



Food Insecurity Climate Change

With no adaptation

despite mitigation.

climate change impacts increase food insecurity, This poster shows the relationship between climate-related events and vulnerability to food insecurity in developing and least-developed countries. Present-day vulnerability to food insecurity is shown on the map at the bottom of the poster. Future projections are shown for a range of scenarios of different future global greenhouse gas emissions and adaptation levels. These show that with both adaptation and mitigation, it is possible to successfully tackle the impact of climate change on future food insecurity.

LOW EMISSIONS

- No adaptation Low emissions
- Low levels of further although worse than the present-day, does

2080s

- High adaptation High emissions
- HIGH EMISSIONS

No adaptation

High emissions

Adaptation has a positive impact, but

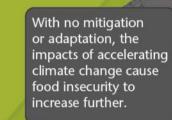
cannot keep pace with accelerating climate change. Food insecurity

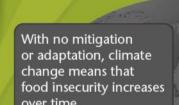
2050s

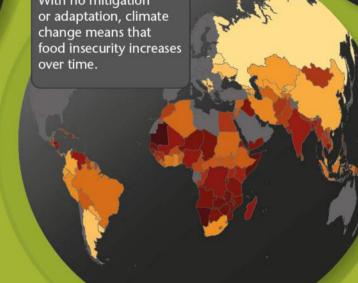
Adaptation off-sets some, but not all, of the impacts

of climate change. Food

nsecurity is worse than







High food insecurity

With no action to address climate change the negative consequences for food insecurity could be severe.

climate change mean that food insecurity reduces, compared to

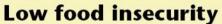
Continued adaptation and low levels of further

High adaptation

Low emissions



Adaptation off-sets the change, if combined the present-day.



Mitigation and adaptation could successfully tackle the impact of climate change on

food insecurity.

- High emissions The high emissions scenario represents considerable future increases in global emissions resulting in a rise in global average temperature of 4 °C or more above pre-industrial levels by the end of the 21st century.
- High adaptation This is a scenario where both the sensitivity of agricultural production and the ability of a country to cope with climate-related hazards has been improved. The change is around 10-15% in the 2050s, and a further 10-15% in the 2080s. The change is not applied O No adaptation – This scenario maintains agricultural equally to all countries, allowing the most vulnerable countries to improve more rapidly than the least vulnerable. This scenario was chosen as a representative of a plausible

Low emissions – The low emissions scenario represents

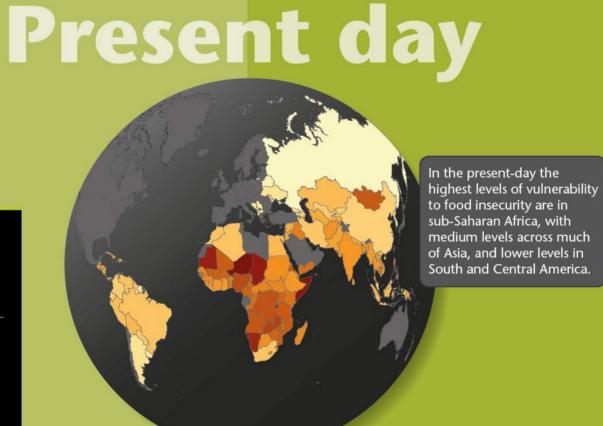
21st century. This scenario is also known as RCP2.6.

a rapid and sustained reduction in future global emissions

resulting in an increase in global average temperature of around 2 °C above pre-industrial levels by the end of the

- This scenario is also known as RCP8.5. level of adaptation, but is not a forecast of future behaviour. The results shown here are not particularly sensitive to the
- sensitivity and adaptive capacity at present day levels. It therefore shows the impact of climate change alone on

way the adaptation scenario has been developed.



Vulnerability to food insecurity

LOW	HIG