CLIMATE CHANGE AFFECTS AGRICULTURAL PRODUCTION IN MANY REGIONS

rising temperatures

increased frequency of dry spells and drought

rising sea levels

increasing intensity of extreme weather events

> temperature variability

The greatest vulnerabilities to dimate change impacts are in sub-Saharan Africa and South and South-east Asia.

Food insecurity and dimate change vulnerability present day



Productivity declines would have serious implications for food security.



changes in

precipitation

patterns

Millions of low-income people

that are already highly food insecure, would be affected. Smallholder producers in developing countries are amongst the most vulnerable.

All these effects have negative impacts on the productivity of crops, livestock, fisheries and forestry.







CLIMATE CHANGE POSES A SERIOUS THREAT TO FOOD SECURITY



Significant improvements can be achieved with the introduction of sustainable agricultural practices. Smallholders need support to access the right technologies to implement them.

RESPONDING **TO CLIMATE CHANGE**

Innovation is key to farm system adaptation.





Cultivating nitrogen-efficient crop varieties







Cultivating heat-tolerant crop varieties



Improved pasture management



Drip irrigation



Improved fodder grasses or legumes



Water harvesting & sprinkler irrigation



Precision agriculture



Natural predation of pests and reduction of pesticides



Integrated

soil fertility

Cultivating drought-tolerant crop varieties





