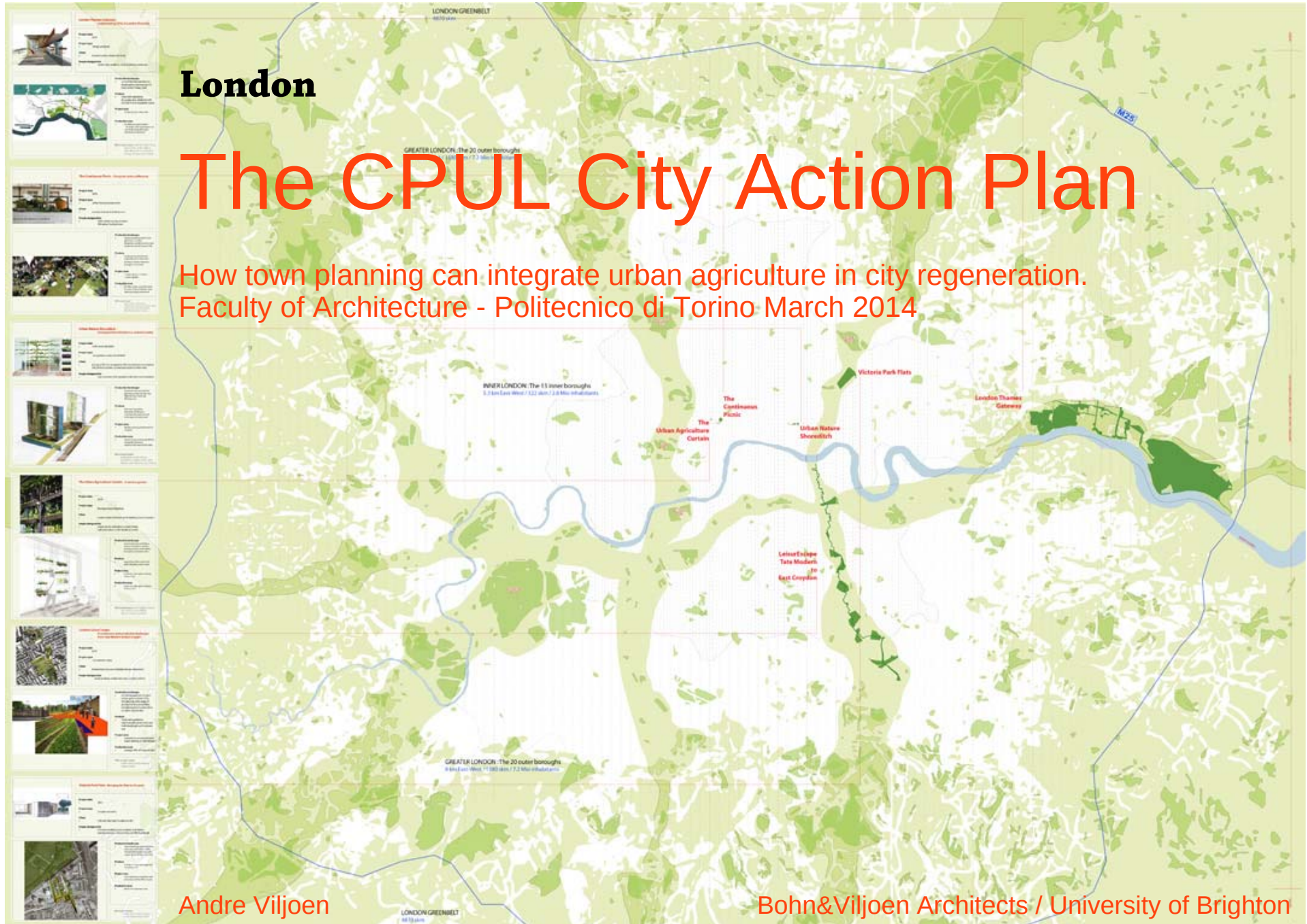


London

The CPUL City Action Plan

How town planning can integrate urban agriculture in city regeneration.
Faculty of Architecture - Politecnico di Torino March 2014



What is a CPUL City?

CPUL City

People
Productivity
Biodiversity

A
BIOSPHERE
CITY



images: Bohn&Viljoen

Continuous Productive Urban Landscape [CPUL]

[C] connects open space :
parcels of inner-urban open land,
inner-urban land to a new
infrastructure,
inner-urban land to the rural land

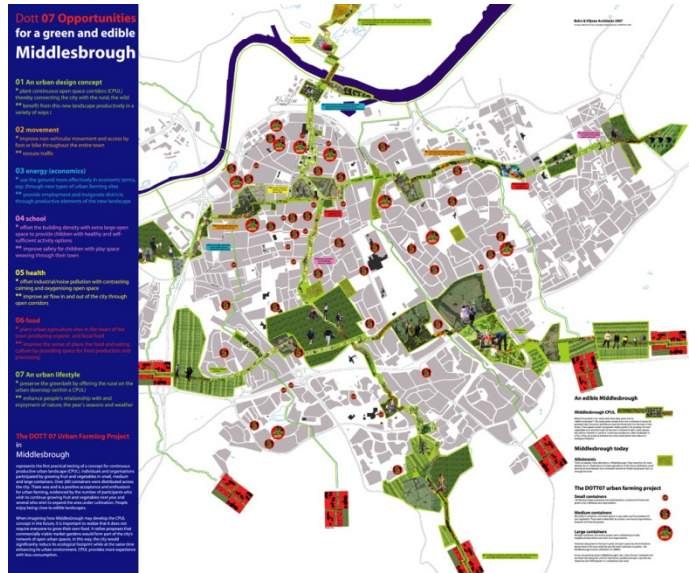
[P] uses open space :
through placing Urban Agriculture
environmentally,
economically and
socially productive

[U] happens 'inside' :
the greenbelt stays green,
greenfield sites stay green,
brownfield sites become green

[L] is landscape :
with spatial and visual qualities
of the rural and the urban



Productive Networks : Essential Infrastructure for daily use in the city



CPUL could transport and supply:

primaries :: f.e. air, wildlife

people :: to compliment and alternative to road and car traffic

spatial coherence :: f.e. the long view, the closeness to nature

cultural coherence :: f.e. the constant offer to encounter, communicate

food stuff :: production – retail – consumption - recycling

image: *The Urban Farming Project* – Middlesbrough – Bohn&Viljoen Architects (consultants) – 2006/2007

image: *LeisurEscape* - London - Bohn&Viljoen - 2003

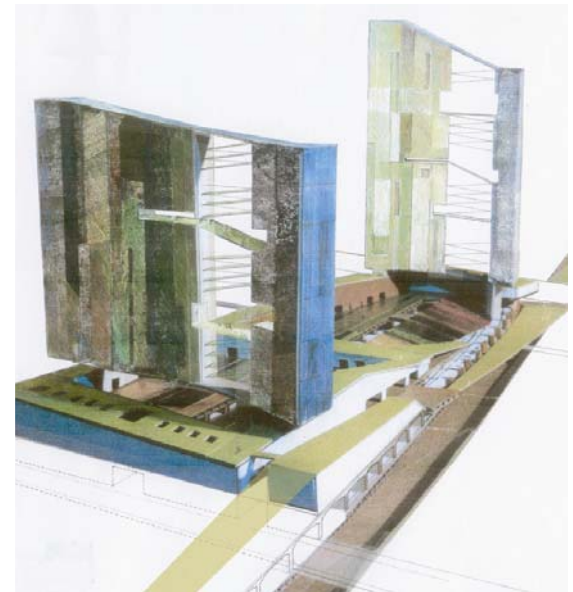




e.g. at the scale of the city

PRODUCTIVE LANDSCAPE

and the desire for an
abundant city



e.g. at the scale of a building

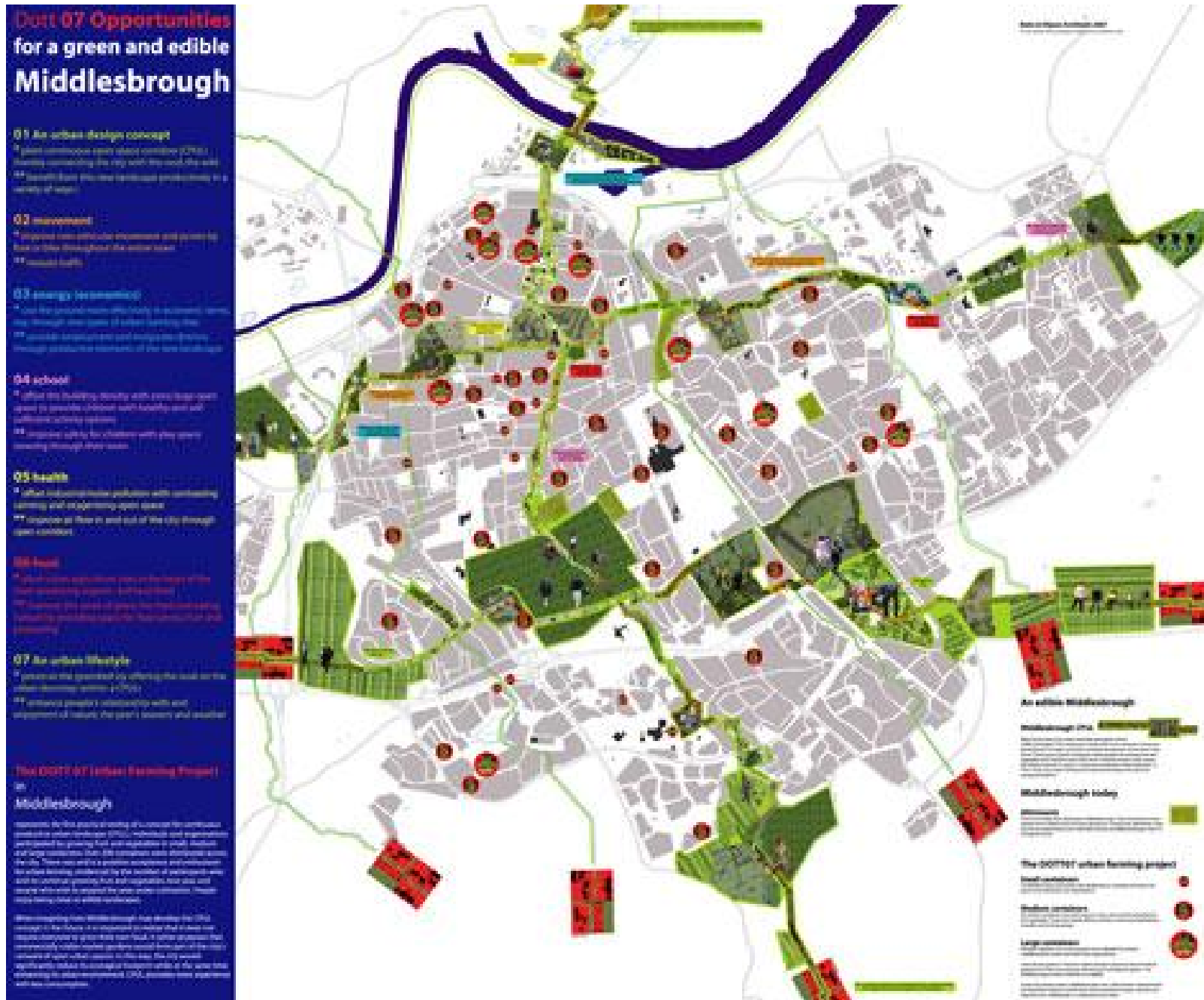


e.g. at the interior scale



e.g. at the scale of urban space

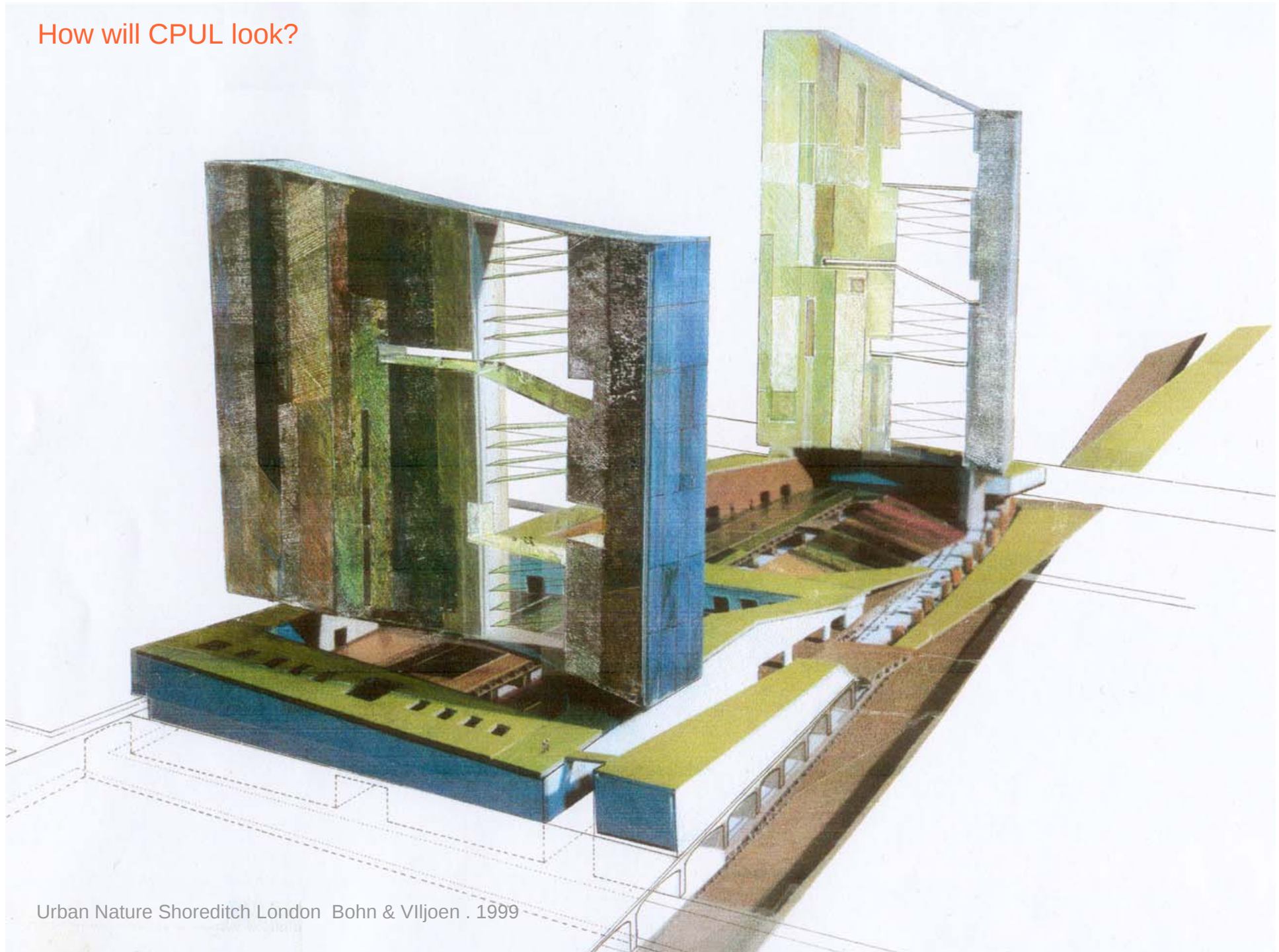
2007: a CPUL opportunity map for Middlesbrough



Urban Habitats : The Desire-In-Use of open urban space



How will CPUL look?



Urban Nature Shoreditch London Bohn & Vlljoen . 1999

London Yields exhibition . The Building Centre, London . 2009

The Urban Agriculture Curtain



image: Bohn&Viljoen . 2009

Emerging and evolving
practice and policy



About RESOURCES and URBAN AGRICULTURE

images: Bohn&Viljoen Architects . 2012, 2002



images: Bohn&Viljoen Architects . 2011, 2005



images: Bohn&Viljoen Architects . 2002, 2011

The CPUL City Action Plan

Enabling CPUL City : What is unique? What is needed?

U+D

- + infrastructural and/or system projects - such as CPUL - need parallel top-down and bottom-up initiative(s)

Vis

- + qualities of urban agriculture need visualising – drawn and built - to influence decision makers and raise public desire

IUC

- + an *Inventory of Urban Capacity* is necessary, esp. of spatial, stakeholder and managerial capacities

R

- + constant research, development and dissemination will consolidate the CPUL concept

The CPUL City Toolkit : Actions, Planning, Elements & Design

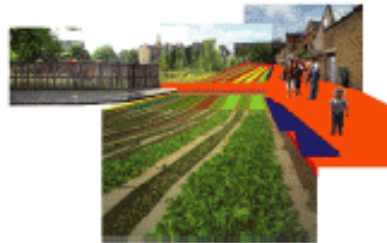


THE CONTINUOUS PICNIC



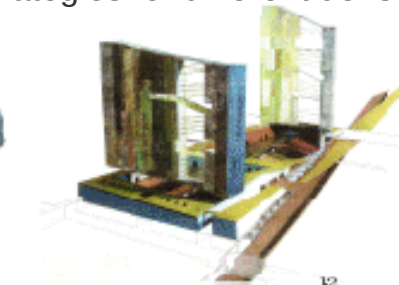
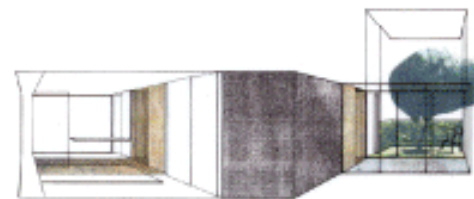
- (1) Work with local food groups
- (2) Stage events, create meeting occasions

- (3) Combine top-down and bottom-up strategies
- (4) Map physical resources, land, water and sun

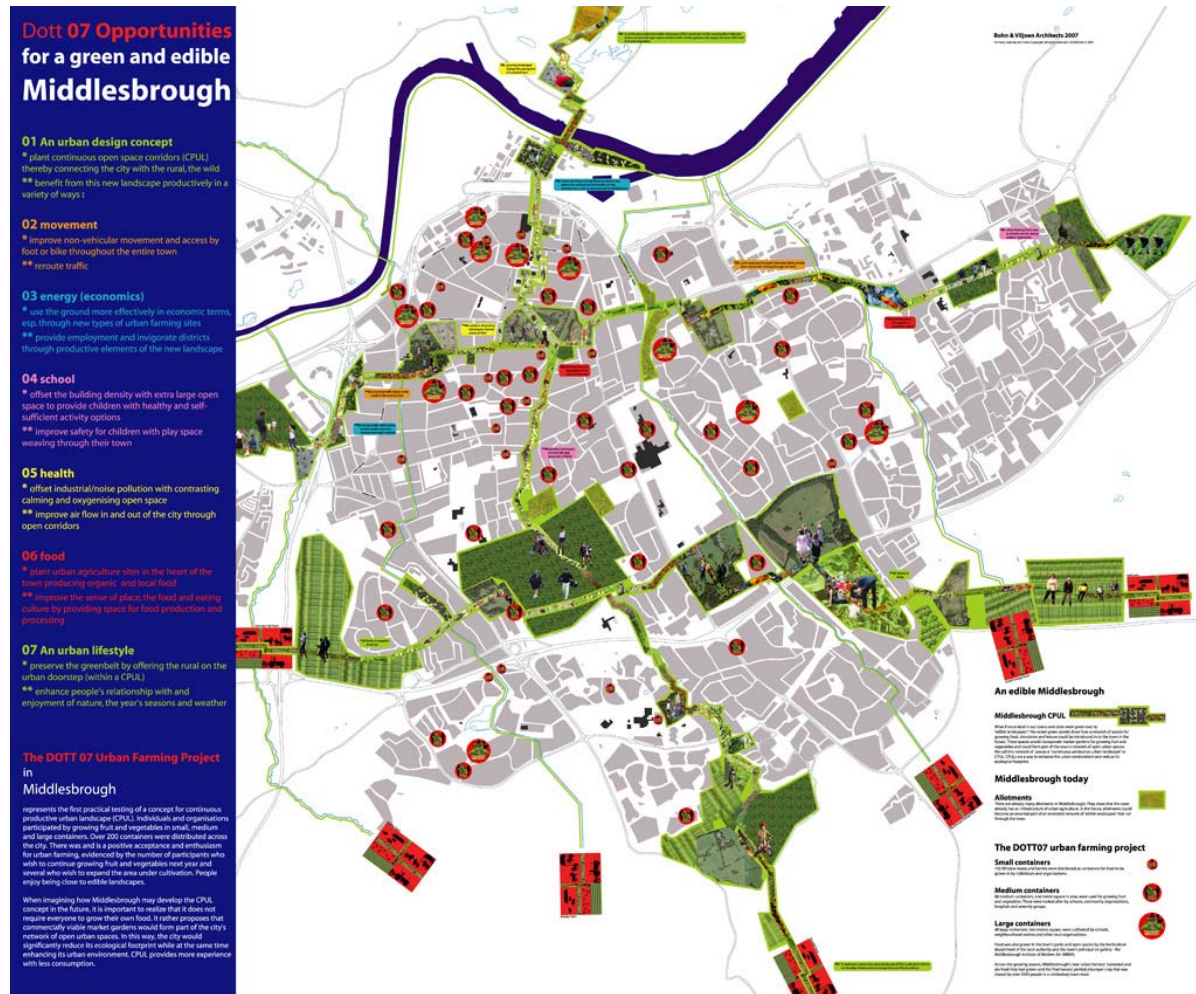


- (5) Make no-waste systems: compost, grow, eat, compost
- (6) Ecological intensification on open urban space
- (9) See the potential for urban agriculture as organic ornament

- (7) New economic models & fair trade for farmers
- (8) Think 3d: raised beds, walls, roofs, fences
- (10) – (12) Develop strategies for different densities



The Urban Farming Project Middlesbrough



CPUL evaluation threshold



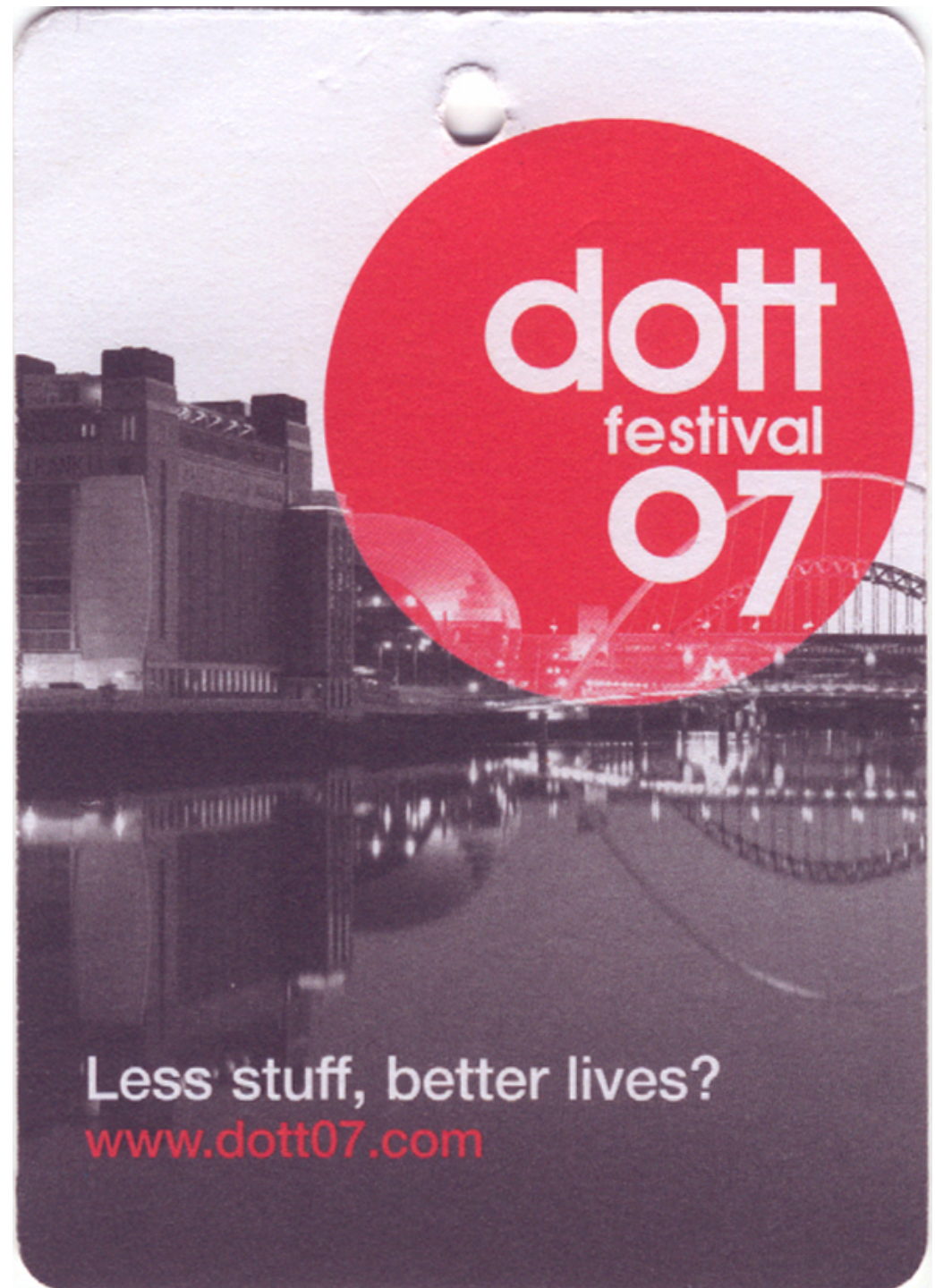
project's
aim was
reached

Visualising CPUL

The Middlesbrough Urban Farming Project:

A 1:1 project on local food growing

- + dott's aim
to engage public in design
- + Middlesbrough's aim
to improve its urban life quality
- + b&v's aim
enable people to experience a CPUL



The Town Meal : growing it



The Town Meal: Middlesbrough DOTT 07 and after.....



**THE
REALLY
SUPER
MARKET
FOOD & ART
BOB & ROBERTA SMITH**



Saturday 31st August
12.00 - 4.00pm
Centre Square, Middlesbrough

MIDDLESBROUGH
TOWN MEAL

Join us for a Fun Filled Day! 2013

Entertainment for all the family
Farmers' Market - Produce Competition
Pony Riding - Chef Demonstrations
Vintage Bus Rides to the Transporter Bridge

And of course...
The Free Meal
made from produce grown in and around the area

For further information contact
Middlesbrough Environment City
on 01642 243183 or visit menvality.org.uk



The Town Meal : a CPUL opportunity map for Middlesbrough



London Thames Gateway Report

In einigen Bereichen des Bearbeitungsgebietes *London Riverside* ist nur die Stadtautobahn in städtischem Besitz. Sie wird zum CPUL-Verbinder.



IUC

U+D

CPUL evaluation threshold

Vis

IUC

R

project's
aim was
reached

The CPUL City

Inventories of Urban Capacity : Interdependencies Fish Island Study

FOOD SYSTEMS MAP



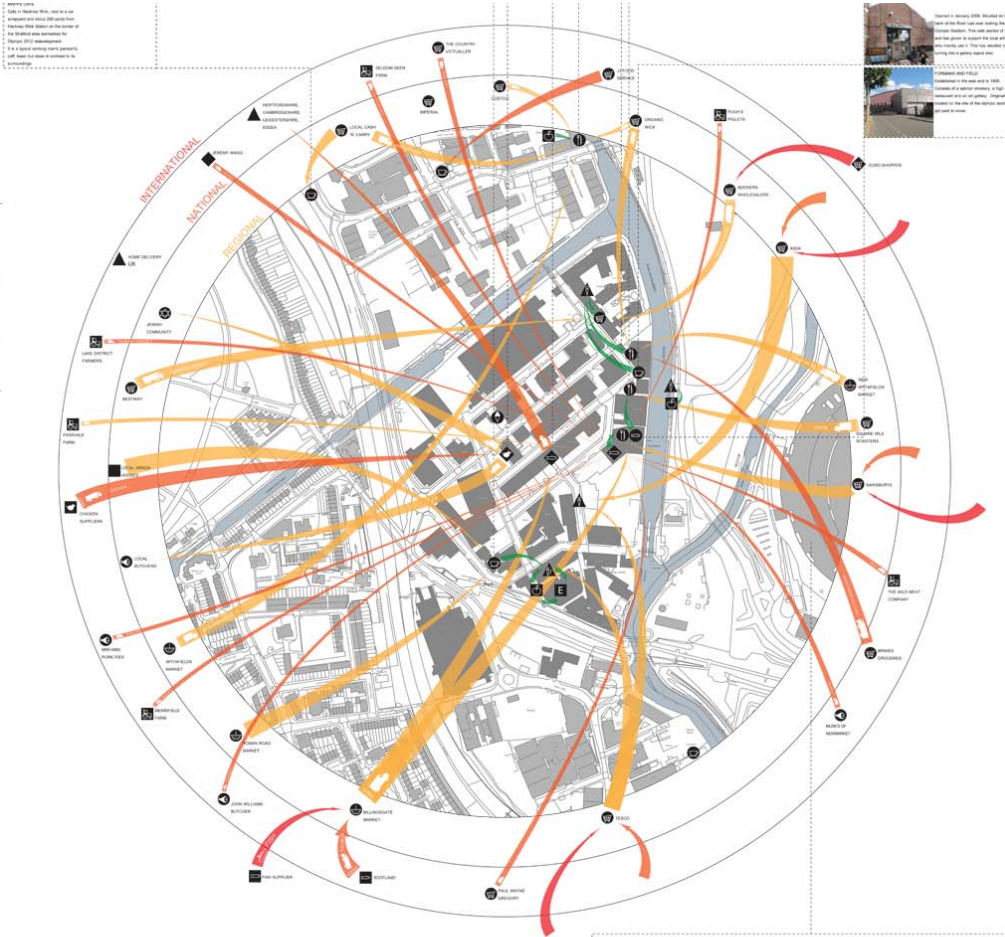
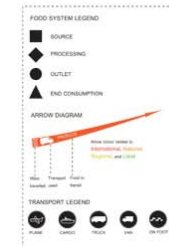
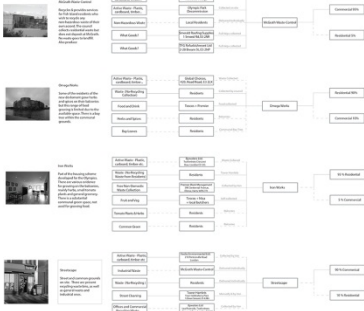
FOOD SYSTEMS MAP

Looking at the food systems already present in Fish Island.

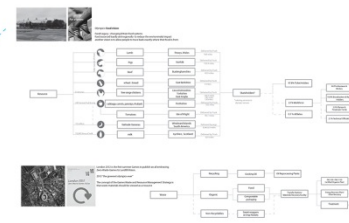
RESTAURANTS



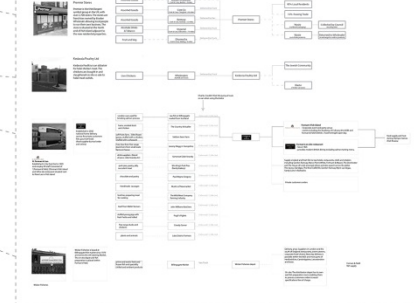
RESIDENTIAL



OLYMPICS



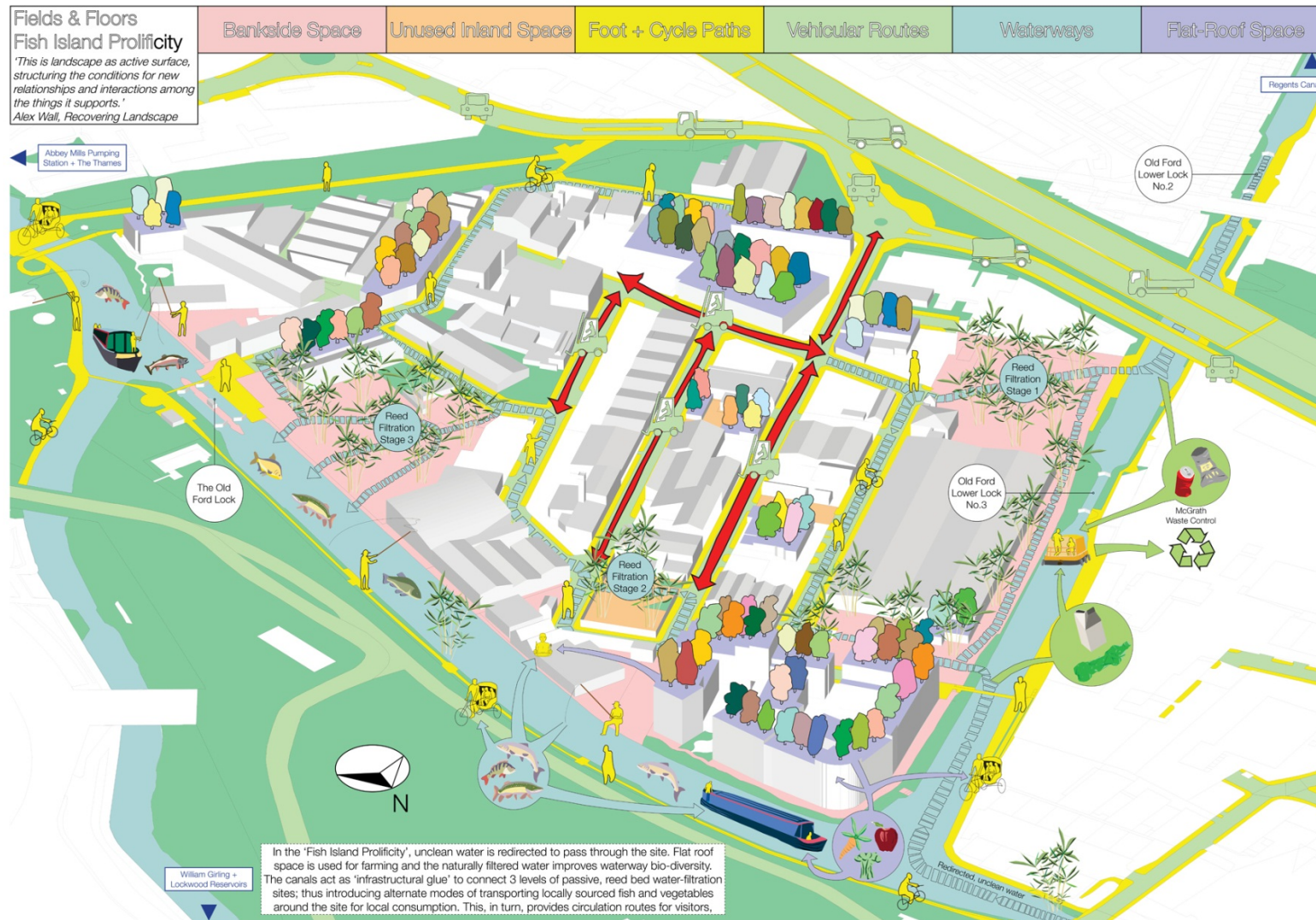
FOOD PROCESSING



ARTIST AND INDUSTRY



Opportunity Maps : Fish Island Study London



Spiel/Feld Marzahn



image: Bohn&Viljoen - 2012

CPUL evaluation threshold

Vis

U+D

Vis

IUC

R

project's
aim was
reached

Spiel/Feld Marzahn - Berlin - 2009 – 2012 – Chair of City & Nutrition, TU Berlin



images: Kristian Ritzmann, Yvonne Griephan, Ninon Weber, TU Berlin students, Katrin Bohn – 2011, 2012



images: Kristian Ritzmann, Katrin Bohn - 2012





The Urban Agriculture Curtain



R

U+D

Vis

IUC

R

project's
aim was
reached

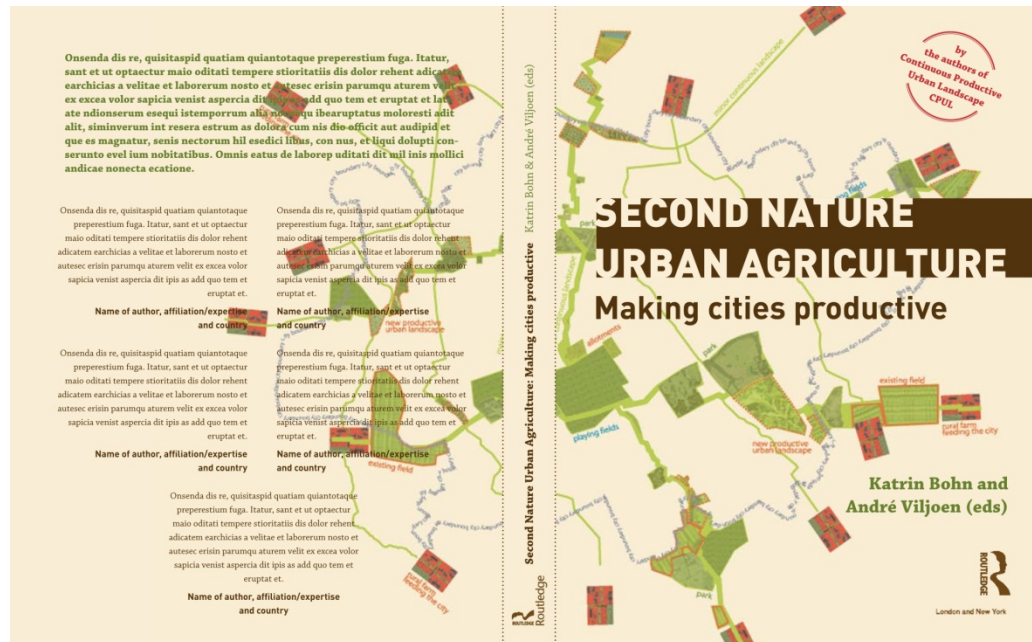
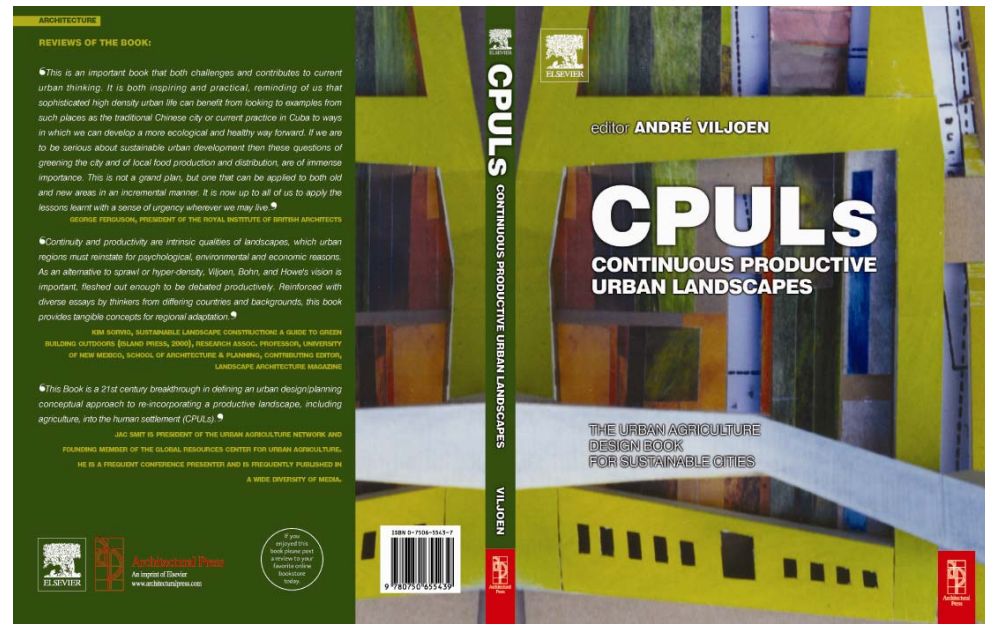
CPUL evaluation threshold

The Urban Agriculture Curtain



The Growing Balcony





United Nations University Institute for Advanced Studies. 2010.
*Cities, Biodiversity and Governance:
Perspectives and Challenges of the Implementation of the Convention
on Biological Diversity at the City Level: Policy Report.*

UNUIAS: Yokohama. Pp 31-32.

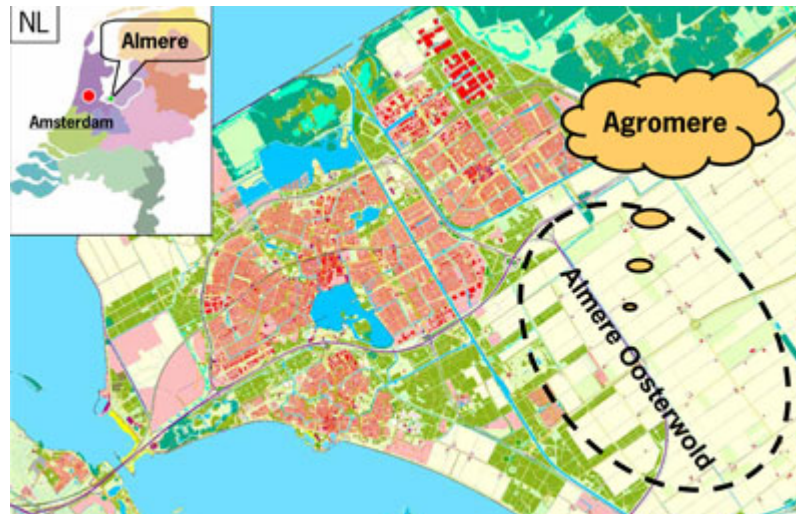
*“As the rule of interdependent adjacencies in urban ecology has it:
the more diversity, and the more collaboration “between unlikely partners”,
the better the chances for biodiversity, sustainability, and resilience (Hester, 2006).*

*Linked to this idea is the concept of Continuous Productive Urban Landscapes
(CPULs),
which represent a powerful urban design instrument for achieving local
sustainability
while reducing cities’ ecological footprints (Viljoen, 2005).”*

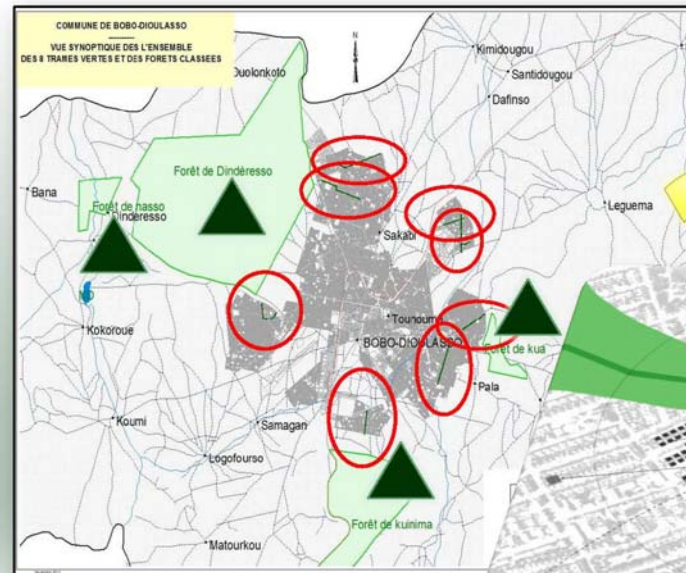
URBAN AGRICULTURE AS ESSENTIAL INFRASTRUCTURE:

CPUL inspired examples from
Almere in the Netherlands
(Agromere)

and
Bobo-Dioulasso in
Burkina Fasso, West Africa
(UN HABITAT).



4. SHORT DESCRIPTION OF THE UPAF DEMONSTRATION PROJECT AT BOBO-DIOULASSO



*Our Vision,
Our goal :
A mosaic
connecting green
spaces inside and at
the periferie of the city*

*Bohm & Viljoen:
Continuous Productive
Urban Landscapes*

The CPUL City

Urban Landscape : Rotterdam Luchtsingel in 2013.



The CPUL City

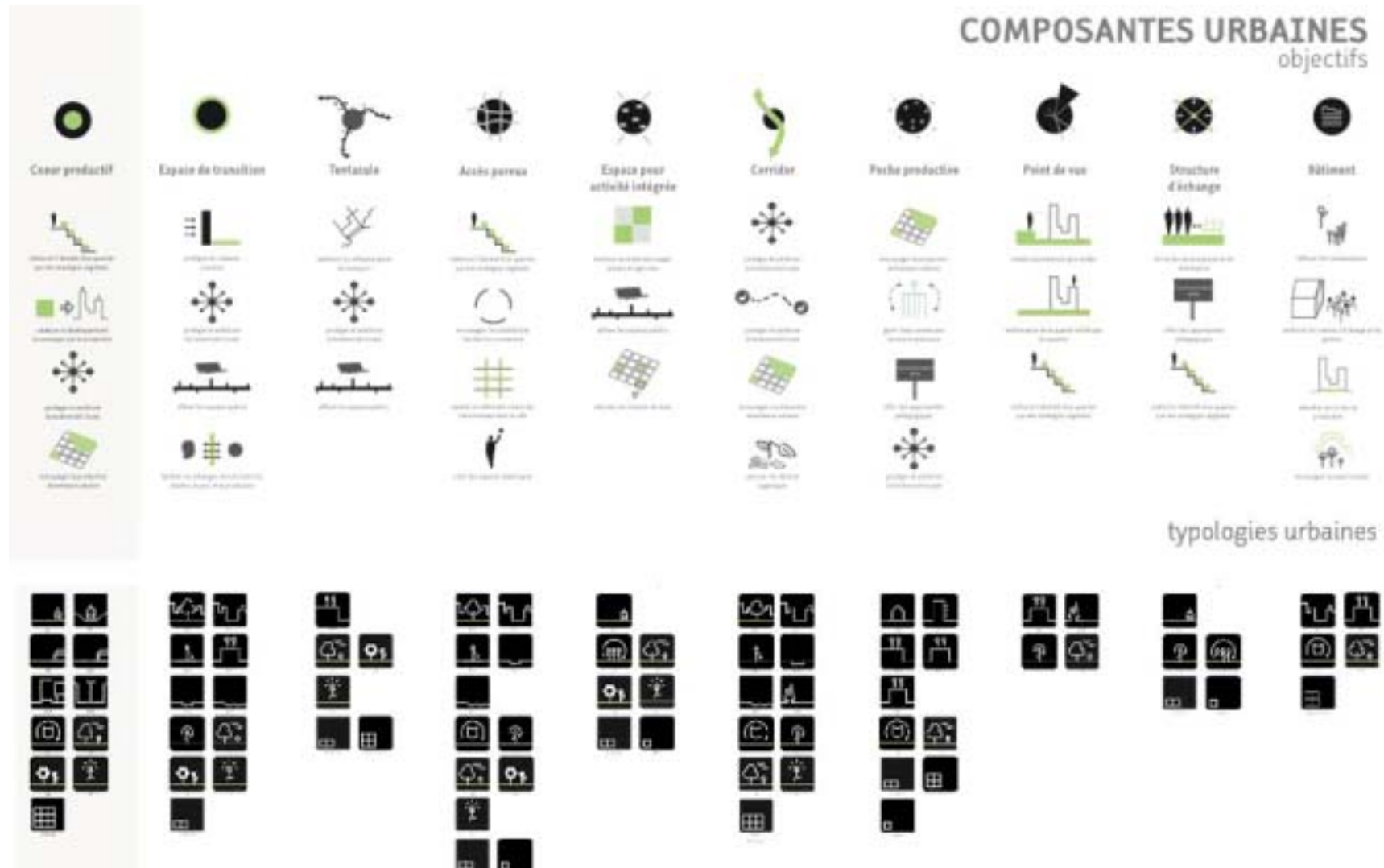


Urban Landscape : Luchtsingel in 2013



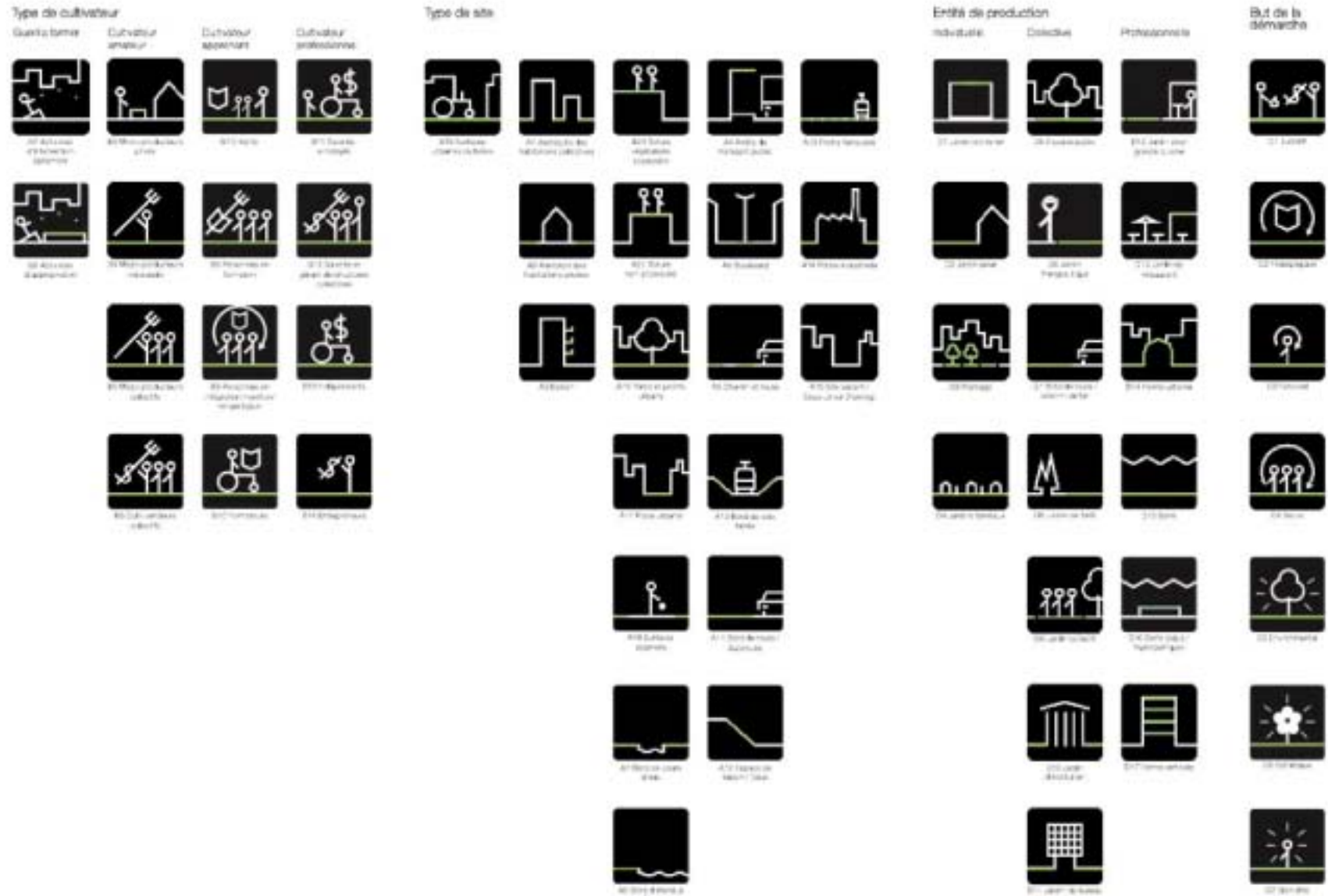
Swiss Food Urbanism Initiative – Verzone Woods Architects

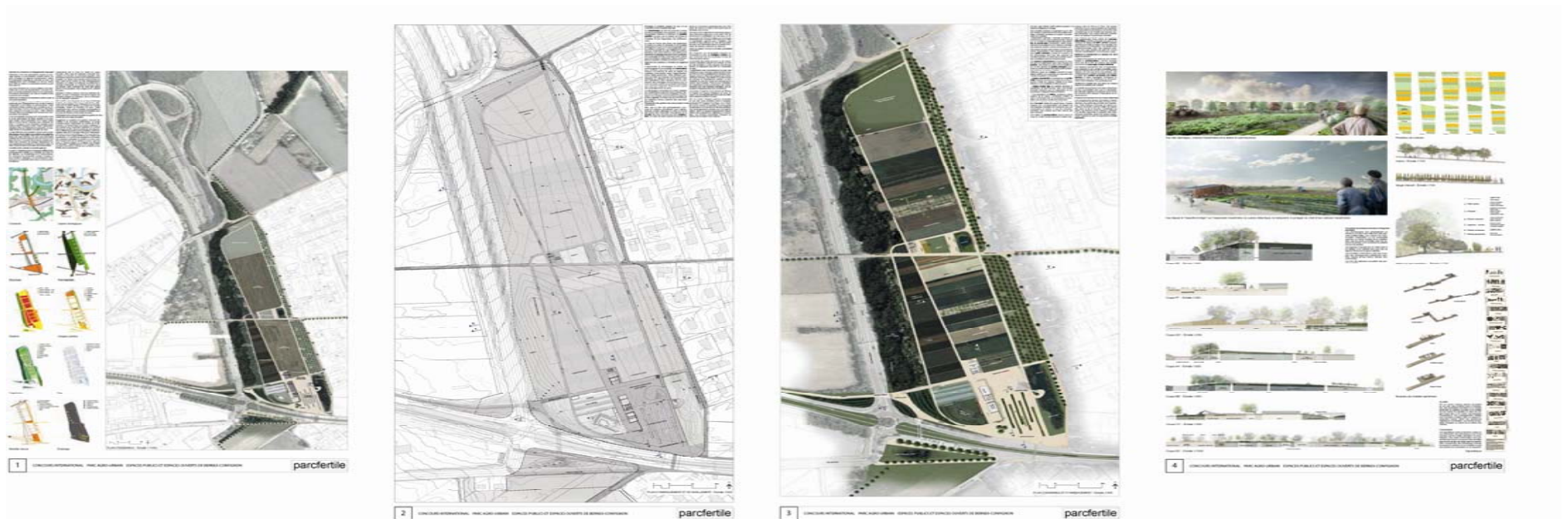
Urban Agriculture Components



Swiss Food Urbanism Initiative – Verzone Woods Architects

Urban Agriculture Typologies





Competition boards submitted by Verzone Woods Architectes, Sarl

Bernex Urban Farm Park, Geneva



background

The Urban Food System

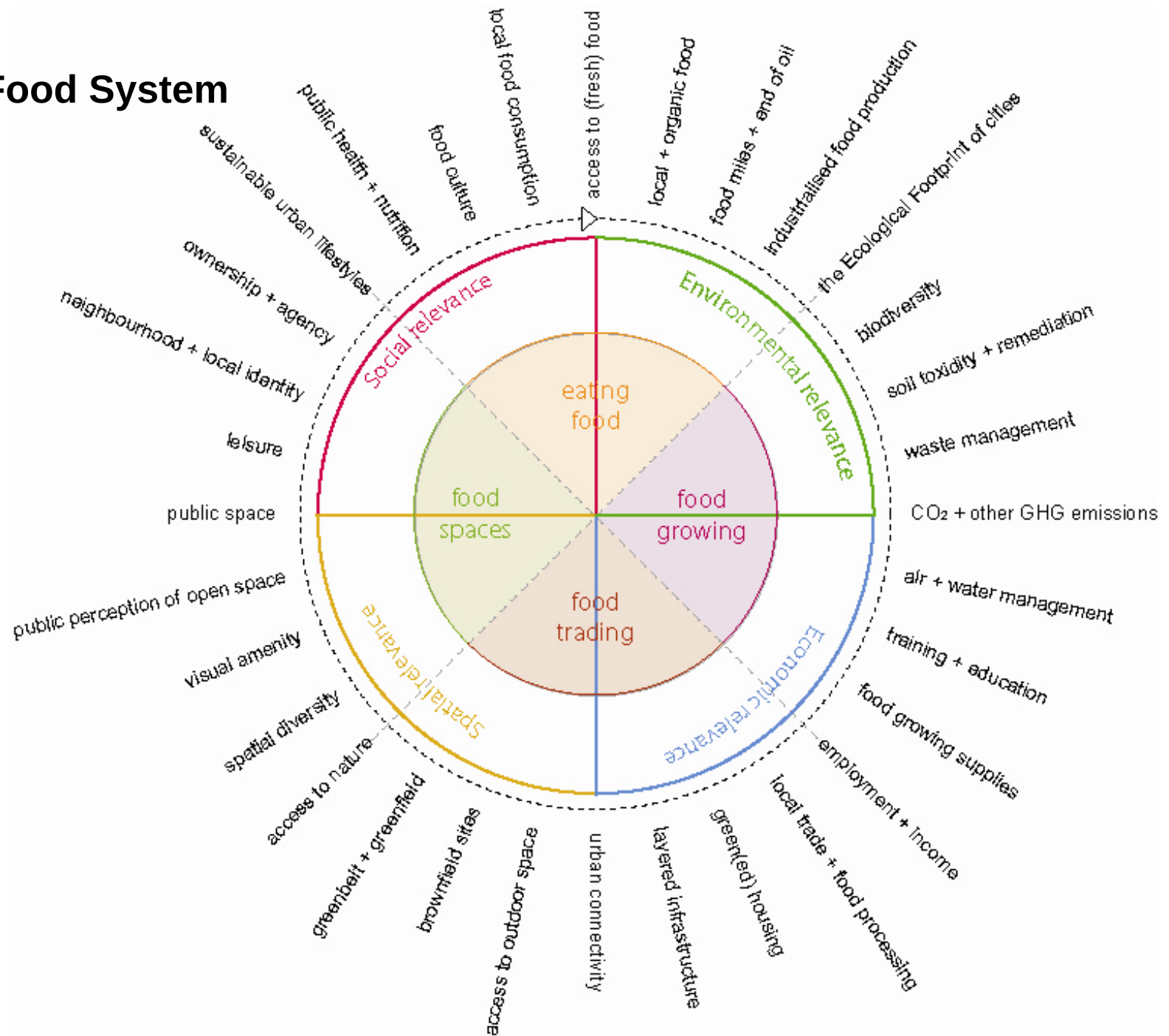


image: Bohn&Viljoen

Why CPUL?

The Urban Food System

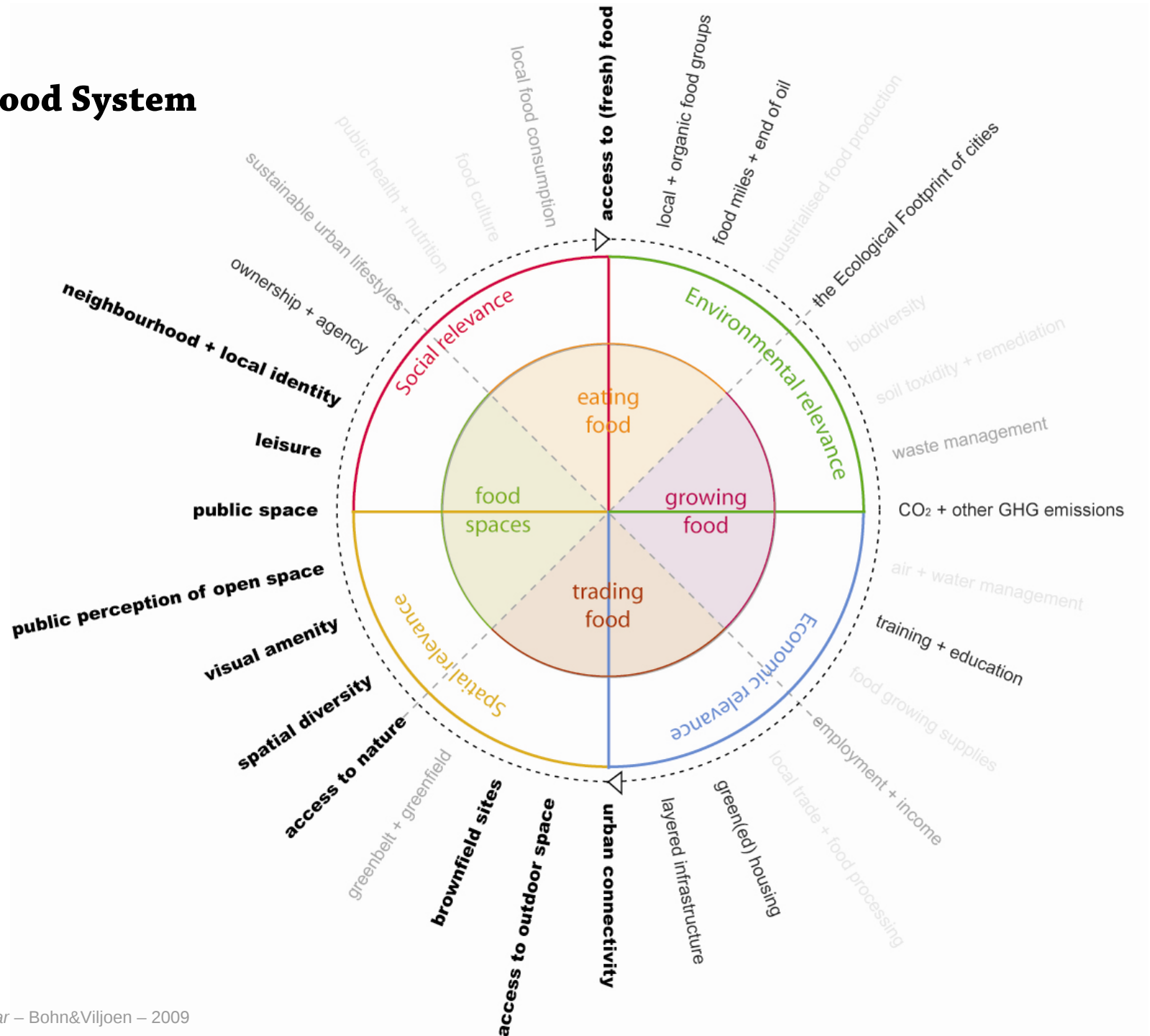


image: *The Urban Food Star* – Bohn&Viljoen – 2009