

# The EU Strategy on Adaptation to Climate Change

Beatriz Yordi (Climate Action DG, Head of Adaptation Unit)

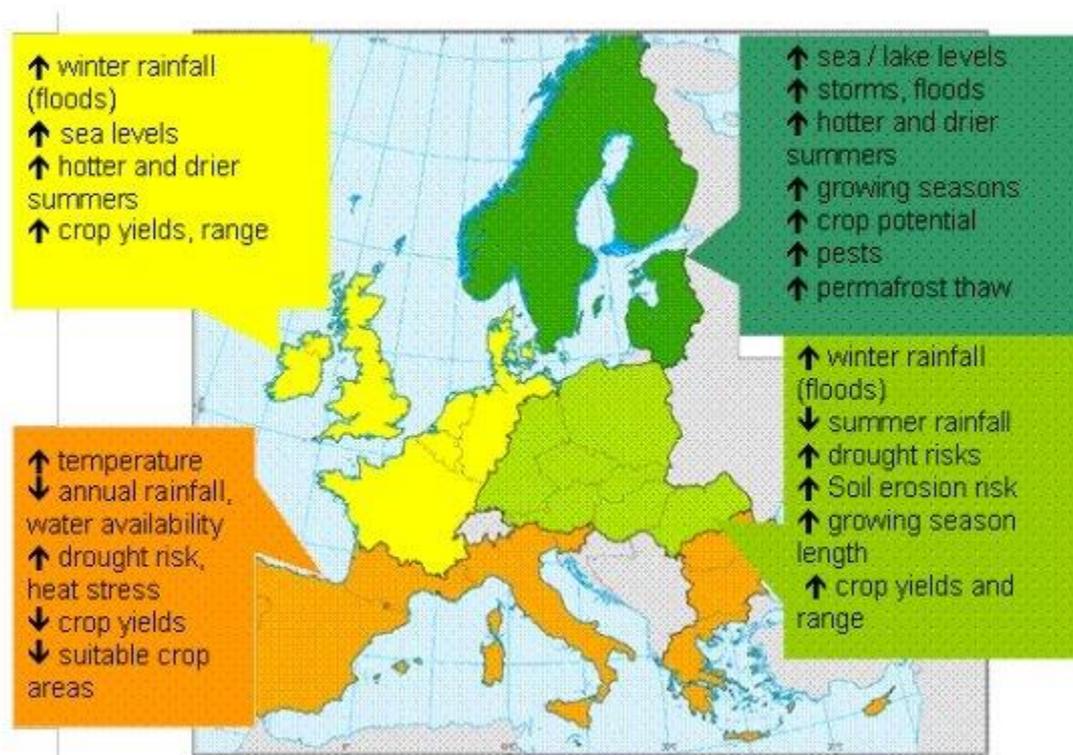
At the

"Enhancing energy sector resilience to climate change: country perspectives"  
side event @ COP21

Paris, 2 December 2015



## Projected impacts from climate change in Europe



Source: EU, 2009

# EU - Some key findings



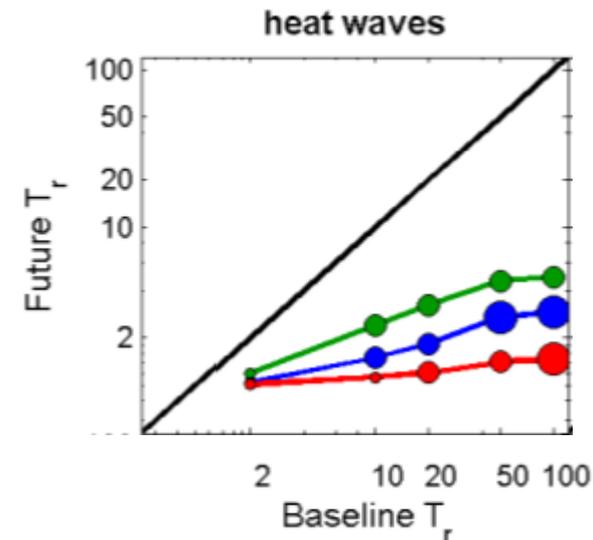
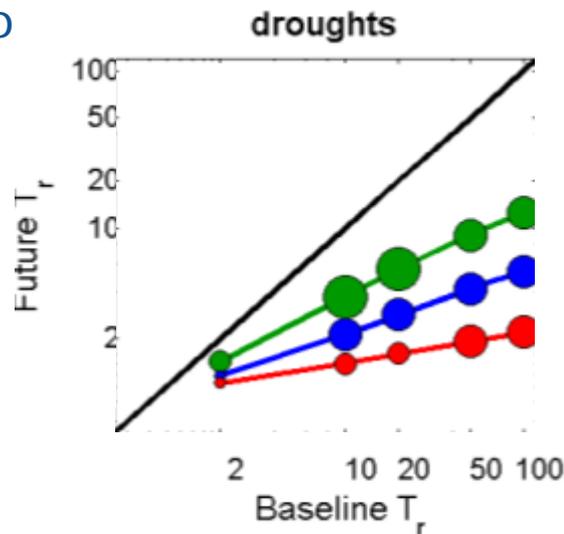
- Europe will see a progressive and very strong increase in overall climate hazard with a prominent spatial gradient towards south-western regions. Key hotspots emerge particularly along coastlines and in floodplains.
- Heat waves - a current 100-year heatwave may occur almost every year in Southern Europe by 2100, whereas in other regions it may happen every 3 to 5 years.
- Streamflow droughts - in Southern and Western Europe a currently 100-yr event will happen approximately every 2 to 5 years by 2080.
- Coastal floods - a current 100-yr event may occur every 2 to 8 years, mainly due to sea level rise. Currently 26% of NL territory is below sea level. In the most extreme scenarios after 2200 this can go up to 50%.
- The impacts to critical infrastructures investments may strongly rise in Europe: damages could triple by the 2020s, multiply six-fold by mid-century, and amount to more than 10 times present damages by the end of the century.
- Economic losses are highest for the transport and energy sectors, projected to increase at least 15 times by the end of the century.

## *Increasing droughts and heat waves affect energy supply*

Heat waves and droughts in southern Europe: 1/100 year now  $\rightarrow$  1/2 year event in 2080!

This will have serious co

- Hydropower
- Cooling water in thermo-electric generation plants

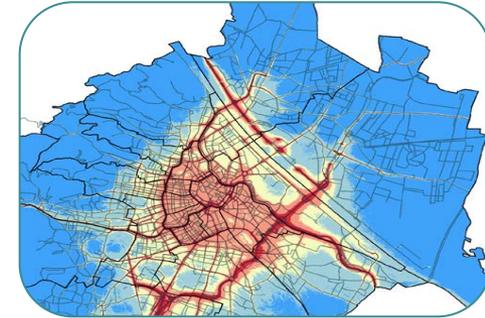


JRC, 2015

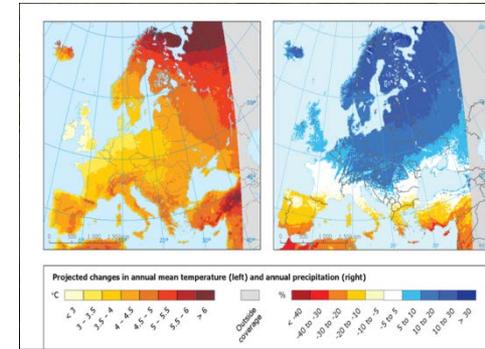
# EU Strategy on adaptation to climate change



**Priority 1: Promoting action by Member States and cities**



**Priority 2: Foster adaptation knowledge to improve policy making**



**Priority 3: Mainstream adaptation concerns in all key vulnerable sectors**



# EU action for resilient infrastructure



- **Commission Implementing Decision [C(2014) 3451 final] - Standardisation Request addressed to the European Standardisation Organisations. The main objective is to contribute to building and maintaining a more climate-resilient infrastructure throughout the EU in the three priority sectors identified in the EU Strategy on Adaptation to Climate Change (i.e. transport infrastructure, energy infrastructure and buildings)**

<http://www.cencenelec.eu/standards/Sectors/ClimateChange/Pages/default.aspx>

- **Guidelines for Project Managers: Making vulnerable investments climate resilient**
- **Climate-proofing the major projects funded by the European Structural and Investment Funds 2014-2020**
- **Factoring-in climate considerations in the development of TEN-E**

**Thank you  
for your attention**



**Directorate-General for Climate Action ("DG CLIMA")**  
<http://ec.europa.eu/clima>

**EU Strategy on Adaptation to Climate Change:**  
[http://ec.europa.eu/clima/policies/adaptation/index\\_en.htm](http://ec.europa.eu/clima/policies/adaptation/index_en.htm)

**Guidelines for project managers**

[http://ec.europa.eu/clima/policies/adaptation/what/docs/non\\_paper\\_guidelines\\_project\\_managers\\_en.pdf](http://ec.europa.eu/clima/policies/adaptation/what/docs/non_paper_guidelines_project_managers_en.pdf)

**European Climate Adaptation Platform:**  
<http://climate-adapt.eea.europa.eu/>

