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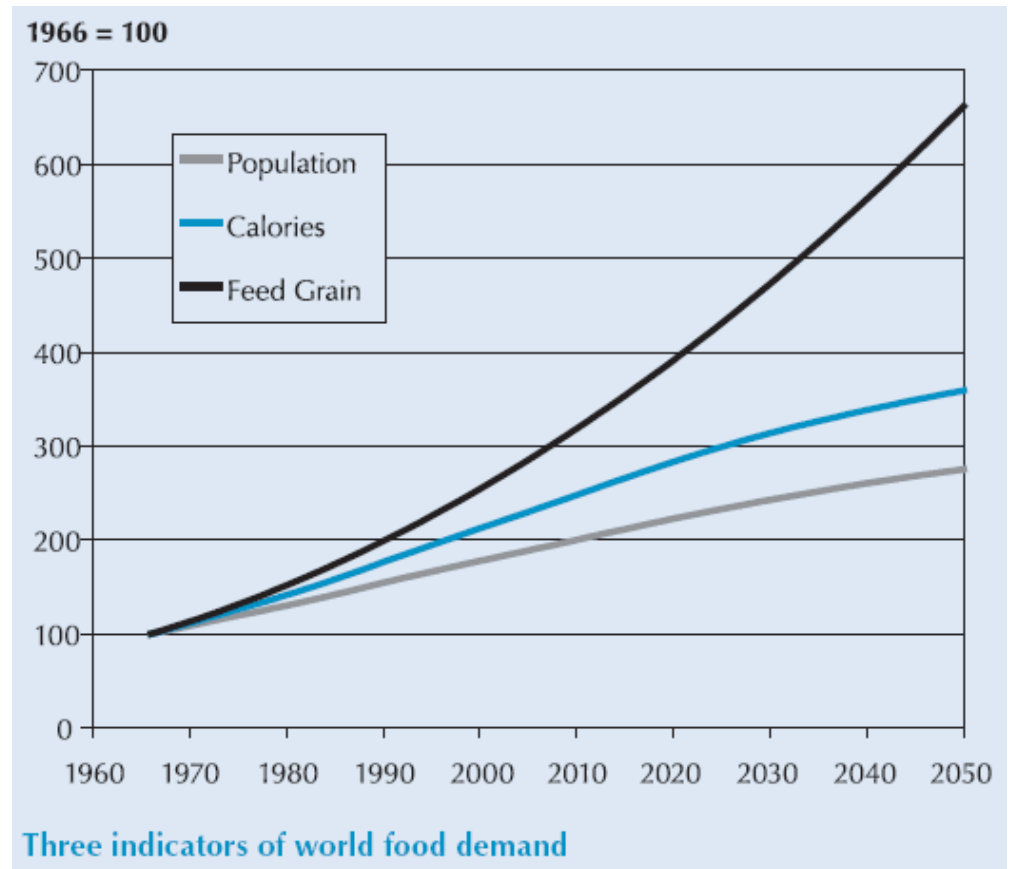
Challenge

By 2050, the population is expected to grow to **9.6 Billion people.** Increases in consumption coupled with the stresses of climate change will lead to **increased pressure on our natural resource base.**



Growing Population and Increasing Food Demand

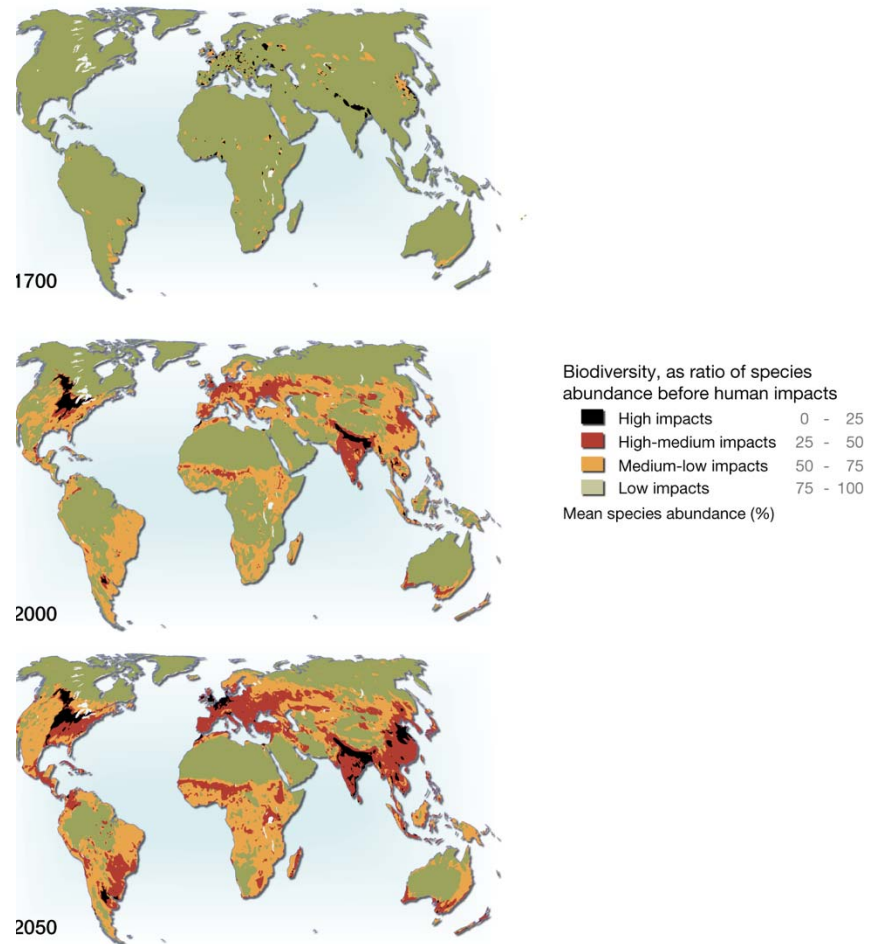
Due to a growing population and changes in consumption, it is projected that **food production will need to double by 2050.**



Source: Iowa State University

Increasing pressure on natural habitats

Global biodiversity will decrease with continued agricultural expansion, pollution, climate change and infrastructure development.



Source: GLOBIO; Alkemade et al., 2009

Increasing Severe Weather Events

2010 Floods in Australia



Credit: AP Photo/Anthony Skerman

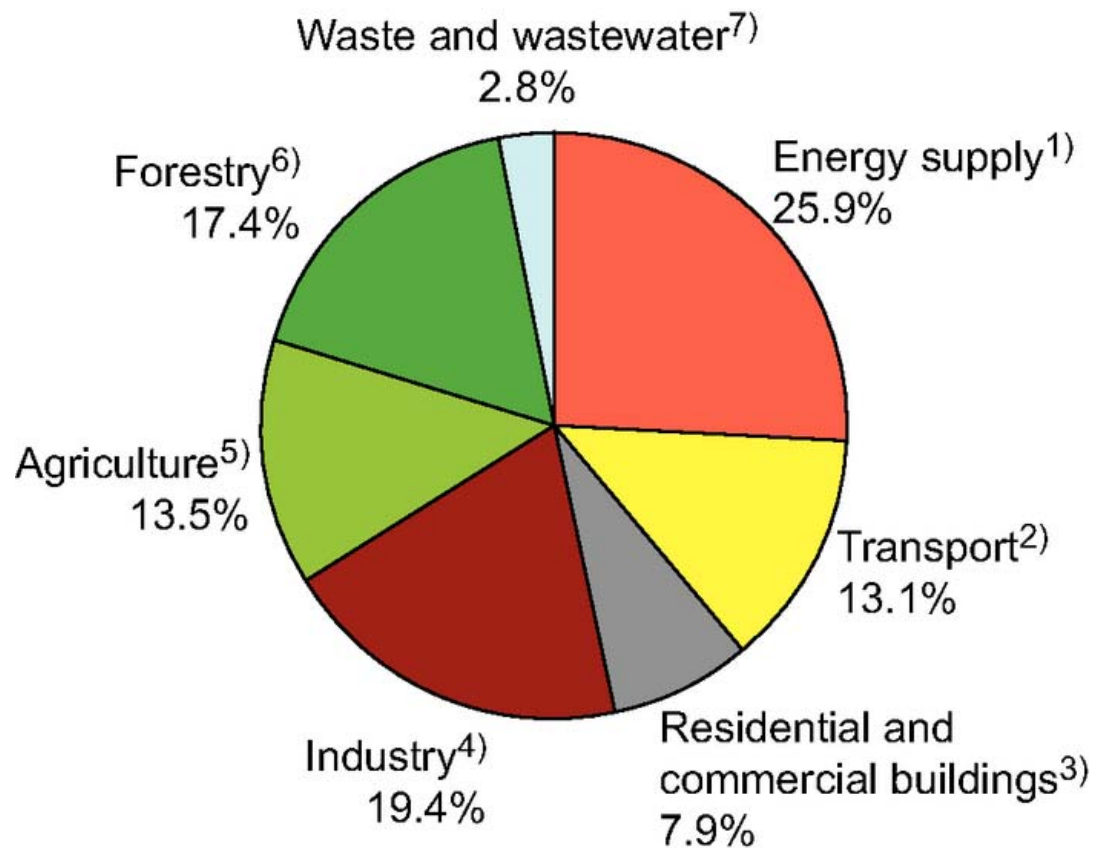
2011 Drought in China



Credit: New York Times

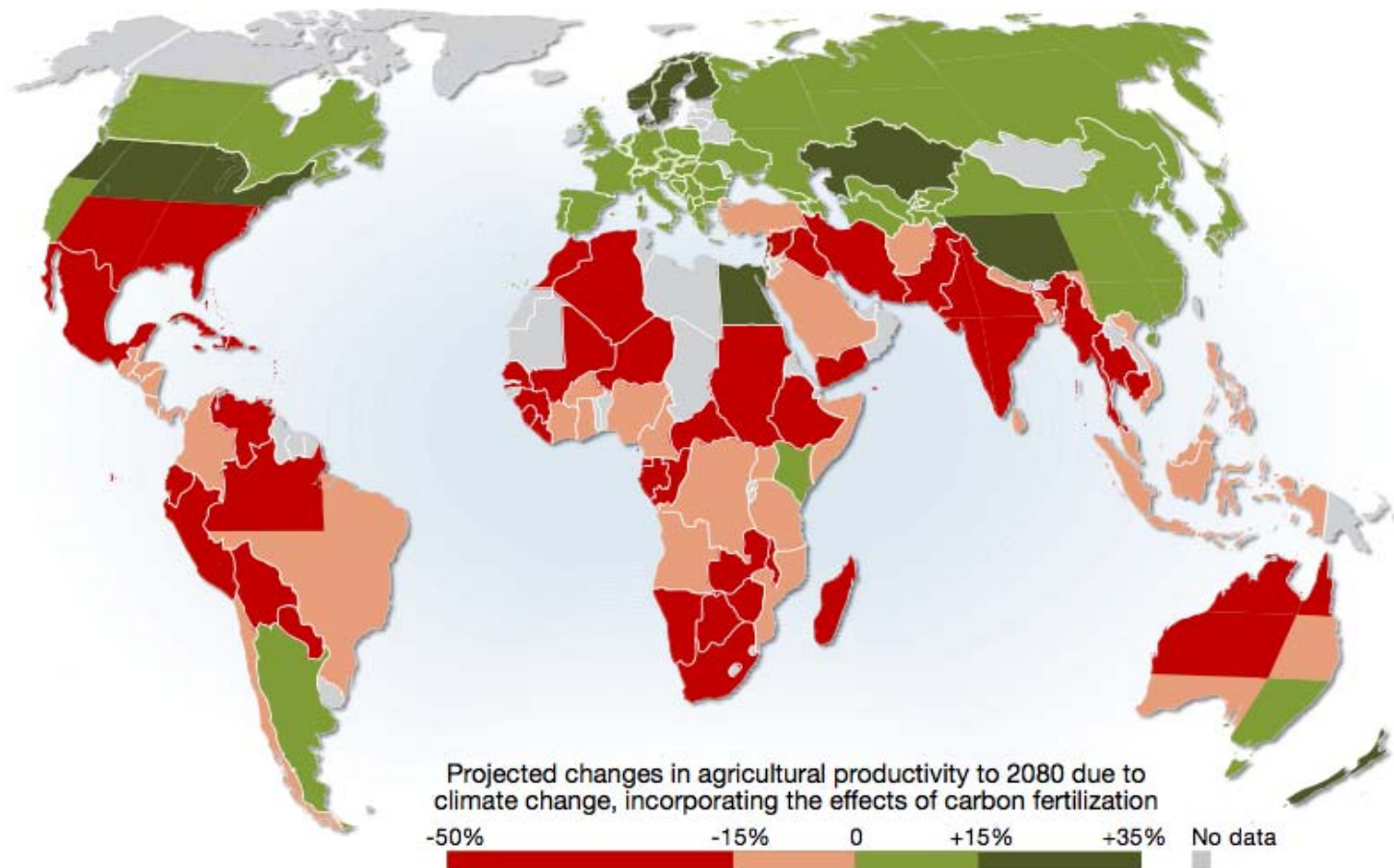
Agriculture, Forestry affect Climate Change

Combined,
Agriculture and
Forestry are
responsible for
more than 30%
of all GHG
emissions.



Source: IPCC, 2007

Agriculture will be effected by climate change



Projected changes in agricultural productivity
to 2080 due to climate change

Source: <http://www.grida.no/publications/rr/food-crisis/>

Agriculture, Forestry and Conservation Provide Solutions

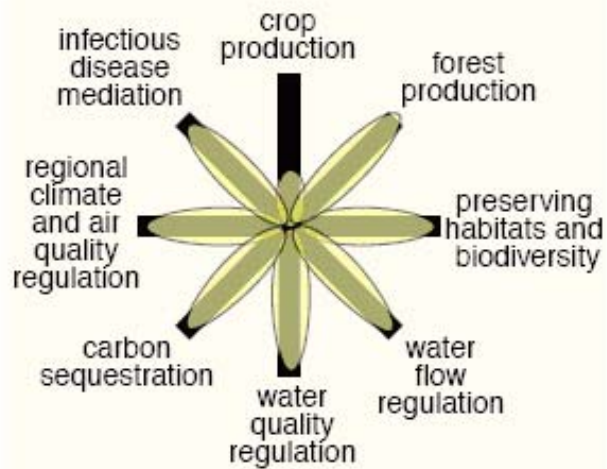
- A new, shared vision is urgently needed for higher efficiency, productivity and profitability in agriculture and forestry—at both large and small scales—that supports enhanced conservation of terrestrial, freshwater, and marine ecosystems.

Solutions from the Land Vision

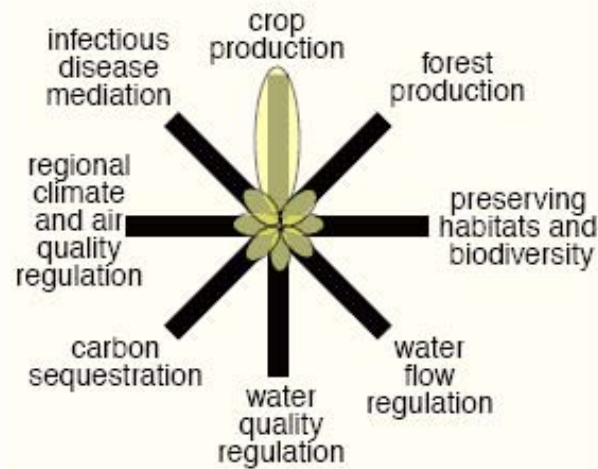
- **By 2050, agricultural systems and forests can be simultaneously managed to:**
 - satisfy domestic and global demand for safe, abundant and affordable food, feed, fuel, and fiber;
 - support economic growth and sustainable development; reduce hunger and malnutrition;
 - improve soil, water and air quality; enhance biodiversity and ensure ecosystem health, including preserving habitats;
 - and deliver mitigation and adaptation solutions to mounting global warming challenges.



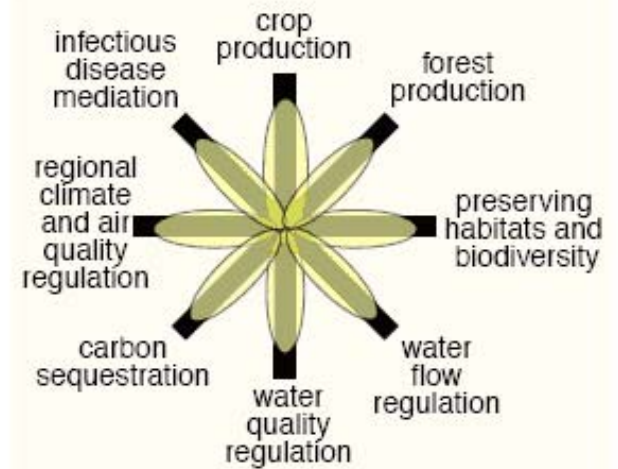
Integrated Land Management



natural ecosystem



intensive cropland



cropland with restored ecosystem services

Food, Feed, Fiber and Fuel

- Integration of agriculture, forestry and conservation will ensure increases in productivity, and optimization of natural resources to meet the multiple demands for agriculture and forestry products like food, feed, fiber and fuel.



Improve Environmental Quality



- Increases in productivity reduce pressure on natural habitats from agricultural expansion.
- Conservation practices on the managed landscape can improve soil, air and water quality.

Resilience to Climate Change

- Mitigating climate change through soil carbon sequestration, also improves soil health, increases productivity, reduces input costs and reduces labor, allowing communities to be more adaptive and more resilient to dealing with the stresses of droughts, floods, and unpredictable weather patterns.



Reaching the SFL Vision

- In the short term, we need to promote integration, and implementation of the best solutions that we have.
- In the long term, we need appropriate policies, investments, research and development, markets and measurement tools in place in order to ensure that resources are optimized – **we have to produce more with less.**



Action Plan



- **Phase One** – Initiate a Dialogue (2009 to 2010)
- **Phase Two** – Build a *roadmap* for achieving the vision (2011)
- **Phase Three** – Engage the Global Community (2012)



Work Groups

- Overarching Policies to Extend Services from the Land
- Research, Development and Knowledge Sharing
- Markets to Generate Solutions from the Land
- Monitoring Progress and Measuring Success



Path Forward

- Solutions from the Land provides an opportunity for the United States to have a coordinated message, and to then actively engage in global forums where sustainable land management strategies are being implemented and explored.



Questions?

For additional information visit our website:

www.SFLdialogue.net

Or Contact:

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