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Sustainable Development from the Ground Up

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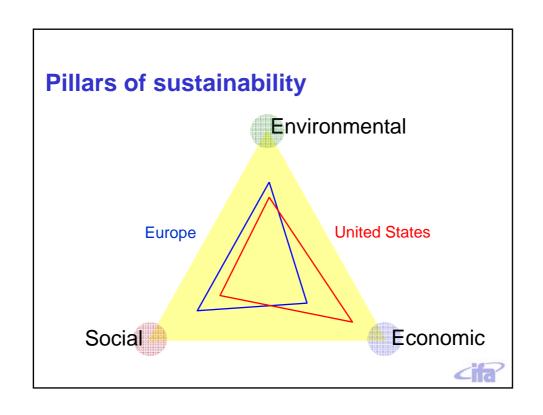


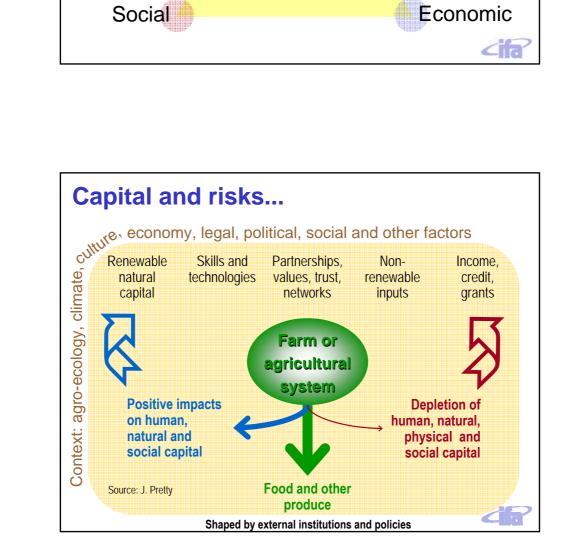
Defining sustainable development...

"Sustainable development... meets the needs of the present without compromising the ability of future generations to meet their own needs."

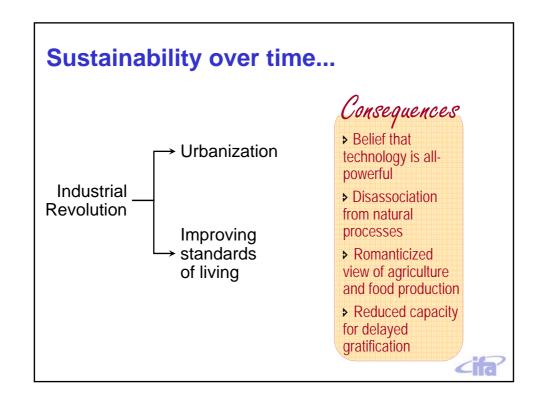
"Our Common Future"
The Brundtland Commission







Supporting the population		
in 2005 Asia	Population millions 3905	People per sq. km
Europe	728	32
Africa	906	30
Latin America and the Caribbean	561	27
North America (USA)	331	15 (31)
Source: United Nations Population Division		∠ifa



Definitions of food security...

- ✓ Food as a human right (no hunger)
- ✓ Avoiding dependence (territorial security)
- ✓ Non-contamination of the food chain
- ✓ High-quality food
- Subjective preferences for certain production processes (organic, fair trade, etc.)



W



Water

- •Agrochemicals in bodies of water
- Productivity gains through irrigation / water scarcity a brake on irrigation
- •Enhanced water use efficiency to save resources

A

Energy

- •Energy consumption for agricultural machinery and transport
- Bioenergy production
- •Climate change adaptation and mitigation

Health

- •Improved maternal health
- Enhanced nutrient intake
- •Globalization of animal diseases
- •Impacts of pesticides on health

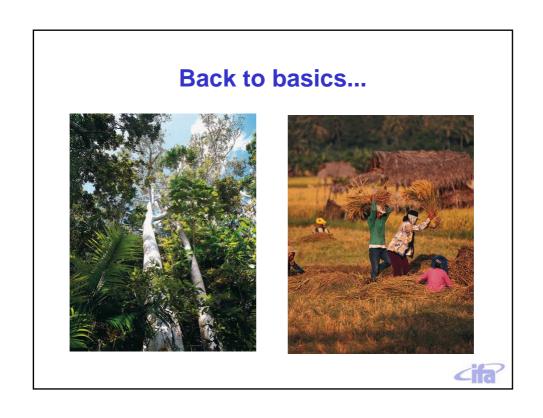
Biodiversity

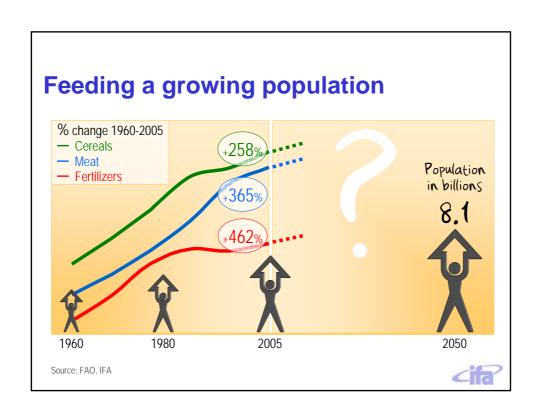
- •Dependence on landraces and genetic variety
- •Monoculture production fosters loss of variety
- On-farm habitats

Agriculture

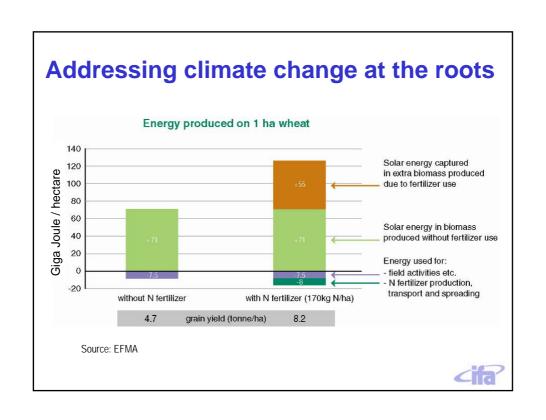
- Hunger and malnutrition
- Natural resource management
- •Infrastructure to build and institutions to reform
- Access to capital and markets











When water quality has nothing to do with water







Stemming the tide of desertification







Teeming with life





