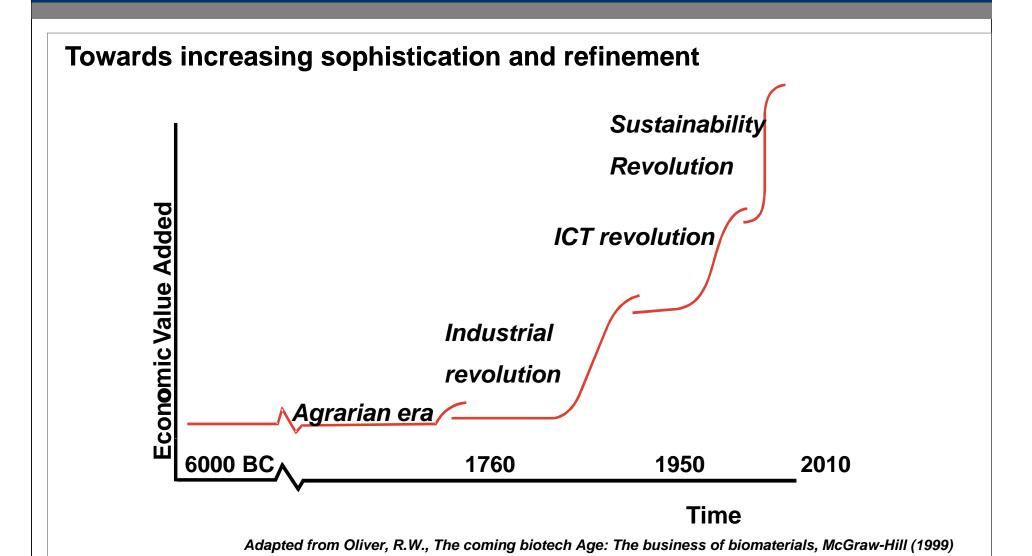
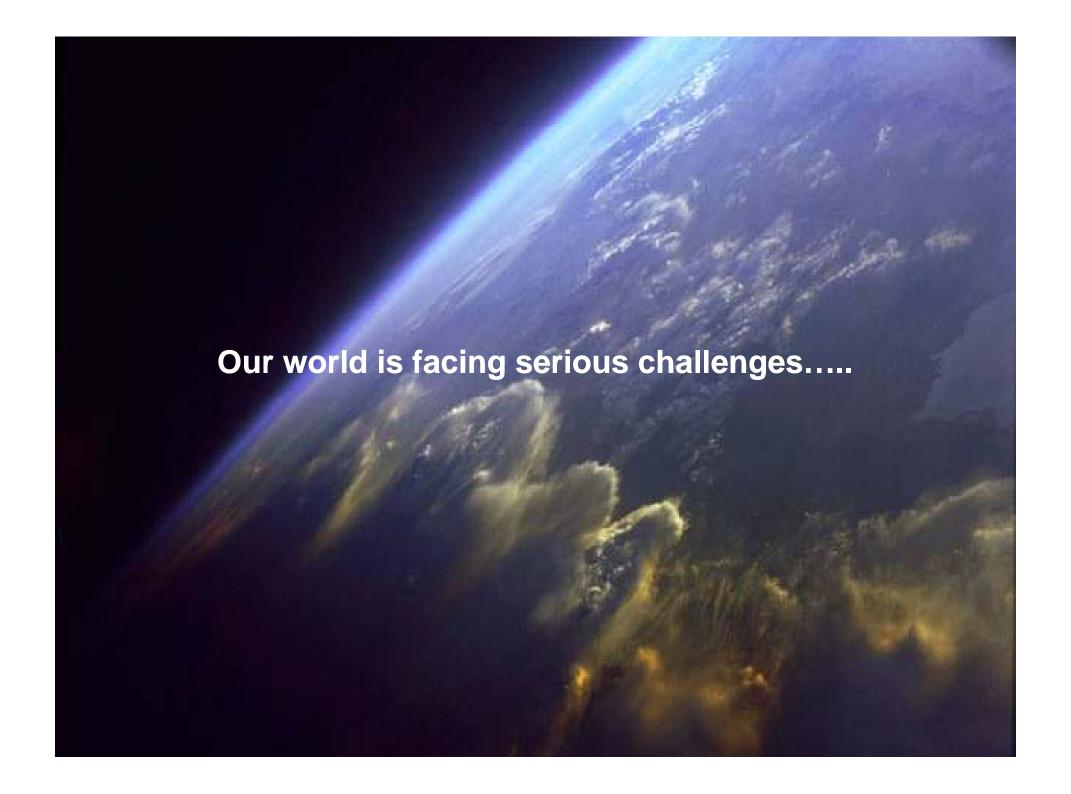
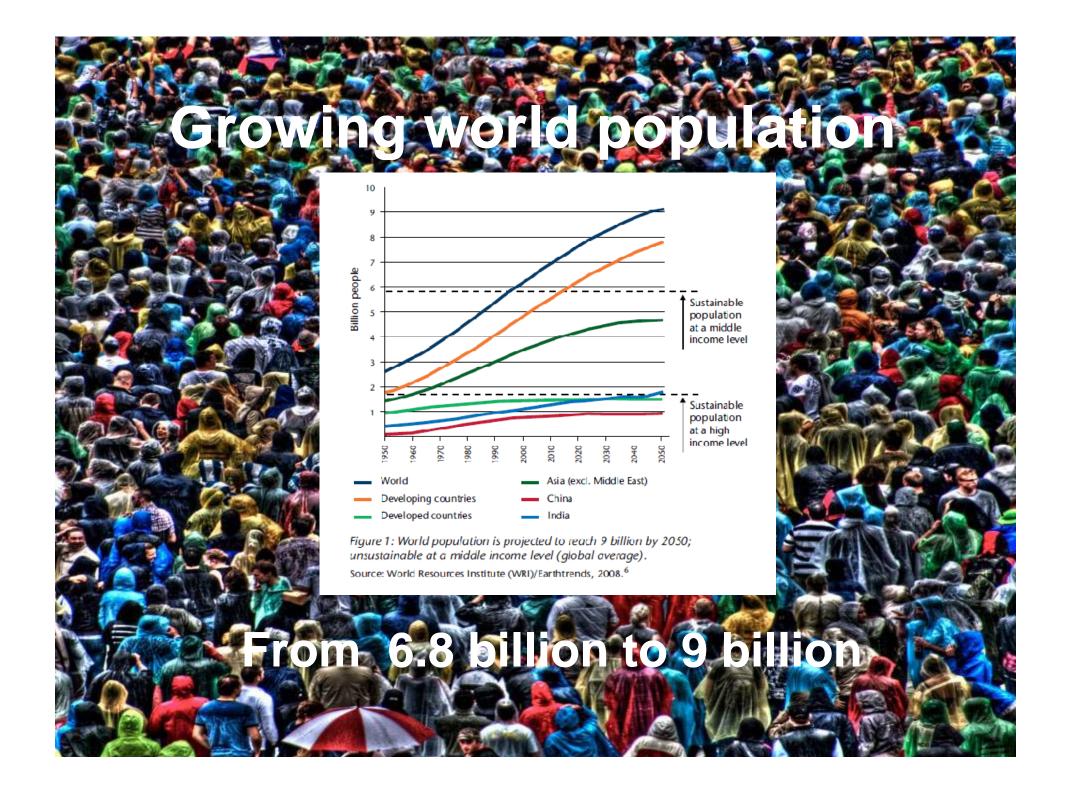


Max Planck: "A new way of thinking prevails, not because the supporters of the old way of thinking become convinced, but because they die.

The sustainability revolution



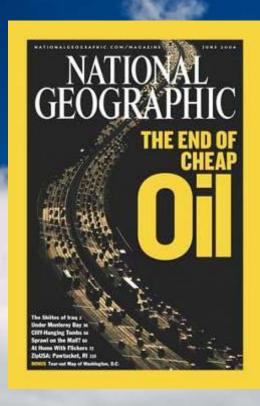


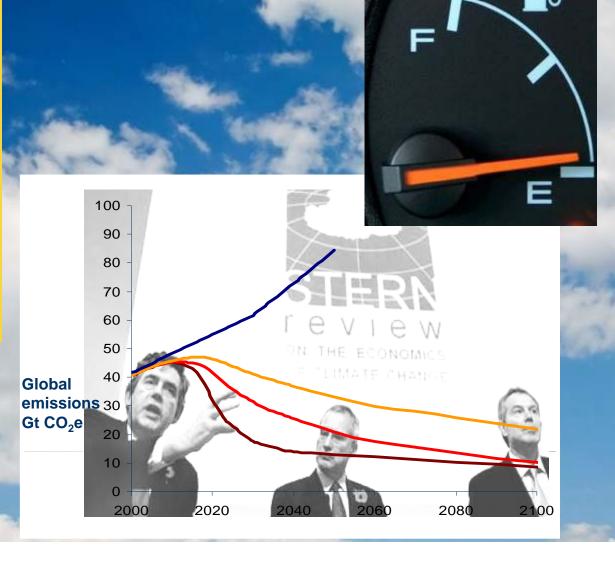


Resource constraints



Carbon constraints





Over Exploitation of Global Eco-System





- Water stress through pollution and overconsumption
- Increasing waste & persistent, bio-accumulating & toxic materials (PBTs)
- Climate change
- Biodiversity degradation







Reducing footprint while maintaining wealth

 If the current consumption patterns continue, we will need two globes by 2040

- The chemical industry reduces footprint down the value chain by 1:3 on average
- Without the chemical industry we could not live on the planet







Focus on Societal Needs, Pursuing social equity (People)



Care for the Environment

Pursuing environmental quality (Planet)



Exploring new ways of doing business Pursuing economic prosperity (Profit)

DSM's strategy 2010: based on four global trends

Societal trends

- Individualization and global networking
- > Population growth and ageing
- ➤ New approach of Health Care
- > Environmental awareness

Technology trends

- ➤ Biotechnology, synthetic biology
- Nanotechnology, supra-molecular chemistry
- ➤ Information technology
- Process Intensification and miniaturization

Climate and Energy

Health and Wellness

Functionality and Performance

Emerging Economies

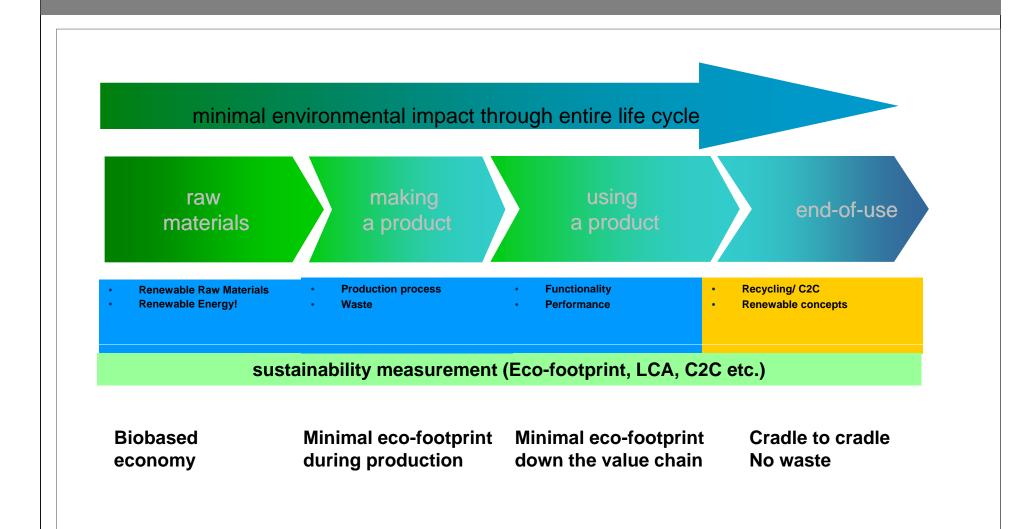




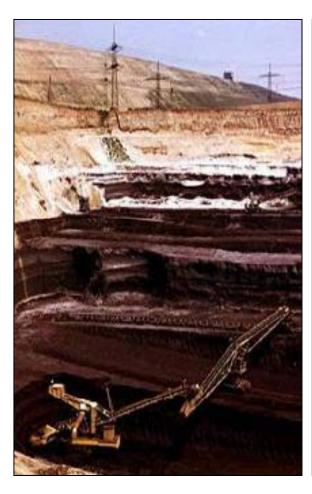




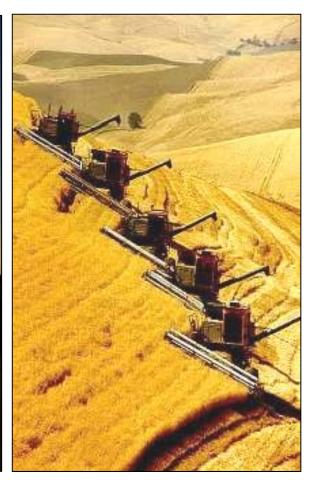




Towards a Renewable, BioBased Economy







Revolution from 'Oil to Bio'

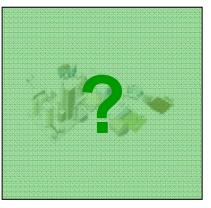


- *Oil-*refinery:
- Crude oil (finite) as feedstock
- Technology established
- Very efficient use of (limited) feedstock





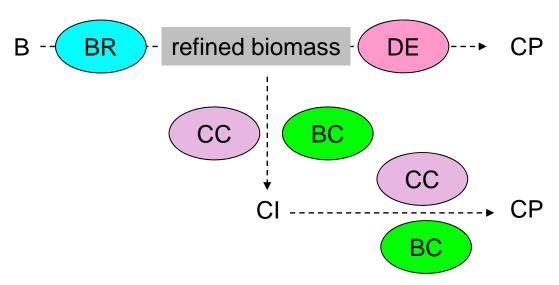
- *Bio-*refinery (1st generation):
- Starch / Sugar (renewable) as feedstock
- Technology established
- Food competition for some feedstocks

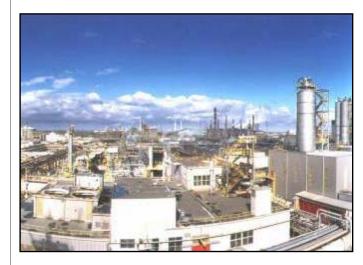


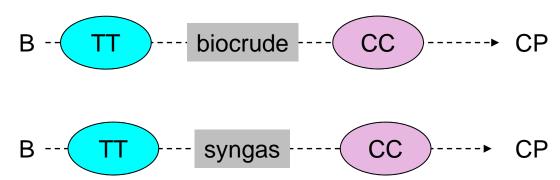
- *Bio-*refinery (2nd generation):
- Biomass (renewable) as input
- Logistics? Small scale or vicinity of harbor
- Technology integration (energy, chemistry and biotechnology) still in development











The combination of Chemical Synthesis and Biotechnology

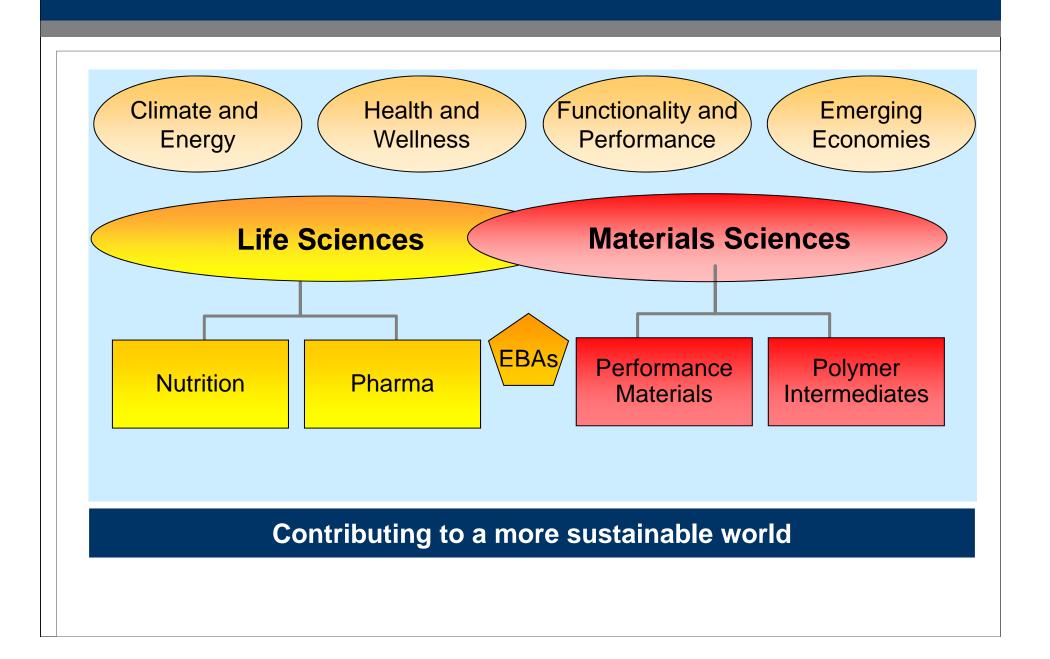


DSM, as a mid-sized company, active in Life Sciences and Materials Sciences, is ideally positioned to realize the synergy between the two fields. This creates the opportunity to play a special role in Bio-based building blocks



The synergy between Life Sciences and Materials Sciences

21



Innovating in response to change

Climate and Energy



Renewable sources for biomaterials



Biotechnology for 2nd generation biofuels

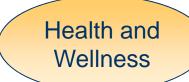


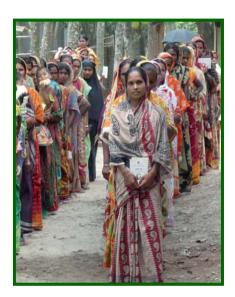
Improving eco footprint throughout value chain



~37% reduction of GHG emission

Discovering new relationships





DSM combats hidden hunger



Green routes for vitamins and pharmaceuticals



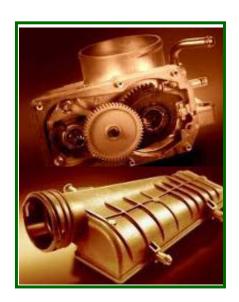
Rapid expansion in



Styrene free resins for Biomedical materials clean working environment

Achieving more with less

Functionality and Performance



Weight reduction in cars



Stronger and safer 'predator' nets



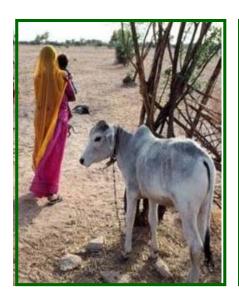
Miniaturization Halogen Free FR



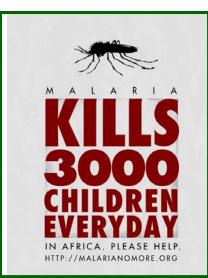
Biobased resins with low temp cure

Capturing new opportunities

Emerging Economies



Improving cattle feed Base of the Pyramid in India



Combating iron deficiency and malaria



DSM fights obesity a/o in Brazil



DSM Campus in China

DSM's mission is about 'creating brighter lives for people today and generations to come'. This mission is supported by DSM's core value, which is that its activities should contribute to a more sustainable world.

Achieving sustainability means simultaneously pursuing social equity, environmental quality and economic prosperity, in other words creating value on the three dimensions of People, Planet and Profit.

DSM was once again ranked the global number one in sustainability in the chemical sector of the Dow Jones Sustainability Index in 2009.









A+ rating

Sustainability is our core value