The Global food System: What are the challenges?

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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*
Securing sustainable, resilient & healthy food supplies

What are the constraints on our food system?

WWF report
Demand on, and availability of, agricultural land

- Biofuel demand
- Animal feed demand
- Food demand
- Agricultural land per capita
- Land required to feed 1 person for 1 year
- Vegan: 1/6th acre
- Vegetarian: 3x as much
- Omnivore: 18x as much
Reduced biodiversity = reduced ecosystem services
Agriculture a major emitter of greenhouse gases
Impact of climate change on food production

CropLife Latin America
Securing sustainable, resilient & healthy food supplies

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% decrease in growth rate, 90% increase in price
- **Rice**: 23% decrease in growth rate, 89% increase in price
- **Wheat**: 13% decrease in growth rate, 75% increase in price
- **Other Crops**: 8% decrease in growth rate, 83% increase in price
Securing sustainable, resilient & healthy food supplies
Secure sustainable, resilient and healthy food supplies for all

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