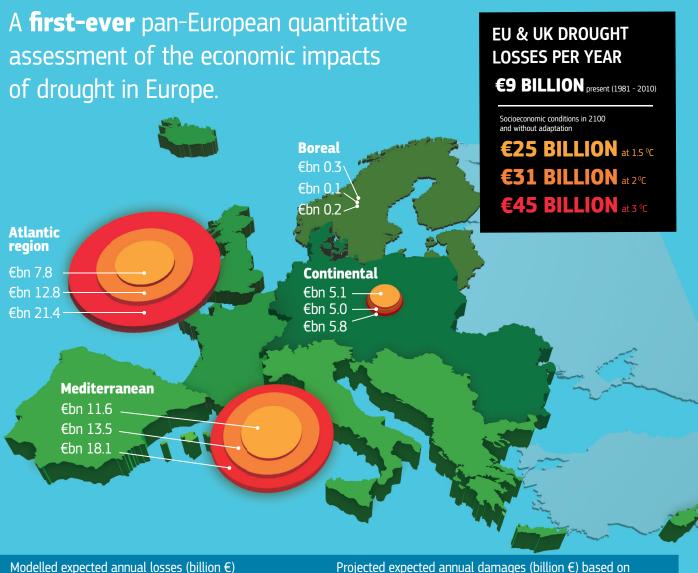
Drought in a changing climate



IMPACT ON SECTORS CONSIDERED



Agriculture

- Damages to crops and livestock losses
- Irrigation restrictions due to water scarcity



Power generation

- Reduction in hydroelectricity production
- Reduced capacity of cooling systems
- Possible shutdown of thermal and nuclear power plants



Public water supply

- · Decreasing water availability
- Increasing competition amongst different sectors



Commercial shipping

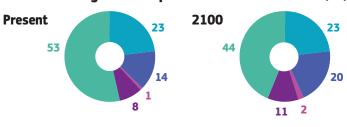
- Interruption of navigation
- Reduction in cargo maximum capacity
- Transfer to other means of transportation



Buildings and infrastructure

- Damages due to soil subsidence
- Aquifer over-exploitation may aggravate damage to buildings from subsidence

Share of drought losses per socioeconomic sector (%)



KEY SUMMARY

- Drought will be more severe and persistant in southern and western Europe, whereas it will become less intense in northern and eastern Europe.
- Mediterranean and Atlantic regions are already contributing to about 68% of present losses, and this share will become 87% at 3 °C.
- Agriculture sector is most affected now and in the future, even if its economic importance is reduced in future European economies.



for the present (1981 - 2010)

Mediterranean Atlantic region 3.6 2.5

Continental 2.6

Boreal 0.3

____ 1.5 °C



C

socioeconomic conditions in 2100 and without adaptation, at:



3 °C