2nd International Conference METROPOLITAN FOOD SECURITY

Twice as Much Food Twice the Quality Half the Resources



Jan Hak

Vice-Chairman, Treasurer of the Board, Head of Committee 'Emerging Markets'

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:

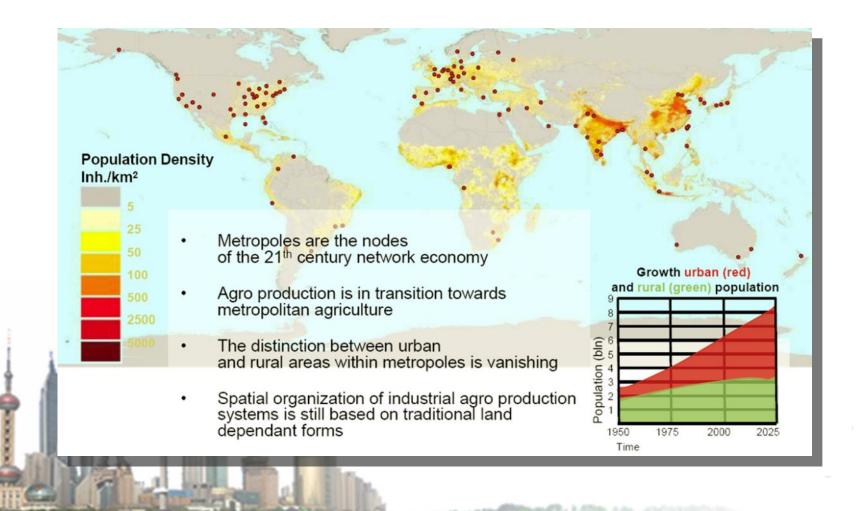
- Innovative
- Bottom up
- Demand driven
- Chain approach (primary, secondary and tertiary sector)
- Technologies: Connecting sectors
- Cementing relationship agro-sector industry
- Entrepreneurial approach North South

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

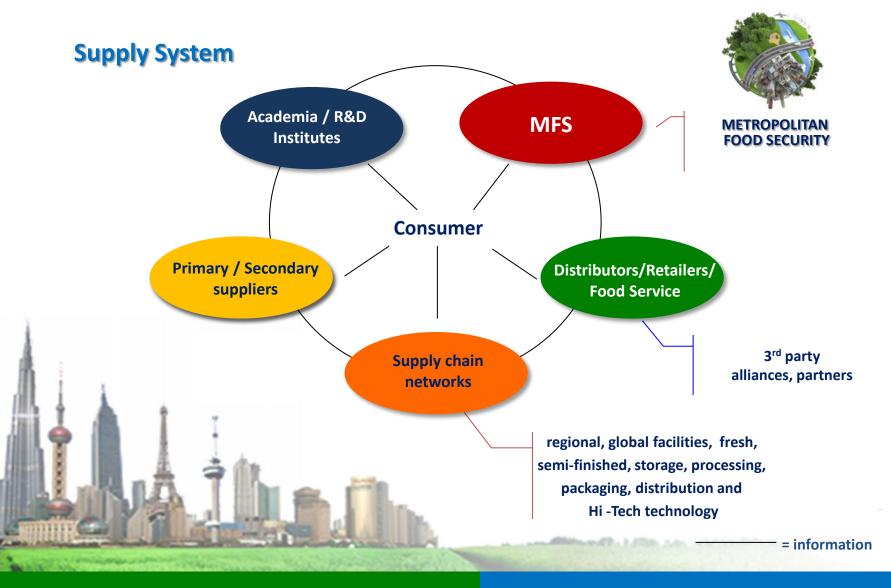
The cities of the developing world are spectacularly ill-prepared for the explosion in urban living (Van Ginkel, H., 2008 in FAO, 2009)



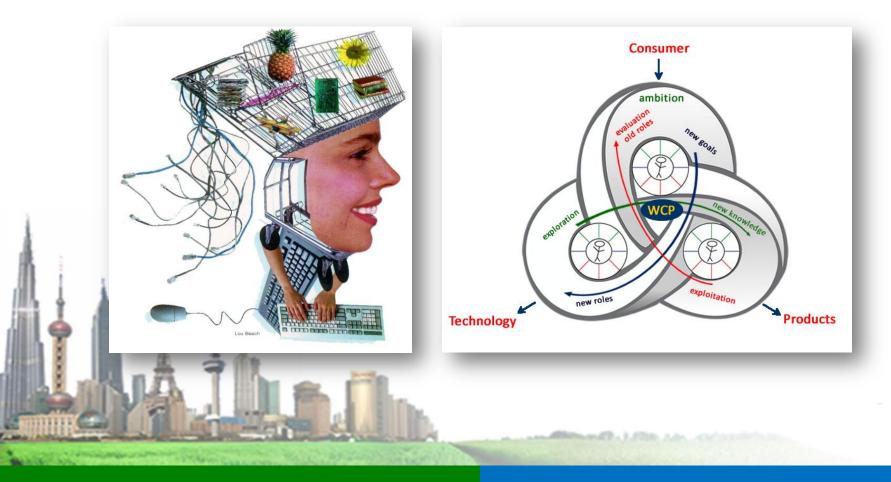
Metropoles' thirst for water: has to come from far places > pressures distant ecosystems, increases amount of dry zones in soils > increase migration to cities.

Agriculture: prime agricultural land converted into residential or industrial areas.

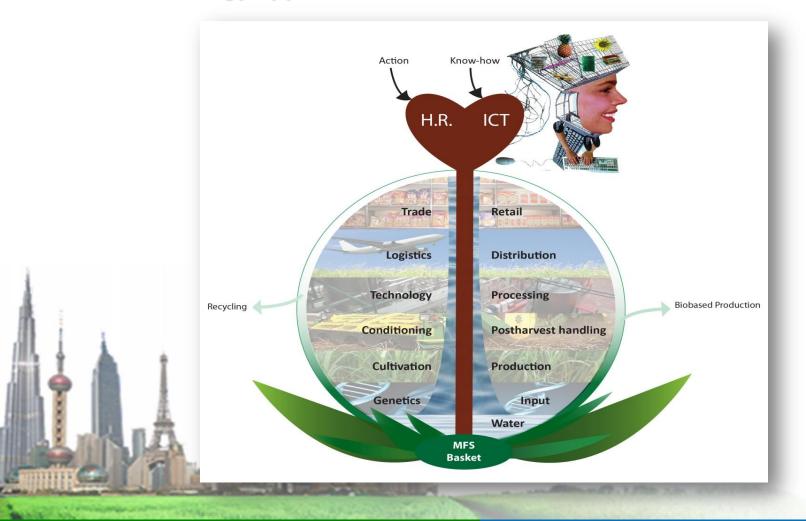
Logistics: more and more food will have to be transported to and distributed within urban areas > infrastructure insufficient > stable supply can be jeopardized. (FAO, 2009)



Market-led Approach

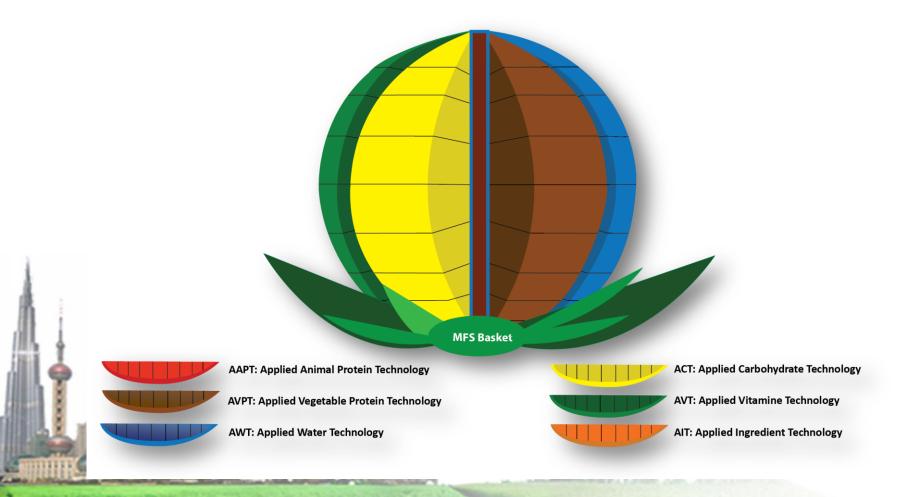


Technology Approach



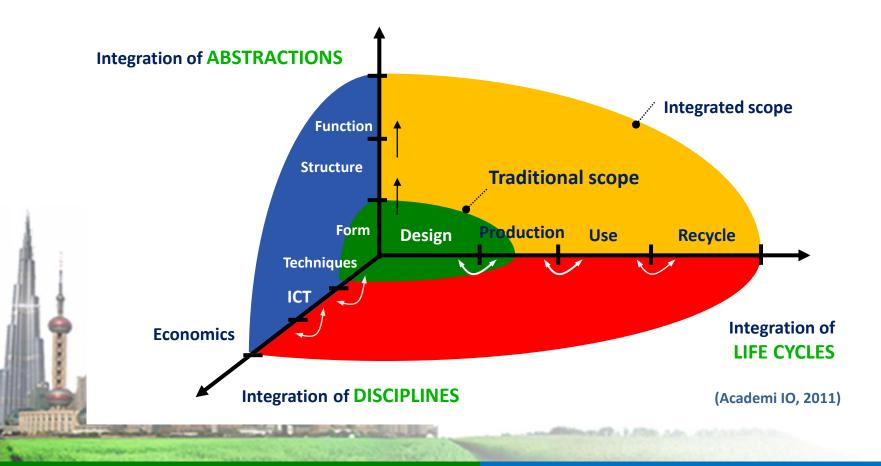
Tel Aviv, 6 June 2012

Supply Chain Approach

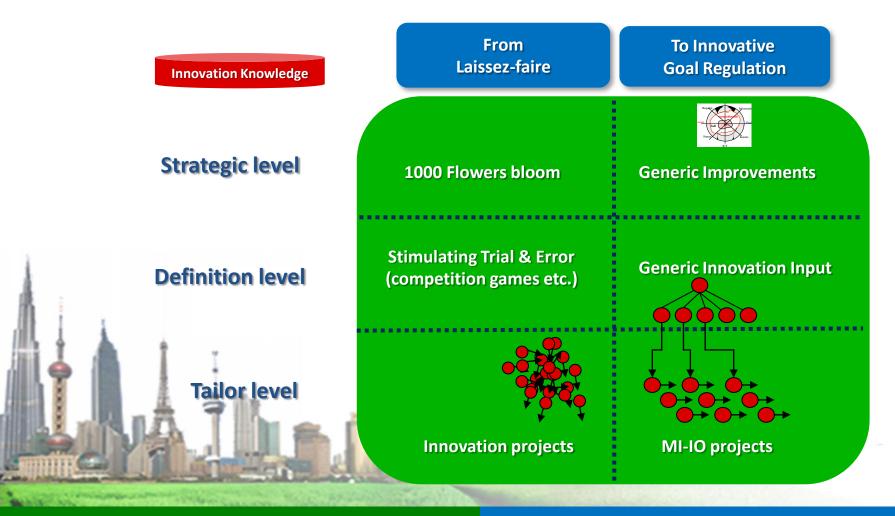


Tel Aviv, 6 June 2012

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

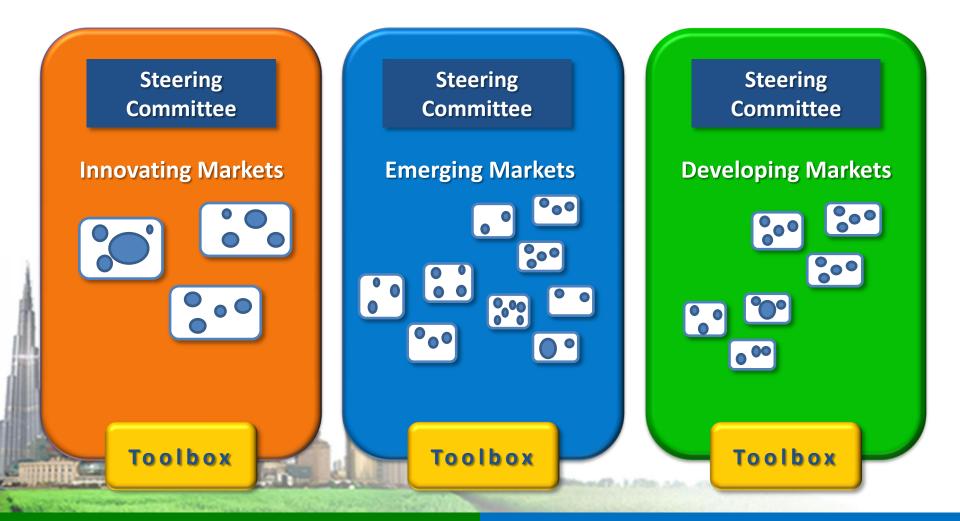
Provision of input, know how and network access also locally by counterparts: Industries, Academia & Education system, Governments and Thematic organisations

Working Groups



Working Groups

Country

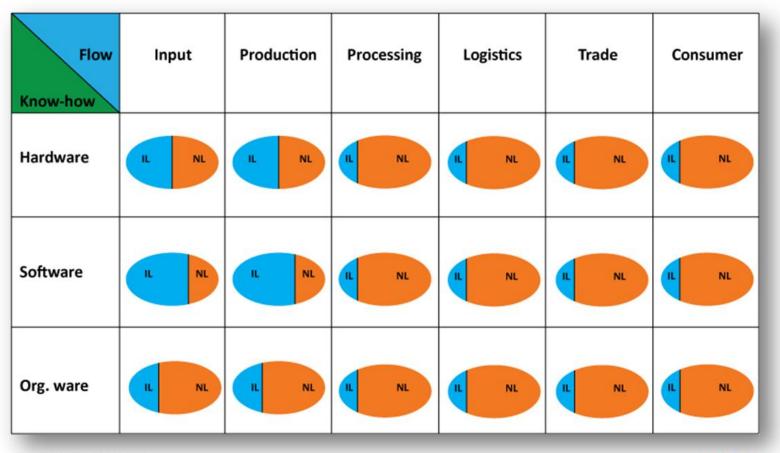


In this room are present:

- Back Office Arthur Vernooij
- Frontier Markets
 Bob van den Bijl
- Emerging Markets
 Jan Hak
- Innovation and International
 - Academic Cooperation Raoul Bino
- MFS Office China
- MFS Office India
- MFS Office Israel

- Fulco Wijdooge
- Marijn Leijten
- José Hak

Strength – Weakness Matrix



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



