

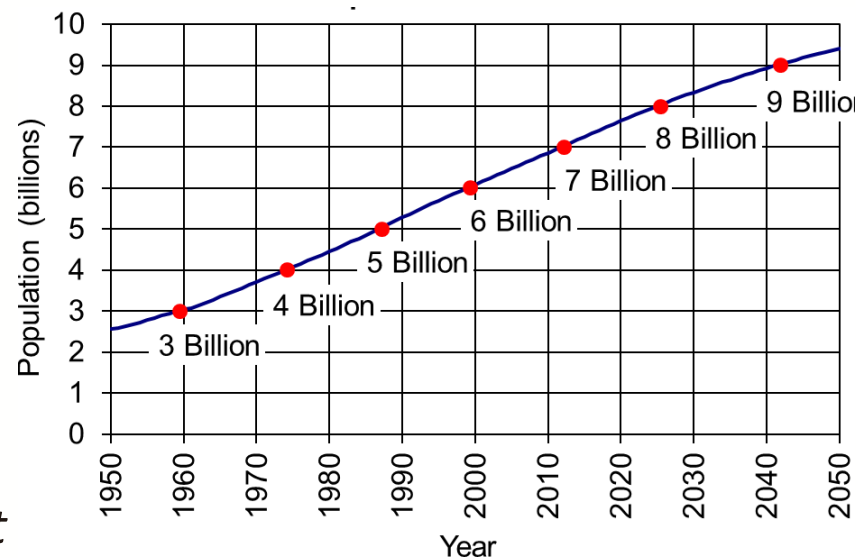
The Global food System: What are the challenges?

Prof. Katherine Denby
University of York
N8 AgriFood Resilience Programme

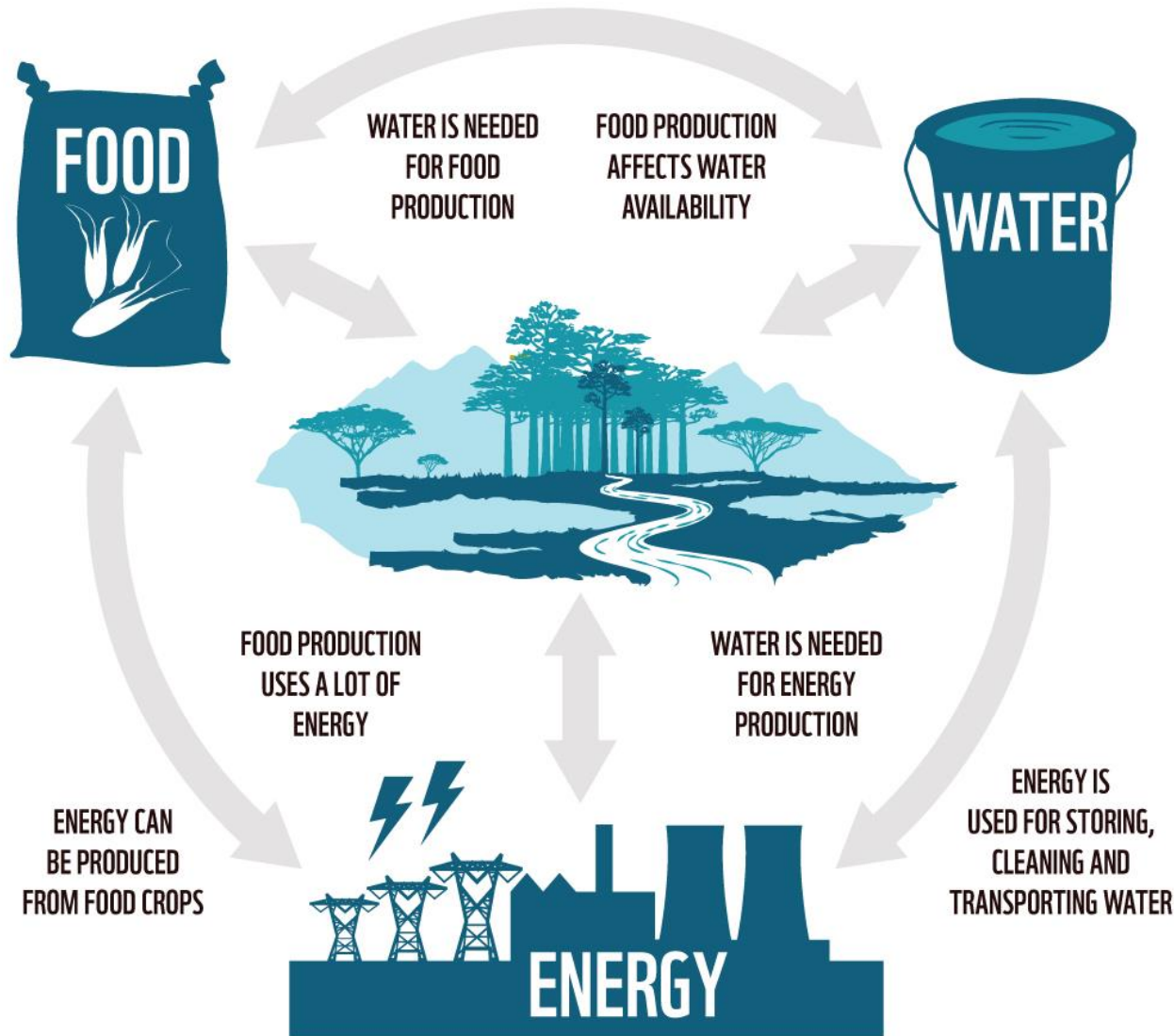


What is the problem with the global food system?

- 800 million people hungry
- not everyone has a safe, healthy, nutritious diet
- millions of workers in the food system do not have an adequate livelihood
- unsustainable in the context of scarce natural resources and climate change
- Increasing population



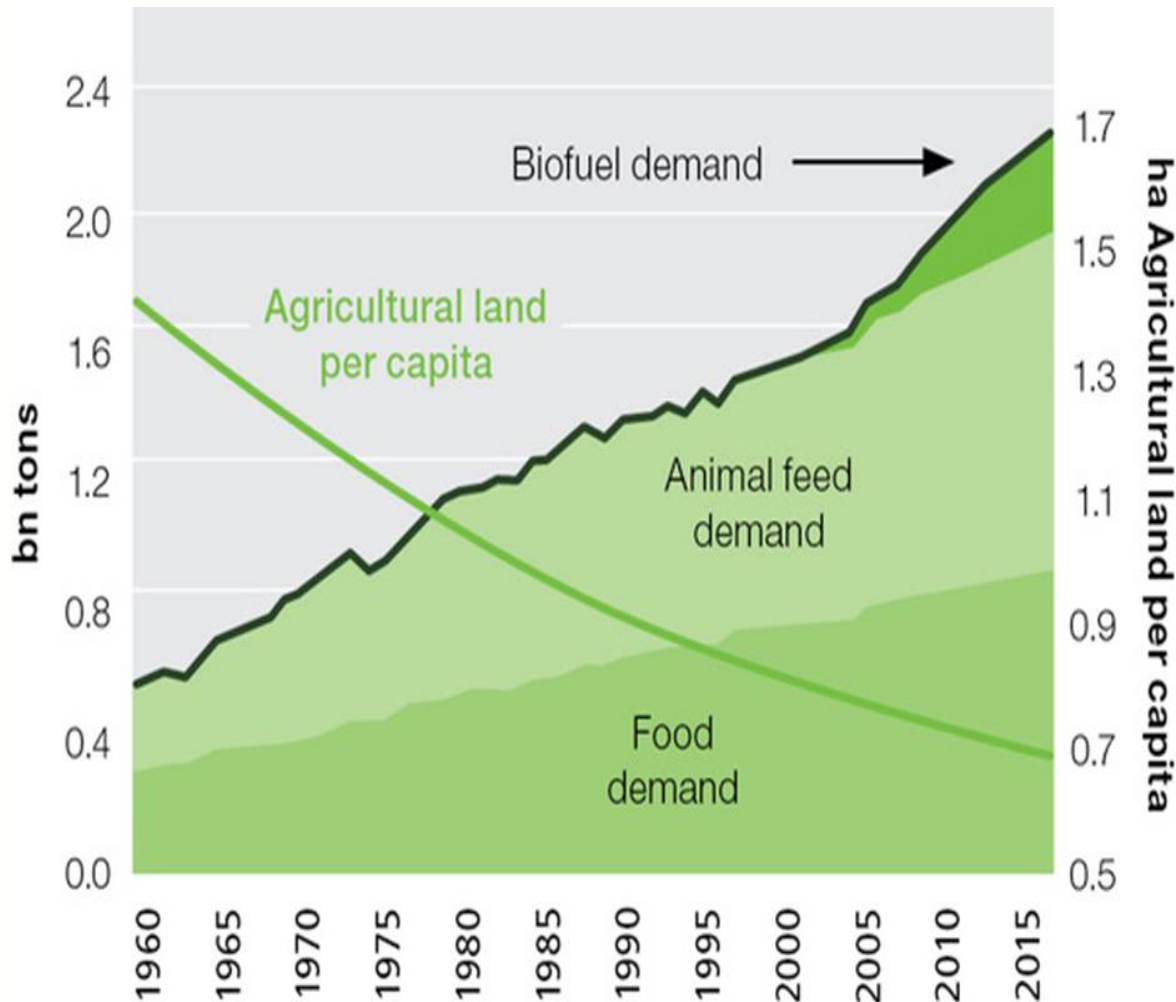
IFPRI 2016 Global Food Policy Report



What are the constraints on our food system?

WWF report

Demand on, and availability of, agricultural land





Reduced biodiversity = reduced ecosystem services



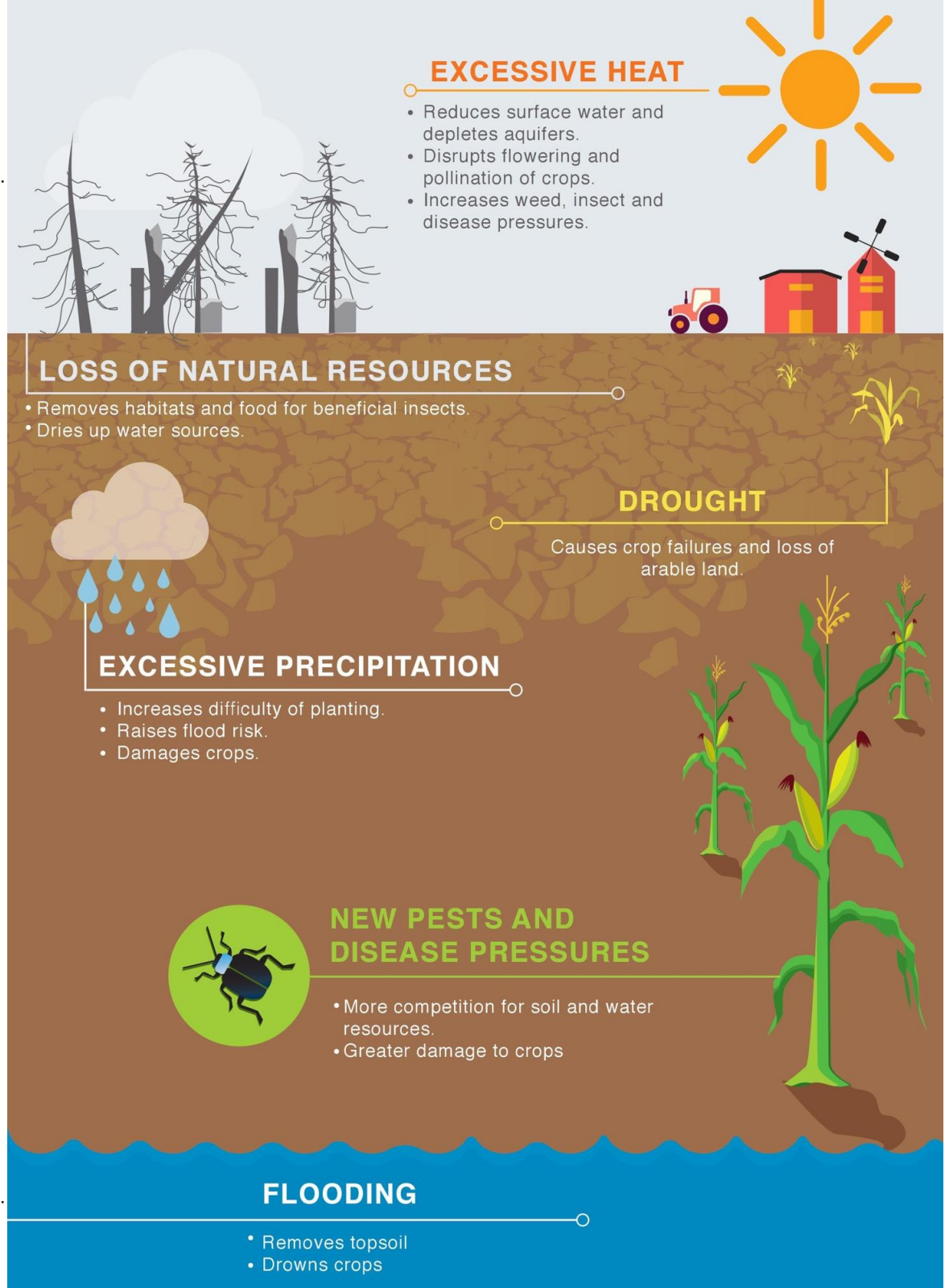
Agriculture a major
emitter of greenhouse
gases



WRI report

Impact of climate change on food production

CropLife Latin America



IMPACTS OF CLIMATE CHANGE

By **2030**, nine out of 10 of the major crops will experience reduced or stagnant growth rates, while average prices will increase dramatically as a result, at least in part, due to climate change.



MAIZE

12%

GROWTH RATE
DECREASE

90%

PRICE
INCREASE



RICE

23%

GROWTH RATE
DECREASE

89%

PRICE
INCREASE



WHEAT

13%

GROWTH RATE
DECREASE

75%

PRICE
INCREASE



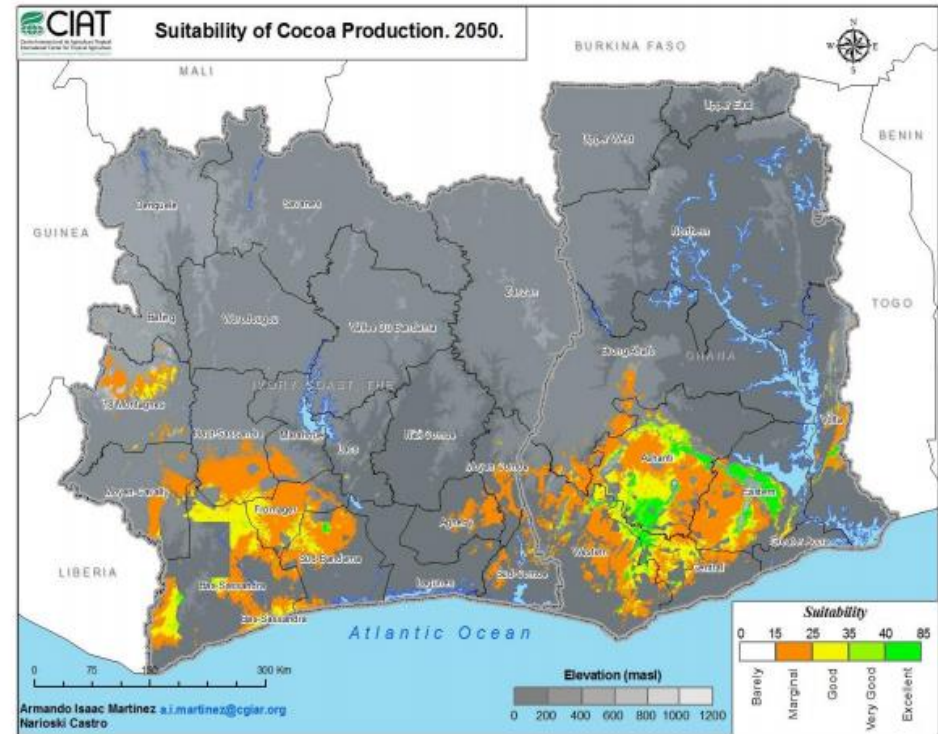
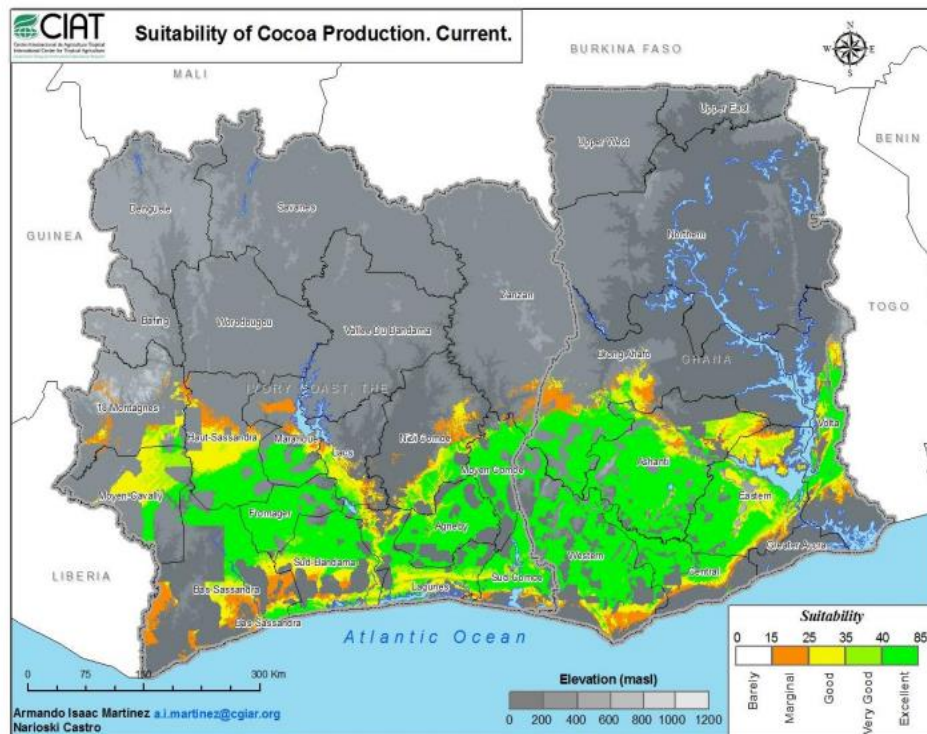
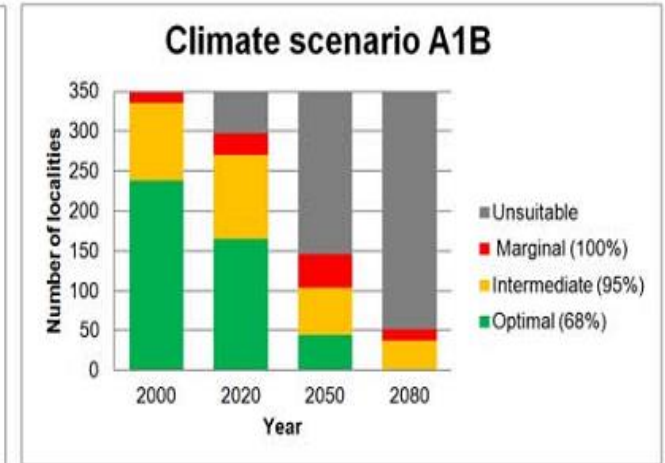
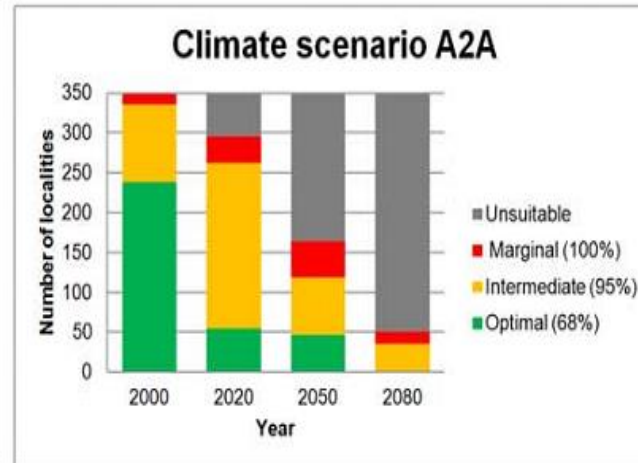
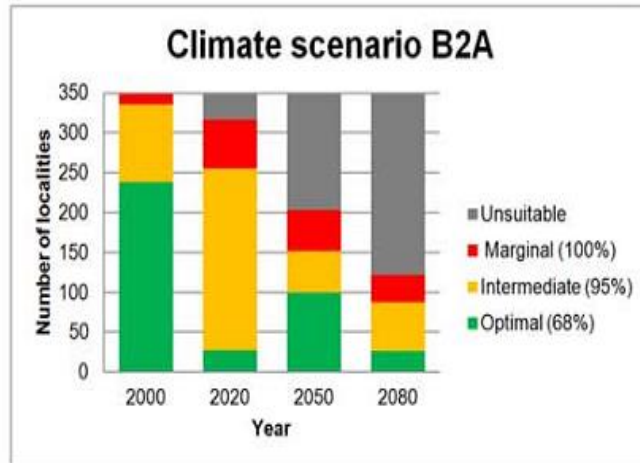
OTHER CROPS

8%

GROWTH RATE
DECREASE

83%

PRICE
INCREASE



Secure sustainable, resilient and healthy food supplies for all

- Sustainable food production
- Resilient supply chains
- Improved consumption and nutrition

