Metropolitan Food Security

link between

Market, Research and Agri-Food Technology



Metropolitan Food Security

Contents:

- Introduction GMV
- Performances, technology and products
- Ambitions, market led approach
- Innovations in cooperation, research and education
- Vision

The Netherlands as 'Food Technology'

Home country of world leading food companies Turnover 2010: EUR 68 billion in agri-food products



The Netherlands as 'Food Valley'

Home country of world leading companies in food technology Turn-over 2010: EUR 3,3 billion in processing equipment and research

(80% poultry, 70% cheese and > 50% potato processing systems)



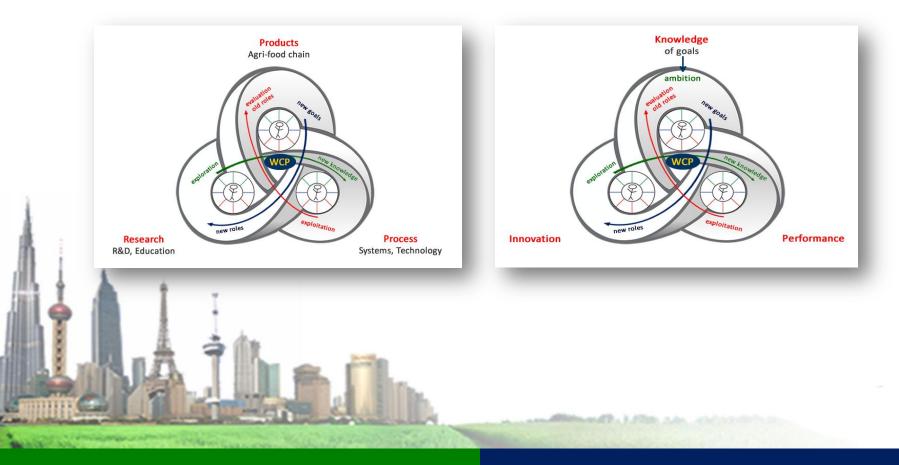
Road to Success:

- Ambition
- Innovation
- Performance





World-Class Performance (WCP)



World-class performance initiatives:

Positioning:

Center of excellence "Food & Flower", Metropolitan Food Security Food & Nutrition Delta - Food Valley – EUKP7 – Genomics – 9 Dutch Top Sectors

Research:

Food & Nutrition Delta Safety - Nutrition and Health - Sensory Science and Structure – Behavior

Education:

Platform AcadeMI – IO, SVML Association (Social) Innovation - ICT – Knowhow sharing

Food Safety and Security

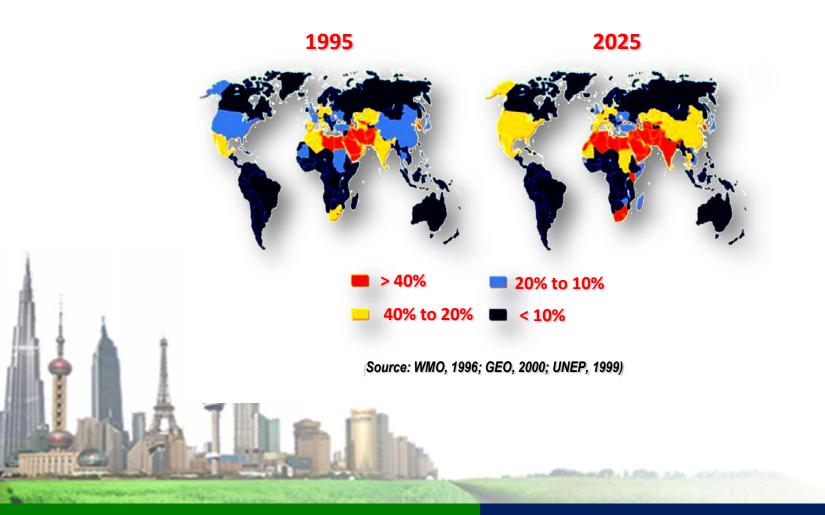
- Quantity and Quality
- Nutrition value and medicinal functions
- Poverty elimination and crop rotation
- Energy security and sustainability
- Natural disaster relief
- Legalization and control

Constrains in BRICS – and developing countries

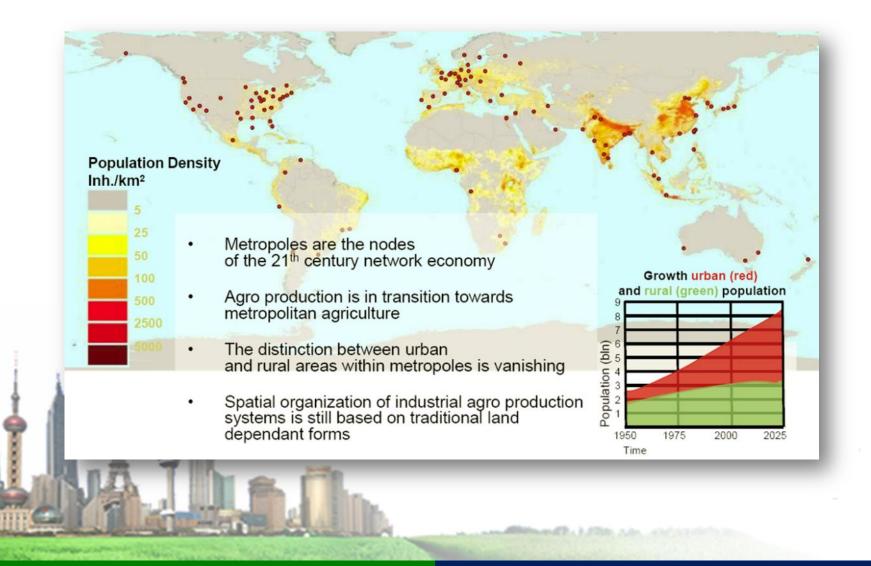
- Huge areas, low yields
- Breeding and extension of new varieties
- Seeds supply systems and certification
- Added value creation
- Logistics
- Chain quality control and management
- Demand and supply management

The (fresh) water stress

Withdrawal as a % of total

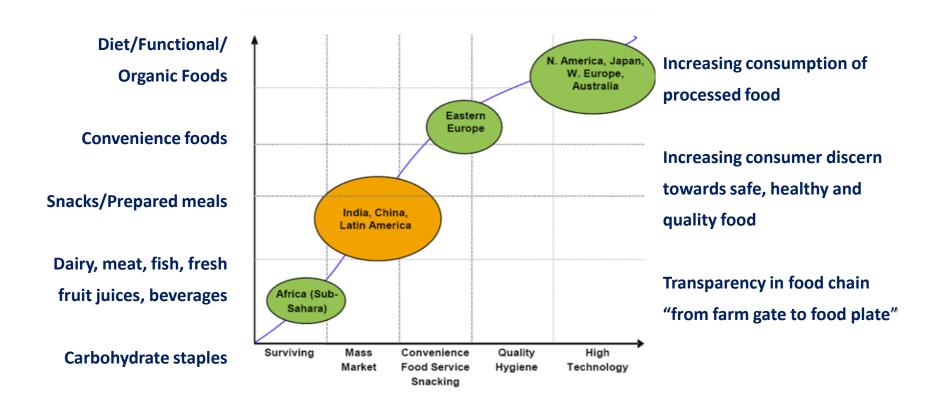


The world is urbanizing



Urban people have more purchasing power

shift in consumption basket



Diversification of demand in Metropoles from food to fashion to pharmaceuticals

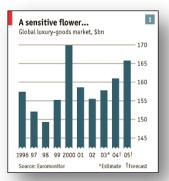


Energy and building Fuel, fibers

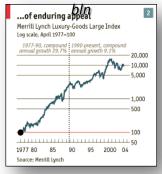
> **Food** Fodder, food crops, vegetables, fruits

Fashion Flowers, flavors, fragrances

Pharmaceuticals Functional foods, pharmaceuticals



World spending on luxury goods in 2005: US% 165



Which is a 100-fold increase between 1977 and 2005

Function of food

- WHAT Calories \rightarrow "experience" \rightarrow nutrition & health, variety
- WHEN Regular → grazing and snacking
- WHERE In-home → out-of-home
- WITH WHOM Social → individual
- HOW PREPARED
- From scratch \rightarrow ready-to-eat, heat and eat



Megatrends

In society, according to Wim Lageweg (MVO -2011)

Needing social cohesion (and safety)

- Especially older generation
- In more individualistic world

Increasing suspicion (decreasing authority)

- Especially young generation
- Towards: institutions, banks, large corporations





Megatrends

In society, according to Wim Lageweg (MVO -2011)

Needing "Roots and Wings" (and origin)

- Especially cultural "creatives", self determination
- Regional identify, interest in origin and process

Stressing sustainability

Especially awareness of scarcity

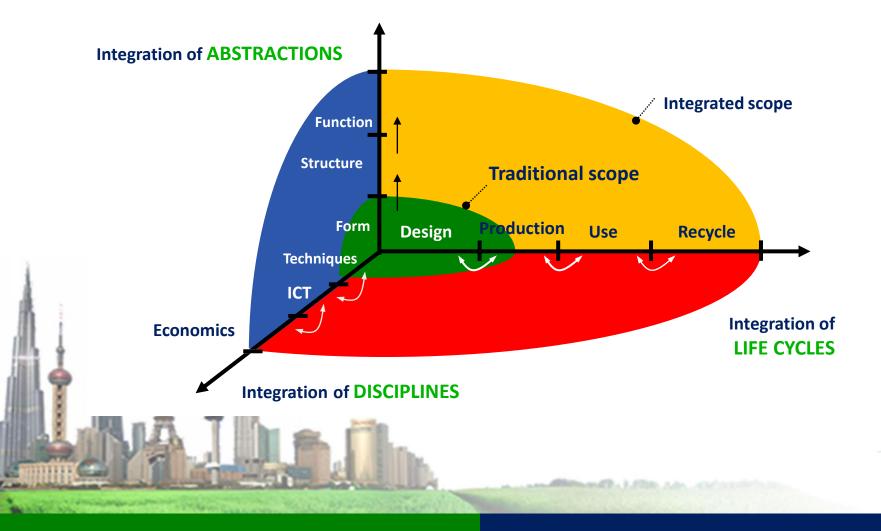
Increasing transparency

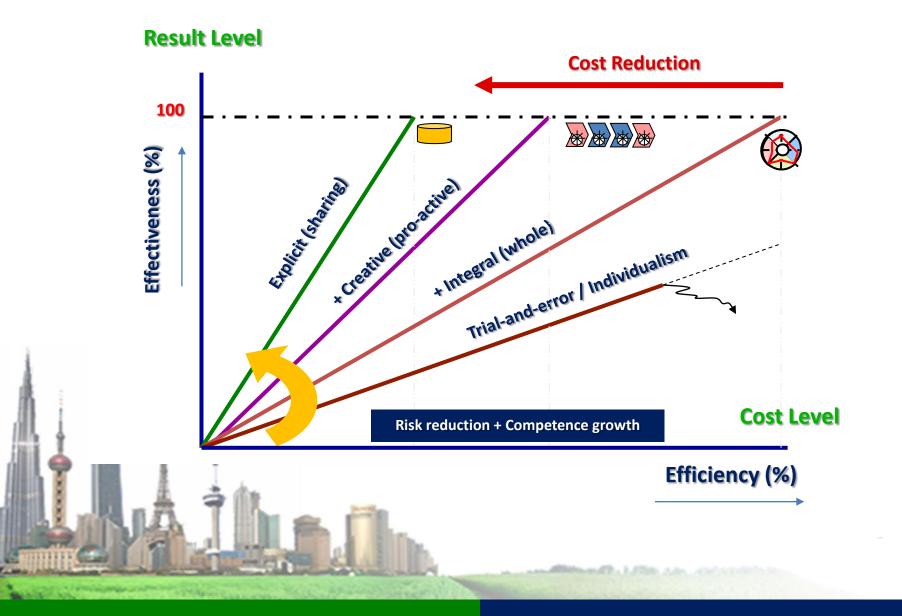
- Especially sharing knowledge
- Pressure on media, social media

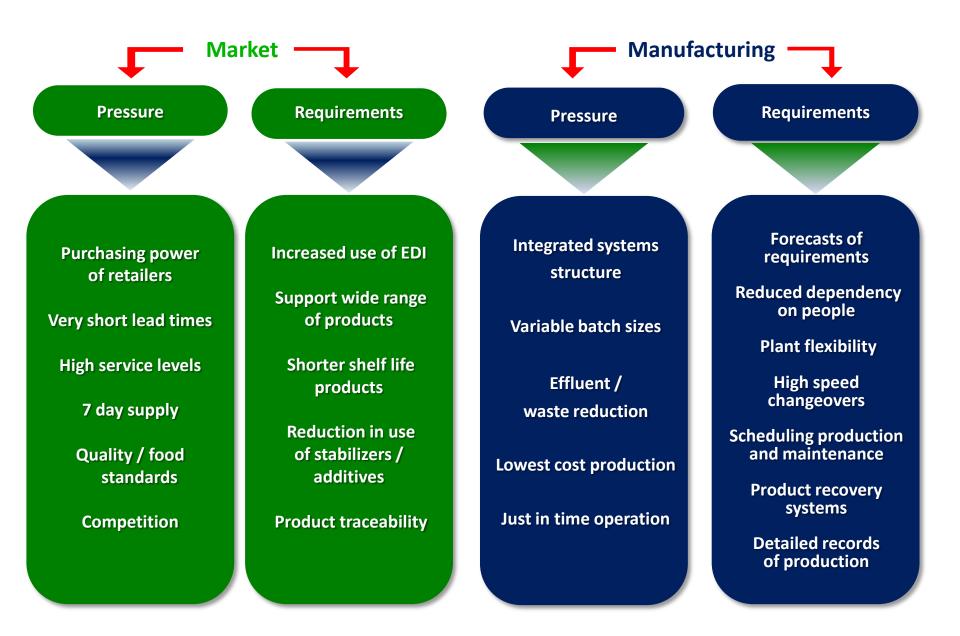




Integrated approach to product and process development



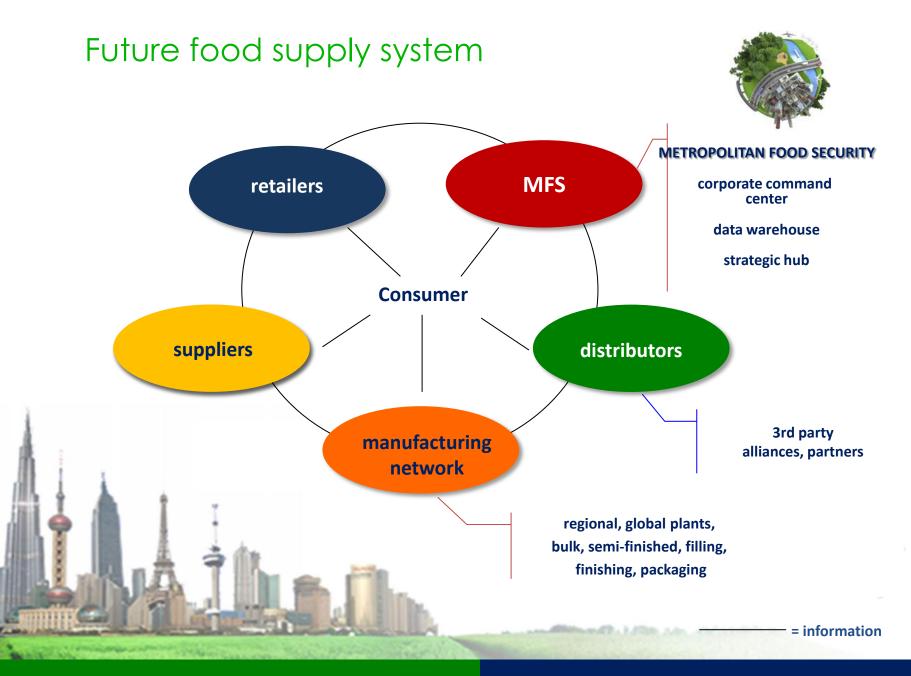




Orange Project

together with GMV and Agentschap NL (EVD)







Vision on Metropolitan Food Security

- World class showcases in sustainable development
 efficiency of asset utilization (people, product, land-water-energy, know-how)
- Driver for economic development through innovative food production
- Maximize synergies between rural and urban development
- Lead the way for worlds' long term food security

Thank You !



7 P's for Success:

- 1. People
- 2. Professionals
- 3. Plan
- 4. Pro-active
- 5. Performance
- 6. Planet
- 7. Prosperity

More information? www.metropolitanfoodsupply.nl