

CLIMATE CHANGE

How it affects the Alps and what we can do

Nathalie Morelle

Project Officer

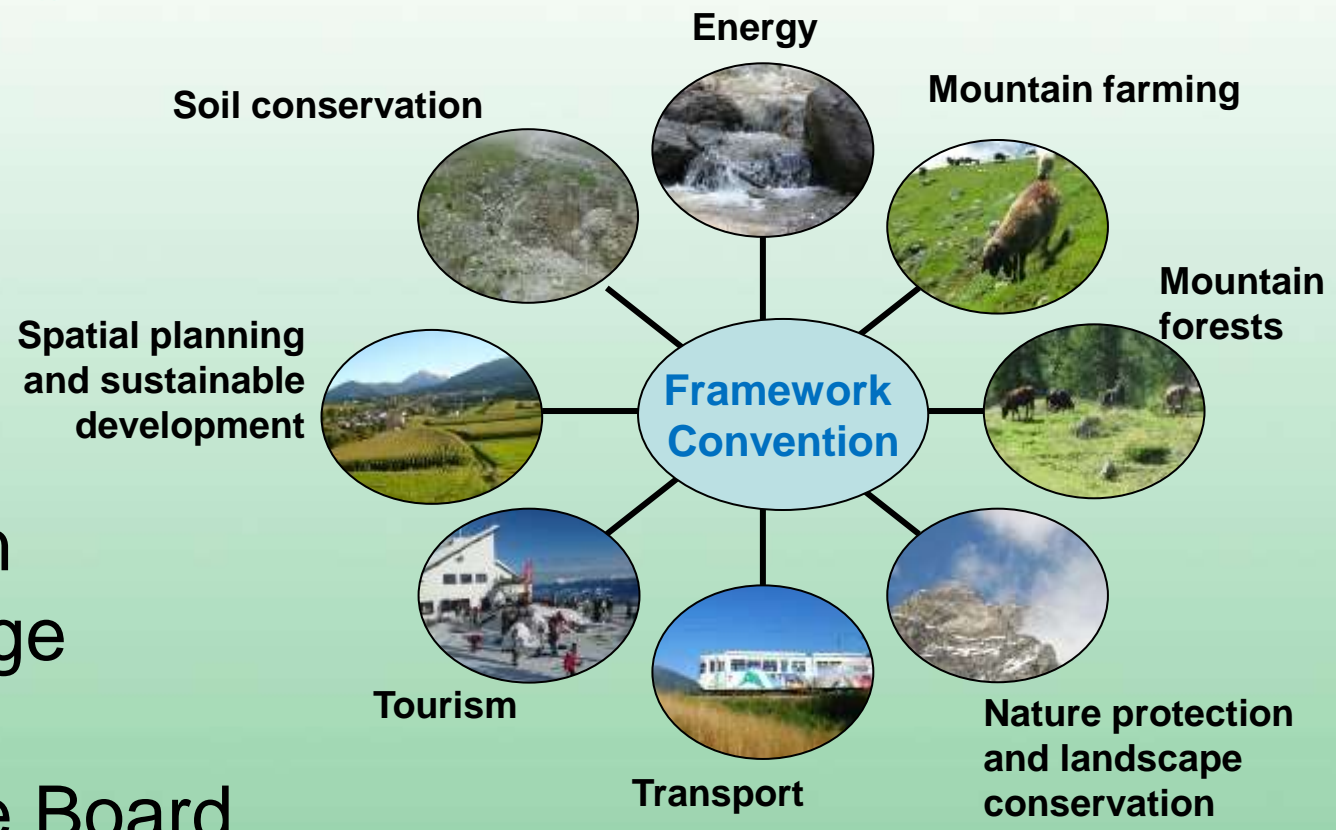
Permanent Secretariat of the Alpine Convention

International treaty for the **protection and sustainable development of the Alps**, signed 1991



The Alpine Convention

- Declaration on Climate Change (2006)
- Alpine Climate Board (2016)



8 protocols

Climate change impacts the Alps more



© A. Armagno

+2 °C

temperature increase in the 20th century

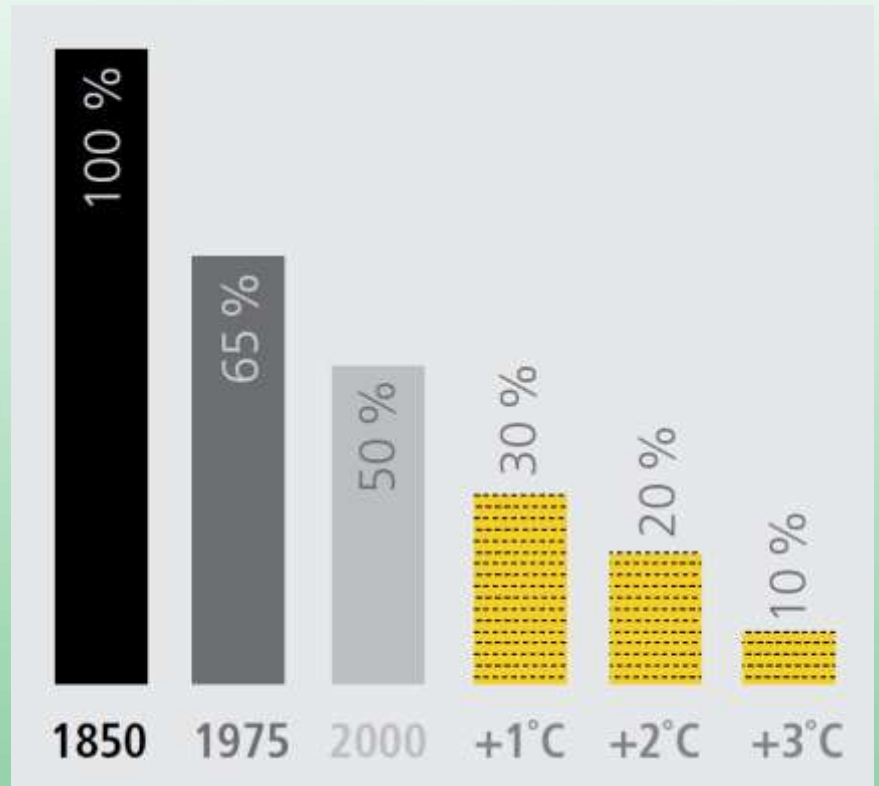
2x

faster than the northern hemisphere average



Glaciers are melting

Already 50% surface loss



(Data Zemp et. al 2006)

Changes in water availability



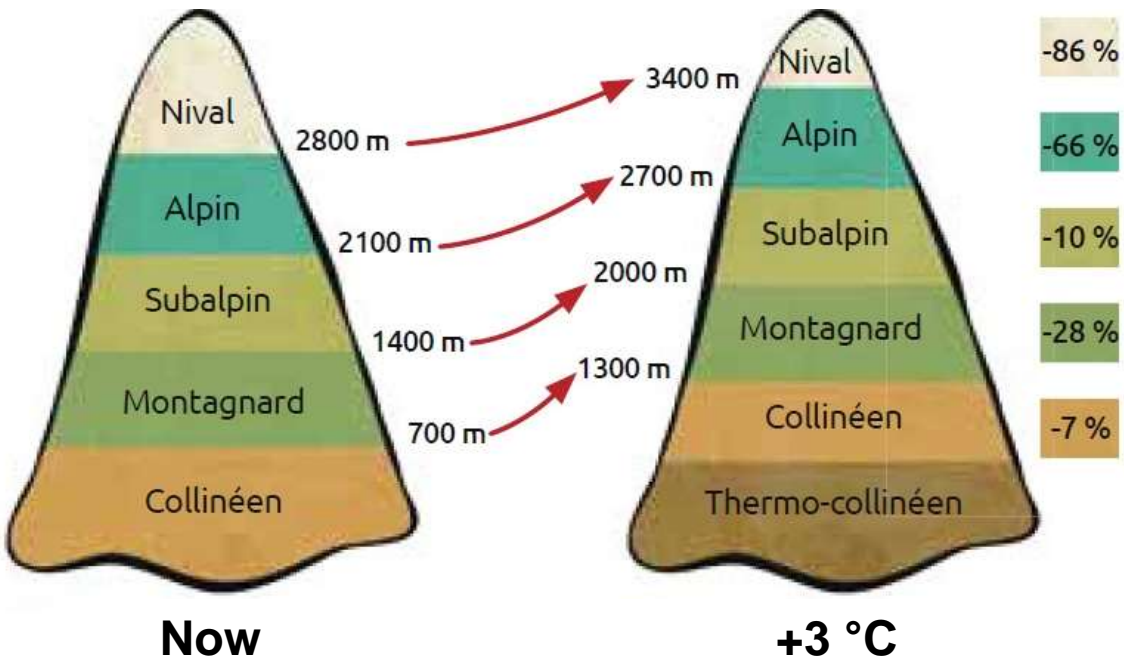
- Less snow, more rain in winter
- Less rain / more evaporation in summer
- Drought episodes
- Competition between households / agriculture / hydropower / snow-making / wild water...

Impact on flora and fauna



© J. Trnkoczy

Surface loss for each vegetation belt



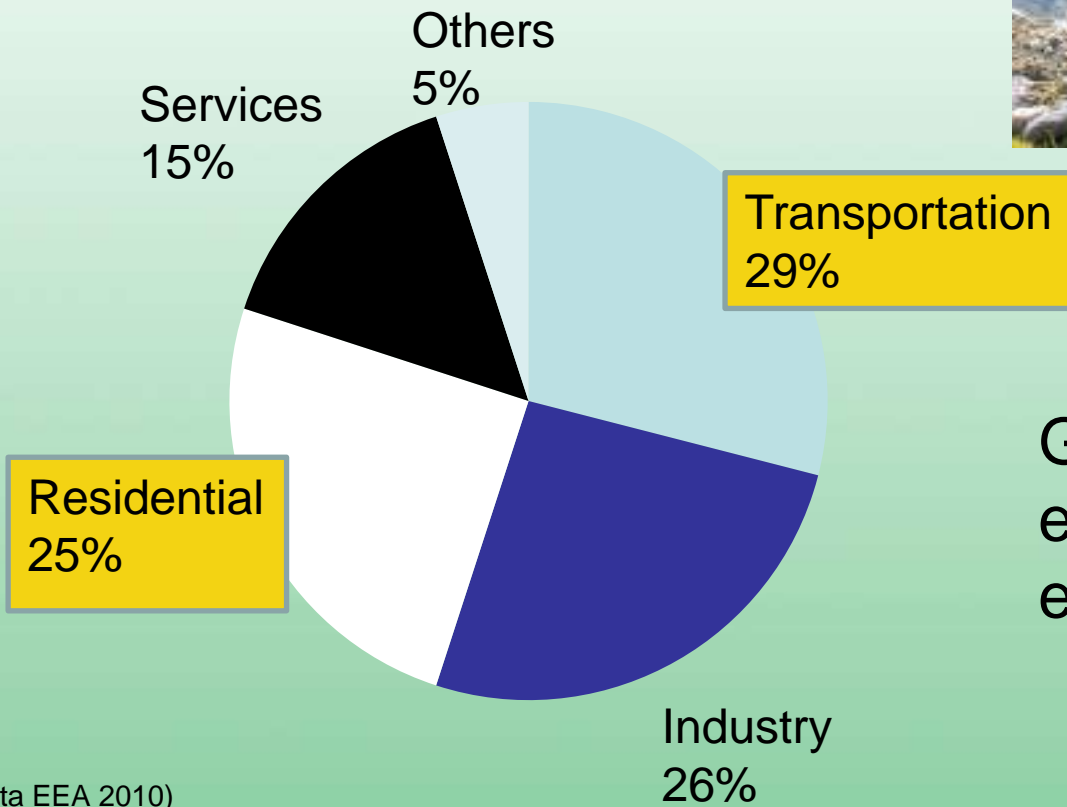
- Changes in habitats
- Strain on forests



Impact on human activities

- Unpredictable weather, natural hazards
- Impact on agriculture
- Impact on tourism (snow, wild water, mountaineering)

What we can do



Greenhouse gas emissions from energy end-use (EU-27)

(Data EEA 2010)



Alpine hotels: climate change mitigation in **transport**

Encourage sustainable mobility:
information, rewards

Use local products





© G. Cassar

Alpine hotels: climate change mitigation through **building efficiency**

Daily operation + renovation + new built

**ENERGIEMANAGEMENT
IN ALPENHOTELS**
MANAGEMENT DE L'ÉNERGIE DANS LES HÔTELS ALPINS
GESTIONE DELL'ENERGIA NEGLI HOTEL DELL'ARCO ALPINO
UPRAVLJANJE Z ENERGIJO V ALPSKIH HOTElih

28./29.11.2017
EURAC CONVENTION CENTER
BOZEN/BOLZANO

Energie sparen, Kosten senken, Klima schützen // Économie d'énergie, réduction des coûts, lutte contre le changement climatique
Risparmio energetico, riduzione dei costi, lotta ai cambiamenti climatici // Varčevati z energijo, zniževati stroške, varovati podnebje



Thank you for your
attention!

www.alpconv.org



Alpine Convention



alpconv

info@alpconv.org



© O. Borubaev



© S. Marsi



© H. Schlosser