



Modelling crisis management for improved action and preparedness

***Offers of the Finnish Meteorological Institute  
climate change and extreme events***

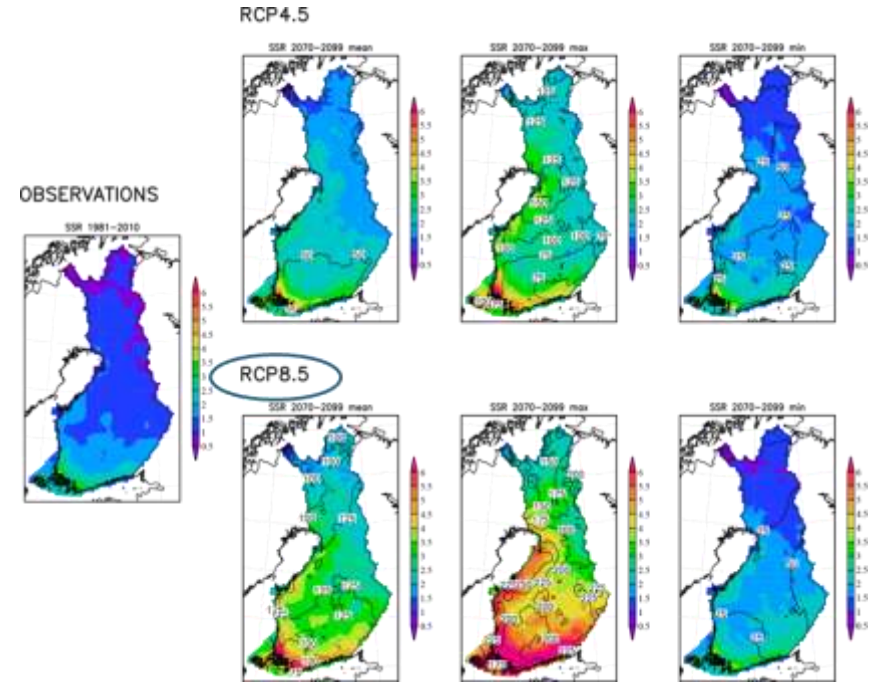
**CRISMA Business Day  
4th June 2015, Brussels  
Adriaan Perrels**



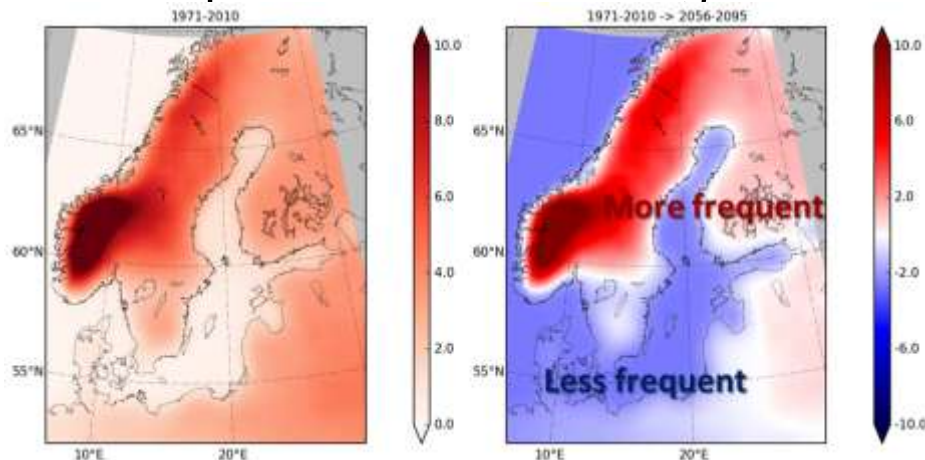
## FMI offer options

- **Offer summary – planning and training contexts:**
  - *Expert services* – extreme weather system analysis & extreme weather impact and adaptation assessment (if outside the realm of Finnish public service obligations)
    - Future forest fire risks; Future transport vulnerability
- **Targeted markets:**
  - **Actors:** regional and municipal authorities responsible for public safety and related capacity and prevention planning; transport system operators and planners; forest managers
  - **Geographical markets:** mainly Finland/Nordic area; partly wider scoped if climate adaptation related
  - **Competitors:** some private and public weather services; technical consultants; technical & transport research institutes

- Applications
- Forest damage risks
  - wind fall risk; forest fire index;
  - Impacts of climate change



- Road condition, clearance, warning
  - accident proneness; optimal clearance planning, individualized warnings
  - Impacts of climate change



## FMI offer options (continued)

### ■ **Conditions:**

- if the services are not part of FMI's public service obligation nor trespassing into regulated service areas of partner met-offices, a chargeable service can be contracted – either as single project with limited run time or as repeatedly invoked service for a longer period
- next to fully commercial service provision, services can be joint development & demonstration projects, possibly involving 3<sup>rd</sup> party funding

### ■ **Added-Value on the market:**

- Better preparedness and reduced risk of over- or undershooting precautionary action
- Better allocation of precautionary investments