



'Agribusiness Opportunities in Africa'

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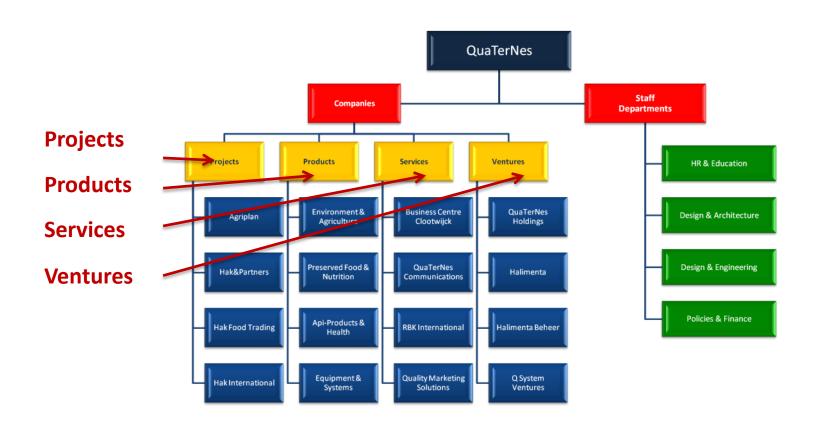
- 1. Introduction
- 2. Experiences
- 3. Trends
- 4. Agro Hub Essentials
- 5. Brain Ports & Centers of Excellence
- 6. Conclusion & Questions







It's Great to be Allowed to Live Today!

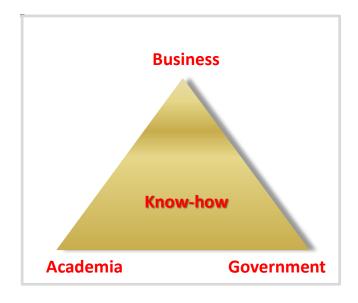


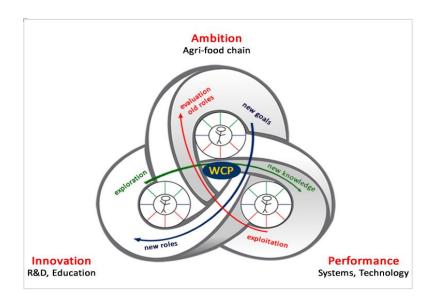


QuaTerNes: Mission



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







QuaTerNes: Realisation



- Create sustainable entities with partners
- Support market oriented agri-food chains
- Improve values for stakeholders
- Partner in think-tanks and platforms:
 - ✓ Agro-Food Systems Manufacturers (GMV FME)
 - ✓ Metropolitan Food Security (MFS)
 - ✓ Netherlands Agro, Food & Technology Centre (NAFTC)









The Netherlands



High-Tech in Agriculture, Food, Horticulture and Water

World Leading Technology Companies

Turn-over 2012: EUR 13 billion in high tech systems, 42% outside the EU (80% poultry, 70% cheese and > 50% potato processing systems)

Part of "Powered by Dutch Technology for Food, Health and Living Environment" (Program of FME-CWM)

Food Valley

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)



GMV-FME, Dutch Association of manufacturers of food processing, packaging and bio-based systems







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)















Twice as Much Food Twice the Quality Half the Resources!

International Platform:

- Provision of input, know how and network access also locally by counterparts:
- Industries, Academia & Education system, Governments and Thematic organisations
- 3 Working Groups:

Innovating Markets (EU, US, Israel)

Emerging Markets BRIC, CIVETS

Frontier Markets
Africa, South-America,
Middle East



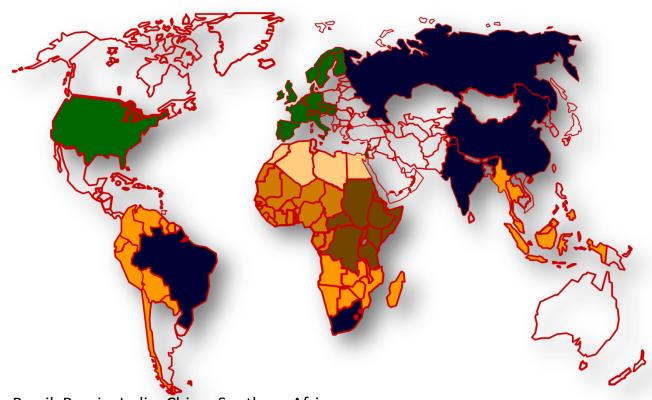
Offices

1. Introduction NAFTC



Supported by GMV and MFS

Netherlands Agro, Food & Technology Centre



Emerging: Brazil, Russia, India, China, Southern Africa

Frontier: Northern, Eastern, Western Africa, South East Asia, South America

Innovation: Western Europe, USA, Israel







4 Offices

Southern, Eastern, Western and Northern Africa

4 Focus Points

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



2. Personal Experience

Products: examples



Preserves

(ex) HAK > Haricots Verts in Navasha (since 1978), (Kenya) > Cucumbers (Marocco)

Honey & Api Products

Honey Int. > Apinec (Et), ApiMiel (Burundi) etc.

Dry food Ingredients

Dika Int. > East African Dehy (Kenya), Various partners (Egypt)

Frozen Snacks

Delidor > Afropa , mango, pineapple etc. (Ghana)



2. Experience

Projects: examples



- Unifood, Egypt Frozen food
- MABA, Egypt Seed & Fresh potatoes
- Southern Africa, Dar-es-Salaam, Tanzania EU Matchmaking
- I&J / McCain, Table Top, Lamberts Bay Canning, all in South Africa Potato value chain
- Langenberg, South Africa Fruits & Vegetables Restructuring
- Joss, Nigeria Closed systems & Dairy
- Victoria Fish, Kenya Fish value chain
- Copperbelt Dehy Herbs, Copperbelt, Zambia Dehy herbs
- Copperbelt Dehy Vegetables, Zimbabwe Dehy vegetables



2. Experience

Services



Organic Products (Tradin / Sunopta / Traboca)

- Coffee (Ethiopia)
- Grains, sesame (Ethiopia)
- Cacao (Ghana)
- Cashew Nuts (various)
- Chickpeas, tapioca products, etc. (various)
- Palmoil (Guinea Conakry)
- Fruit concentrates, mango etc. (various)

Cooperation Wageningen University

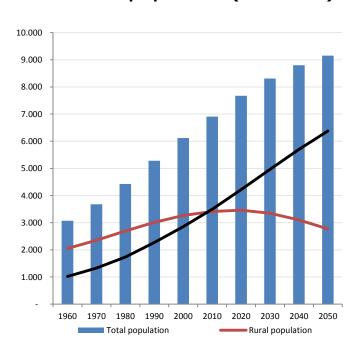
- MFS > Guinea Conakry Trade Support
- Centers of Excellence / Brainport development in various states
- PPS / PIB, Ethiopia



More people, Less land

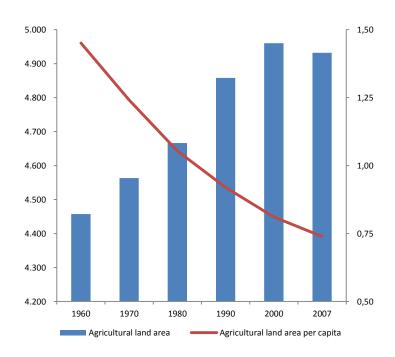


Global population (in millions)





Agricultural land (1,000 ha)



90% of population growth will occur in Sub-Saharan Africa (one billion or 49%) and Asia (900 million or 41%)

3

3. Trends

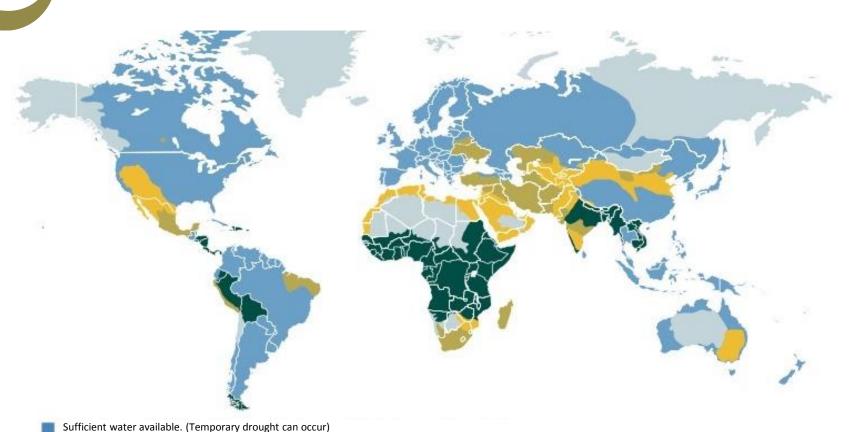
No data known.

Water, Ecology & Weather

Water scarcity expected in the future (More than 60% of available water is being used) Physical water scarcity. (More is used than responsible. Future water supply in danger.)

Economic water scarcity. (Sufficient water available, but men and means lack to make maximum use of it)

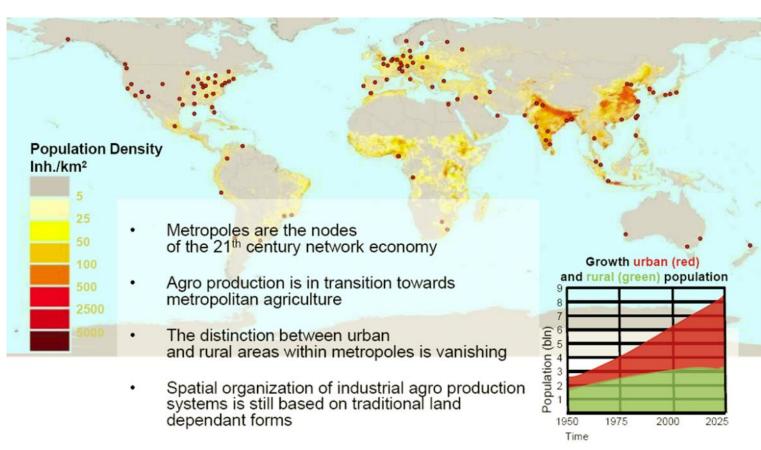






The World is Urbanizing

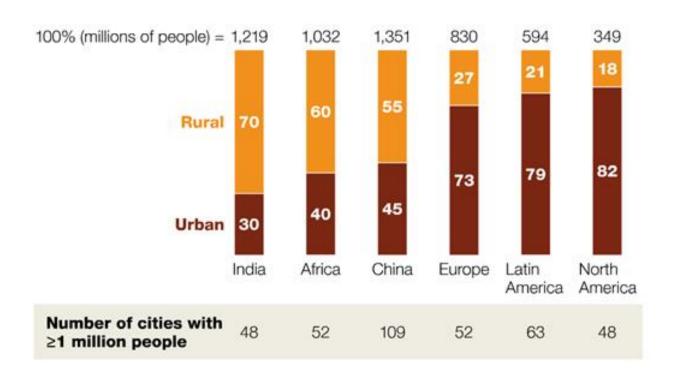






3. TrendsShare of population by region, %



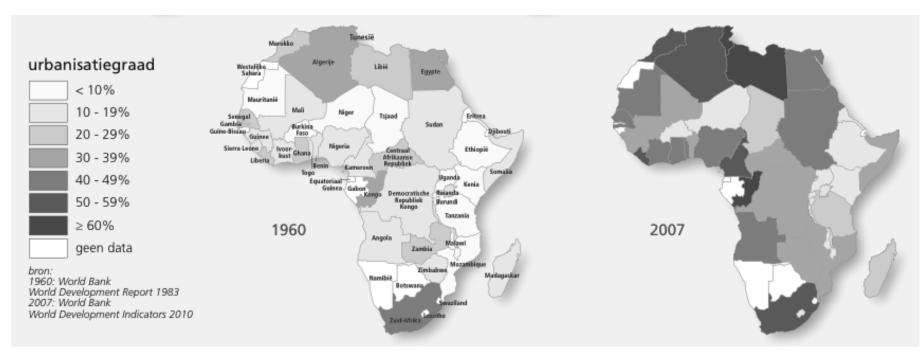


Source: United Nations; McKinsey Global Institute analysis (2010)



3. Trends Urbanization level (%) in Africa





White: no data available

Source: ASC Leiden (Africa 2012 – African Studies Centre))



3. TrendsUrbanization in Africa

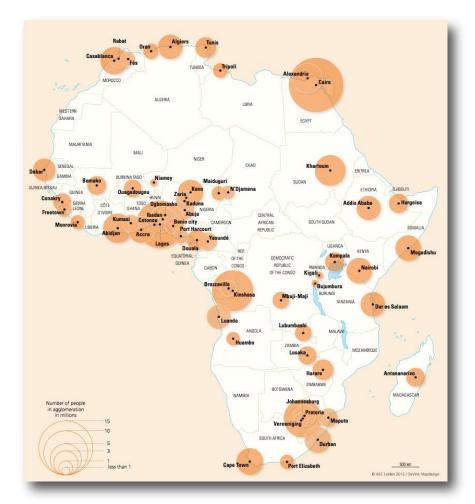


From:

Continent of States

To:

Continent of Cities



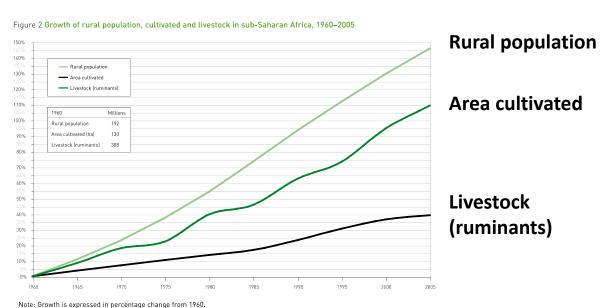


3. TrendsThe Growing Wedge

Source: FAOSTAT (2007).



Agricultural growth lags behind on economic growth



Jump in agricultural productivity is necessary to meet growing demand of middle class. Still, there will be growing import of agricultural products.



Top 20 Hotspots for growth by 2025



			CITYSCOPE RANKINGS BY	Emerging regions Developed regions	
Rank	Elderly, higher- income consumers ¹	Young entry-level consumers ²	Laundry care products ³	Commercial floor space ⁴	Municipal water demand
1 🔆	Shanghai	Lagos	São Paulo	New York	Mumbai
2 🔆	Beijing	Dar es Salaam	Beijing	Beijing	Delhi
3	Tokyo	Dhaka	Rio de Janeiro	Shanghai	X Shanghai
4 🔆	Tianjin	Quagadougou	Shanghai	Los Angeles	-X -Guangzhou
5	Mumbai	Khartoum	Mexico City	Tokyo	-X Beijing
6	São Paulo	Ghaziabad	Moscow	Washington, D.C.	Buenos Aires
7	Osaka	Sanaa	Bangkok	Dallas	Kolkata
8 🛠	· Chongqing	Nairobi	Istanbul	São Paulo	Khartoum
9	Delhi	Luanda	Manila	Guangzhou	Dhaka
10 挆	Nanjing	Baghdad	Johannesburg	Chicago	Istanbul
11 🚜	Guangzhou	Kampala	Belo Horizonte	Houston	Dallas
12	New York	Ibadan	Porto Alegre	Tianjin	Pune
13	Seoul	Lusaka	Buenos Aires	Moscow	Las Vegas
14 挆	Hong Kong	Kinshasa	Tianjin	Atlanta	Karachi
15 挆	Wuhan	Kano	Tehran	Miami	São Paulo
16	Kolkata	Abidjan	New York	Hong Kong	Hyderabad, Indi
17 挆	Shenyang	Abuja	Foshan	Mexico City	Lagos
18	Los Angeles	Bamako	Santiago	Shenzhen	Moscow
19	Toronto	Chittagong	Shenzhen	Phoenix	-X -Wuhan
20	Ahmedabad	Port Harcourt	London	Istanbul	Manila



² GROWTH IN POPULATION AGED ≤ 14 WITH HOUSEHOLD INCOME \$7,500-\$20,000 AT PPP.





³ PREDICTED GROWTH IN CONSUMER SPENDING ON LAUNDRY CARE PRODUCTS BASED ON A CITY-LEVEL MARKET DEMAND GROWTH MODEL.

⁴ INCLUDING REPLACEMENT FLOOR SPACE.

SOURCE: MCKINSEY GLOBAL INSTITUTE ANALYSIS



Consumer Preferences



Preference for convenience, clean and healthy food Is healthy food.. Good for food security?

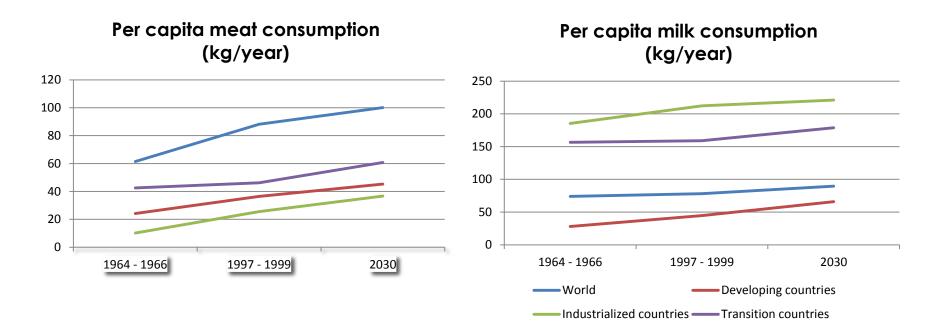
- Shift in demand
- Diversification
- Function of Food
- Trends in (EU) Society



Consumer Preferences → Change



Changing Consumption Consumer



Source: World Health Organization







Demand in Metropoles:

From food to fashion to pharmaceuticals







Pharmaceuticals

Functional foods, Pharmaceuticals

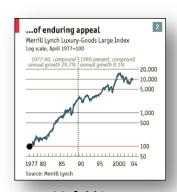
Fashion

Flowers, Flavors, Fragrances

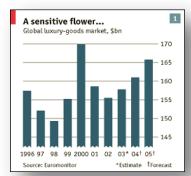
Food

Fodder, Food Crops, Vegetables, Fruits

Energy *Fuel, Fibers*



A 100-fold increase between 1977 and 2005



World spending on luxury goods in 2005: US% 165 bln







WHAT Calories → "experience" → 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















Trends in European Society



Needing social cohesion (and safety)

- Especially older generation
- In more individualistic world

Increasing suspicion (decreasing authority)

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

(According to Wim Lageweg, MVO-2011)







Trends in European Society



Needing "Roots and Wings" (and origin)

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



Especially awareness of scarcity

Increasing transparency

- Especially sharing knowledge
- Pressure on media, social media



(According to Wim Lageweg, MVO-2011)











Shift of power to retailers and food service sectors:

























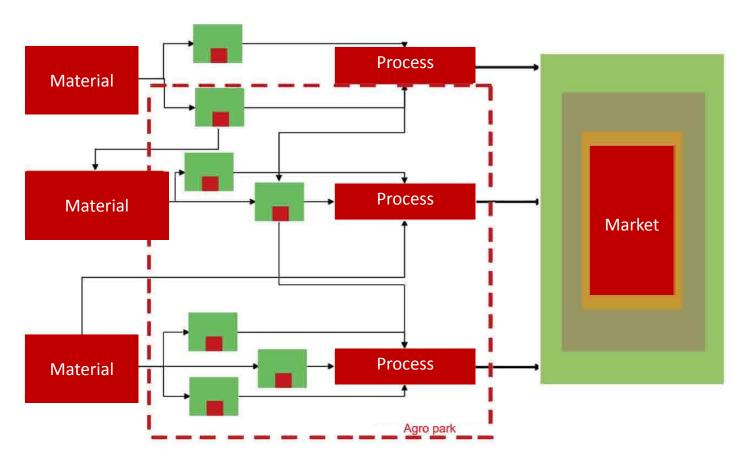


Closest to the consumer, Multi-channel strategy, Vital marketing information, 70 - 80% Buying decisions at P.O.P., Co-marketing





Supply Chain Development & Integration

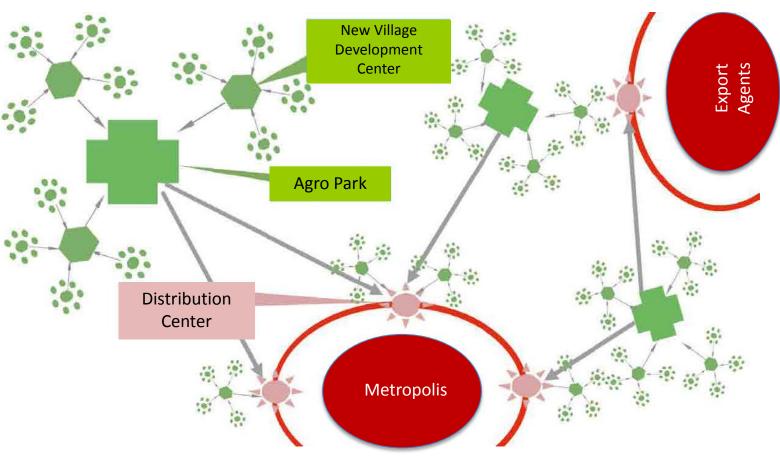








Intelligent Agro Logistics Networks



Source: 'Agricultural Eco-Valley, Beijing China, Conceptual Master Plan, DHV – GMV – WUR (2011)

Fresh Park Venlo





Source: 'Agricultural Eco-Valley, Beijing China, Conceptual Master Plan, DHV - GMV - WUR (2011)

Freshpark Venlo (The Netherlands):

Consolidation centre of 120 ha with controlled storage space, crossdocking stations, processing facilities, service providers, auction halls. Here, over 100 enterprises are located.



Market Pressure ← Operations requirements



Market/Chain **Pressure**

Requirements

Operations/Packaging

Pressure

Requirements

Purchasing power of Retailers and **Food Service**

Very short lead times

High service levels

7 Day supply

Quality / food standards

Competition

Increased use of EDI

Support wide range of products

Shorter shelf life products

Reduction in additives

Bio & Green and Emotion

Product traceability

Integrated systems structure

Variable batch sizes

Effluent / waste reduction

Lowest cost production

Just in time operation

Forecasts of requirements

Reduced dependency on people

Plant flexibility

High speed changeovers

Scheduling production and maintenance

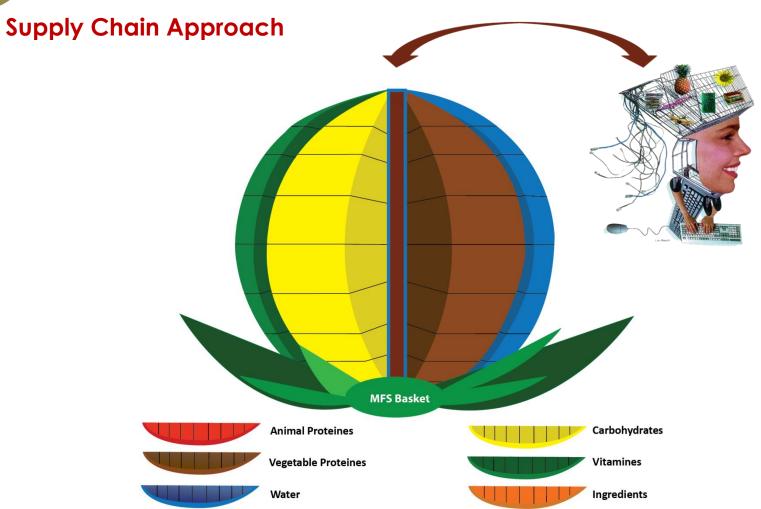
> **Product recovery** systems

Detailed records of operations



Challenge for Southern Africa



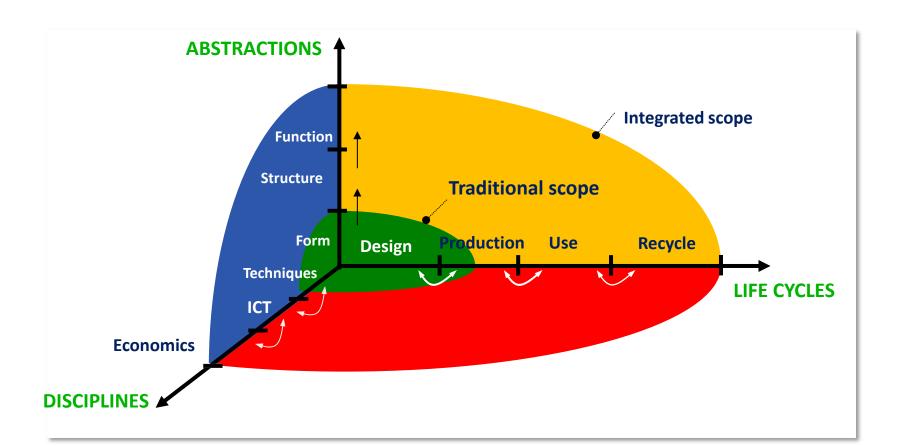








Integrated Approach of product and process development





Strength - Weakness Matrix



Flow Know-how	Input	Production	Processing	Logistics	Trade	Consumer
Hardware	SA NL	SA NL	SA NL	SA NL	SA NL	SA NL
Software	SA NL	SA NL	SA NL	SA NL	SA NL	SA NL
Org. ware	SA NL	SA NL	SA NL	SA NL	SA NL	SA NL







Hardware	Orgware	Software		
Contextual relationships	Implementation and operation	Knowledge management		
Infrastructure	Business planning	R&D		
Centers of Excellence	Investment in infrastructure	Team development		
Trade facilities	Types of consortia	Management of emotions		
Production facilities	Stakeholders 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		



5. Brain Ports & Innovation Centers

"Innovation " from The Netherlands



R&D and Training Focus



- Economic and efficient production of sufficient, safe and nutritious food
- Sustain and enhance natural resources
- Maintain viable farming enterprises and contribute to sustainable communities
- Meet cultural and social demands of society



6. Conclusions

Metropolitan Food Security



Metropolitan Food Security

Centers of Excellence:

Entrepreneurship: Key to development and food security

Own experience: Learning, building a sustainable knowledge base

Lead: Private sector

Trust: Power of Entrepreneurs

Concern: Impact on small holders



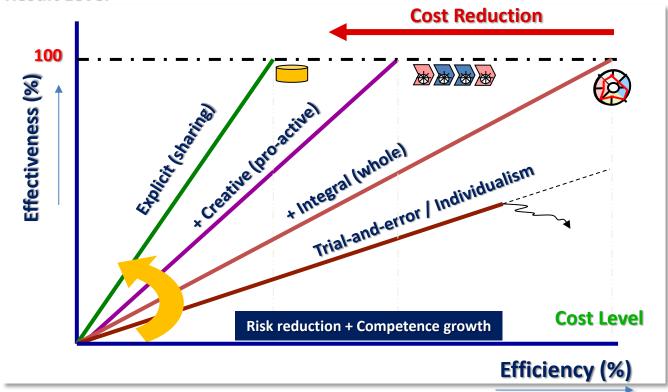


6. Conclusions

Result Orientation



Result Level





6. Conclusions

Strategy to Success



7 P's:





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