



Web of Life





Search

Università della Svizzera italiana

Measuring, Implementing and Communicating Sustainability in Mountain Tourism

Building a meta-network for comparable assessment and communication of sustainability









MonViso Institute – evolving campus is located in Ostana, Occitan Alps at the border of Italy and France

Valle Po, origin of the river Po, at the foot of Monte Viso (3842m asl)







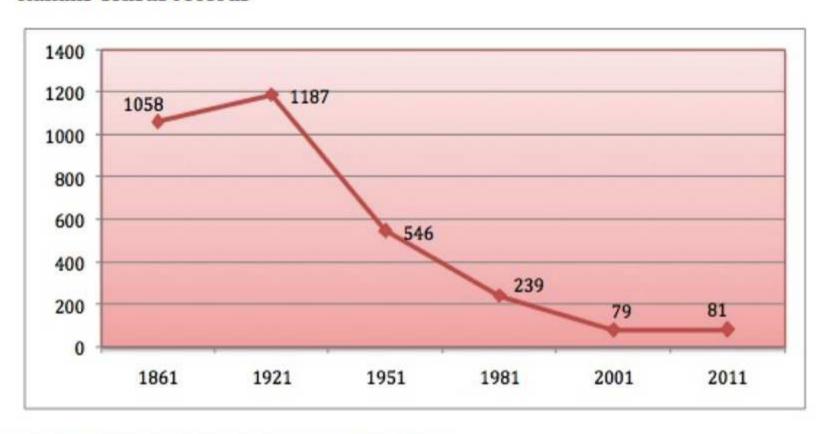
OSTANA-OUSTANO



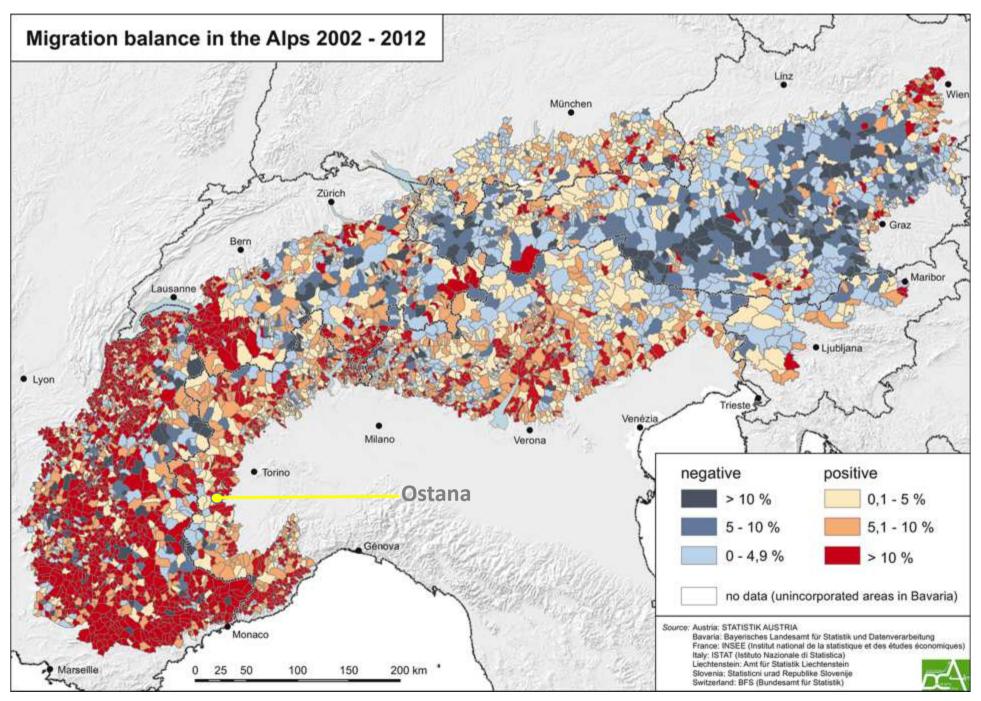


Crisis and system breakdown

Graphic 1. demographic changes of Ostana municipality from 1861 to 2011 based on Italians Census records



graphic by Maria Anna Bertolino on Istat data



Löffler, R. et al. (2014). New Highlanders in Traditional Outmigration Areas in the Alps, JAR, 102-3



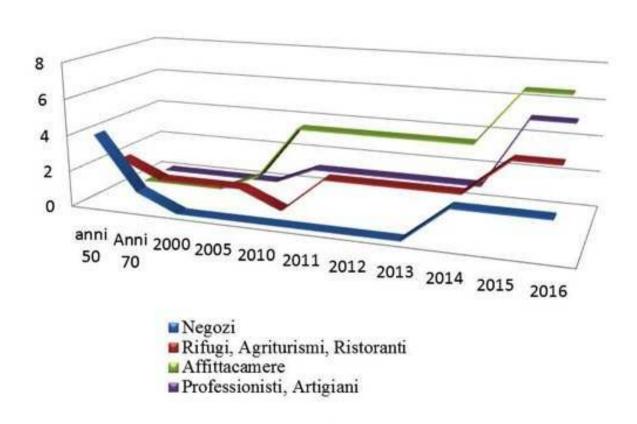
Abandoned areas need to regain a resilient economy

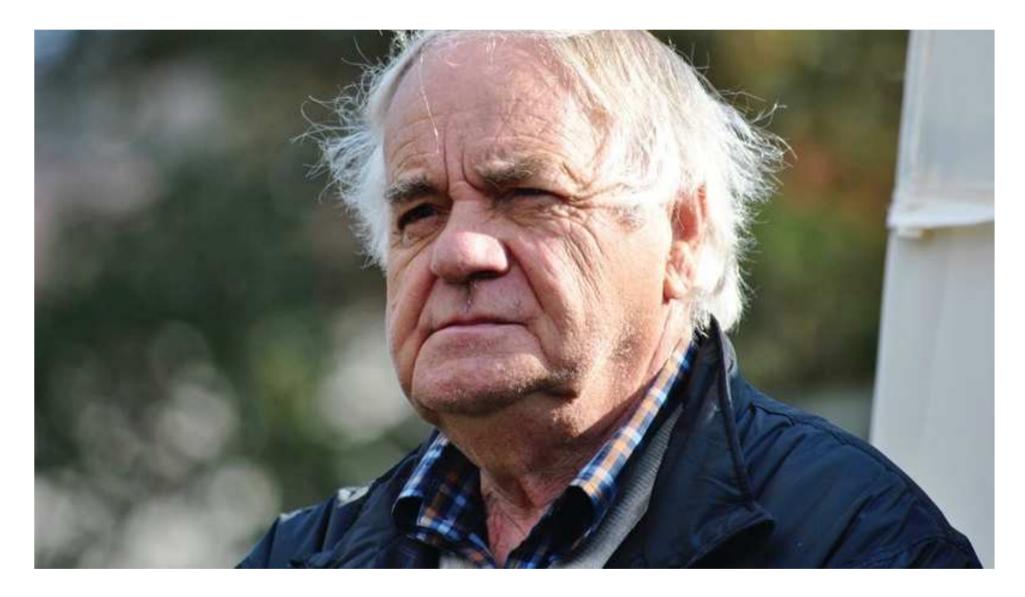
Smaller, more diverse, flexible, adaptive > circular



Strengthened re-organization after crisis

La rinascita di Ostana in cifre: le attività produttive.



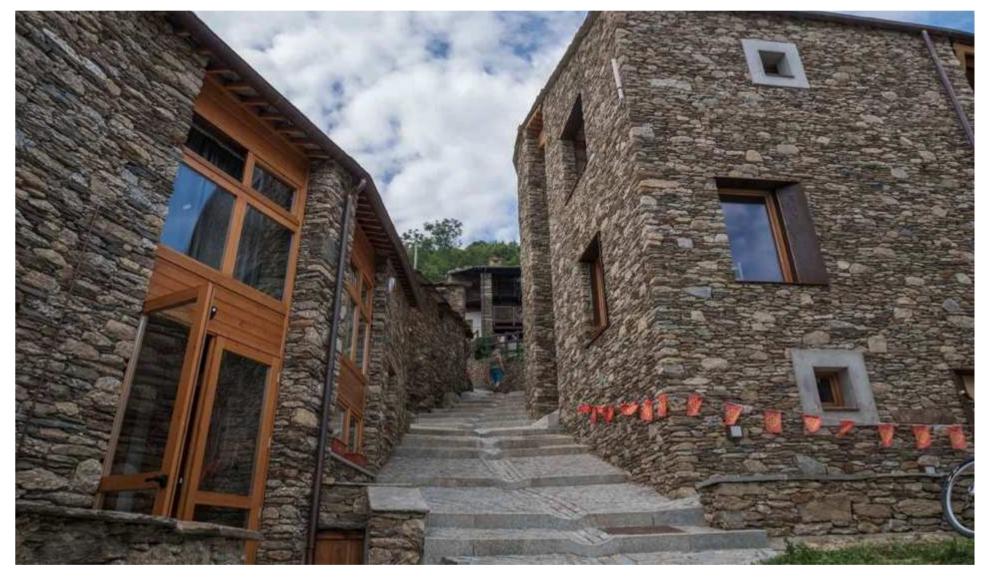


Systems Transformation

Pioneering spirit – intrinsic motivation – systems thinking – wide knowledge base



Rebuilding a community – the social hub and meeting point Rifugio Galaberna for guests and the local community



Rebuilding a community – poly-functional building a cultural center for local people, visitors, entrepreneurs, co-workers and group activities



Systemic design of networked hospitality and accommodation

Albergo Diffuso – many small (private) rooms connec to a flexible accommodation network







Albergo Diffuso



http://www.alberghidiffusi.it



Vision & Goals





Vision & Goals





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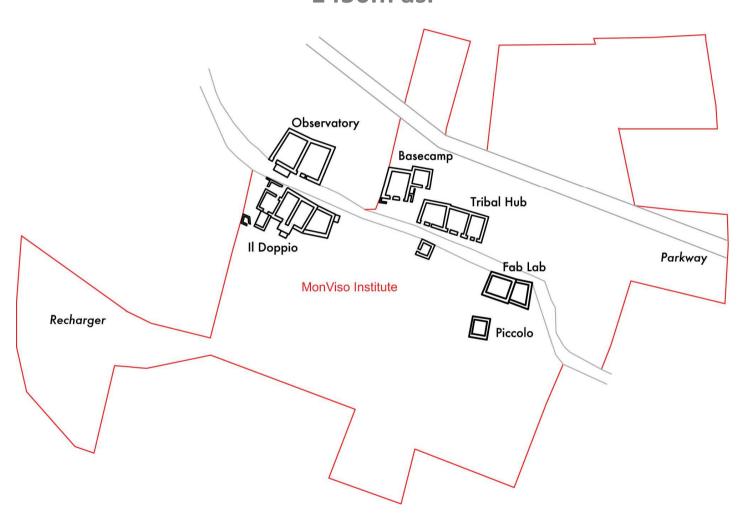








The evolving campus of the MonViso Institute 1450m asl





Transdisciplinary real-world laboratory research at the MonViso Institute

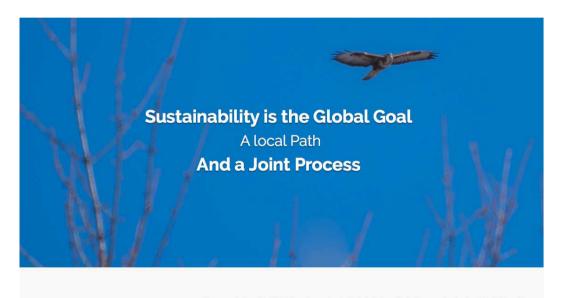


Resilience of mountain social-ecological systems...Alpine Urbanism...Smart cities...Energy transition...Forestry and wooden constructions...Cradle-to-cradle design...Responsible tourism...Environmental change...Circular Economy...Ecosystem Services...



Communicating and Learning about Sustainability

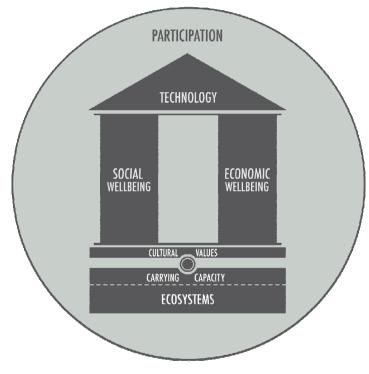
The SustainaBuild six-dimensional sustainability concept



FINDING A BALANCE

Live Happily, Respect Nature

The concept of sustainability is hugely complex, but let's try to keep it simple: we understand sustainability as living a good life without hurting others; even more so, living a happy life while contributing net positive to society and the environment. We have the responsibility to inform ourselves, to engage, to listen, to cooperate. The UN Global Sustainable Development Goals (SDG) are a universal directive, and we need to break them down to the local, the collective, the personal level. At the MonViso Institute, sustainability is an experience, and adventure, a real-time act of compromises and balancing decision making - under uncertainty. Sustainability is fascinating - living healthy on a low environmental footprint, preserving the beauty and genius of nature, respecting local cultural values as much as oneself, finding design solutions inspired by nature, meeting pals alike, making an income with an honest mind. While we engage in science of and for sustainability, we showcase practical solutions on the MVI campus that everyone can explore, critically question, experience, and share.





MVI Systemic Design Principles



Be systemic

Everything is connected - think and design systemic to take more effective action in tackling wicked sustainability challenges.



Think big & act direct

Our challenges are globally connected but require direct, local action. Walk the talk.



Find Leverage

Action is urgently needed - being efficient is good but not enough. Go for what is most effective, having most leverage.



Use low tech & high brain

Use low tech, simplified, passive and mechanic solutions where possible, for less embodied energy and easy maintenance.



Learn from Nature

Nature offers genius design solutions with billions of years in evolution, functioning in closed systems, where no waste exists.



Respect local knowledge

Often, local people know their terrain and can tell us solutions that work, if we listen carefully.



Re-fuse, Re-use, Re-cycle

Less is more. Let's rethink consumption and work towards zero emissions and zero waste.



Design with carbon

Products and Services designed to minimize carbon flows over entire life cycles may well be the most effective tools to slow down climate change.



Transfer knowledge and build capacity

Share trusted knowledge and valuable experience to involve, stimulate and engage others to support the sustainability transition



Be transparent

Facts are facts, there is no alternative truth to the current state of knowledge. Show your data and carefully interpret it.



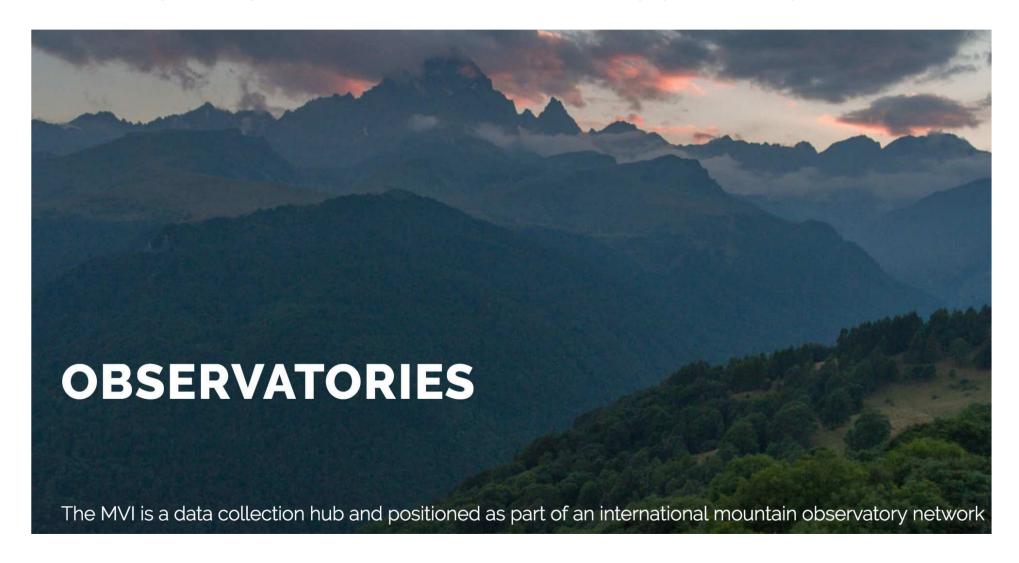
Have fun do good

Follow your instinct and enjoy contributing to a net-positive impact.



Data collection – climate, social-ecological development, tourism

Top-down quantitative data collection & bottom-up qualitative experiences





Experimenting with new mountain life styles – *Alpine Urbanism*





Local mobility experiment with USI Lugano

Real-world learning of a Master student course in Ostana













Demonstrating the vision before changing the existing

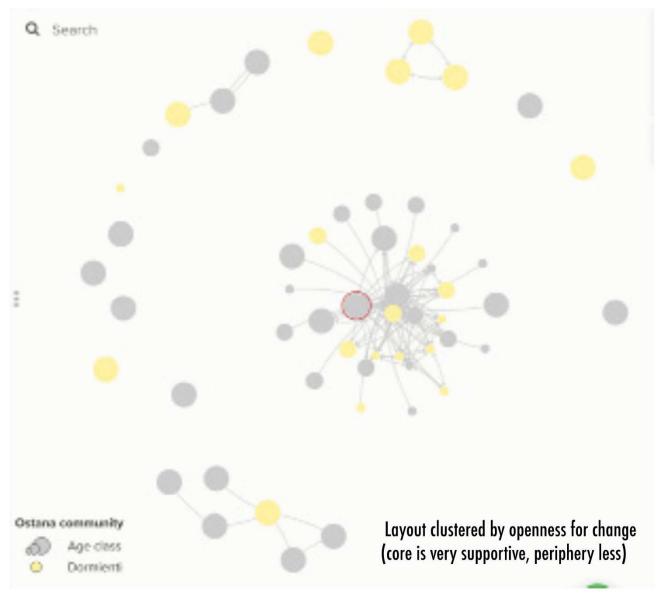
Gain mutual respect and TD support, long-time – involving MSc students





Social complexity - Master student research

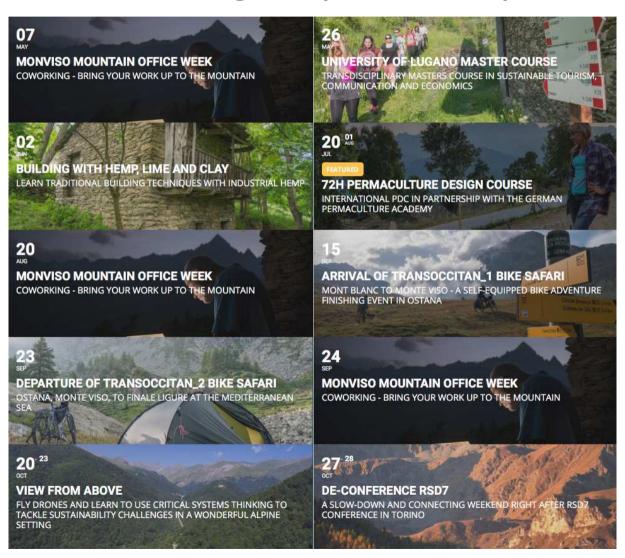
Mapping the innovative potential of the Ostana community network (N=44)





Rich course program 2018 merging international scope and diversity

with local knowledge and place-based experiences





Tradition meets Innovation

Challenges? Technical Engineering Design – Social Innovation







Traditional systemic design lessons

Keep the existing where possible





Cradle-to-cradle design solutions





Systemic Design – Evolution of Tradition





Visual bottoms of stone plates vs. grey coloured PV cells

Modern demand (overhang, insulation,...) requires new flexibility





Transformation Journal

Transparency and Participation



























Promoting the nature- and sports tourism potential in the region

Connecting traditional Occitan culture with international inspiration





POWDER MOUNTAIN



THEGUARDIAN.COM

Welcome to Powder Mountain – a utopian club for the millennial elite

When these young entrepreneurs bought a remote ski resort in Utah, they dreamed of an exclusive, socially conscious community. Is this...















Promoting the nature- and sports tourism potential in the region

Connecting traditional Occitan culture with international inspiration









Re-growing industrial hemp as an incubator for designing a circular economy

Building insulation fabric medicine cosmetics food paper soil improvement tourism engineering (fibres, bio-plastics)



Hemp fibres from the MVI field in Ostana

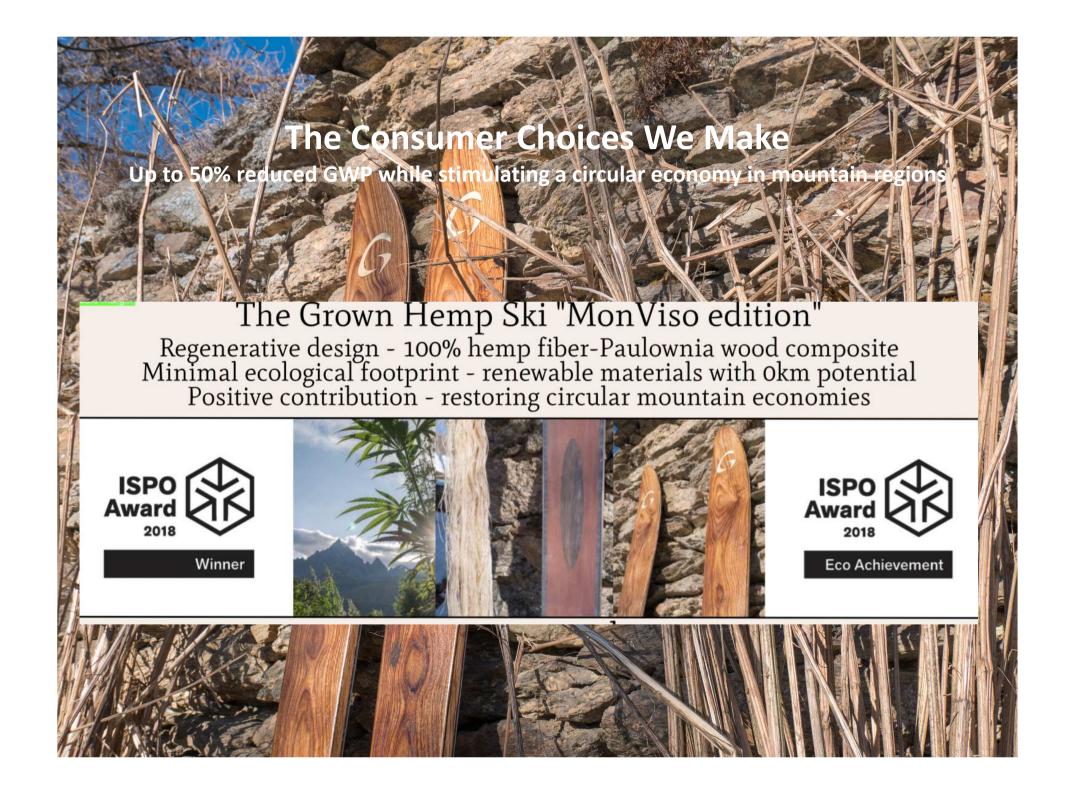
Merging tradition with sustainable innovation





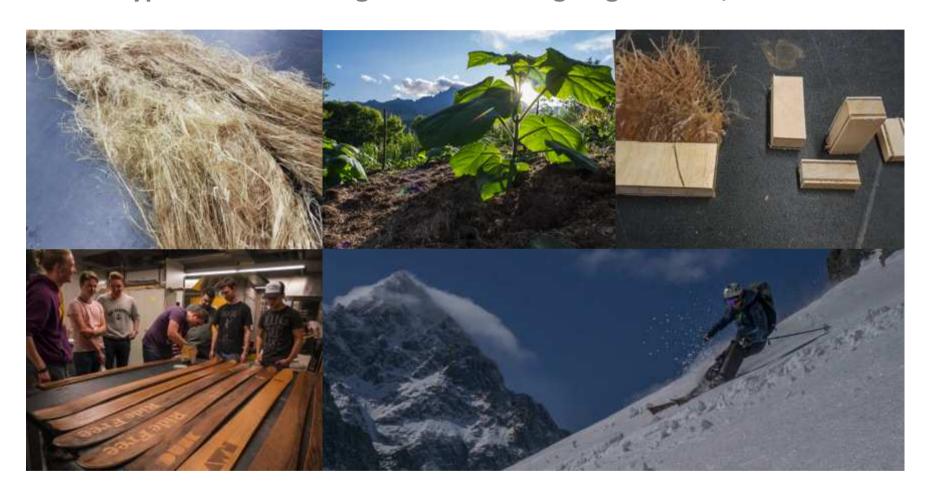
Winning two eco design prices at ISPO 2018, Munich







Systemic Design: Research, Doing, Experience A typical RWL learning context in designing eco-skis, on-site



44°69'70.99"N 7°18'98.87"W 1450m asl Ostana, Val Po, Piedmont, Italy monrisonativus org



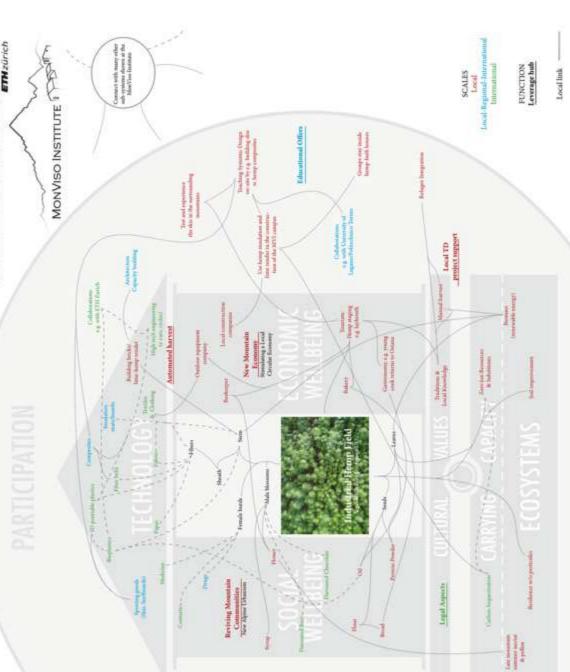




The MVI is a callchurentive, inmediatiphenry, systemic design initiative. YOU are invited to contribute with ideas, work force, finding, contacts, group visits and TD projects, contact@www.ice-influte.arg

A Real-World Mountain Laboratory for Sustainability Transitions and Systemic Design

Dr. Tobies Lobe, ETH Zerich, EDAC Systemic Design for Sustainability, Ermil : Unberliebisch ob ETTH Zürich



Institution to Co-Design takes speed and add nodes/links on this poster

Setting the horse system in contest with authorobility transitions by contest with authorobility transitions of a contest with authorobility transitions to lutter T and M, vox Kitzaslenbokh: 2006. Building contests ground in manual resolute obtains obsity. Sustainability: The Journal of Researd 9(5):247:254. DOI:10.1089/sus.2016.29068.8.

Link outside of the local system



Scales of Transformations

Abandoned houses - compound - community - valley - region

