





Netherlands Agro, Food & Technology Centre

Jan Hak, President

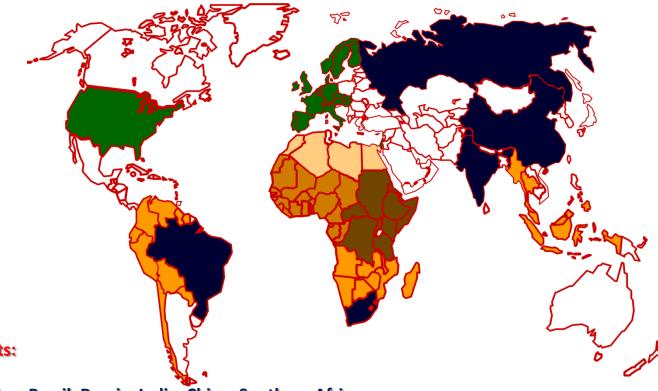
President GMV / FME, CEO QuaTerNes Vice President, Head Emerging Markets MetropolitanFood Security

Mumbai, 16 January 2013





NAFTC worldwide



Markets:



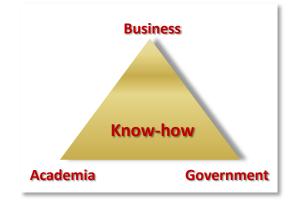
Emerging: Brazil, Russia, India, China, Southern Africa Frontier: Northern, Eastern, Western Africa, South East Asia, South America Innovation: Western Europe, USA, Israel

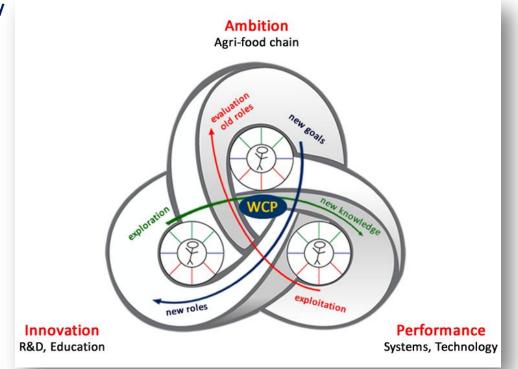




Mission:

- Dutch Hi-Tech Agro, Food and Technology Products for sustainable developments in agriculture and food
- Supporting our members and partners world wide
- Cooperation in Dutch Golden Triangle















Dutch Association of Manufacturers of Food Processing, Packaging and Bio-Based Systems

Facilitating food: Fruits, vegetables, feed, meat, fish, dairy and bio-based products

Member of:

- FPME (Food Processing Machinery Europe)
- Europama (European Committee of the National Associations of Packaging Machinery Manufacturers)
- Copama (International Confederation of Packaging Machinery Associations)











The Netherlands:

High-Tech in Agriculture, Food, Horticulture and Water'

World Leading Technology Companies

Turn-over 2012: EUR 11,4 billion in high tech systems, 42% outside the EU (80% poultry, 70% cheese and > 50% potato processing systems)

Food Valley

World Leading Food Companies

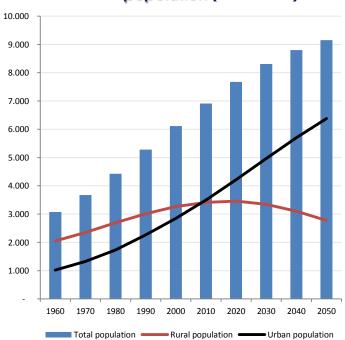
Turnover 2011: EUR 70 billion in agri-food products; Staff 2011: 10% of labour force is dedicated to the Agro & Food Section

(2nd Largest world exporter)



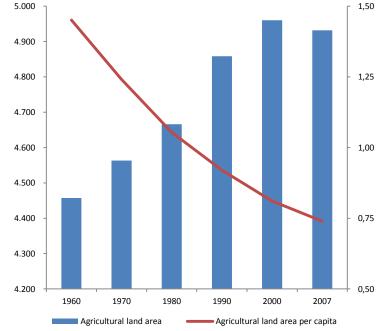


More people, Less land



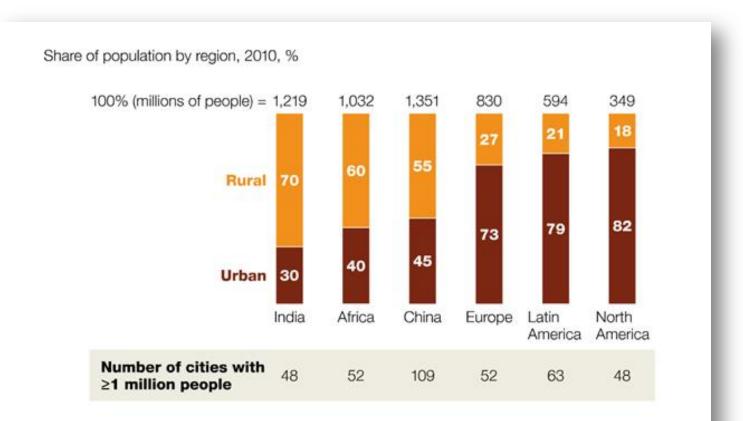
Global population (in millions)

Agricultural land (1,000 ha)



Source: FAO Stat, Rabobank





Source: United Nations; McKinsey Global Institute analysis





Five states are likely to be more than 50 percent urbanized Urban Urban Urbanization rate, 2008 population population Urbanization rate, 2030 %, total population Million %, total population Million Tamil Nadu 53 35.4 67 53.4 Gujarat 25.2 66 48.0 44 Maharashtra 44 47.9 58 78.1 Karnataka 21.6 37 57 39.6 Punjab 36 10.0 52 19.0 7.5 Haryana 31 45 15.2 29 25.8 West Bengal 40 41.5 28 9.7 Kerala 41 15.8 23.4 45.5 Andhra Pradesh 28 46 Madhya Pradesh 25 17.2 32 29.9 Jharkhand 25 7.6 31 12.0 Rajasthan 24 15.5 33 29.5 Chhattisgarh 24 5.8 11.7 40 Uttar Pradesh 21 39.2 26 68.9 Orissa 18 7.0 24 11.0 Himachal Pradesh 0.8 1.8 20 12 Bihar •9 8.9 17 21.3

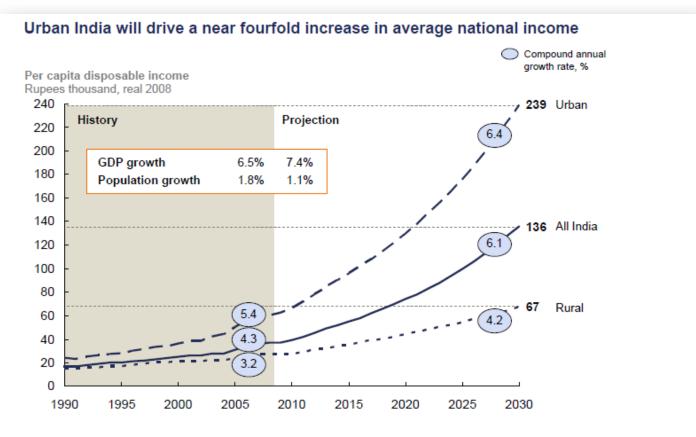
SOURCE: India Urbanization Econometric Model; McKinsey Global Institute analysis











SOURCE: India Urbanization Econometric Model; McKinsey Global Institute analysis





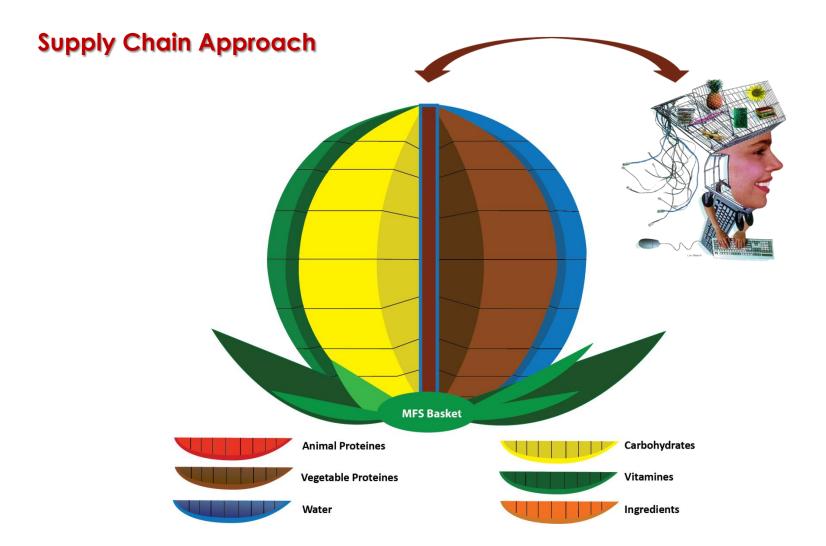
Function of Food

- 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 → ready-to-eat, heat and eat





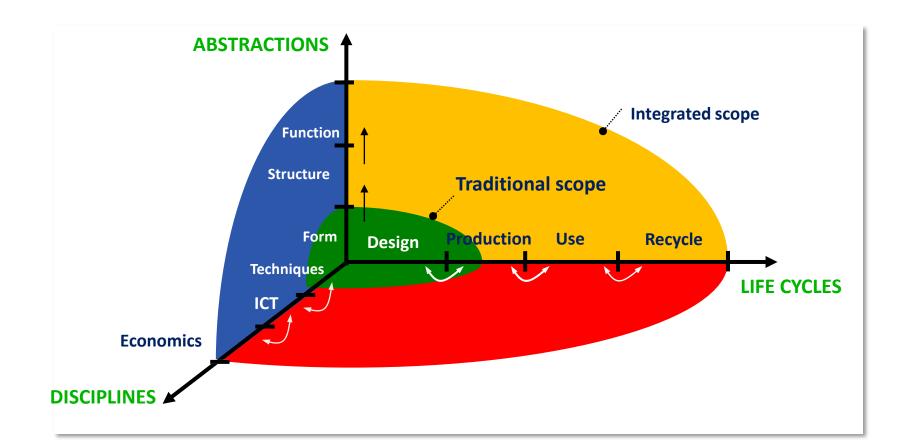






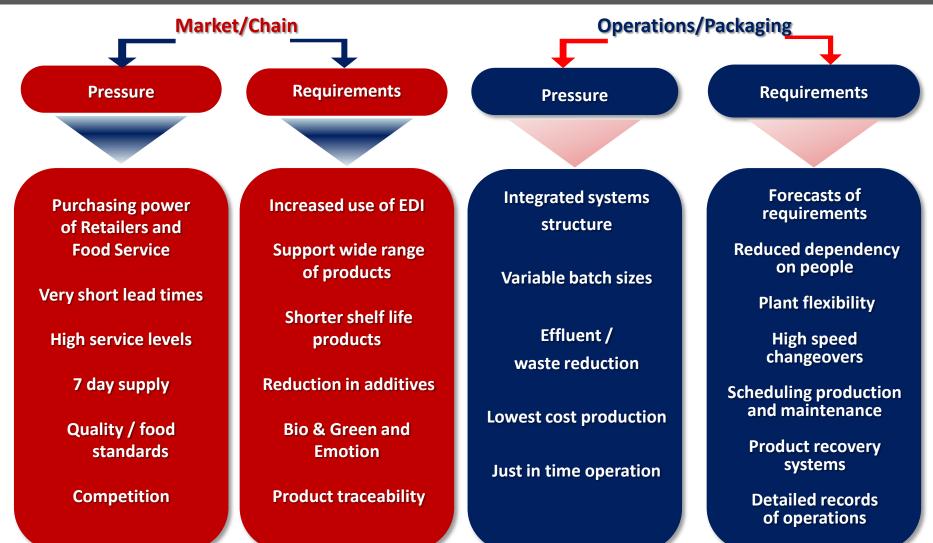


Integrated Approach of product and process development











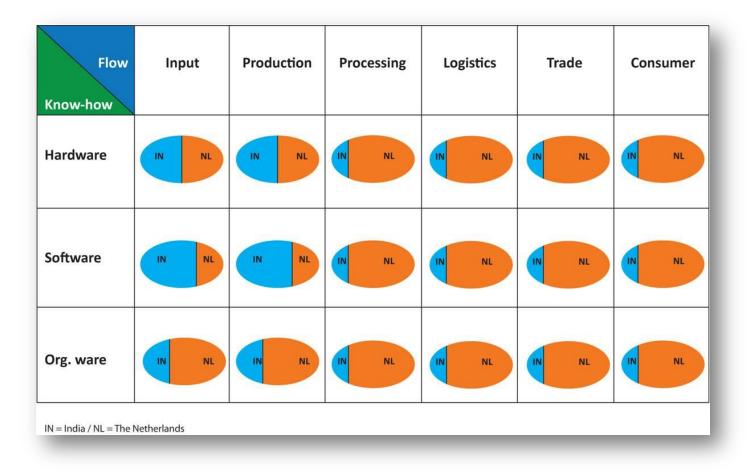


Hardware	Orgware	Software
Contextual relationships	Implementation and operation	Knowledge management
Infrastructure	Business planning	R&D
Demo facilities	Investment in infrastructure	Team development
Trade facilities	Types of consortia	Management of emotions
Production facilities	Stakeholder network	Communicatie
Processing facilities	External relations	Marketing
Industrial ecology	Policy and Politics	Branding
Energy management	Procedures and protocols	Quality management
Landscape and nature	Licences and approval	HRM
Routing	Supply chain management	Education
Design	Project management	Capacity building
What can be held	What can be organised	What can be thought and felt





Strength – Weakness Matrix







Metropolitan Food Security

Challenges:

- Water, genetics and primary sector development ("2x more, with 2x less")
- Hi-tech systems, remote sensing crop management
- Post harvest handling, processing and logistics
- Integrated solutions for food security in rapidly growing urban areas





Metropolitan Food Security

Centers of Excellence:

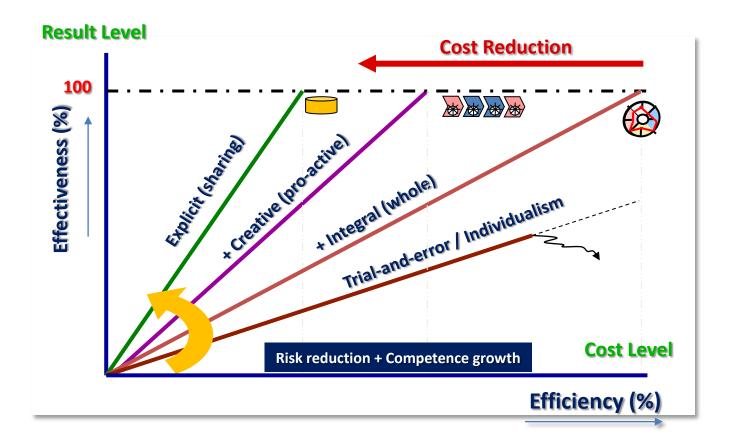
- **Entrepreneurship:**
- Own experience:
- Lead:
- Trust:
- Concern:

- Key to development and food security
- Learning, building a sustainable knowledge base
- **Private sector**
- **Power of Entrepreneurs**
- Impact on small holders





Result Orientation







MoU: NAFTC Netherlands

With: Maharashtra State Supported by: MFS and GMV/FME









Thank you !

More information:

www.naftc-india.com www.metropolitanfoodsecurity.nl www.gmv-fme.nl





