

Finding Solutions to Our Extinction and Climate Change Crisis

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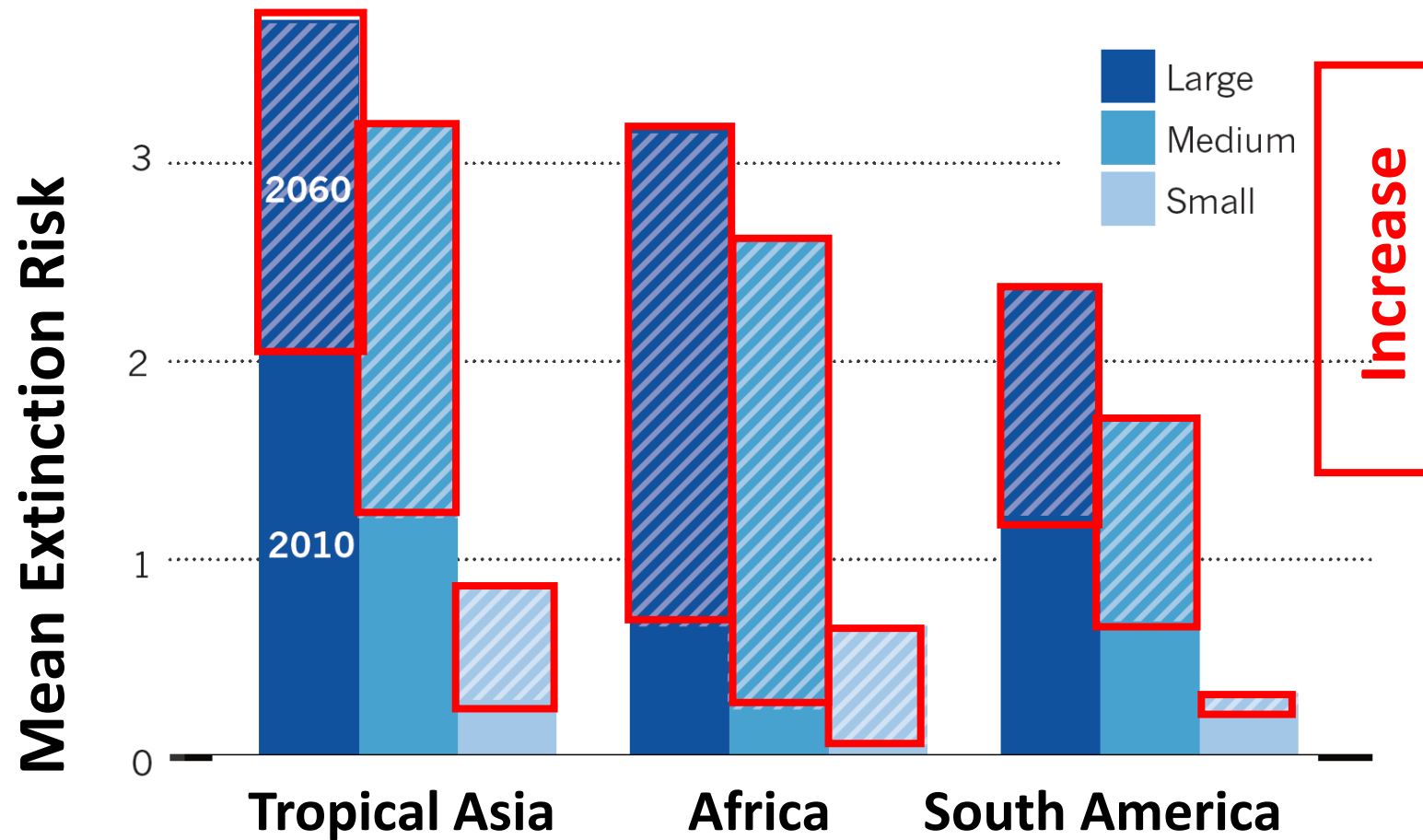
Species Extinctions

Deforestation
for Crop Land
Or Pasture



Agricultural
Land Clearing
Causes
Extinctions
By Habitat
Destruction
And
Fragmentation

Unless Changed, Agriculture Will Cause a Major Global Extinction Event



Agriculture Emits 30% of Global Greenhouse Gas Emissions

1. Agricultural Land Clearing
2. Livestock
3. Nitrogen Fertilizer (N₂O)
4. Fuel Use by Farmers

Agricultural GHG Emissions Are Projected To Increase 80% By 2060

(Tilman & Clark. 2014 *Nature*)

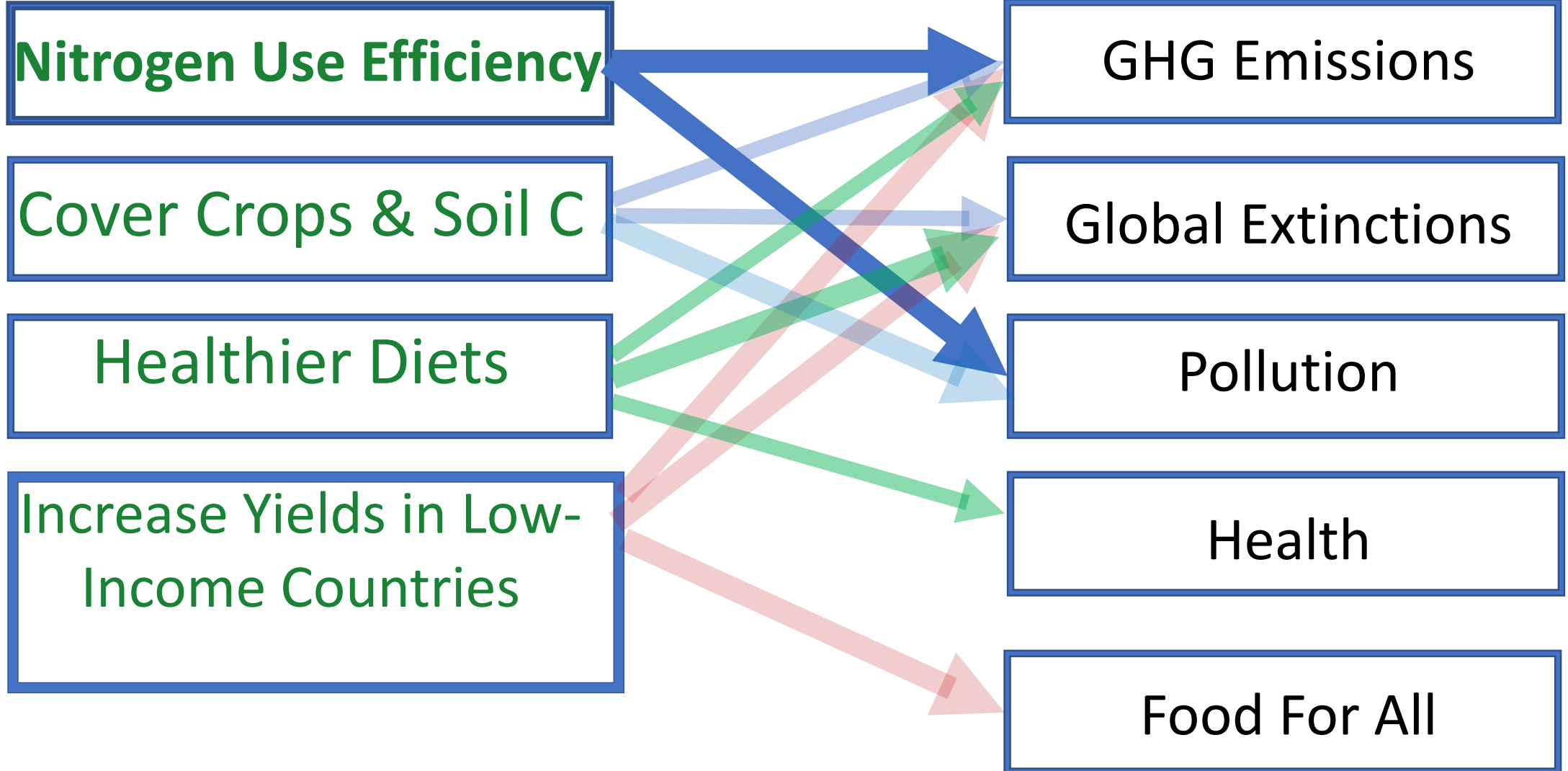
Successful Solutions

- **A solution must be understood widely by people, businesses and politicians**
- **A solution will have benefits and costs. They must be viewed as being fair and just.**
- **A solution that has large benefits and small costs is more easily adopted.**
- **A solution is more easily adopted if it compensates those who bare its costs.**

Solutions

for these

Problems



Task: Earn the Trust of Farmers

Solutions

for these

Problems

Nitrogen Use Efficiency

Cover Crops & Soil C

Healthier Diets

Increase Yields in Low-Income Countries

GHG Emissions

Global Extinctions

Pollution

Health

Food For All

Task: Convince People to Eat New Diets

Solutions

for these

Problems

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Cover Crops & Soil C

Healthier Diets

Increase Yields in Low-Income Countries

GHG Emissions

Global Extinctions

Pollution

Health

Food For All

Task: Convince Governments to Use Foreign Aide

**We Will Solve the Climate and
Extinction Problems**

**How? With Optimism
Creativity
and Understanding**