WHAT WE IMAGINE
WHAT WE REALLY WANT
WHAT’S FORECAST

Projected Population Growth (in billions)

9.6 billion people by 2050


Sources: http://ow.ly/rpIMN
WHAT’S FORECAST

69% Required increase in food calories to feed 9.6 billion people by 2050

WORLD RESOURCES INSTITUTE

Sources: http://ow.ly/rpfMN
Foodprints by Diet Type: t CO₂e/person

<table>
<thead>
<tr>
<th>Diet Type</th>
<th>CO₂e (t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meat Lover</td>
<td>3.3</td>
</tr>
<tr>
<td>Average</td>
<td>2.5</td>
</tr>
<tr>
<td>No Beef</td>
<td>1.9</td>
</tr>
<tr>
<td>Vegetarian</td>
<td>1.7</td>
</tr>
<tr>
<td>Vegan</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Note: All estimates based on average food production emissions for the US. Footprints include emissions from supply chain losses, consumer waste and consumption. Each of the four example diets is based on 2,600 kcal of food consumed per day, which in the US equates to around 3,900 kcal of supplied food.

Sources: ERS/USDA, various LCA and EIO-LCA data

Infinite Futures
Foresight Research and Training

CHALLENGES
URBANIZATION
SOIL, WATER, OCEANS: CONTAMINATED, STRESSED, ERODED, CORAL DESTRUCTION
GLOBAL CLIMATE CHANGE

Guardian graphic | Source: NASA
Future Scenarios

Emissions
- HIGH
- NONE

Adaptation

Key
Vulnerability to food insecurity

LOW
HIGH

2080s
A “dangerous geopolitics of food scarcity” is emerging in which individual countries, acting in their narrowly defined self-interest, reinforce the trends causing global food security to deteriorate. Wheat-exporting countries like Russia and Argentina, for example, attempted to counter domestic food price rises by limiting or banning exports in 2007. 

Lester Brown, Worldwatch Institute

China Post reports that China's government has bought soybeans, rapeseed, corn, wheat and rice from farmers, to be stored in silos across the country for emergency use and to prevent excessive price fluctuations.

FOOD PROTECTIONISM
HIGH-TECH FOOD FUTURES
SMART CITIES
Scientists breed glow-in-the-dark rabbits

Researchers from the universities of Istanbul and Hawaii hope the technique can lead to new ways to produce medicines.

The glowing effect was created by injecting jellyfish DNA into the mother rabbit's embryos and reinserting these into the mother's womb. Photograph: University of Hawaii
IN VITRO MEAT & SYNTHETIC SEEDS
CITIES GROW FOOD
HI-TOUCH FOOD* FUTURES
RECLAIMING ROOFTOPS
RECLAIMING SUBURBS
FARMS AS BIO-FACTORIES
RURAL = AGRICULTURAL

SUBURBAN = MIDDLE CLASS SPRAWL

URBAN = BUSINESS + INDUSTRIAL

RURAL = BIO-MANUFACTURING

SUBURBAN = PERSONAL AGRICULTURE

URBAN = GROWN INFRASTRUCTURE

BLURRED BOUNDARIES
OR, WE DO NOTHING
... BUT WE ARE ALL MORE CREATIVE THAN THAT
...may you see the future you desire.

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The Future(s) of Food
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Wednesday, 13 July 2016
Dr. Wendy L Schultz