

# fäcts!

be part of the solution





# Linking climate change adaptation to territorial development

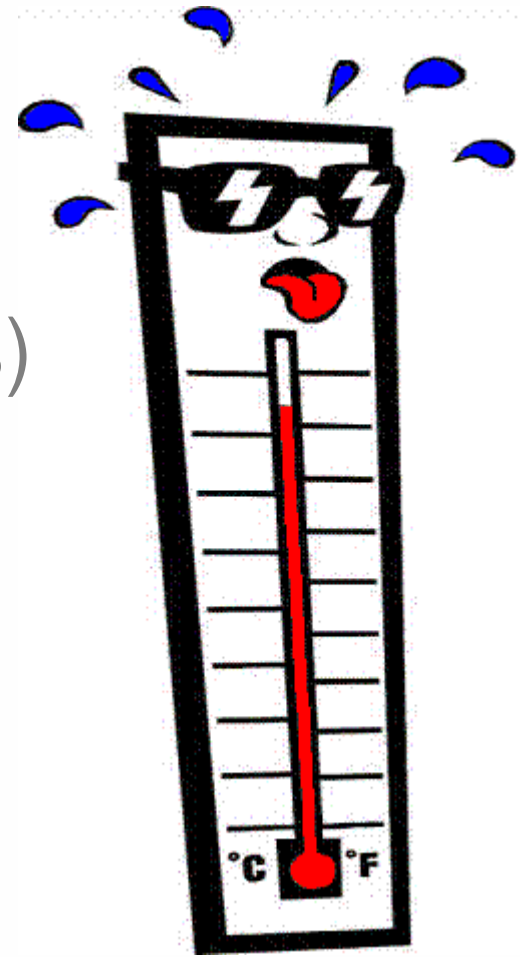
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# Climate change in Southern Europe

Probable scenario:

- Higher temperatures (especially in summer periods)
- Higher rainfall stationality (lower in summer periods)





# Extended dry periods



# Adaptation of crops

- Some crops not suited any more to climate conditions
- Opportunity: new crops



# Not only climate is changing ...

- Areas of former agricultural land no longer used



# Abandonment of agricultural use





# Abandonment of agricultural use





# Abandonment of agricultural use



# Galicia as an example ... 1985-2005



- Net decrease of agricultural area  
145,000 ha (15%)
- 106,000 ha occupied by shrubs
- 233,000 ha occupied by forests
- Similar situation in other Mediterranean regions





# Changes in Mediterranean landscapes

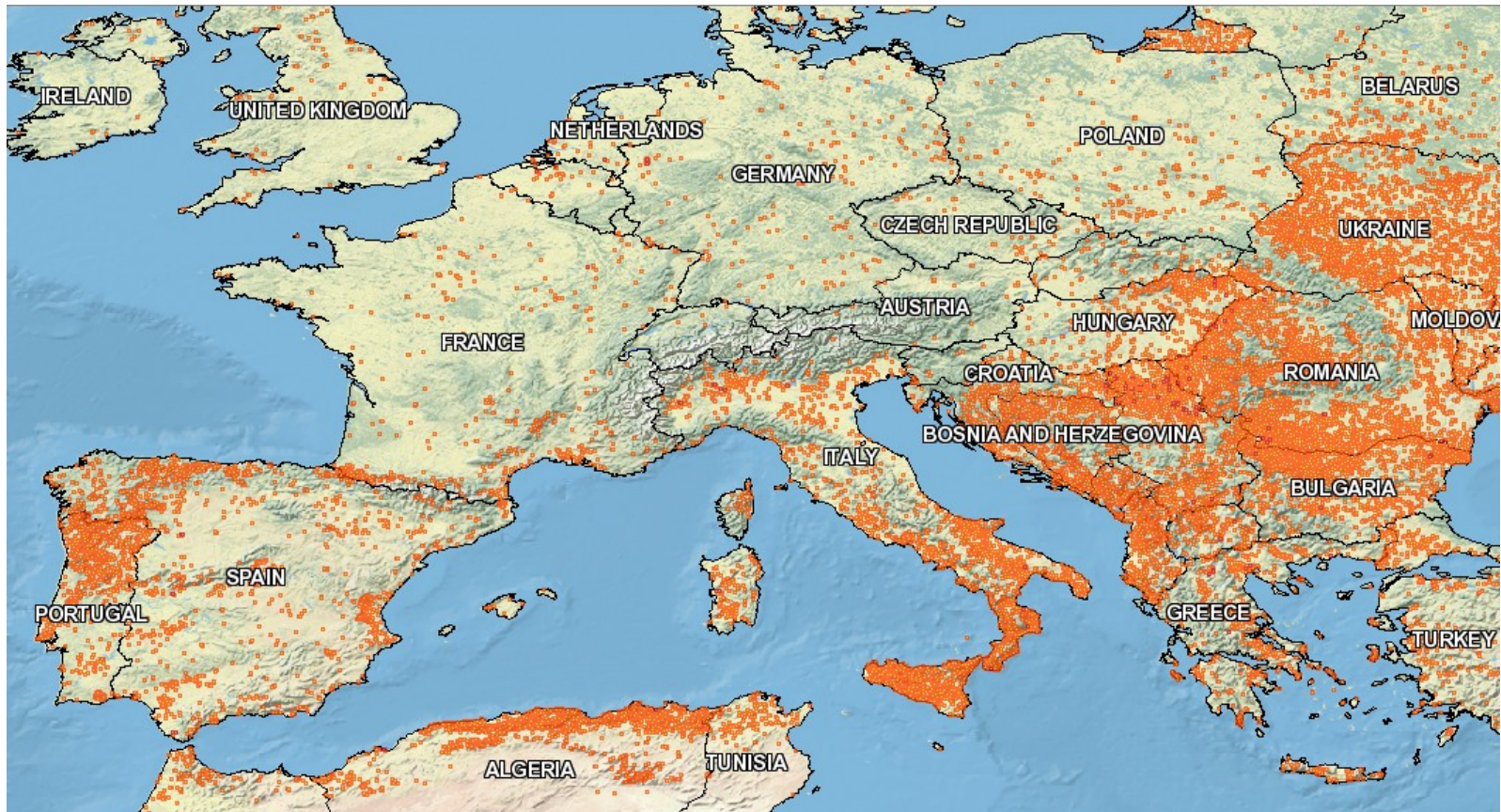
- Increasing presence of **biomass**
  - Total volume
  - Continuity
- A dangerous equation ...

**Biomass + hot, dry periods = Wildfires**





# Wildfires in Southern Europe, 2012



Source: FIRMS Web Fire Mapper  
<http://firms.modaps.eosdis.nasa.gov/firemap/>

# Increasing risk of wildfires

- Volume & Continuity of biomass
- Increasingly hot & dry summers
- **Both** can be expected to be more common in the future



# The other side of the coin ... ?



# Integrated Territorial Strategies

- Recovering adequate management of territories
  - New land uses, new functions
  - Rearrangement of land ownership
  - Coordination of sectoral interventions
  - Creation of public-private partnerships
  - Efficient use of local resources



# Adapting to a changing environment

- Economic viability
- Stakeholder participation
- Governance



Photos: <http://www.montecabalar.com/>

# During this session ...

- Innovative approaches, land-uses & land-users are needed
  - Integrating social, environmental & economic concerns
  - Adapted to expected environmental conditions
- Today we will review examples from:
  - Portugal, Italy, Lithuania & Spain



# An adventure to be shared ...



Thank you for your attention

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