Agriculture - managing risk and enhancing resilience Climate change poses significant risks for the agricultural sector and for global food security. Resilience to the impacts of a warming world will be enhanced by keeping the inevitable rise in average global temperature below certain key thresholds.

### Resilience requires both mitigation and adaptation

adaptive capacity to inevitable temperature rises and associated climate events.















# Steps for Adaptation



Global temperatu increases of 4°C or more, combined with rising food demand, would pose large risks to food security globall and regionally.



Improve feeding and dietary additives for livestock ▶ Improve agronomy, nutrient and fertiliser

# Livestock Options

- ► Match stocking rates with pasture production ► Adjust herd and water point management Use more suitable livestock breeds or species
- Manage livestock diet auglity
- ► More effective use of silage, pasture
- spelling and rotation
- ► Monitor and manage the spread
- of pests, weeds and diseases



Crop Options

### **Policy Options**

- Index-based weather insurance Risk sharing and transfer mechanisms
- ► Public-private finance partnerships ► Payments for environmental services
- Improved resource pricing
- Trade reform





projected to be exceeded in regions closest to the equato if temperatures rise bu 3°C or more





Local warming of up to 2°C is expected to reduce average yields for the major cereals (e.g. wheat, rice, maize) in temperate regions

0°C