

From open space to embedded place

Planning for (urban) agriculture in Oosterwold (Almere NL)

November 8th 2017, Jan Eelco Jansma



Two story lines



Jan Eelco Jansma

Feeding the city

- Urban agriculture
- Urban food planning
- Impact of Food



Wageningen University & Research
AERES, Almere
AMS institute, Amsterdam
Flevo Campus, Almere

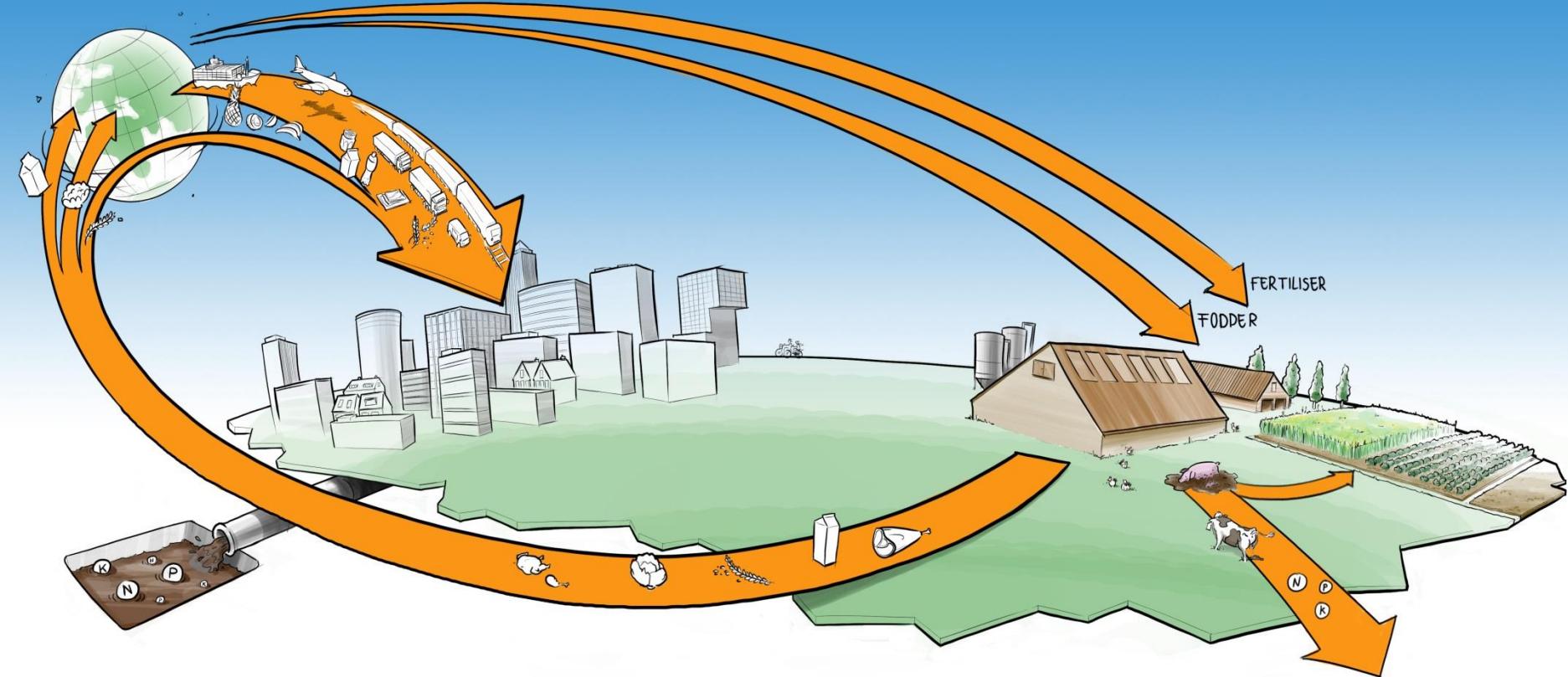


Food System...

Definition of Food System (HLPE, 2014)

A food system gathers all the elements (environment, people, inputs, processes, infrastructures, institutions, etc.) and activities that relate to the production, processing, distribution, preparation and consumption of food, and the outputs of these activities, including socio-economic and environmental outcomes.

Our Food System

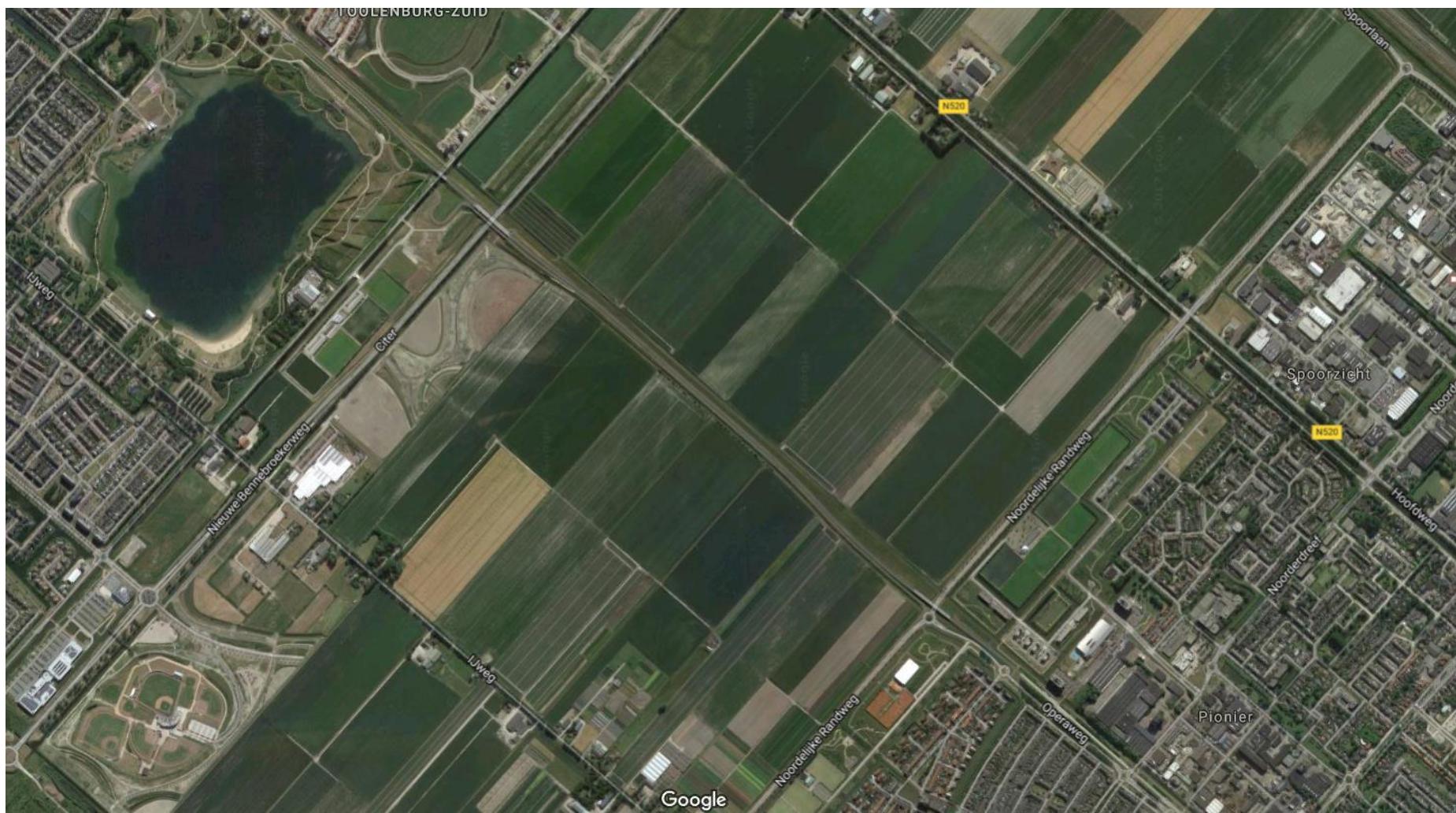


Our Food System: environmental impact

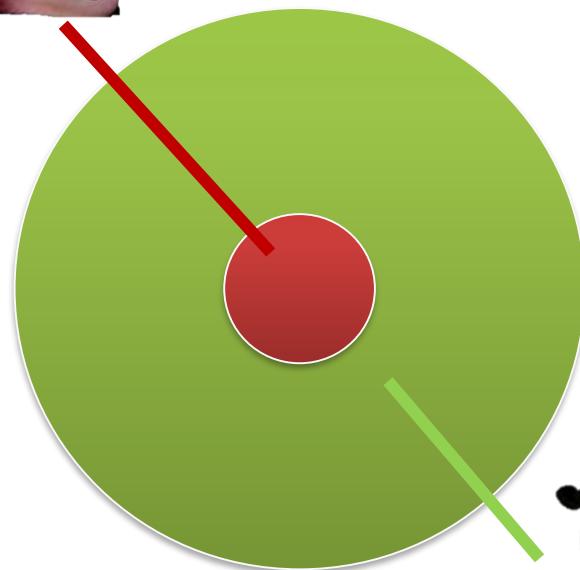


WAGENINGEN
UNIVERSITY & RESEARCH

Our Food System: impact on planning



The Current Food System



How many land to feed a person?



Avarage Dutch lifestyle: 4 persons per ha

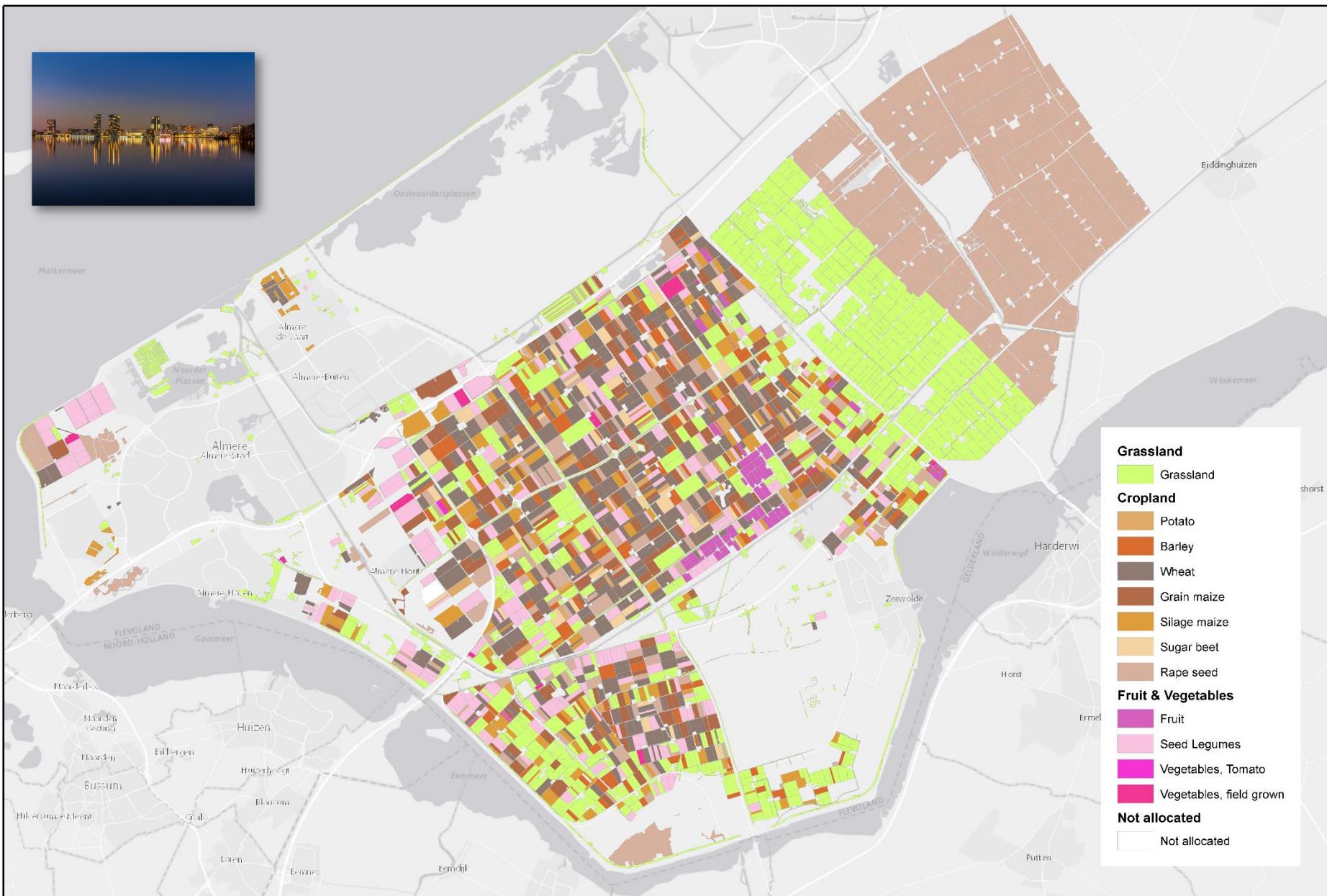


Vegetarian lifestyle: 6 persons per ha



Vegan lifestyle: 9 persons per ha





Grassland

Grassland

Cropland

Potato

Barley

Wheat

Grain maize

Silage maize

Sugar beet

Rape seed

Fruit & Vegetables

Fruit

Seed Legumes

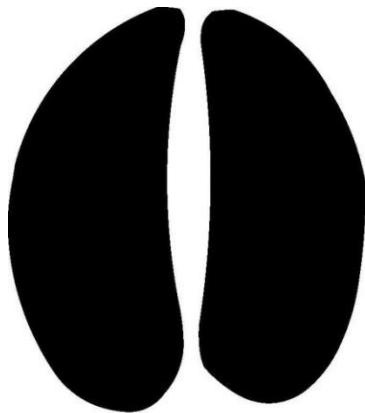
Vegetables, Tomato

Vegetables, field grown

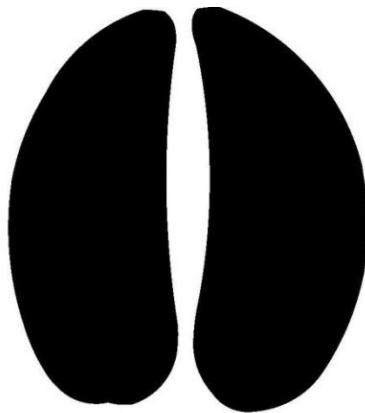
Not allocated

Not allocated

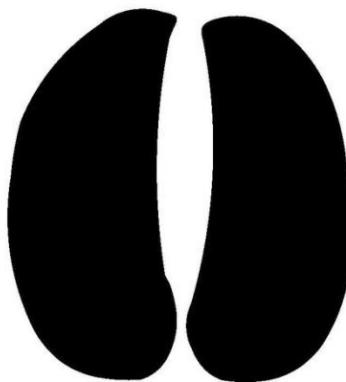
The local-food-footprint of Almere



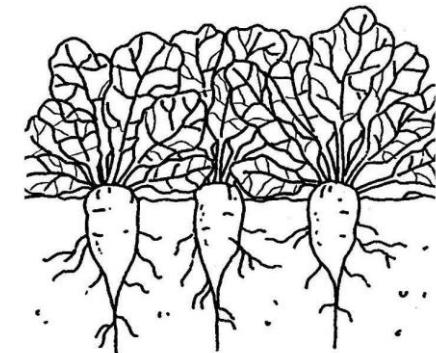
24.000 ha



1900 ha



150 ha



450 ha



280 ha



130 ha



8 ha



599 ha. of plants

38,000



36 ha. of fruit



48 ha. of vegetables



363 ha. of wheat

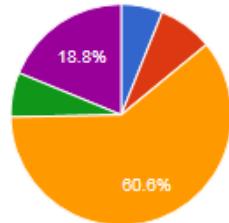


39 ha. of potatoes



113 ha. of sugar

**Vegetable products
total of: 599 ha.**



84,783 animals



844 dairy cows



1,996 beef cows



6,070 pigs

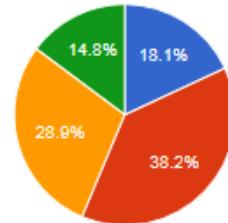


9,100 laying hens



66,773 chickens

**Fodder
total of: 1,546 ha.**



1,545 ha. of fodder



279 ha. of wheat and barley



591 ha. of corn products



446 ha. of grass and clover

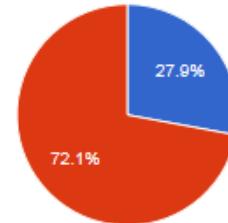


229 ha. of additional produce

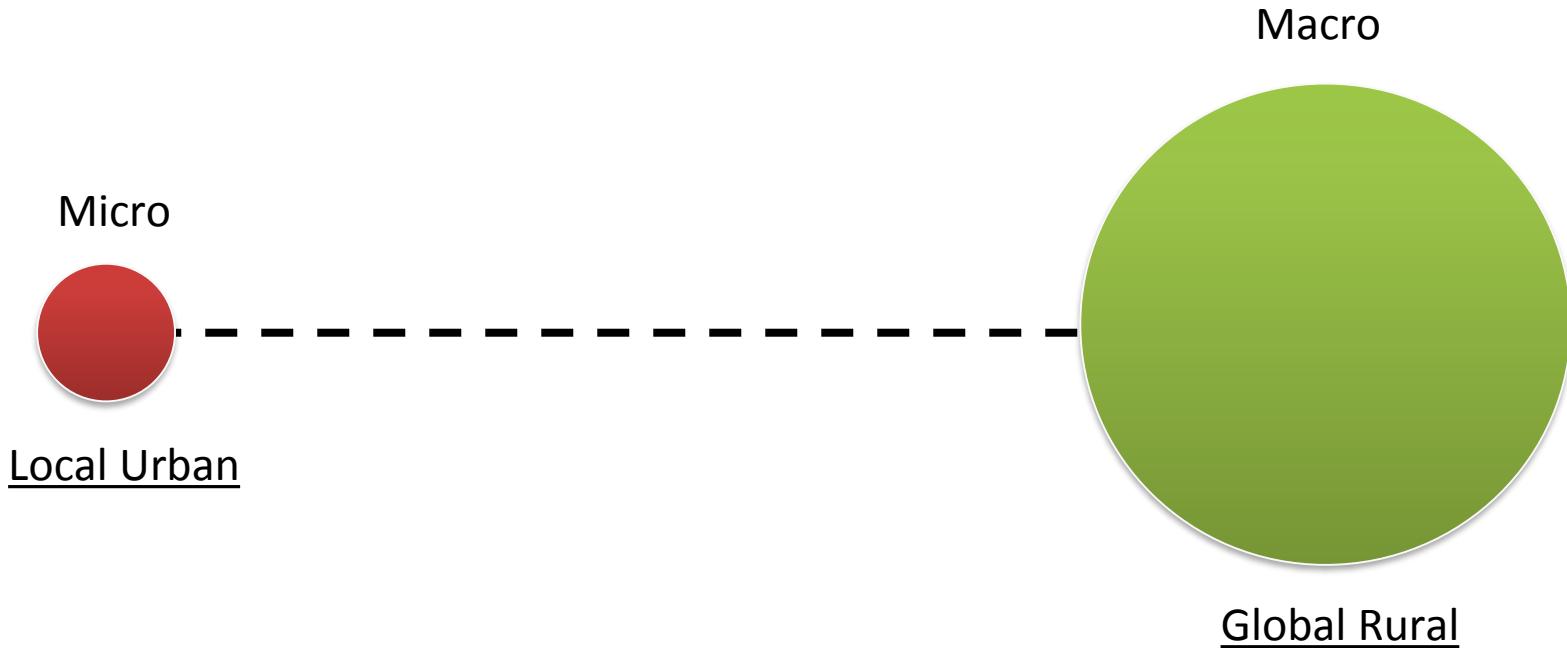


another 35%-50% from abroad

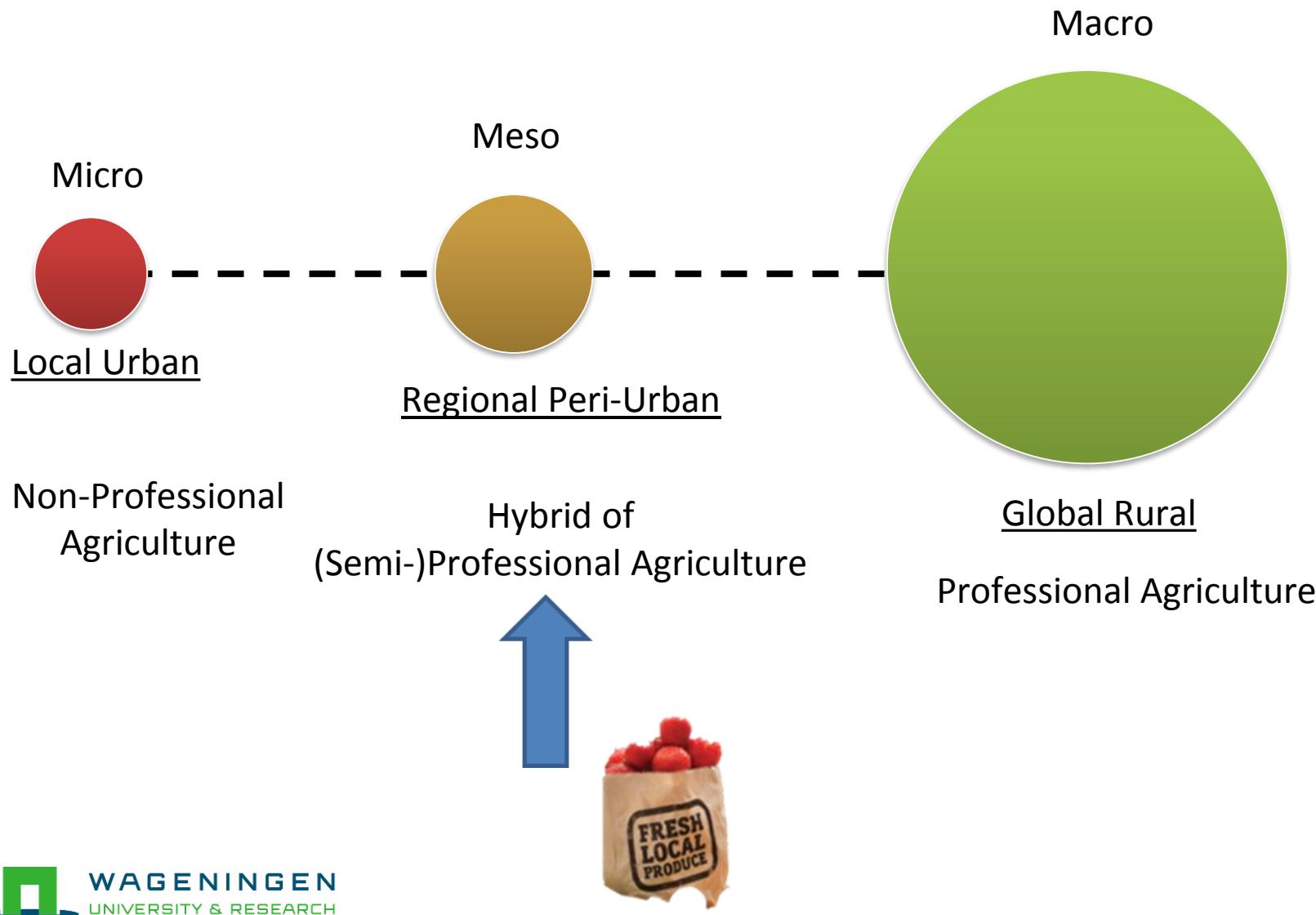
**Vegetable produce versus fodder
total of: 2,145 ha.**



Debate: Secure, Healthy and Sustainable Food

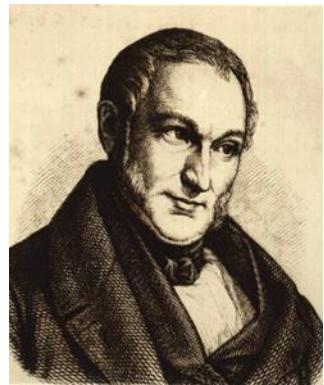


Debate: Secure, Healthy and Sustainable Food



What is new?

City Region Food Systems (RUAF)



cPULS (Viljoen and Bohn)

Sitopia (Steel)

Urban Food Systems (Wiskerke)

Meso level



Climate

Recycling

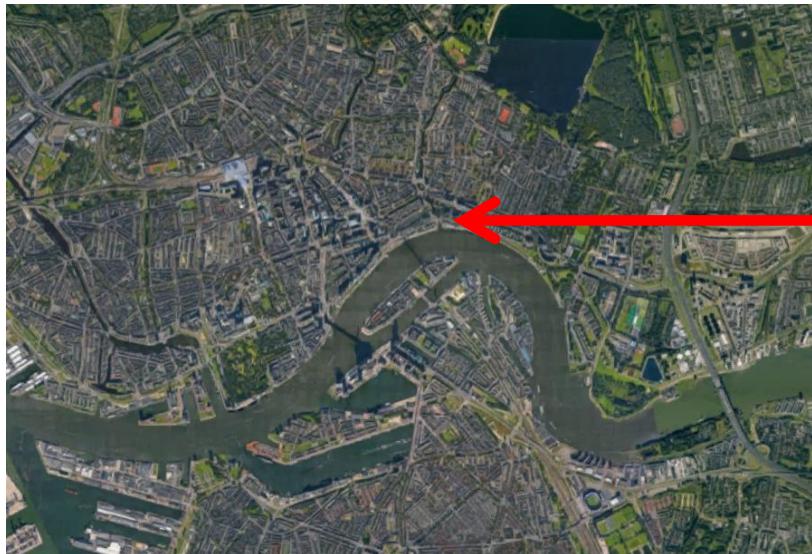
Leisure

Business

Innovation

Education

Recycling: Rotterzwam



Rotterzwam:

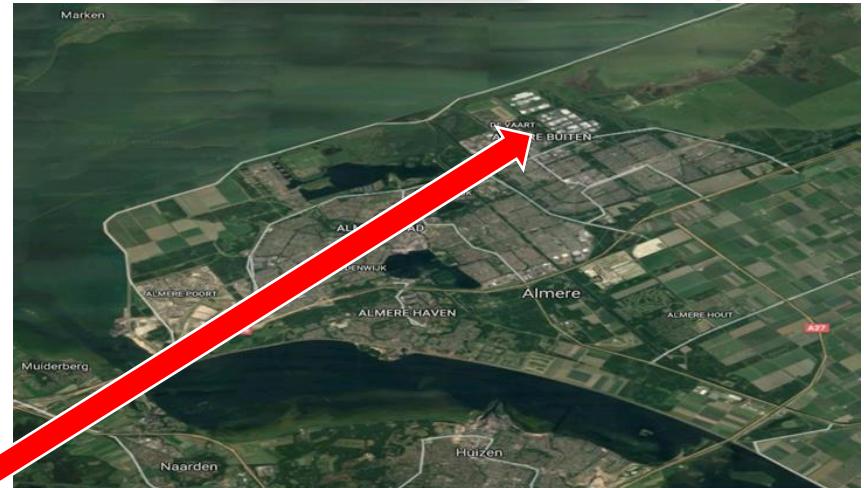
- Mushrooms (Oyster)
- Growkits
- Events: Blue City

Leisure: Onze Volkstuin



300 allotments

- Horticulture
- Leisure
- Social Cohesion



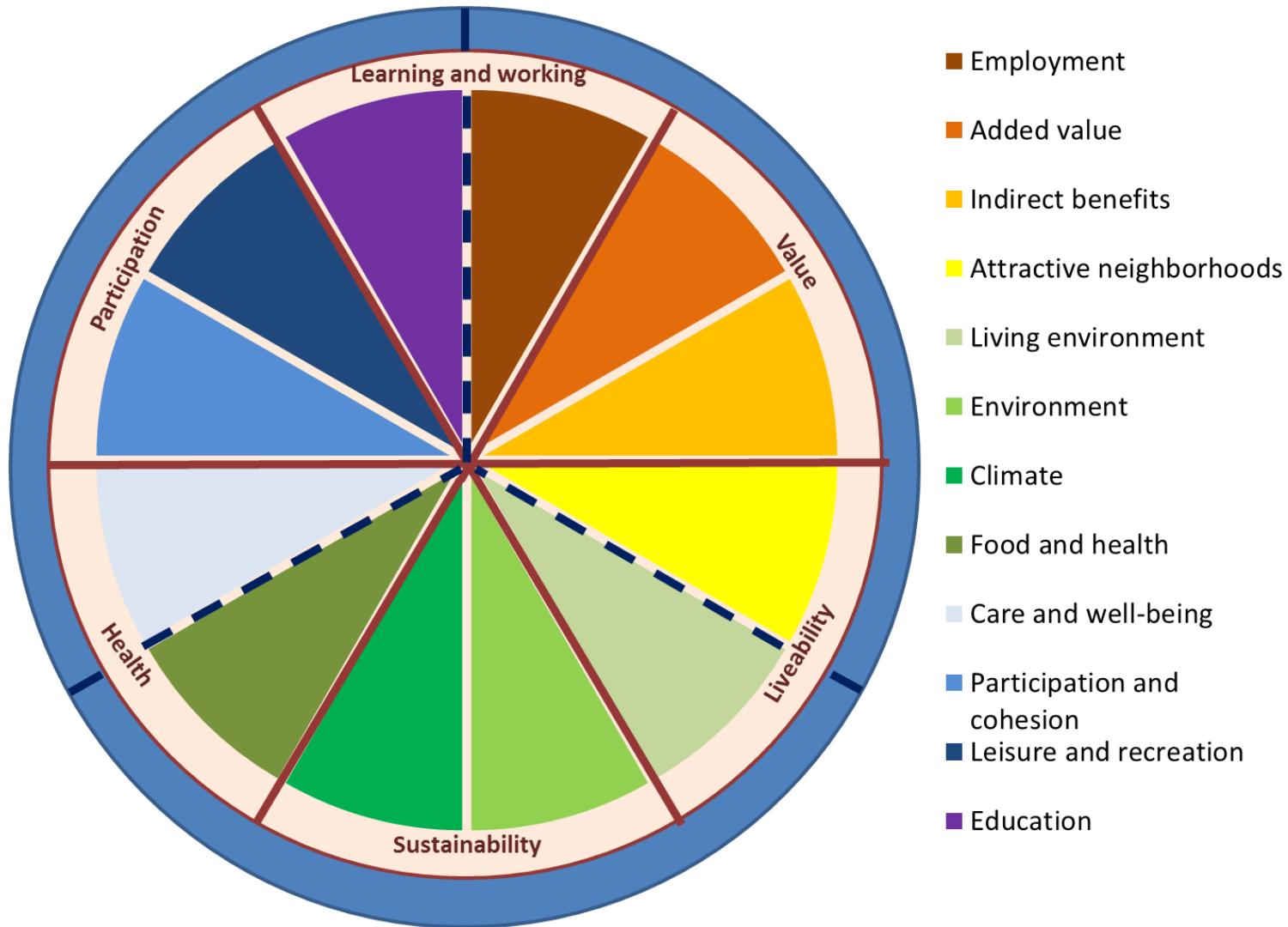
Innovation: Urban Farmers



- Aquaponics
 - Vegetables ca 45 t/jr
 - Fish (Tilapia) ca 19 t/jr
- Leisure
- Circularity



Food at meso level: urban functions

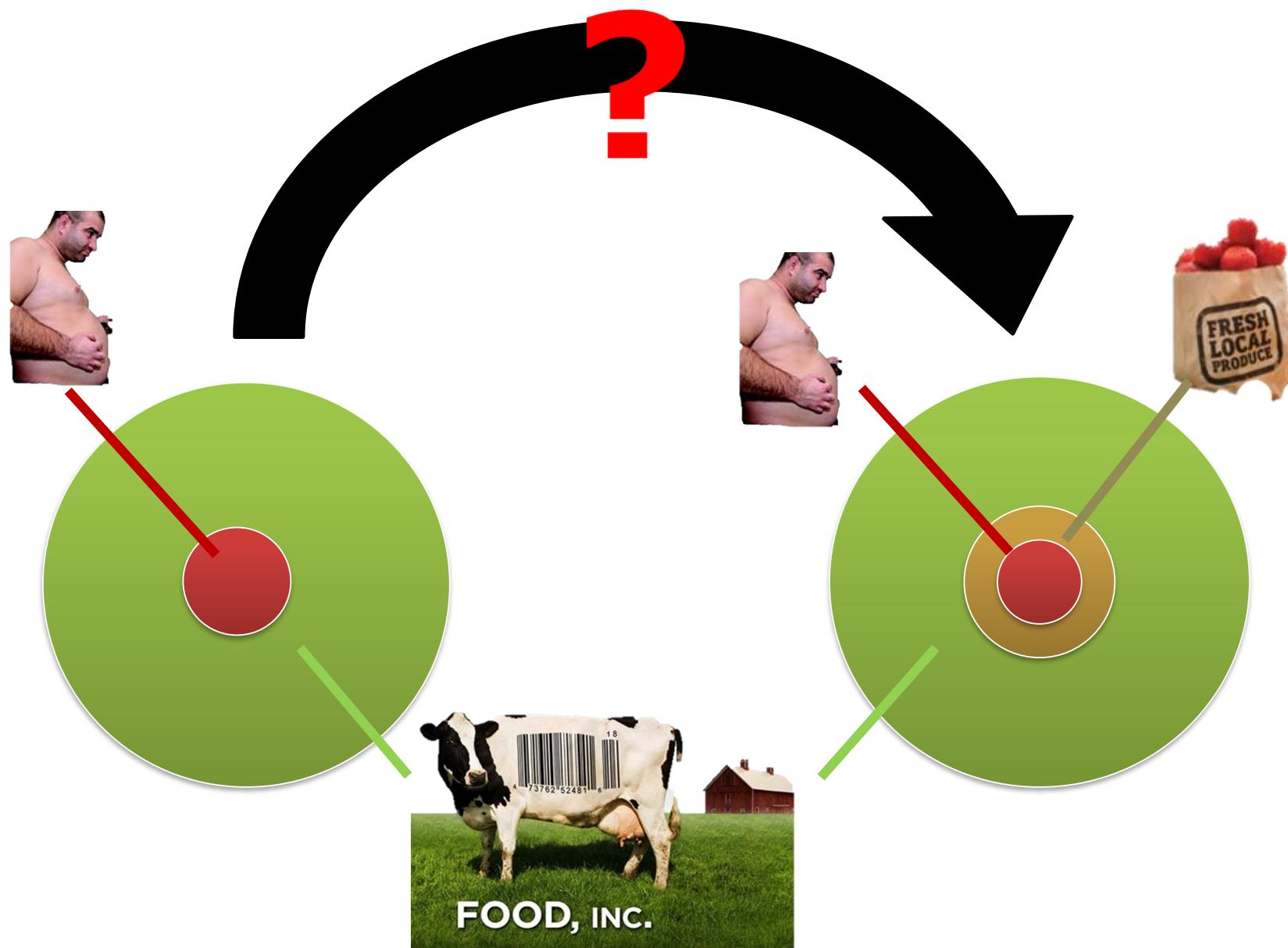


Food at meso level: Business



<https://www.youtube.com/watch?v=Bi3hNsTcda8>

Urban
Agriculture





Greetings from Almere!



An aerial photograph showing a large area of water covering fields and roads. A red rectangular box highlights a specific area in the center-left. The year '1961' is printed at the bottom right.

From water

1961



Through poldering

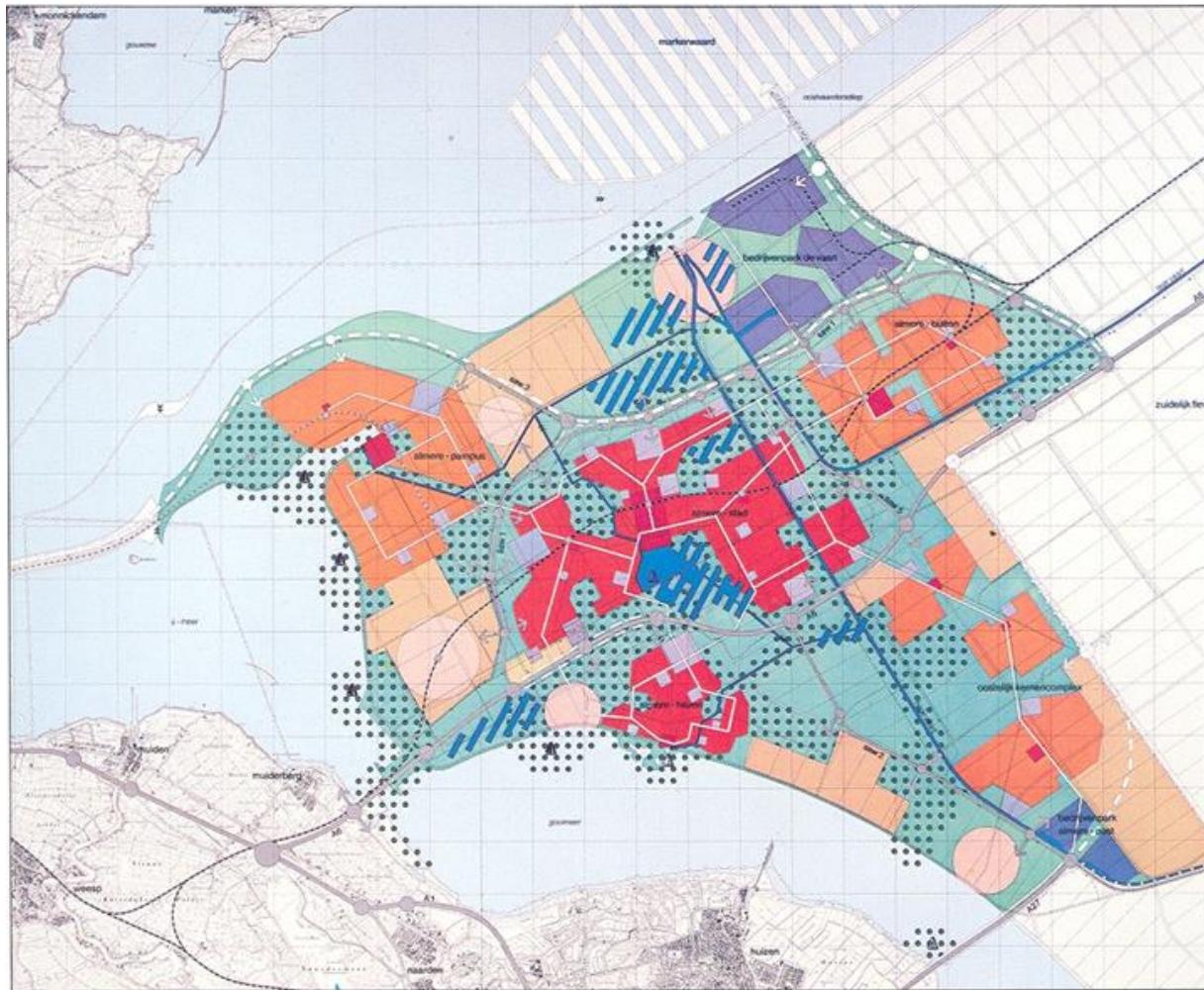
1970



Towards the city of
today...



Blue-print Design Almere (1977)

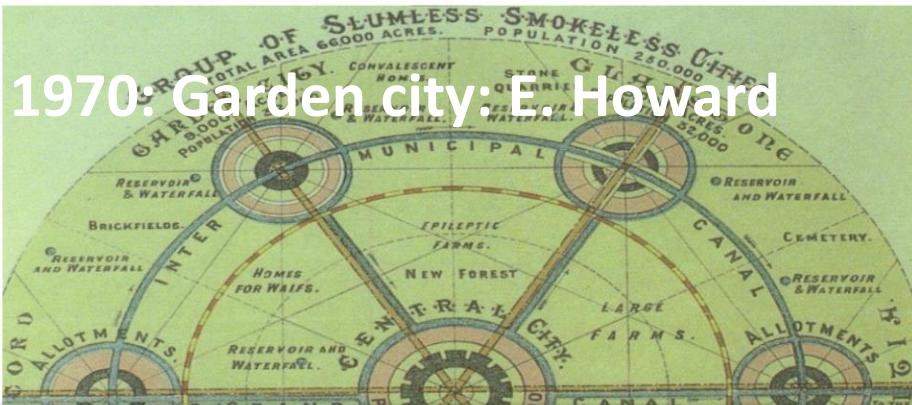




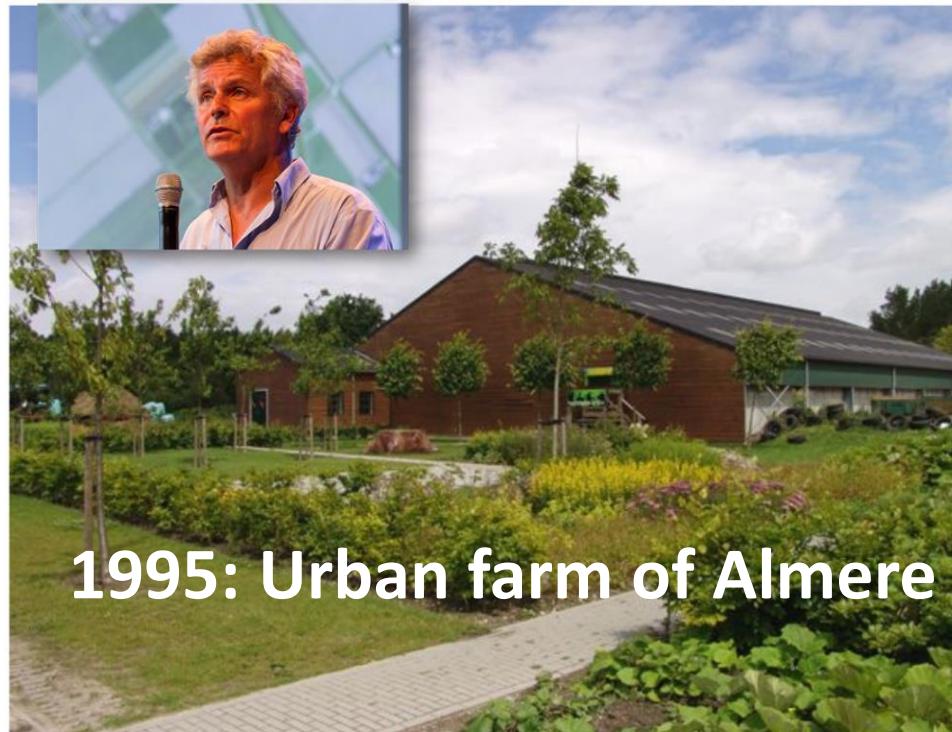
Towards the city of tomorrow...



Starting points for Oosterwold



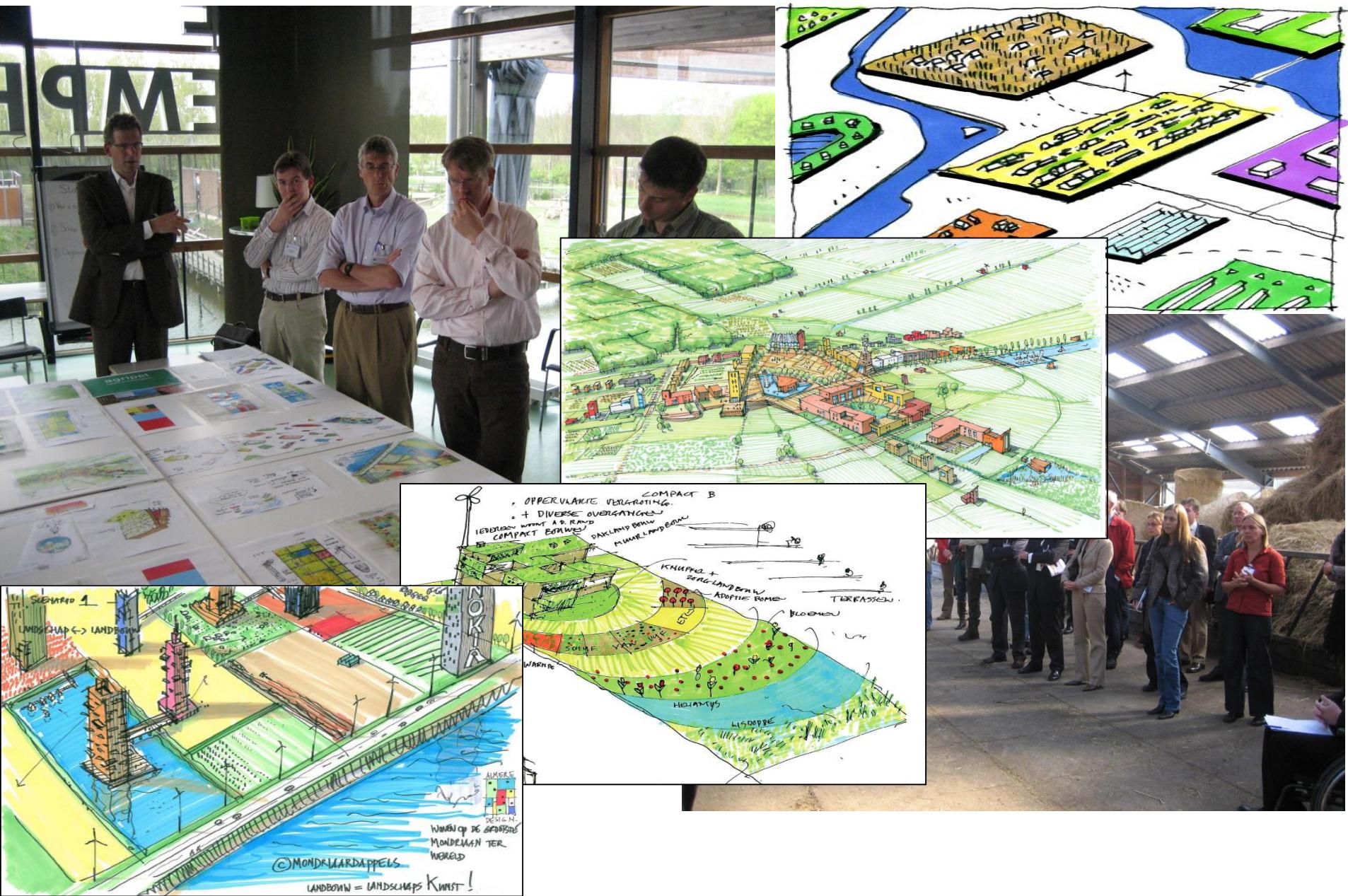
1970: Garden city: E. Howard



1995: Urban farm of Almere



Agromere: Stakeholder & design process



Masterplan Almere 2.0

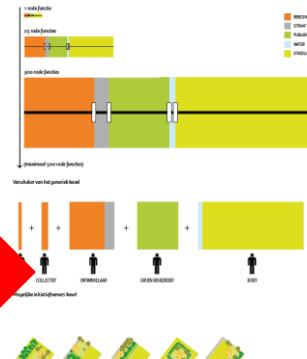
Almere could grow from 190,000 to 350,000 inhabitants. What will the 'Schaalsprong' mean for the city and the Amsterdam Metropolitan Area

Summary, Draft Strategic Vision Almere 2.0

2009



2012-13



2015>



Do it Yourself Urbanism Planning

- 4,300 ha,
- Limited set of 10 rules, like:
 - People make Oosterwold
 - Public investment is secondary
 - 50% or more urban agriculture
 - Your lot is self-sustaining
- High level of self organisation
- No fixed final image



2014



20..



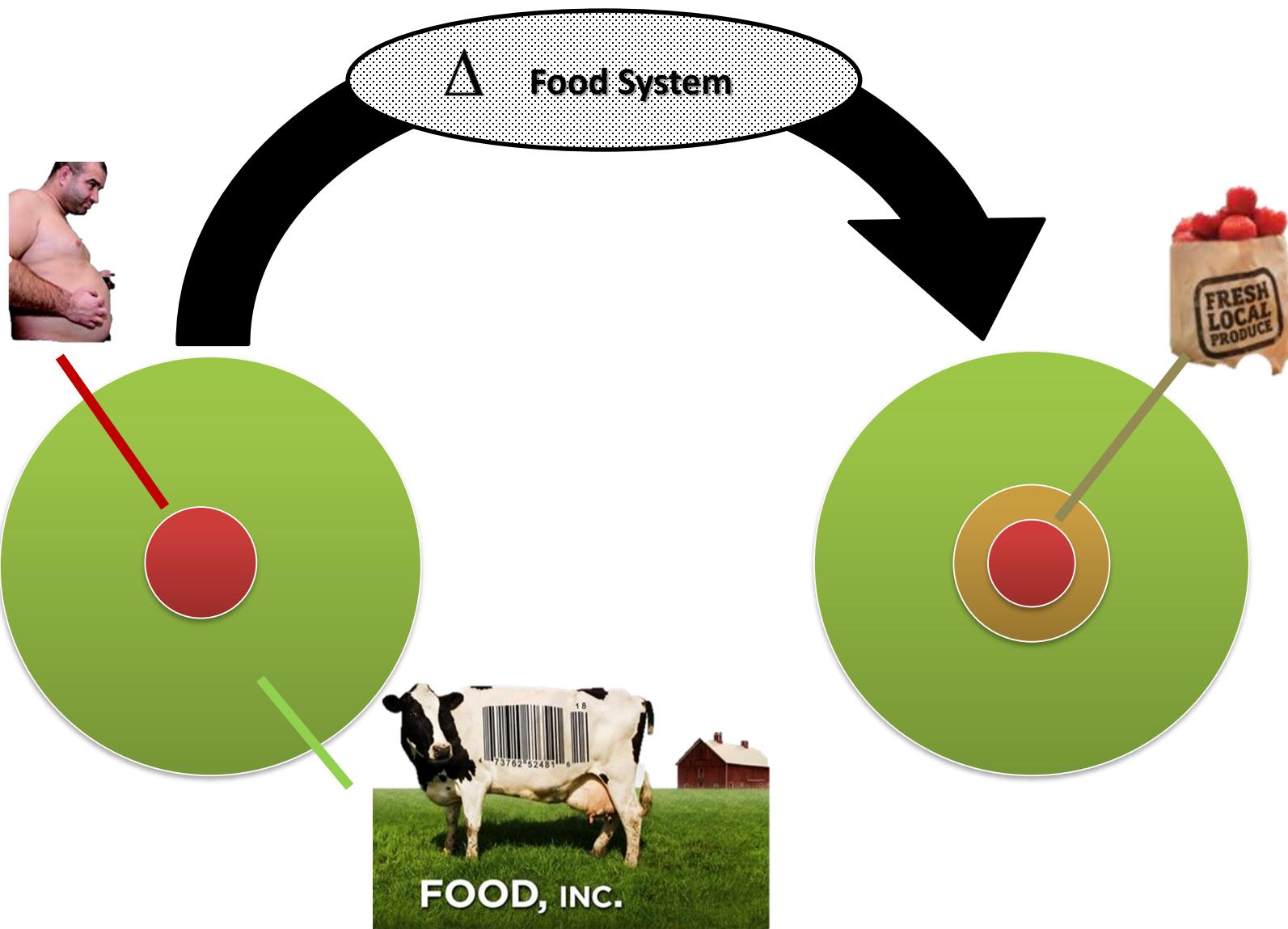
20..



2030



Ambition of experiment Oosterwold



Theoretical perspective on planning

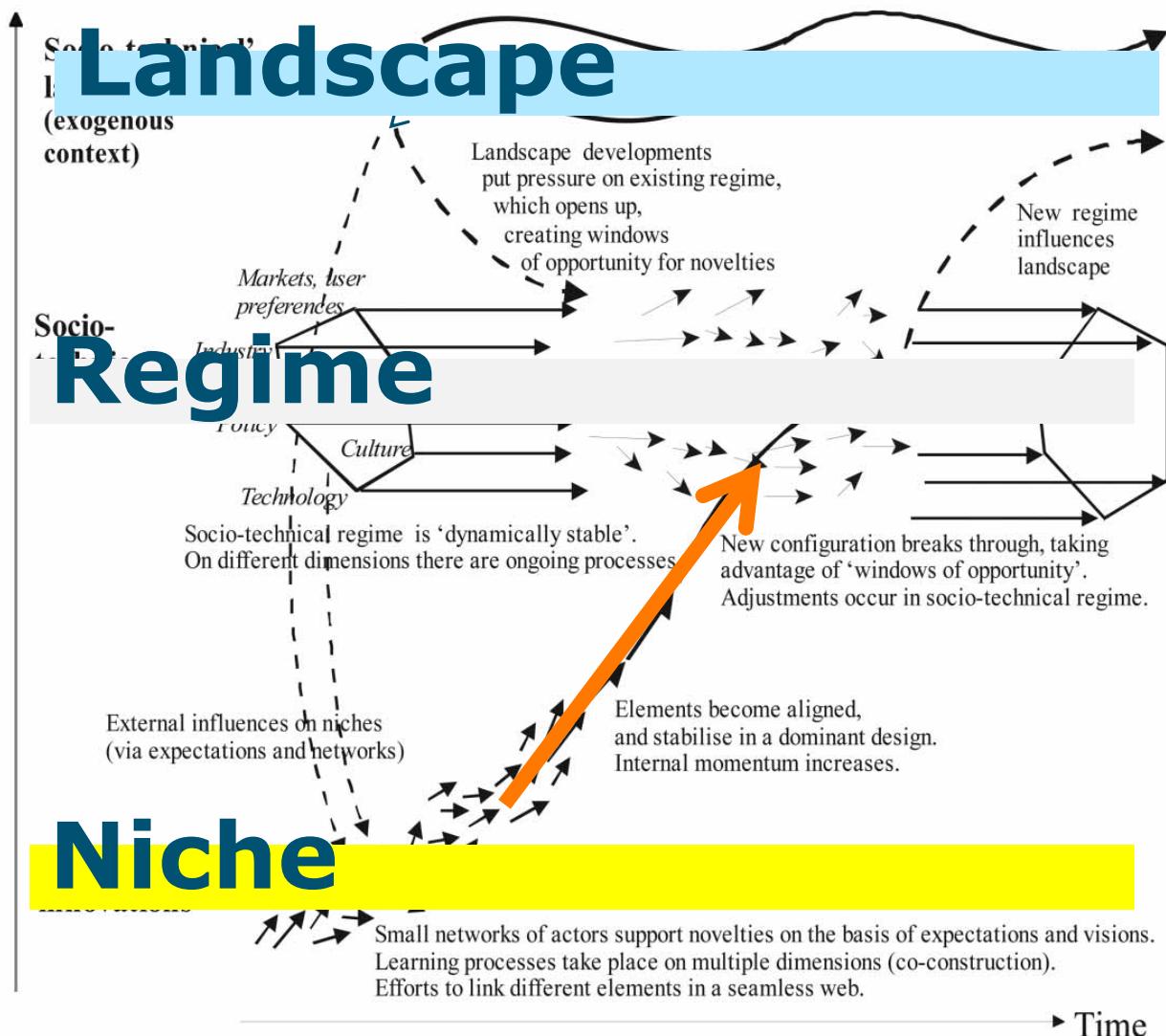


Adaptive, flexible still robust
**CHANGE
AHEAD**
External conditions...

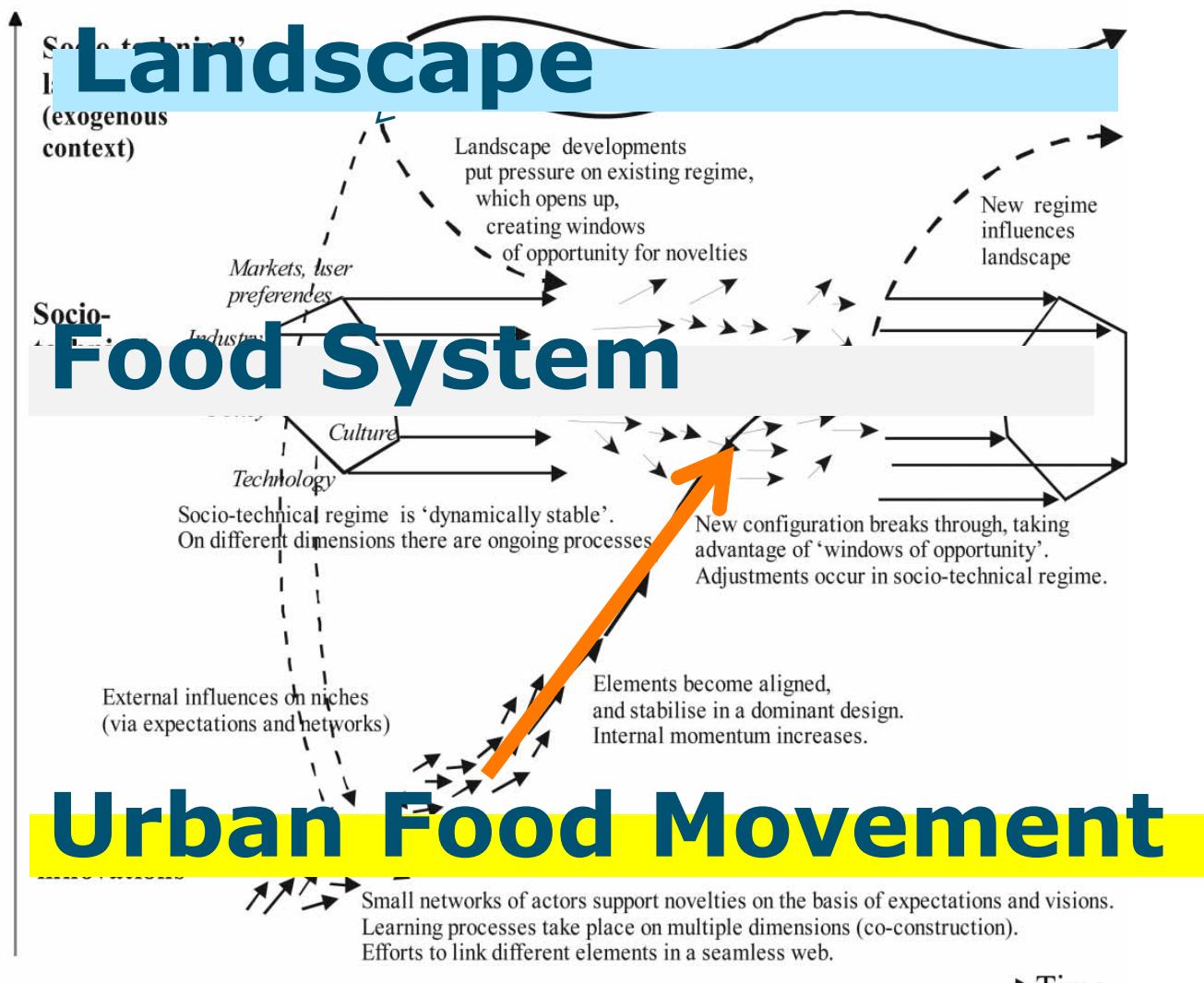
Theoretical perspective on planning

- Approach 1: Multilevel Perspective of Transition (Geels et al., 2002)
- Approach 2: Social Practise Theory (Shove et al., 2012)

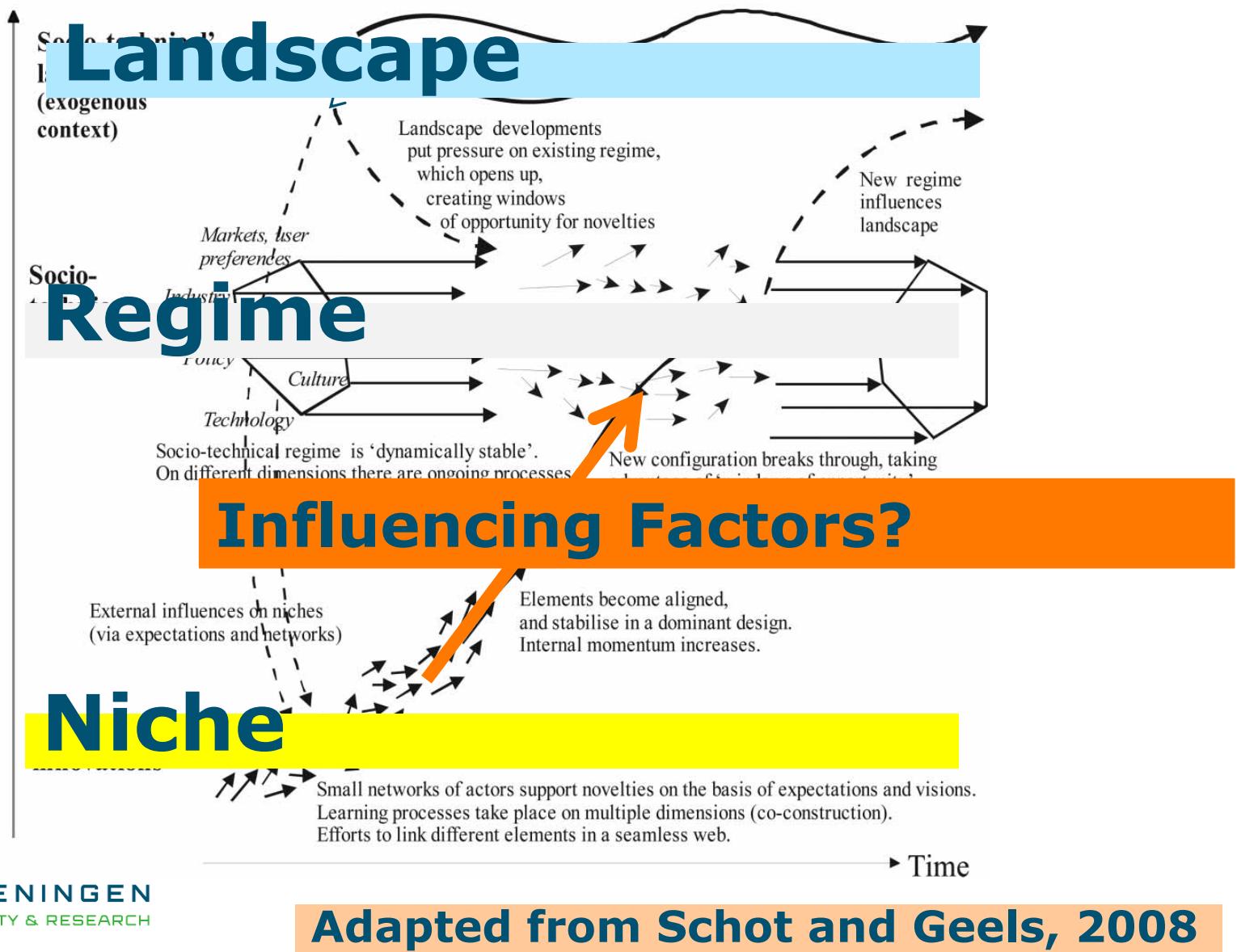
Multilevel perspective of transition



Multilevel perspective of transition



Multilevel perspective of transition

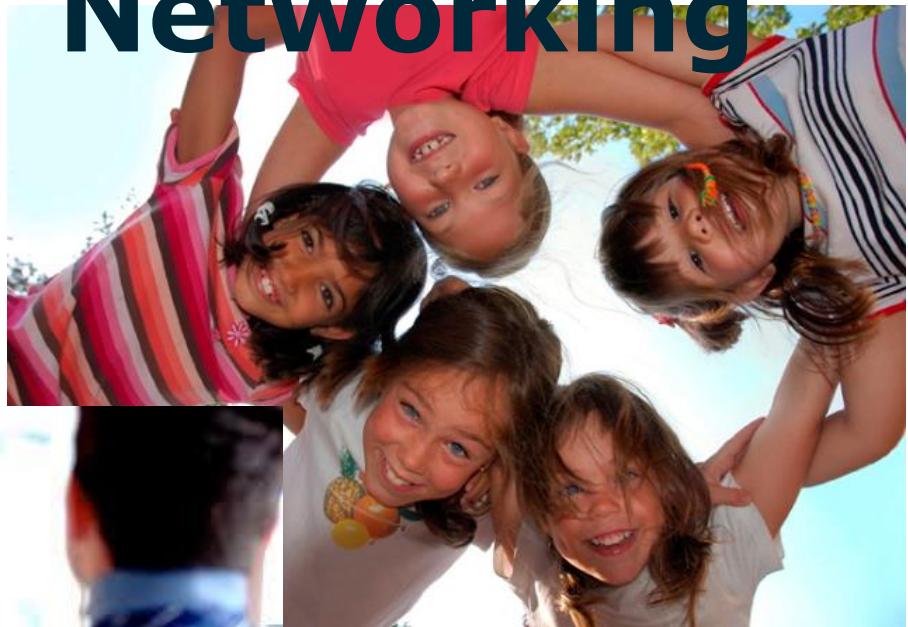


Transition is about...

Learning



Networking



Manage it

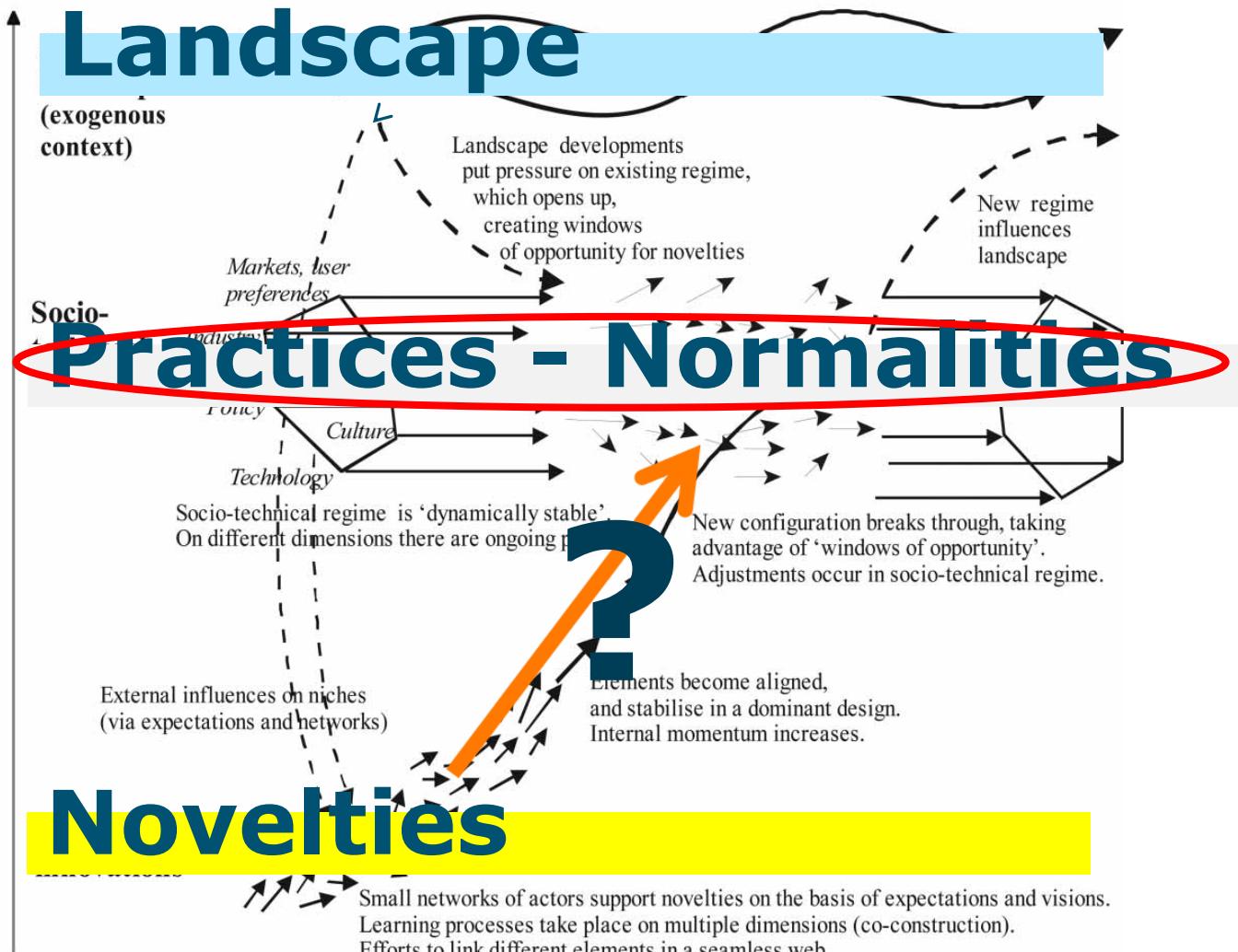


Visioning

Experimenting



Social Practise Theory (Shove)



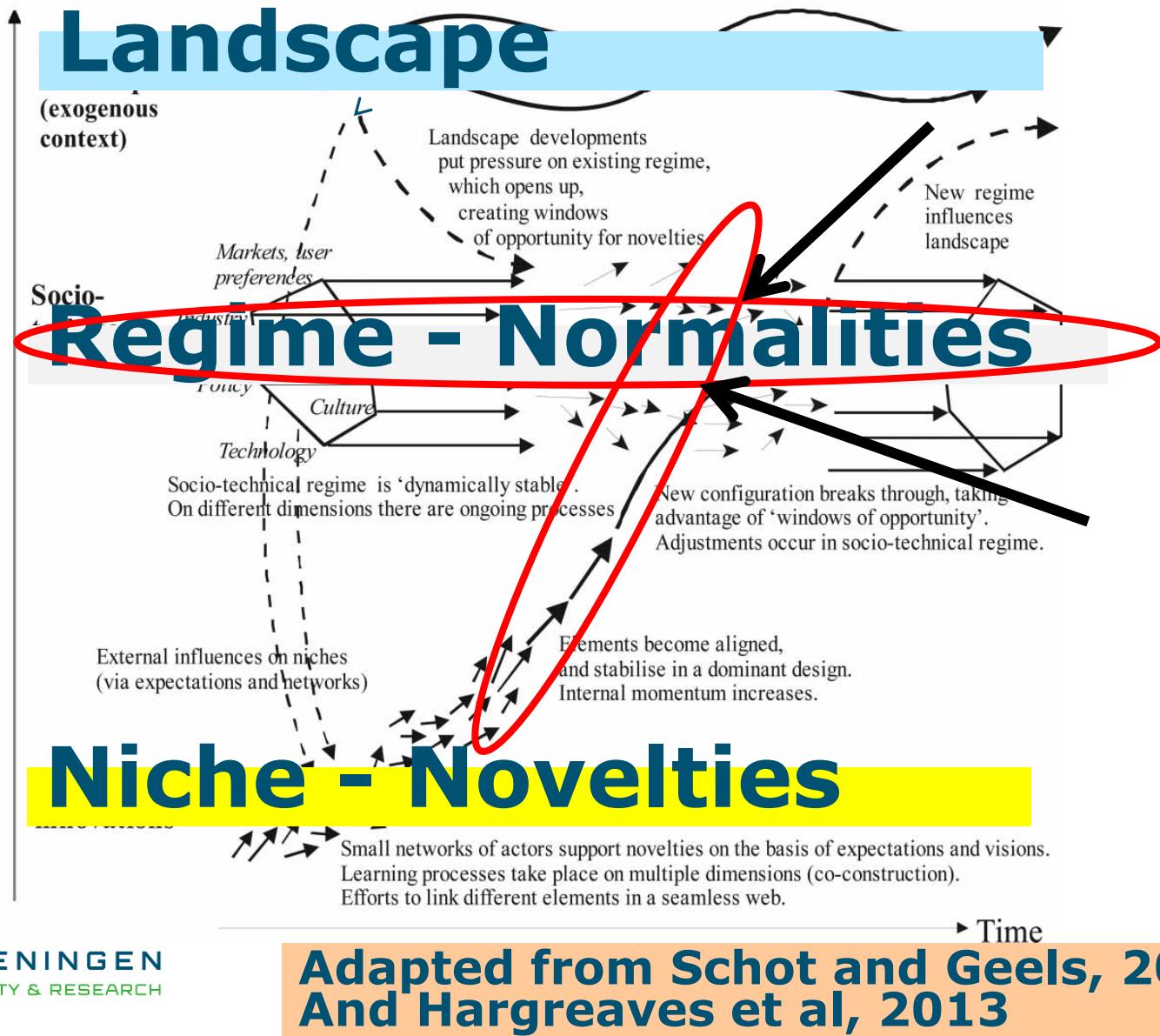
Practice of Food/consumption

Change is about interaction of:

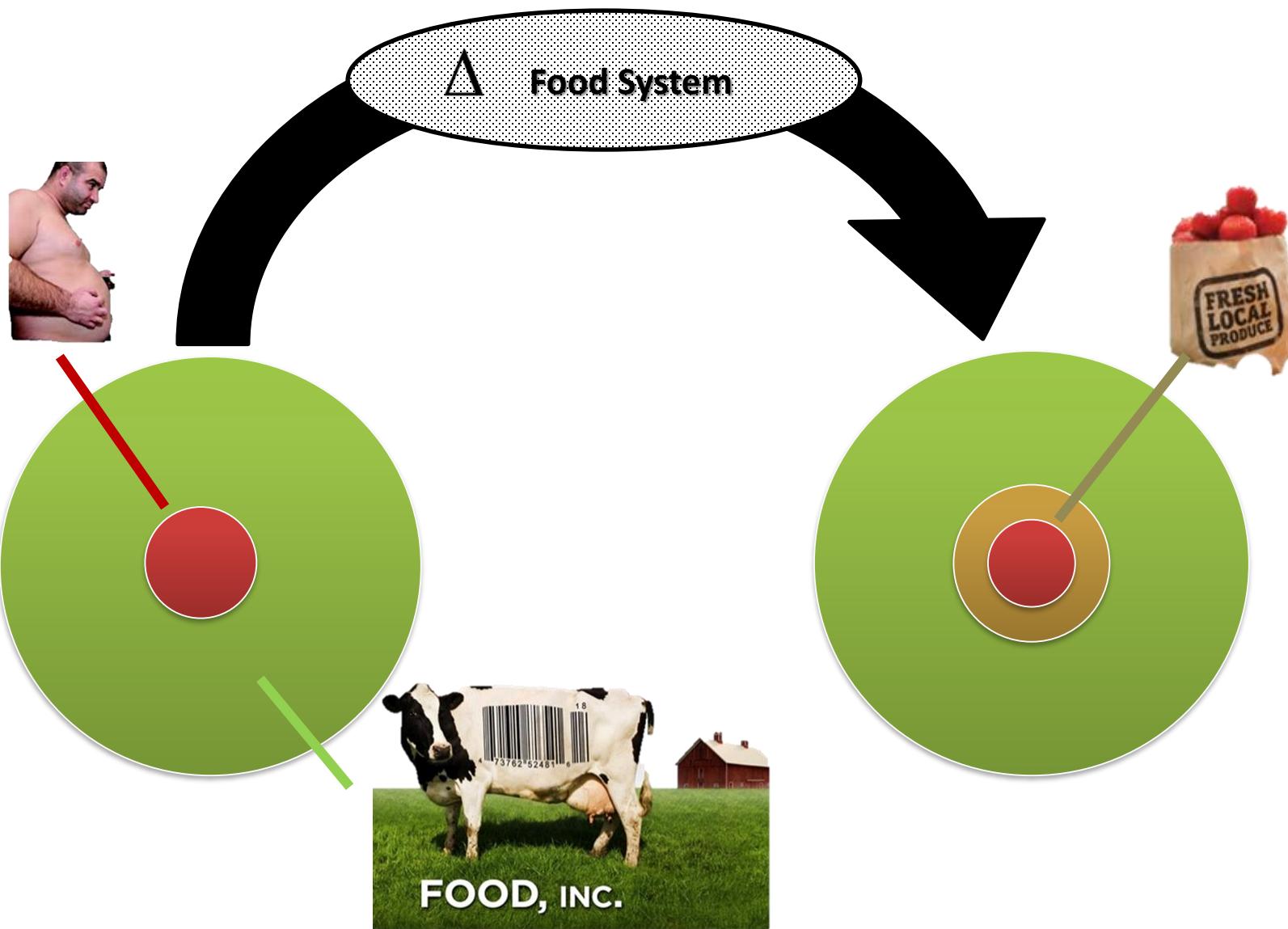
- Meanings (Symbolic meanings)
- Competences (Skills, Know how)
- Materials (Equipment, Technology)



Points of intersection between MLP and SPT



Ambition of experiment Oosterwold



Oosterwold experiment

Regimes

Food System

Context

Outcome

Practices

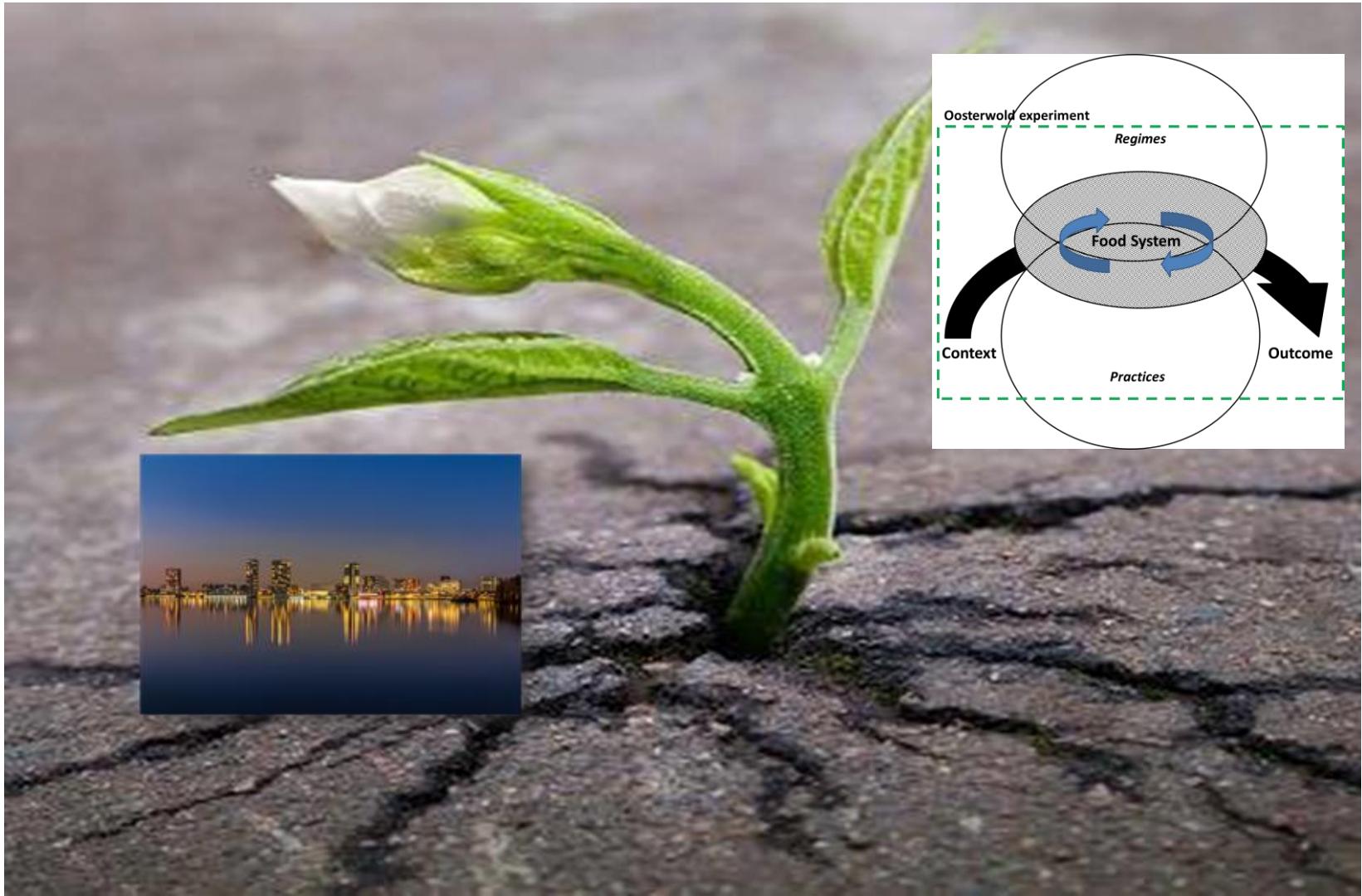
Practices and Regimes in Oosterwold

<https://www.youtube.com/watch?v=sBNRMG78wTA>

<https://www.youtube.com/watch?v=zTN3KQdV0OU>



Take Home Message...



Thanks!

www.stedelijkefoodprint.nl

www.stadlandrelaties.nl

www.flevocampus.nl

