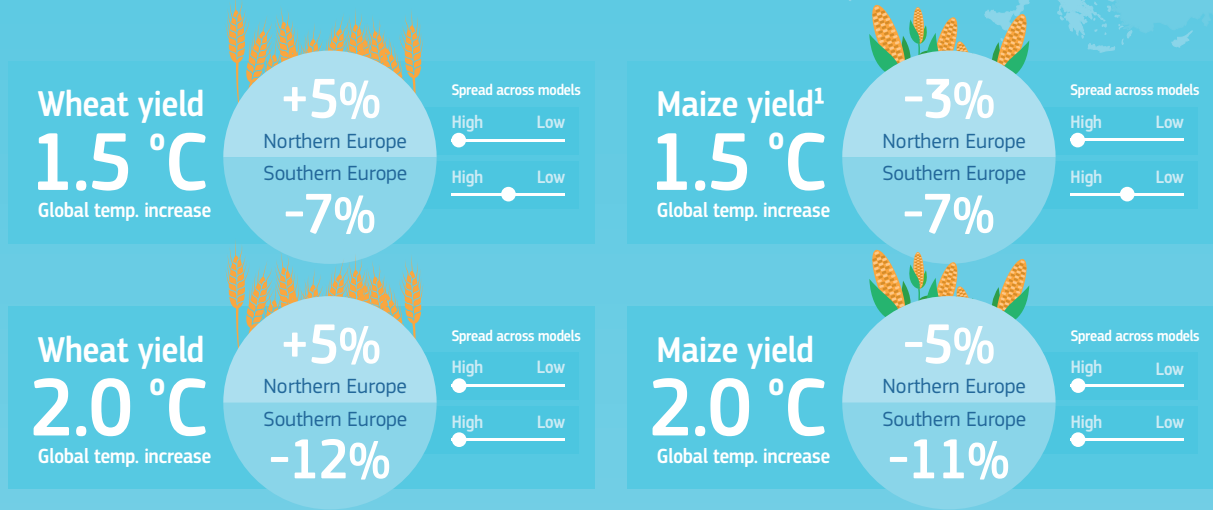


# Agriculture in a changing climate

Climate change may trigger yield losses and shocks in European agriculture markets, especially in the south, with trade acting as an important adaptation mechanism for dealing with variability in yields.



## Pure biophysical effects of climate change



1. Maize yields are potential, i.e. assume that sufficient water is available for irrigation.

## Impacts



## Mitigation

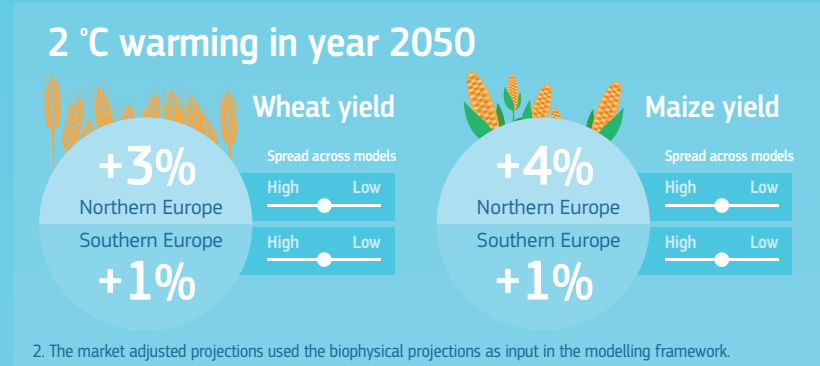
Keeping global warming **below 2 °C** reduces the risk and facilitates adaptation



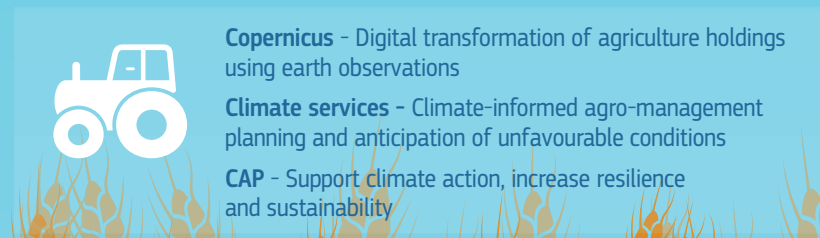
## Adaptation mechanisms

### Market adjusted effects of climate change<sup>2</sup>

For some crops improvement of agro-management practices, and introduction of new varieties may protect against climate change. A novelty of this study is that global market demand may steer adaptation in Europe with advantages for the European farming sector.



## Farm management



Without mitigation and adaptation, wheat and maize yields will decrease in southern Europe and the crops produced will have reduced nutritional value.