# Facing the Future – Food security in a resource-stressed world

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# The Organic Movement – relevant and powerful for future

**Building attitudes & beliefs of consumers** 

Knowledge of future land management, high yield-steady state, biodiversity, and quality of life.

Relevance to poor and vulnerable?



# Global challenges have never been greater

Climate Change: global temperature is on course to rise by 3.5°C

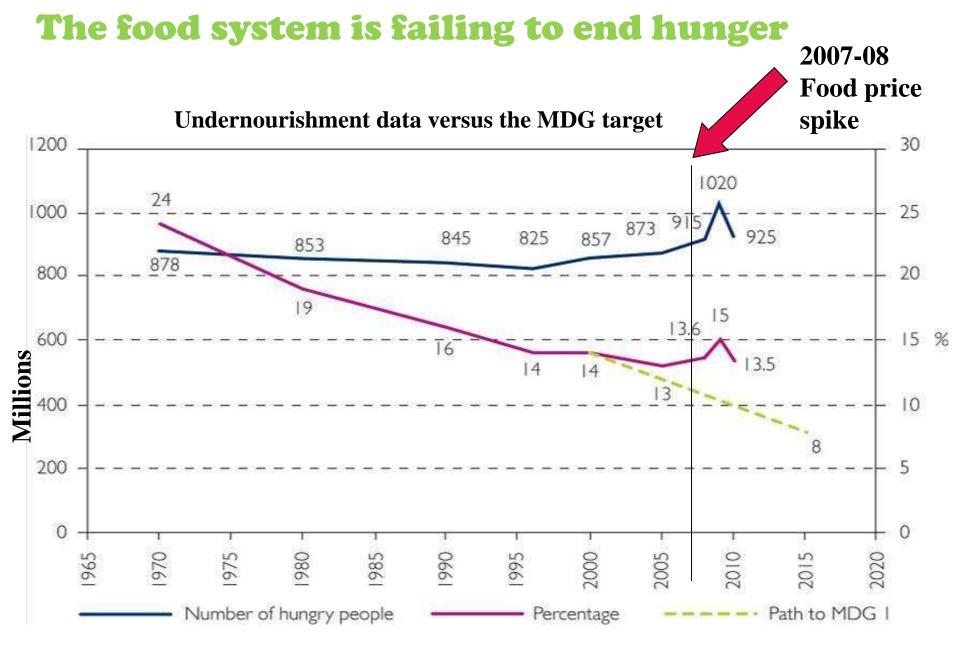
Water: 3 billion people live in areas where demand outstrips supply

Food Prices: prices are set to rise by 120-180% by 2030

**Agricultural Production:** amount of arable land per head has halved since 1960

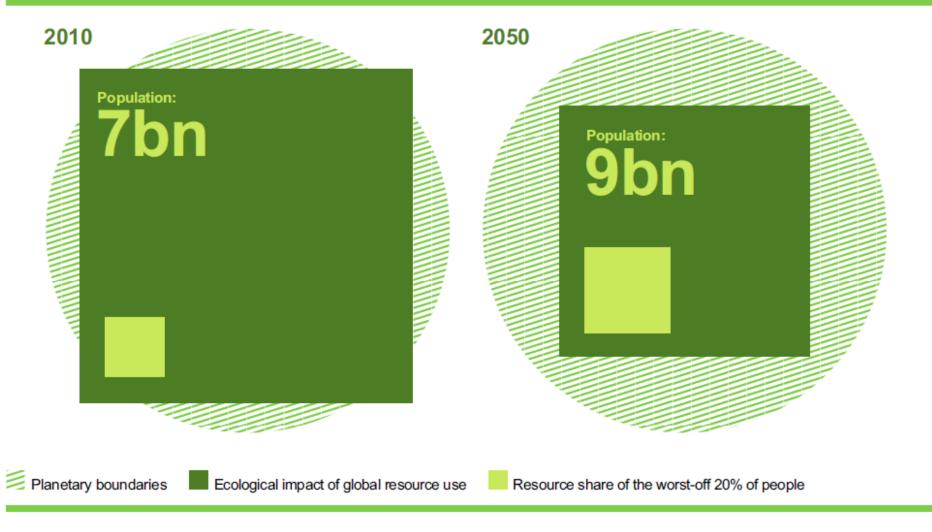
Land & Water: up to 200m ha of land have been sold, leased or licensed, largely in Africa & mostly to international investors in 1000s of secretive deals since 2001

**Energy:** Oil price volatility and government biofuels subsidies totalled \$20 billion in 2009



Source: Oxfam (2010) Data cited from FAO Hunger Statistics (from 1969 to 2006); UN (2009)

Figure 2: The challenge of increasing equity within ecological limits



# Would eradicating poverty now put planetary boundaries under stress?

### Food:

Providing the additional calories needed by the 13 per cent of the world's population facing hunger would require just 1 per cent of the current global food supply.

### **Energy:**

Bringing electricity to the 19 per cent of the world's population who currently lack it could be achieved with less than a 1 per cent increase in global CO<sub>2</sub> emissions.

#### Income:

Ending income poverty for the 21 per cent of the global population who live on less than \$1.25 a day would require just 0.2 per cent of global income.

## Economic growth and hunger - 3 examples

### India

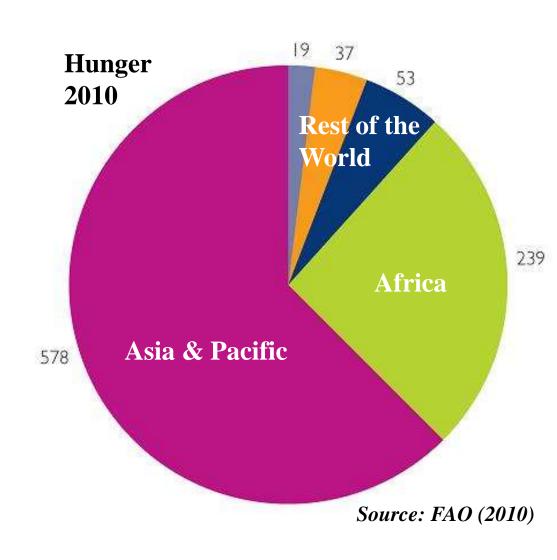
- Economic growth: fast
- Hunger levels: increased

### **Brazil**

- Economic growth: modest
- Hunger levels: fast decrease

#### Vietnam

- Economic growth: significant
- Hunger levels: halved





Ngu La Commune in Tra Vinh Province, Viet Nam

# **Reduce Shocks**

- Climate mitigation: 1.5°C
   vs 3.5°C
- Biofuel mandates and subsidies
- Speculation short and long term
- Export bans
- Food reserves
- Land and water grabs and women's title

### **Resilience to Shocks**

- Private and public investment in adaptation and productivity of smallholders
- Innovative finance
- Technology development (husbandry and genome)
- Resource efficient farming
- Social protection

# Challenges for the European Organic Movement

**Inward – outward looking** 

**Influence and Alliances** 

**Genetic modification** 

