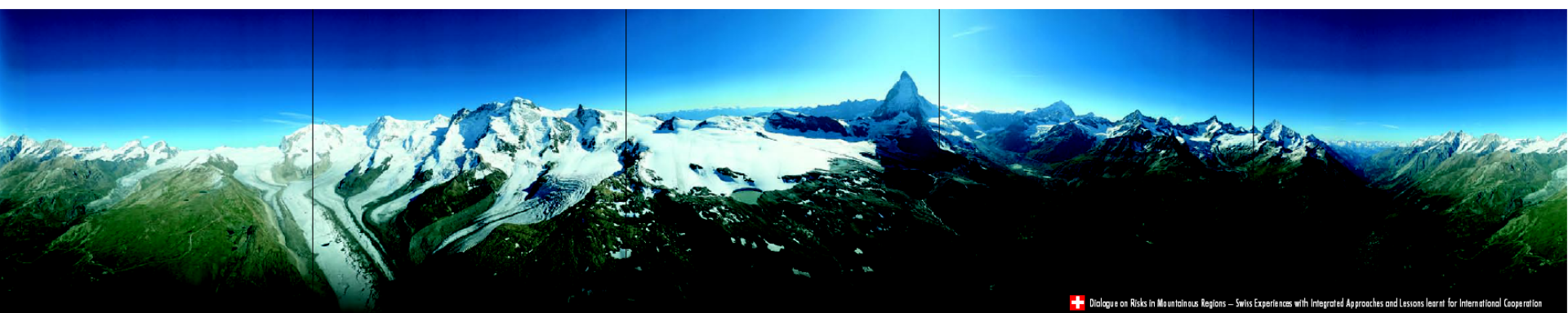
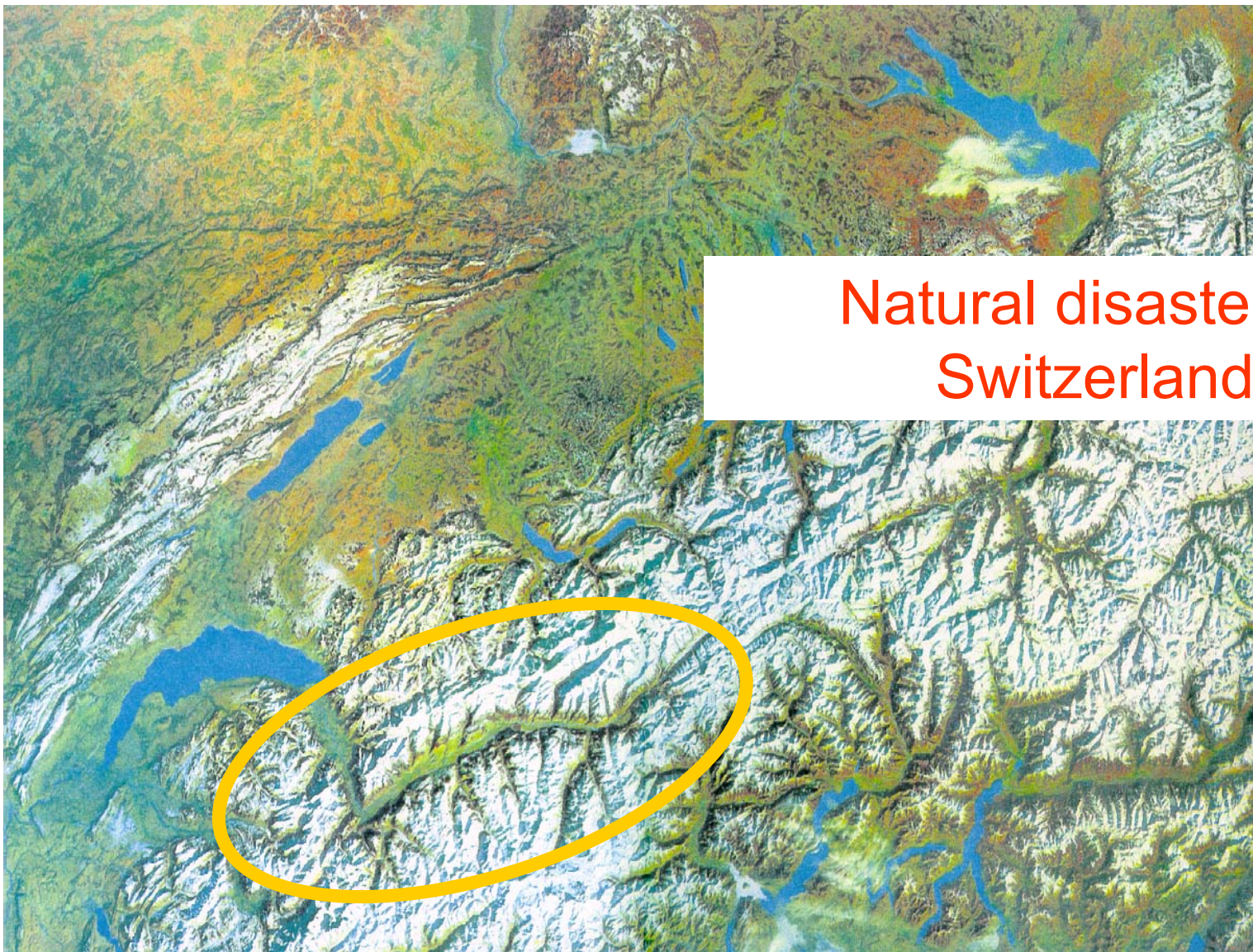




# Natural Disasters in Valais, Switzerland: Problems

**Charly Wuilloud**  
Cantonal Forest Service  
Valais, Sion



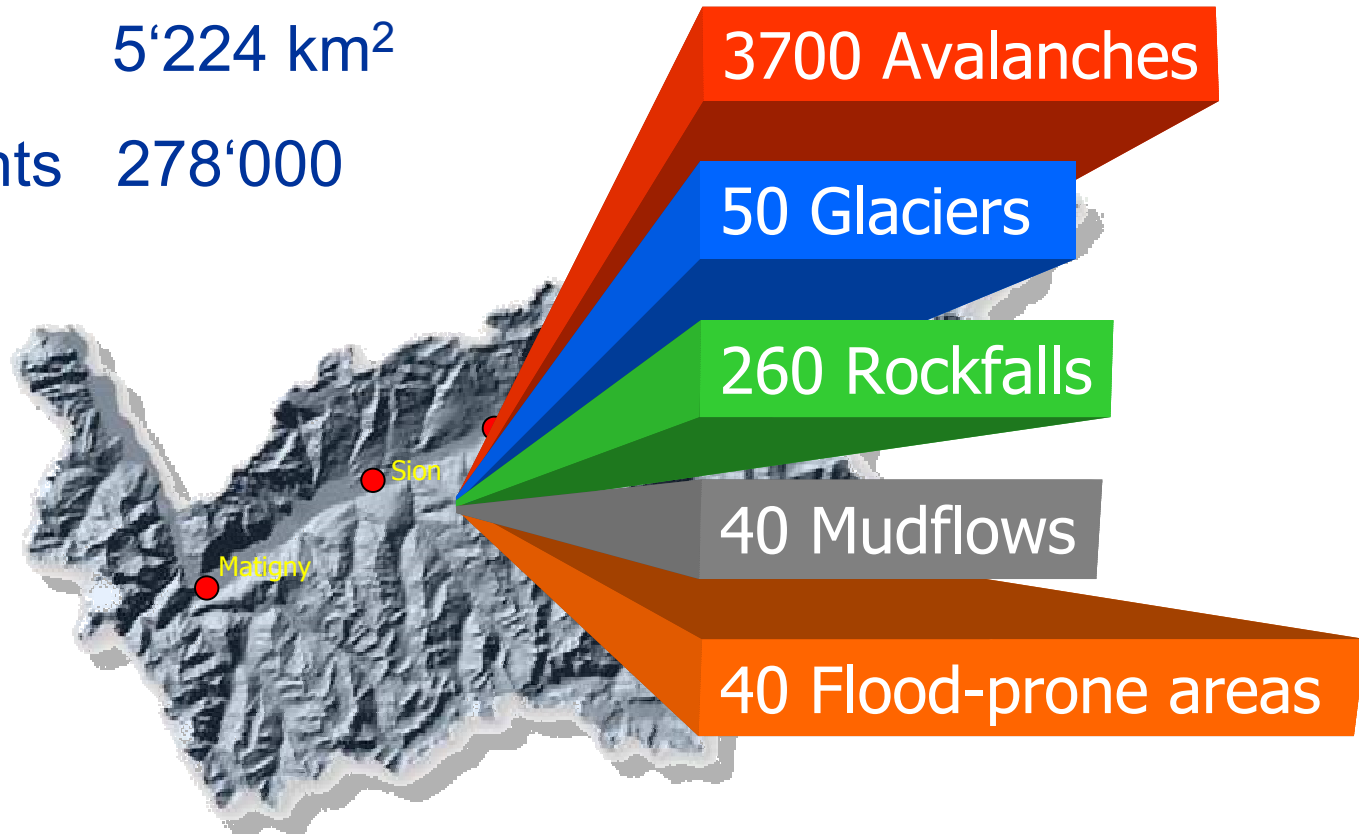


Natural disasters in Valais,  
Switzerland: **Problems**

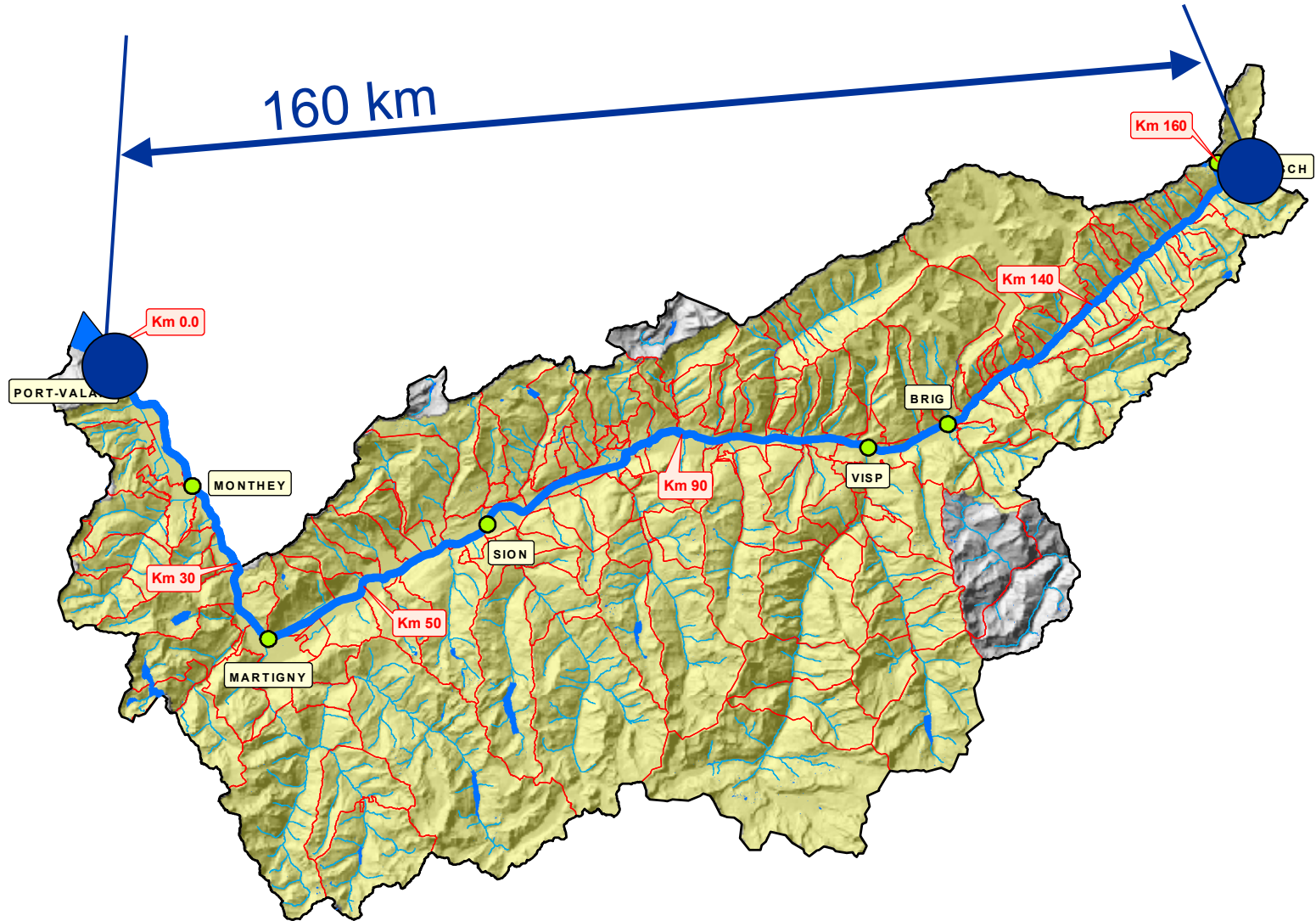
# Natural disasters in the Canton Valais

Surface 5'224 km<sup>2</sup>

Inhabitants 278'000



# Rhône River



## Origin of the first river training

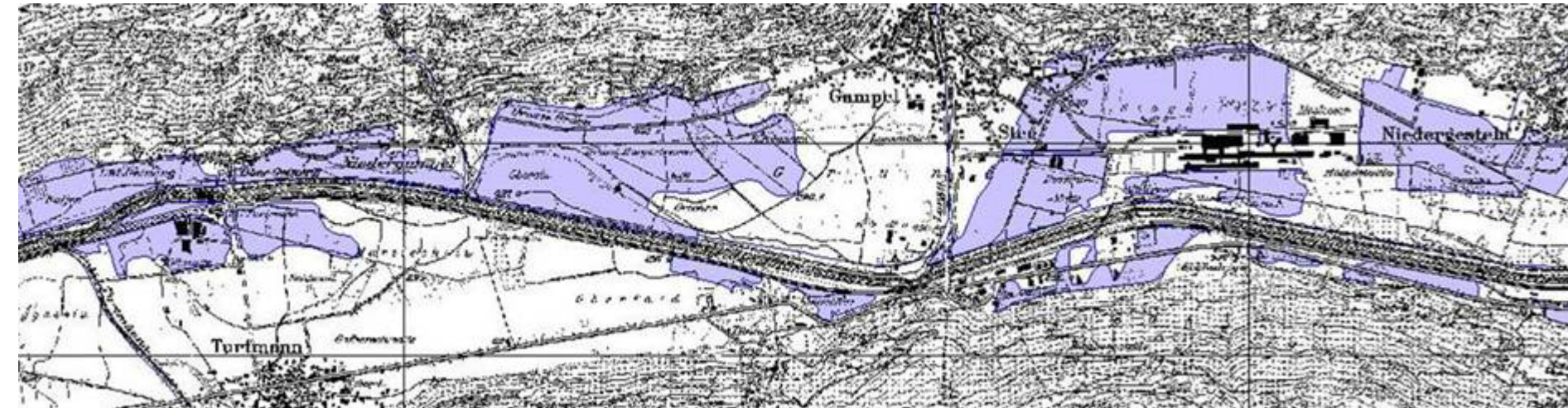


30 years of work to improve the water course



# Rhône River

# Floods of 2000





Old and fragile flood embankments





New development in flood plain



# Debris flows, 2000



# Debris flows, 2000



# Avalanches



Powder snow avalanche

# Avalanches



Heavy avalanche with wood and rock debris



Avalanches

Danger for ....

Railways and roads



Avalanches

Danger for ....



Buildings



thin forests



# Natural disasters in the Canton Valais



Action is needed...

PROBLEMS

RISK CONCEPT

SUSTAINABILITY

RISK  
DIALOGUE

EXAMPLES

SOLIDARITY

# The Risk Concept

**Next speaker:** Markus N. Zimmermann

Consultant for the Swiss Agency for  
Development and Cooperation, Bern

