2nd International Conference METROPOLITAN FOOD SECURITY

Twice as Much Food Twice the Quality Half the Resources





Platform for sectors:

Water - Agri-Food - Horticulture (T + U)

Market driven, result oriented initiative

With: Holistic approach on Consumer Acceptance

Involving: Logistics, Cleantec, Pharma and Bio-based products

Enabled by: ICT and Hi-Tech

Characteristics:

- Innovative
- Bottom up
- Demand driven
- Chain approach (primary, secondary and tertiary sector)
- Technologies: Connecting sectors
- Cementing relationship agro-sector industry
- Entrepreneurial approach North South

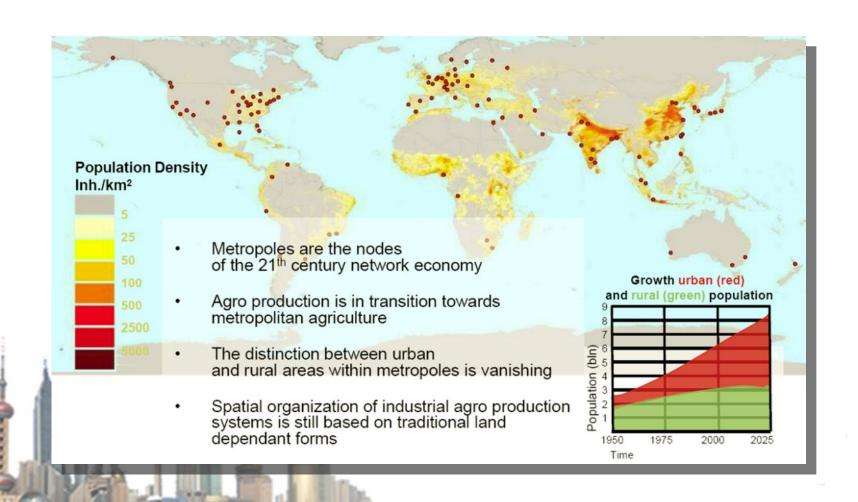
Dutch Base:

- Annual agri-food, primary and secondary products production:
 EUR 68 billion of which 85 % exported. 2nd Largest exporter in the world.
- Annual Hi-Tech agri-food systems, tertiary products production:
 EUR 10 billion of which 80 % exported.
- Representing worldwide: 80% of poultry (Applied Animal Protein) technology, 65% of cheese technology and > 50% of Potato Technology.
- Golden triangle:

Producers cooperating with Academia supported by Government.

Goals:

- Sustainable rural environment
- Securing Food in and for Urbanized Areas
- Entrepreneurship, new Opportunities
- Cooperation Business and Academia
- Sharing Know-How, Education
- Innovations in Science and Technology



M of Metropolitan

Over 50% of the world population lives in cities now. In 2050 this will be over 70% (7 billion).

The "endless city": Mega Cities will merge into mega regions and urban corridors (over 100 million people).



Mega Regions:

Hong Kong-Shenhzen-Guangzhou region (120 million), China Nagoya-Osaka-Kyoto-Kobe Region (60 million by 2015), Japan Rio de Janeiro – Sao Paulo (43 million), Brazil

Urban Corridors:

in India: from Mumbai to Delhi, in West-Africa: Nigeria, Benin, Togo and Ghana and in east Asia: from Beijing to Tokyo via Pyongyang and Seoul

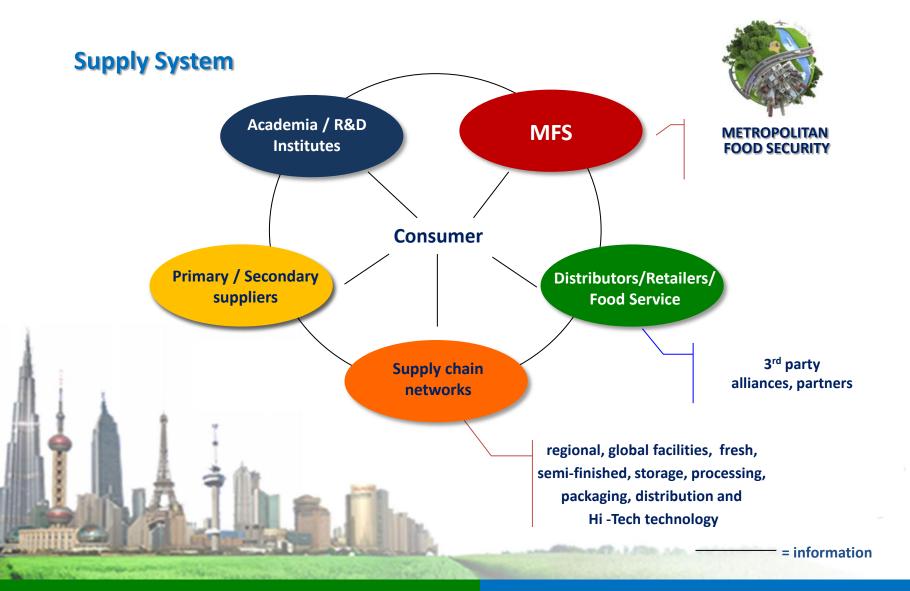
(Un State of the World Cities report, 2010)

FS of Food Security

The cities of the developing world are spectacularly ill-prepared for the explosion in urban living (Van Ginkel, H., 2008 in FAO, 2009)

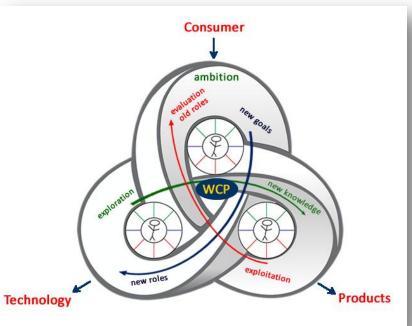


- Metropoles' thirst for water: has to come from far places > pressures distant ecosystems,
 increases amount of dry zones in soils > increase migration to cities.
- Agriculture: prime agricultural land converted into residential or industrial areas.
- Logistics: more and more food will have to be transported to and distributed within urban areas > infrastructure insufficient > stable supply can be jeopardized. (FAO, 2009)

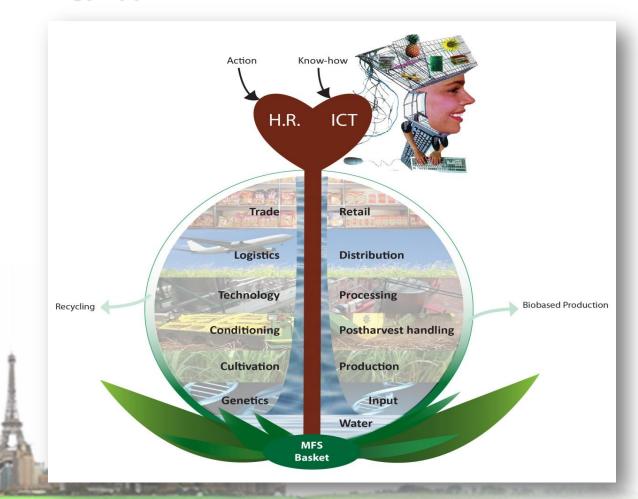


Market-led Approach

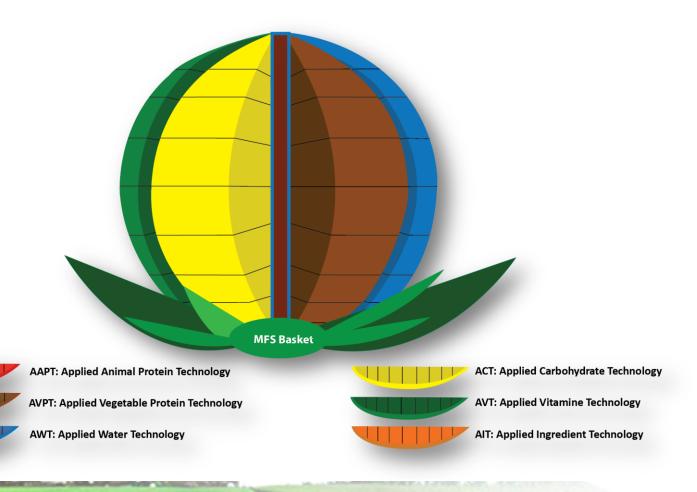




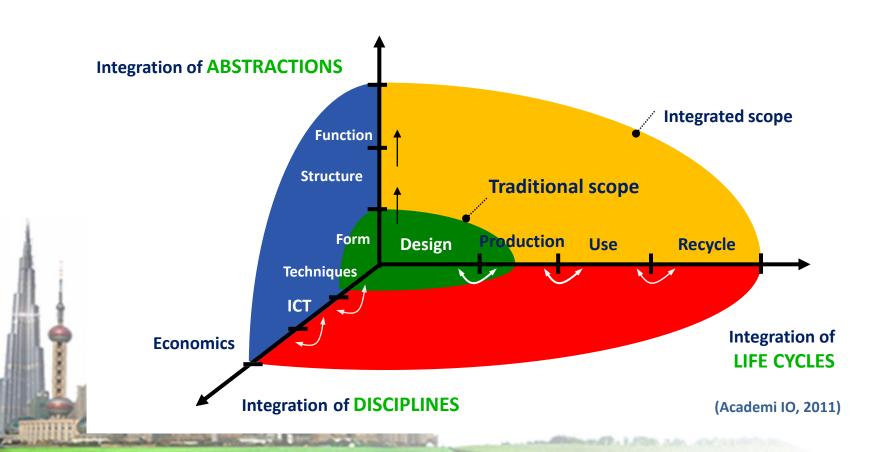
Technology Approach



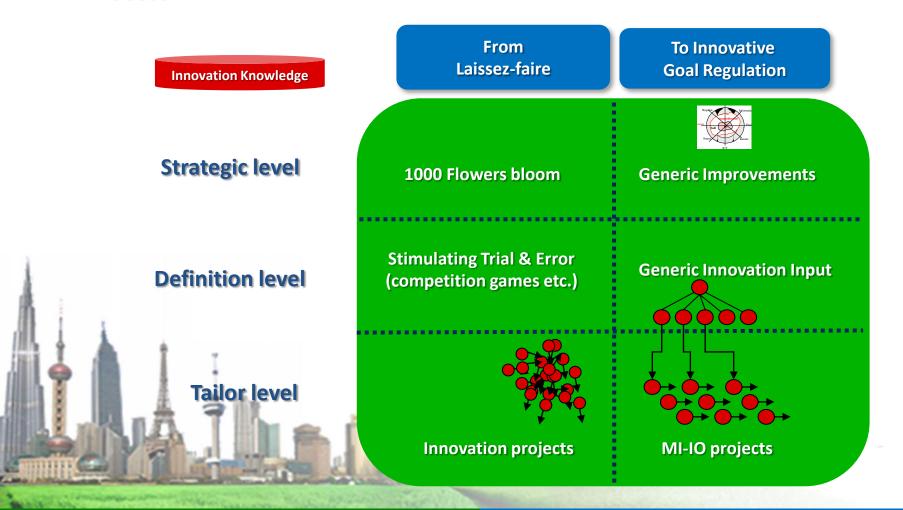
Supply Chain Approach



Innovation Approach



Process



MFS – Back Office, The Netherlands

Provision of input, know-how and network access by:

Industries

Primary, Secondary and Tertiary Sector Organizations Academia and Education

Universities, Research Institutions, Schools

Government

Ministry of Economic Affairs,
Agriculture & Innovation,
Ministry of Foreign Affairs,
Ministry of Education

Thematic

NGO's and Development Cooperation Agencies

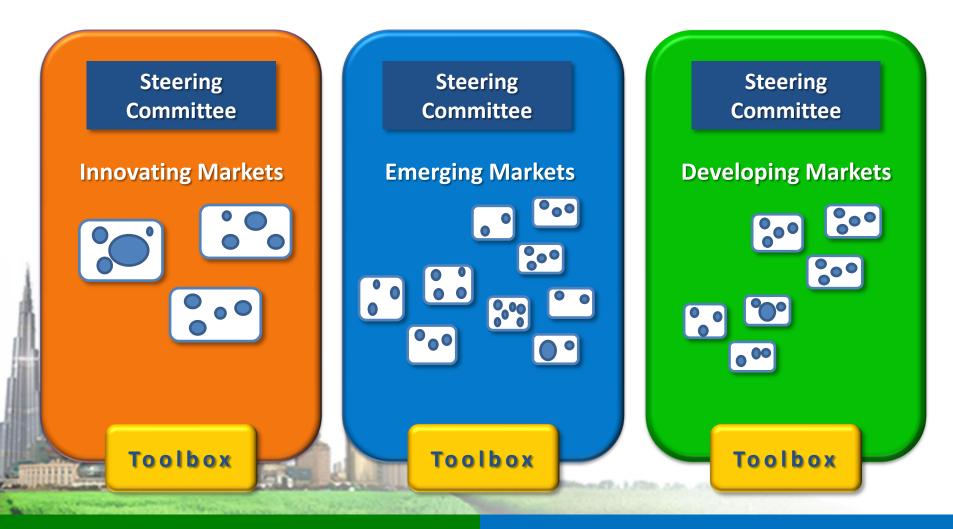
International Organisation

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

Working Groups



Working Groups Country



In this room are present:

Frontier Markets	Bob van den Bijl
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- Emerging MarketsJan Hak
- Innovation and International

Academic Cooperation Raoul Bino

- MFS Office China Fulco Wijdooge
- MFS Office India Marijn Leijten
 - MFS Office Israel José Hak

Strength – Weakness Matrix

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

IL = Israel / NL = Netherlands Smeets, 2011

Working Groups:

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

Haim Rabinowitz

Yossi Inbar

Raoul Bino

Bob van der Bijl



