

#### National Centre for Climate Services NCCS

Federal Office of Meteorology and Climatology MeteoSwiss
Federal Office for the Environment FOEN
Federal Office for Agriculture FOAG
Federal Office for Civil Protection FOCP
Federal Office of Public Health FOPH
Federal Food Safety and Veterinary Office FSVO
ETH Zurich
Swiss Federal Institute for Forest, Snow and Landscape Research WSL

# Swiss National Centre for Climate Services NCCS

Bertrand Calpini & Michiko Hama, MeteoSwiss

14 December 2017, ERA-CLIM2 - Climate Reanalyses and Services for Society, Bern



## **Motivation & Framing**











# Wide Scope of Climate Services

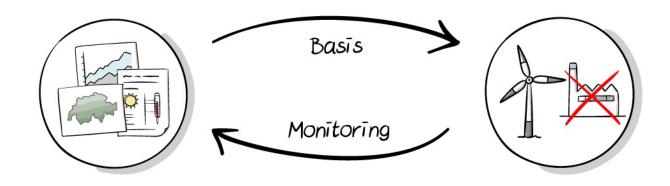
From Scenarios via Risk Analyses to Options for Action





#### Climate Services for Climate-Informed Decisions

Prerequiste for Setting Tailored Measures



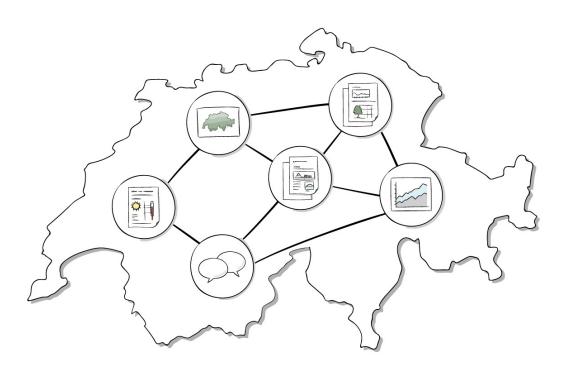
**Climate Services** 

Mitigation and Adaptation



# Inception of NCCS – November 2015

The Network for Climate Services of the Swiss Confederation





#### Members & Partners



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

#### **National Centre for Climate Services NCCS**

Federal Office for Meteorology and Climatology (MeteoSwiss)
Federal Office for the Environment (FOEN)
Federal Office for Agriculture (FOAG)
Swiss Federal Office for Civil Protection (FOCP)
Federal Office of Public Health (FOPH)
Federal Food Safety and Veterinary Office (FSVO)







Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

#### Agroscope







OESCHGER CENTRE
CLIMATE CHANGE RESEARCH



Science and Policy

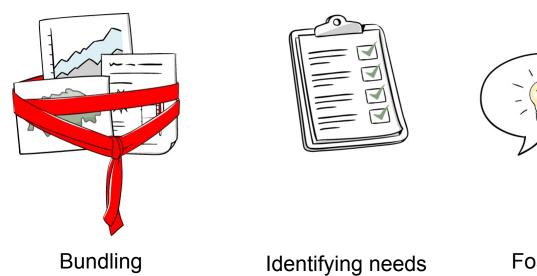
Platform of the Swiss Academy of Sciences

ProClim

Forum for Climate and Global Change



#### Goals

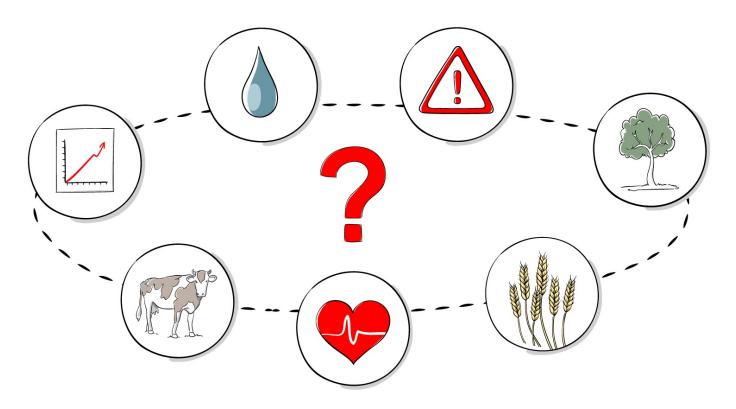




Fostering dialogue

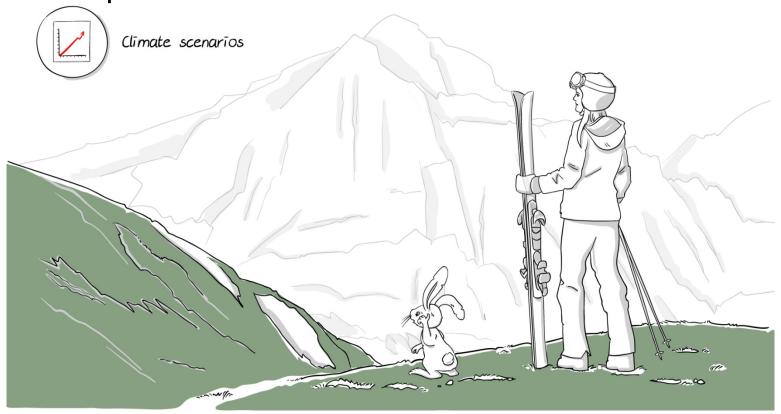
# O

#### **Thematic Priorities**



# V

# Example CH2018

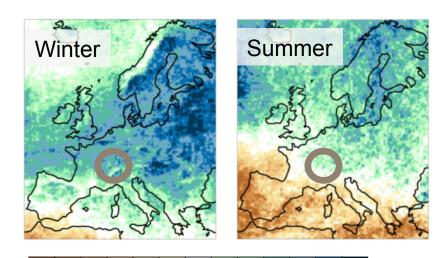




# Example CH2018 – Preliminary Results

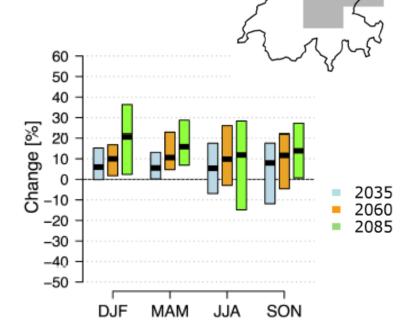
[%]

Changes Extreme Precipitation (RCP8.5)



Multi-Model Median Changes of the Annual Maximum Daily Precipitation Event (rx1d) 2070-2099 wrt. 1981-2010

-30-25-20-15-10 -5 5 10 15 20 25 30



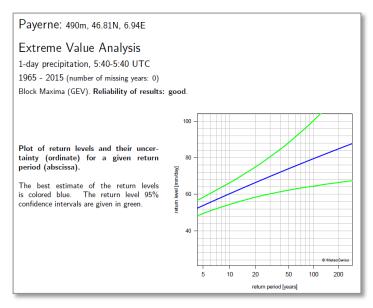
(J. Rajczak, C. Schär, ETH Zurich)

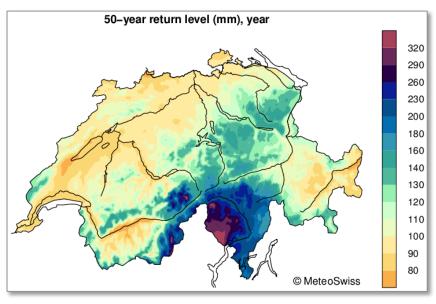
CHNE



## Further Examples (I): Extreme Value Statistics

(1-day precipitation extremes)





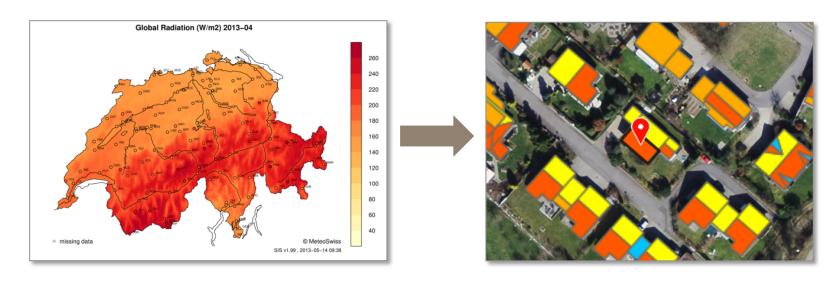
station

spatial

## O

## Further Examples (II): Energy Meteorology

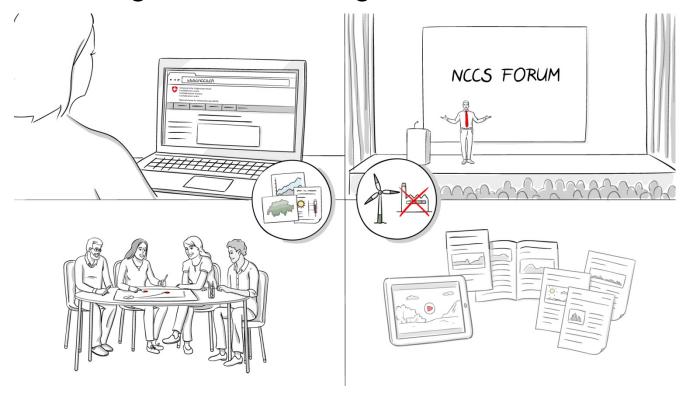
www.sonnendach.ch



- Direct application from CM SAF research, period 2007-2012
- Combination of satellite and station data (MeteoSwiss) with building data (swisstopo)
- Project lead: Swiss Federal Office of Energy SFOE, implementation: Meteotest

# V

## Network Agent & Knowledge Broker



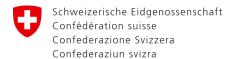
# **Q**

## First Accomplishments

- Garnering the interest of numerous partners in founding the national framework
- Priority themes populated with projects
- Finalized multi-tiered network and communications strategy
- First NCCS Forum held on 5 December 2017
- National and international visibility via presentations at various conferences (e.g. EGU, EMS)
- Co-organization of K3 Conference on Climate Communication, Salzburg
- NCCS web portal in conceptual phase







#### **National Centre for Climate Services NCCS**

Federal Office of Meteorology and Climatology MeteoSwiss
Federal Office for the Environment FOEN
Federal Office for Agriculture FOAG
Federal Office for Civil Protection FOCP
Federal Office of Public Health FOPH
Federal Food Safety and Veterinary Office FSVO
ETH Zurich
Swiss Federal Institute for Forest, Snow and Landscape Research WSL

# Thank you.