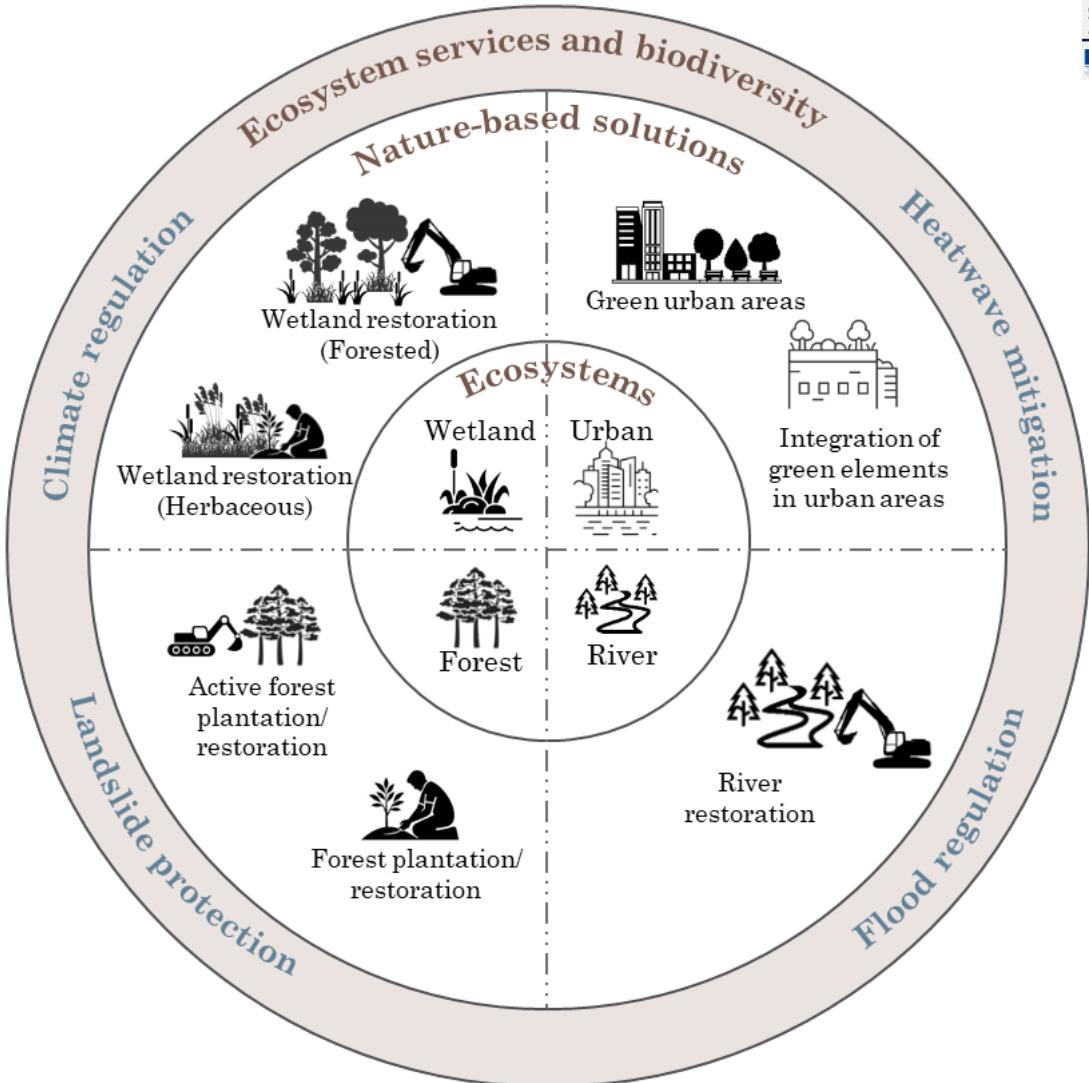
Impuls4Action
Alpine soils protection in times of Climate Change

[Read more](#)



Allgäuer Moorallianz
Moor landscape conservation in the Alps region

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Before (2016)

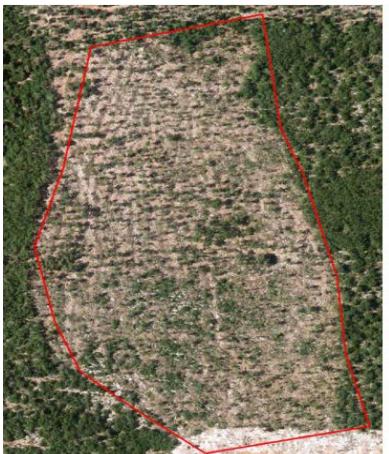


1 km

After (2019)

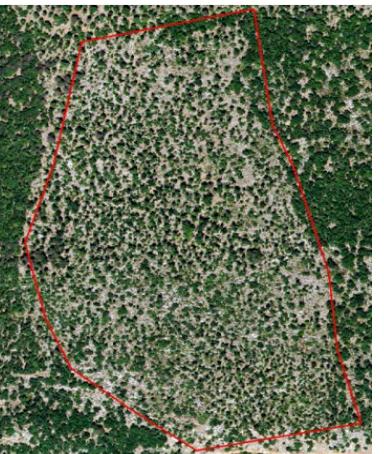


Before (2013)

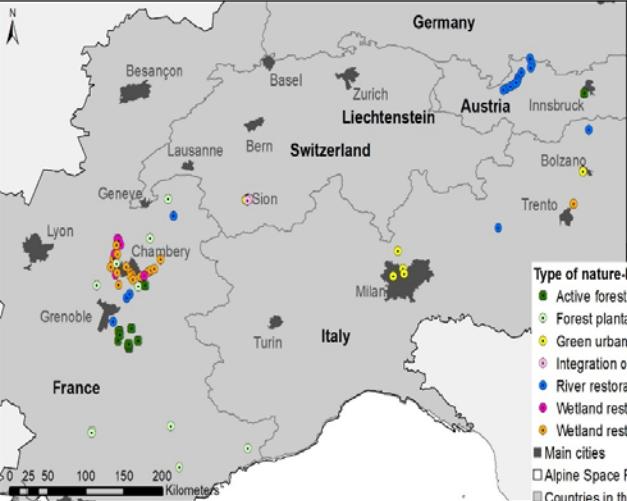


300 m

After (2019)



100 m



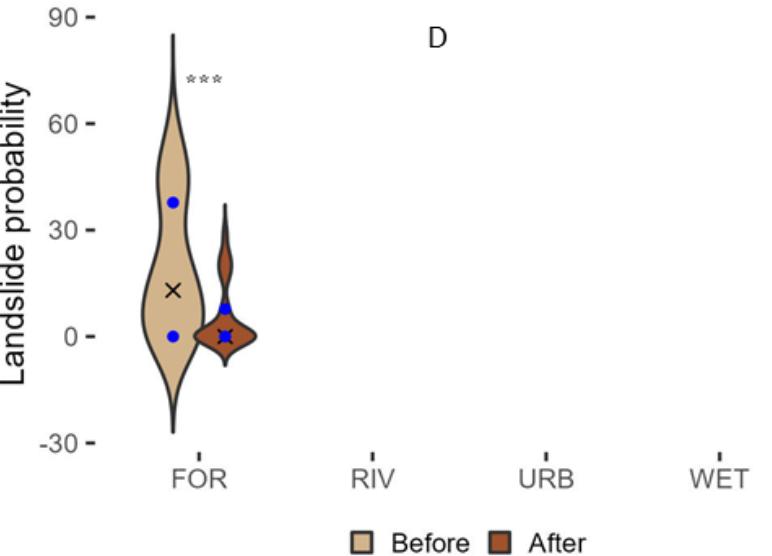
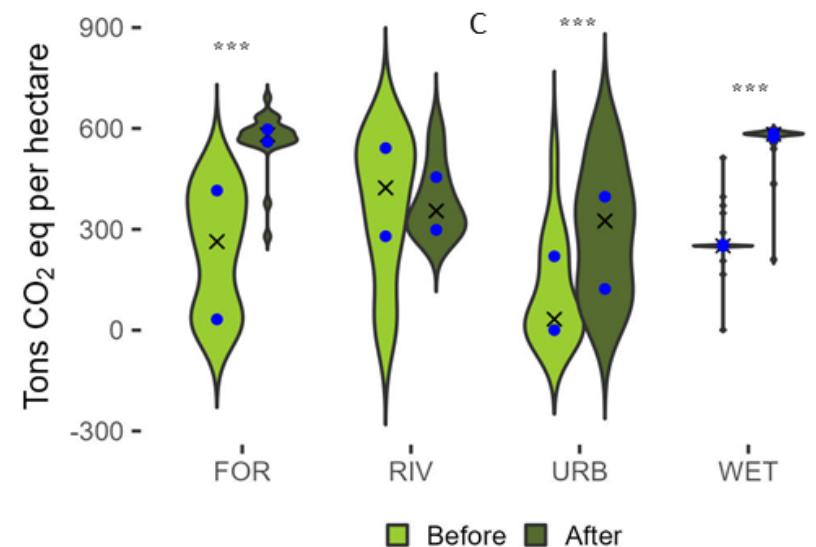
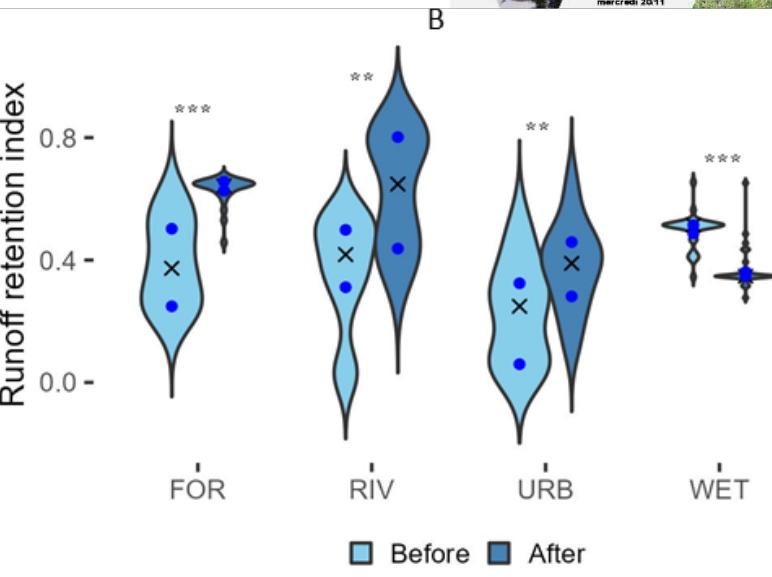
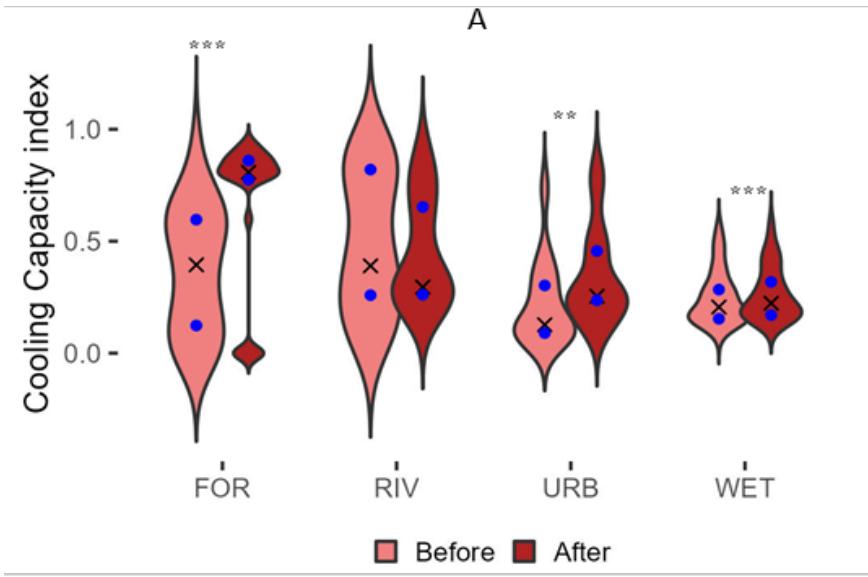
Before (2013)



After (2016)



Nature-based Solutions economic benefits are three times higher than costs



Nature-based Solutions not strategically located according to climate change risks

Solutions Fondées sur la Nature appliquées aux risques gravitaires Possibilités, limites, enjeux



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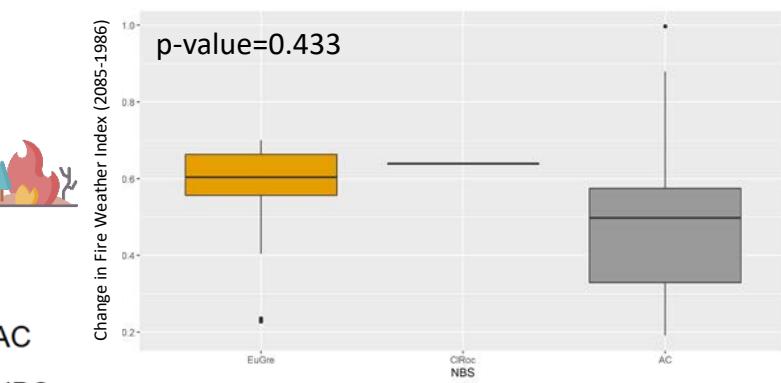
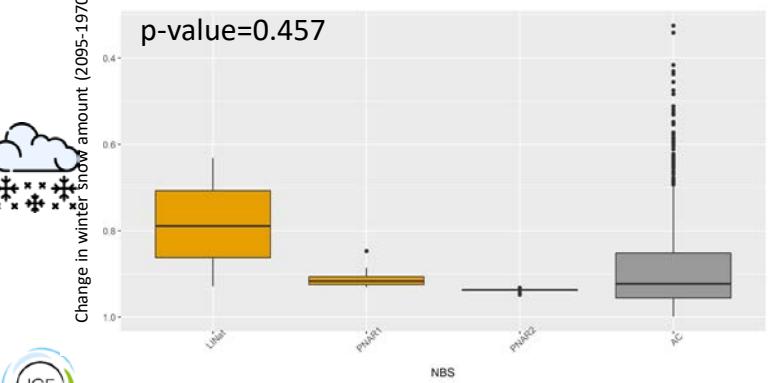
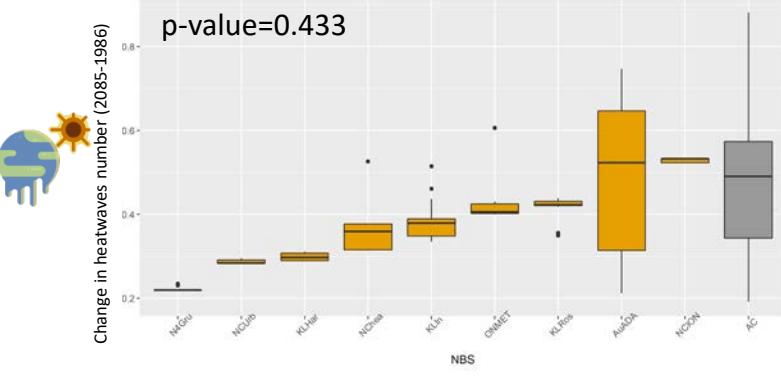
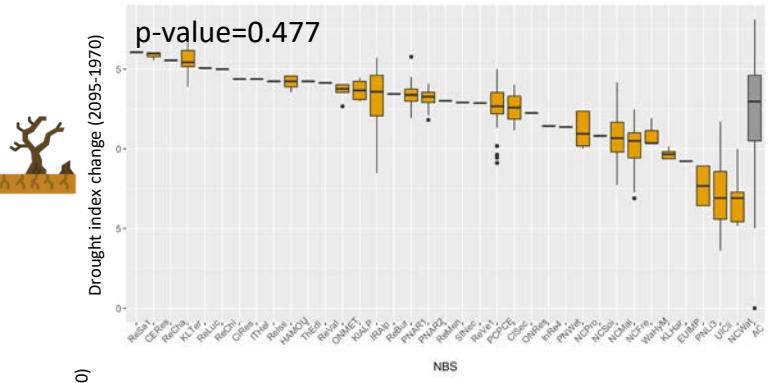
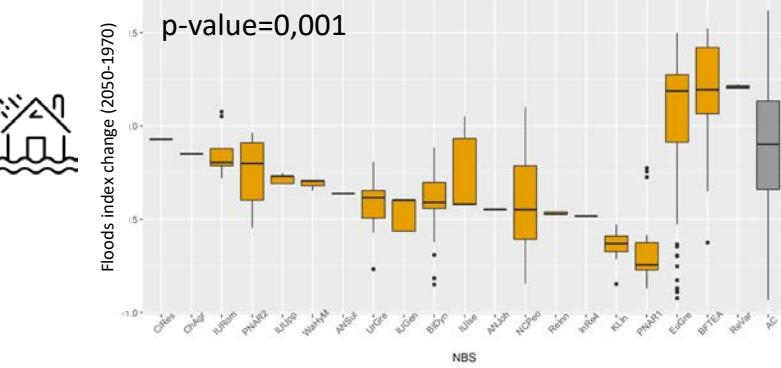
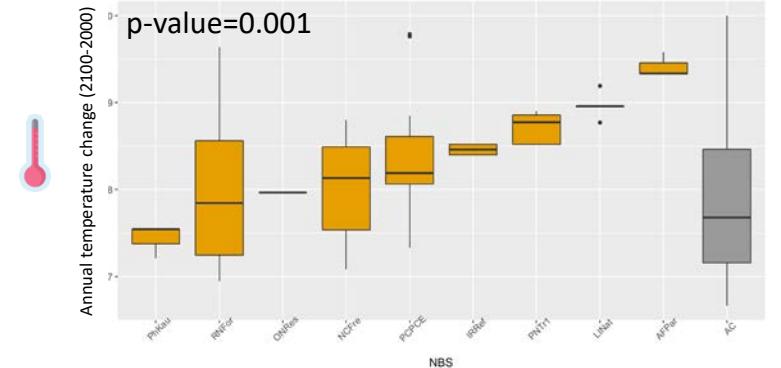
9h30-16h30

St Bonnet en Champsaur

Salle polyvalente

Prolongé par une visite technique mardi 20

novembre 2024



AC
NBS

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Solutions Fondées sur la Nature
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Mardi 19 novembre 2024

9h30-16h30
St Bonnet en Champsaur
Salle polyvalente

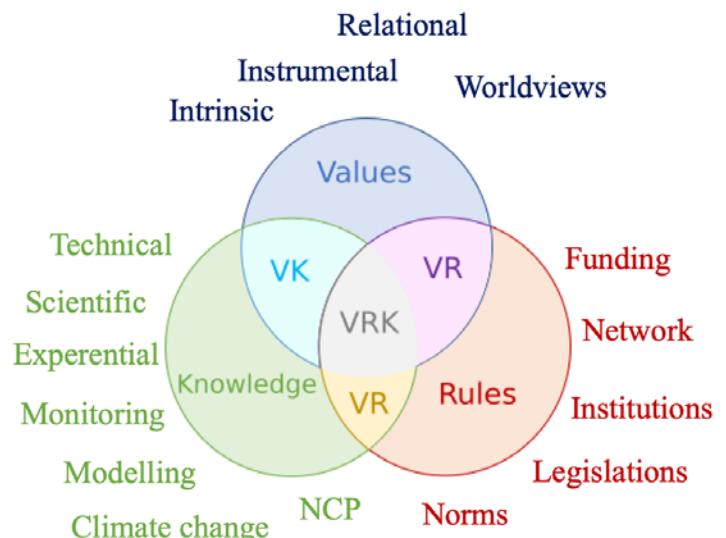
Prolongé par une
visite technique
mercredi 20/11

Présentation de l'atelier
Opérations portées par les RÉSEAUX



Nature-based Solutions (NbS)

Decision-making context



Transformative characteristics

Restructuring



- Nature-people interactions
- Changes in ecosystem

Path-shifting



Dimension of the management practices

Innovative



Newness dimension of the practices

System-wide



Spatial scale

Multi-scale



- Dimension of co-construction
- Dimension of the network

Persistent

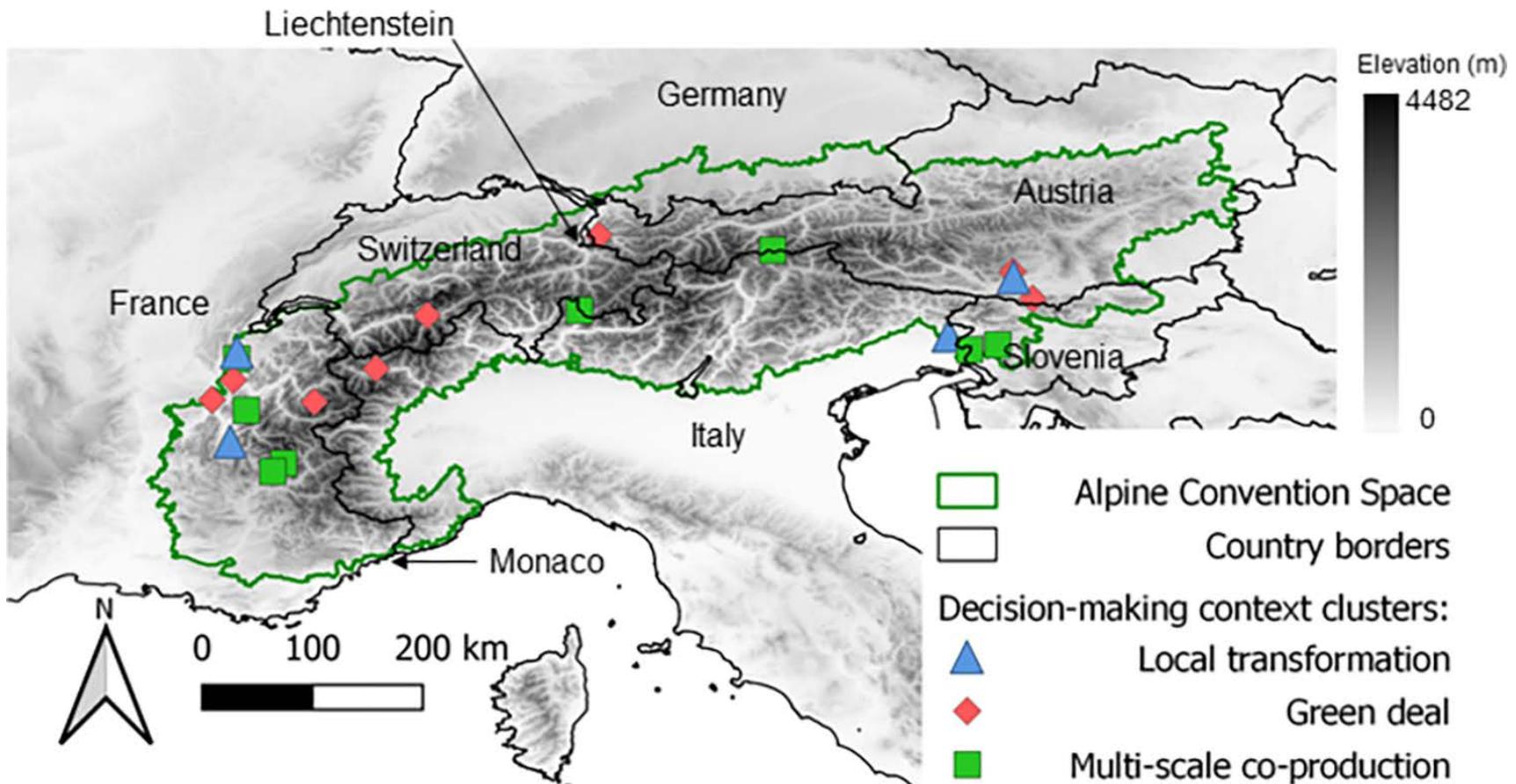


Type of future-oriented approach

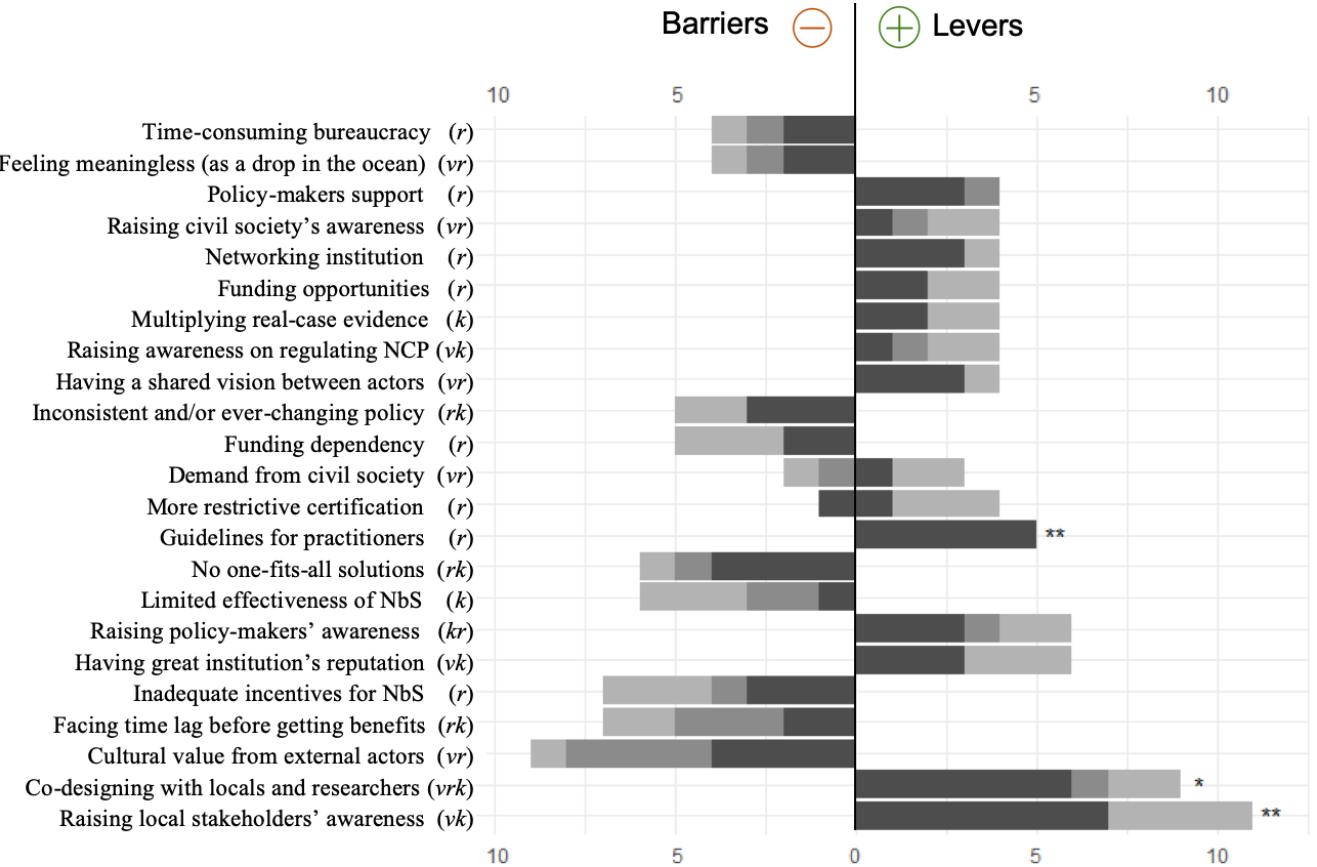
Amplification

Elements suggested by interviewees to replicate similar NbS, coding with the VRK framework

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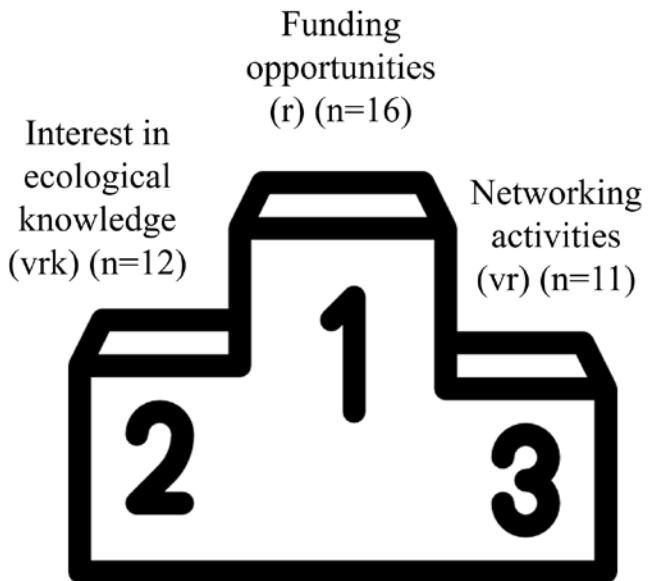
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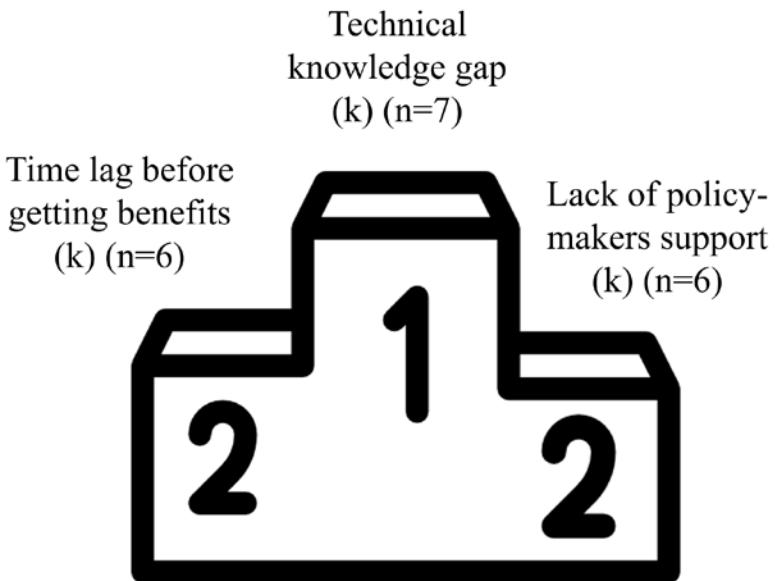
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Results - Main levers and barriers

Levers

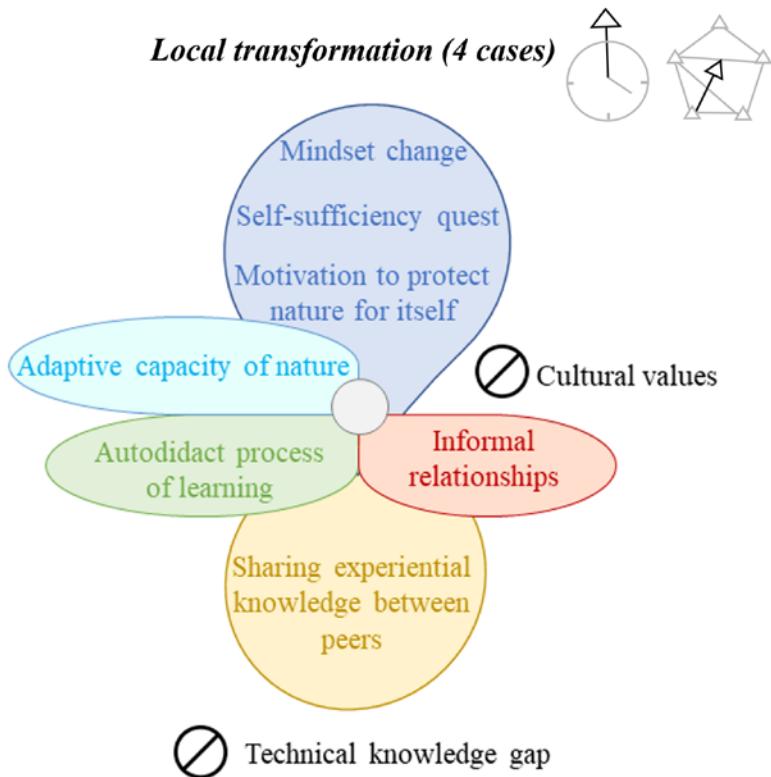


Barriers

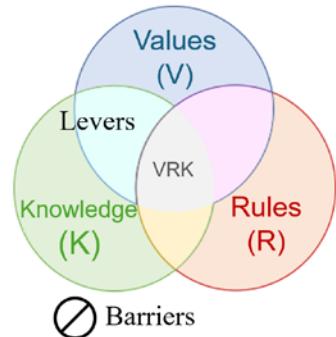


k: knowledge; r: rules; v: valeurs; vrk: interactions between the three elements;
 n: number of cases (**total: 20**)

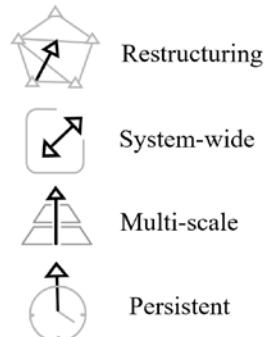
Results - Types of decision-making context



VRK framework



Transformative characteristics

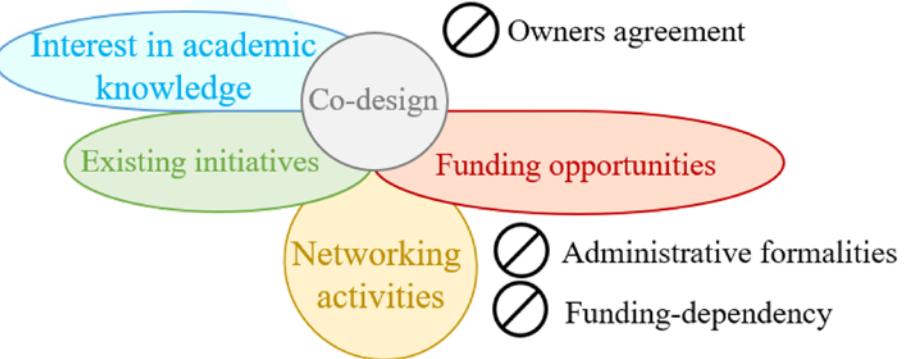


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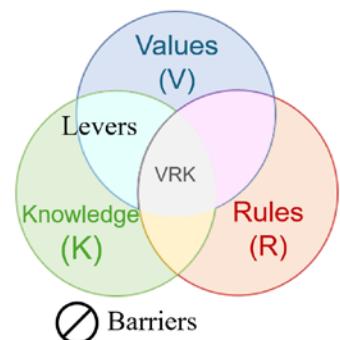


Results - Types of decision-making context

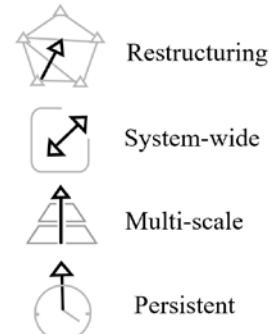
Multi-scale co-construction (8 cases)



VRK framework

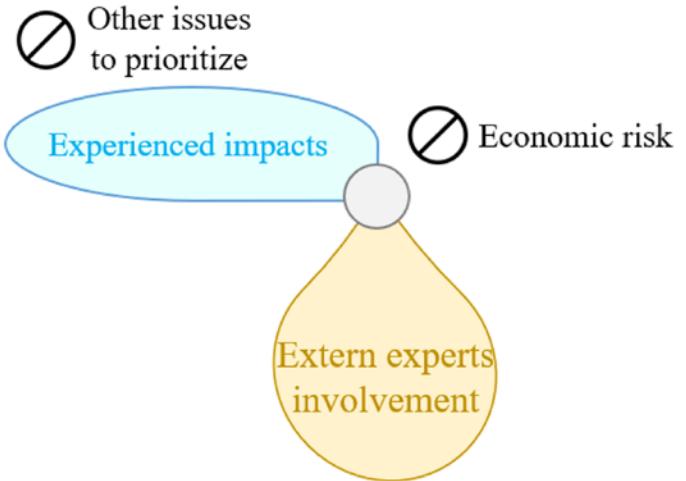


Transformative characteristics

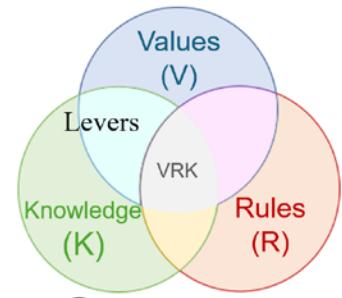


Results - Types of decision-making context

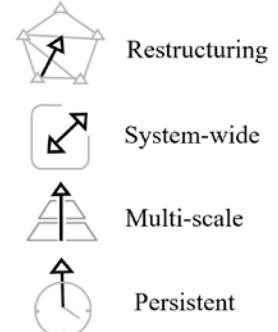
Green Deal (8 cases)



VRK framework



Transformative characteristics



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Results - Types of decision-making context



Local transformation (4 cases)



Multi-scale co-construction (8 cases)



Green Deal (8 cases)



Inspire

Foster

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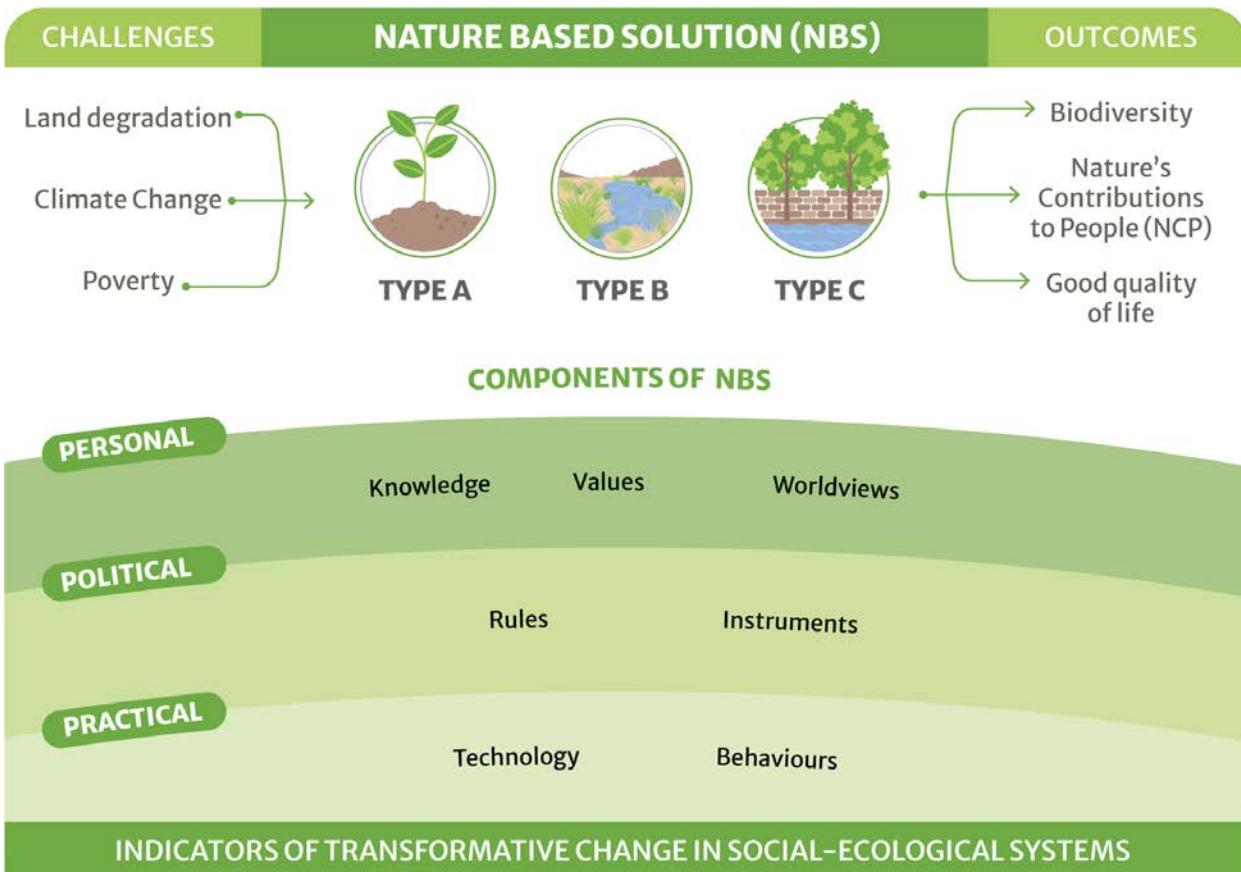
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9h30-16h30

St Bonnet en Champsaur
Salle polyvalente

Projet par une
visite technique
mercredi 2011



A conceptual framework to analyse transformations with NbS



Nature-based solutions are delivering transformative change in mountains globally



VALUES

Monistic: (47%)

Intrinsic (24%), *Instrumental* (23%)

Pluralistic (53%)

Intrinsic & instrumental (44%)

ENGAGEMENT

Stakeholder engagement (99%)

Participation (90%)

Capacity building (77%)

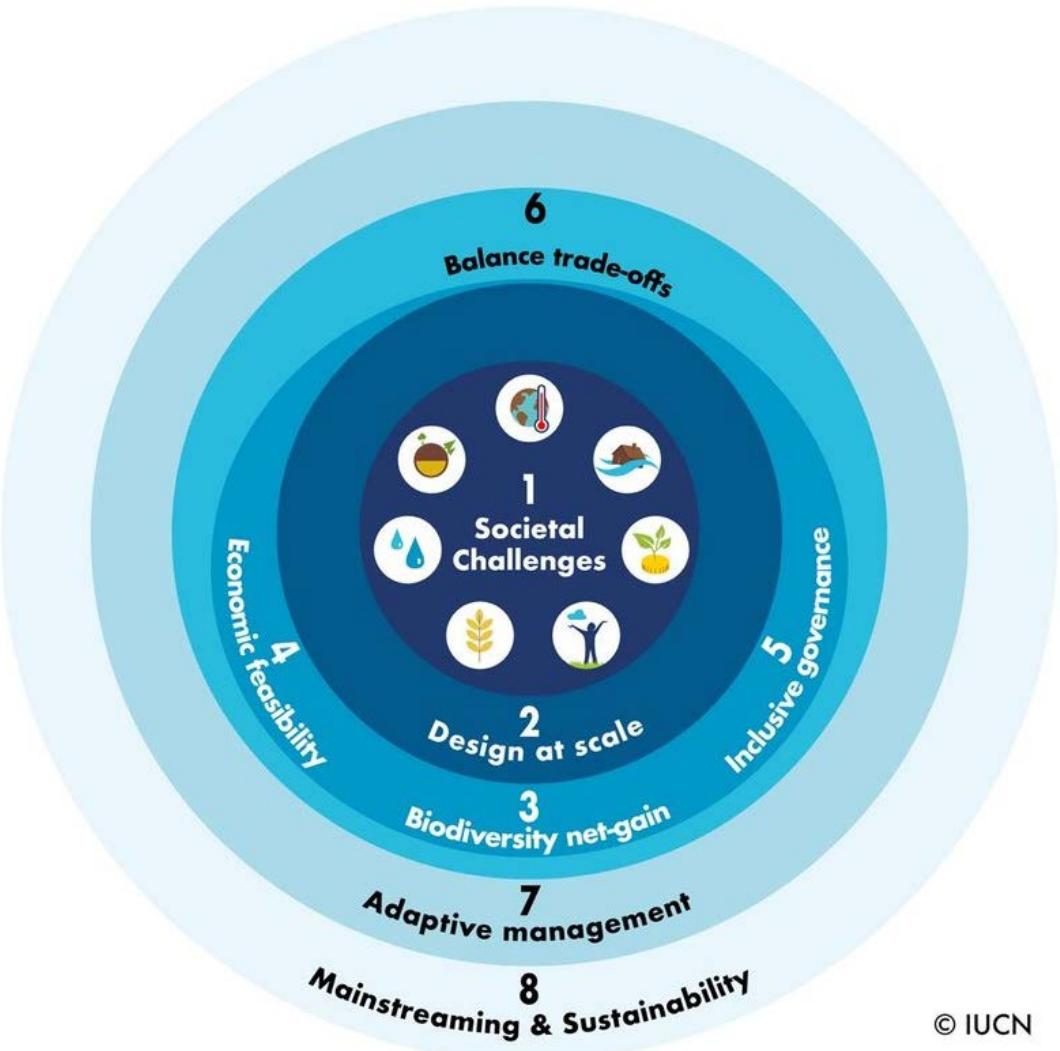
CONSERVATION

Management practices (87%)

Restoration (50%)

Ecosystems monitoring (43%)

IUCN Global Standard for Nature-based Solutions



© IUCN



Messages à retenir



- Nature-based solutions are social-based solutions.
- From a socio-economic perspective, NbS in the Alps are 3 times cheaper than the value of the ecosystem services they provide.
- Nature-based solutions in the Alps are not located in the places of highest climate change risk.
- Different barriers and levers need to be considered for the scaling of nature-based solutions and to adapt them to different contexts.