

AESOP4FOOD

Action for Education Spatial Organisation and Planning For Sustainable Food

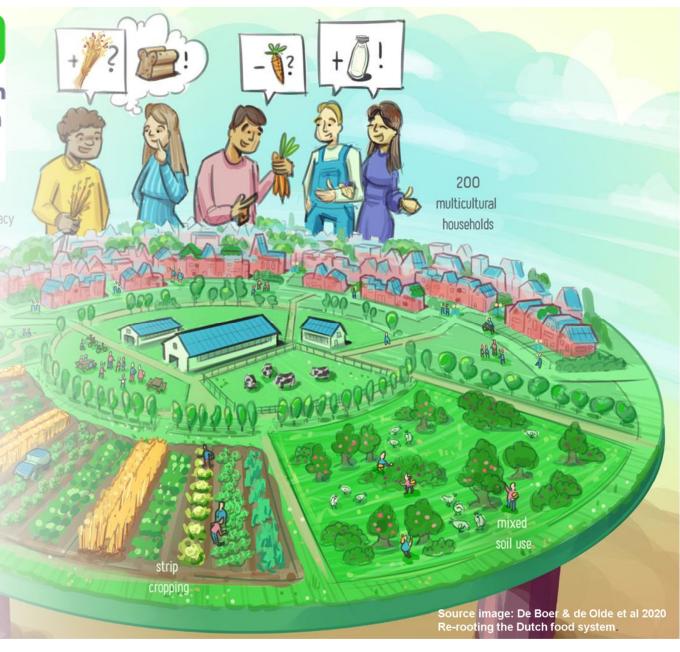
AESOP4Food

Sustainable Food Planning Seminar

Second session

PHASE II / 2023

March 23, 2023



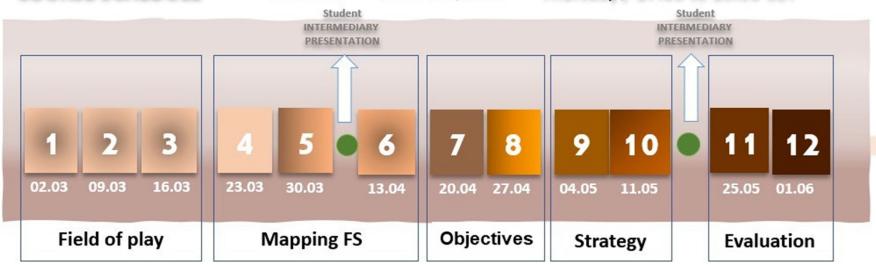
AESOP4food Online Seminar 2023



COURSE SCHEDULE

March 2nd – June 1st, 2023

Thursday / 17:00 to 18:30 CET



Student FINAL PRESENTATION



15.06

Mainly for students from partners Universities

INTENSIVE WORKSHOP

GHENT 9 - 18 July, 2023























Phase II. Mapping

- Spatial participatory food (systems) mapping. Katrin Bohn, Bohn&Viljoen Architects, School of Architecture & Design, University of Brighton.
- Mapping the Short Food Supply Chains, Jorge Molero, Red de Municipios por la Agroecologia
- Combining Tools for Transformative Cartographies Marian Simón UPM























Agenda March 23

- Introduction to Phase II. Mapping. Marian Simón, UPM
- Spatial participatory food (systems) mapping. Katrin Bohn, Bohn&Viljoen Architects, School of Architecture & Design, University of Brighton.
- Q&A session on introductions and readings
- Outlook on next session M









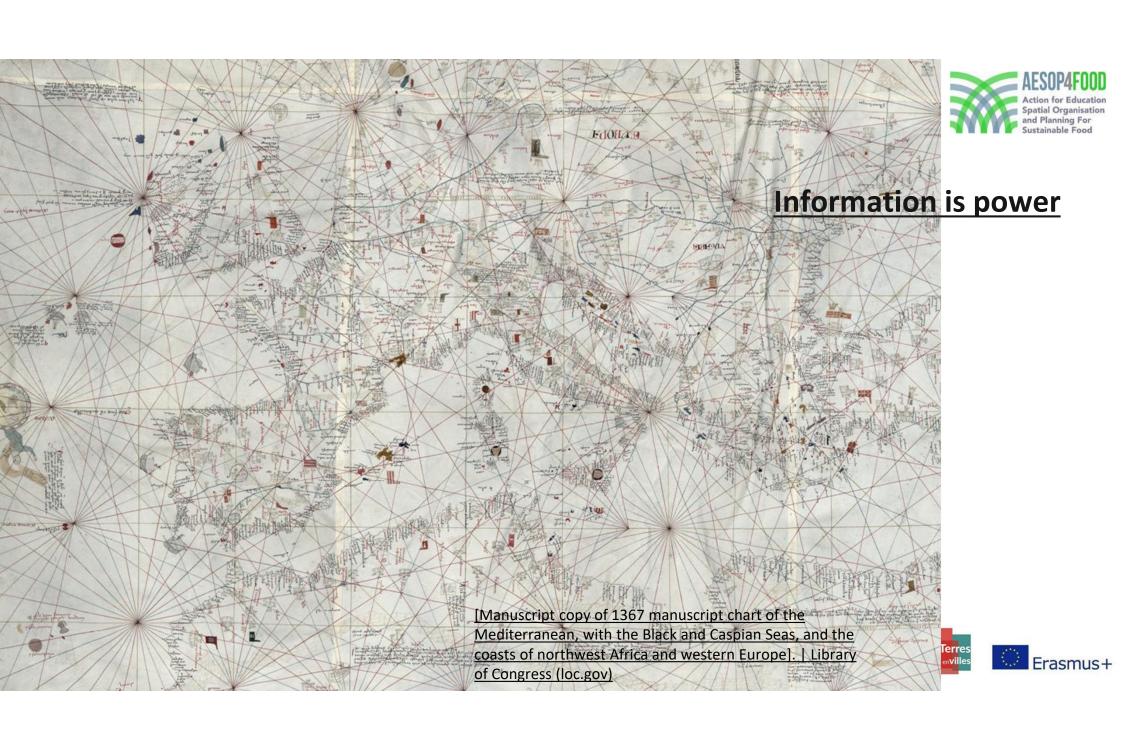


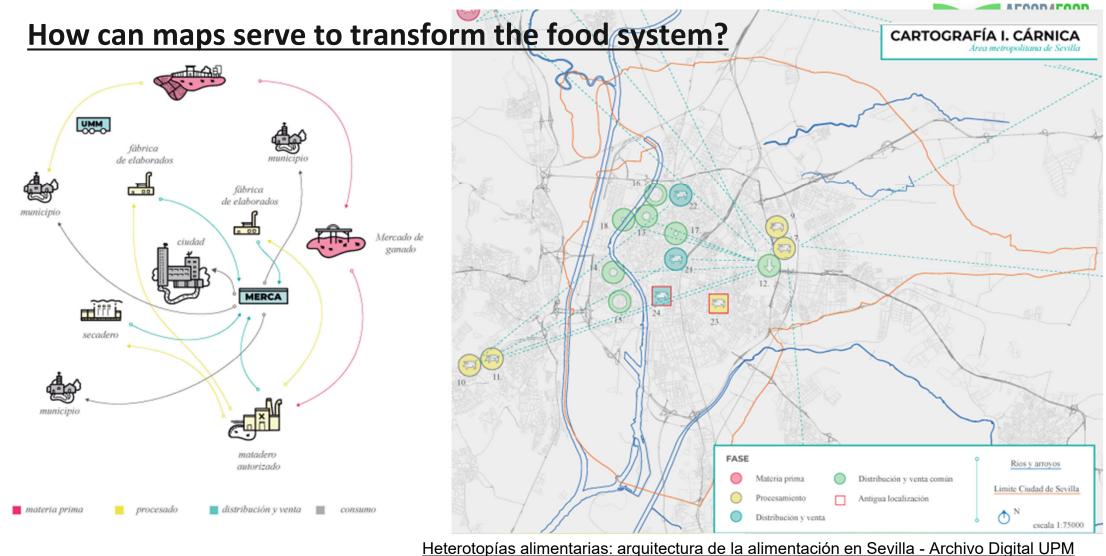
















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Figure 4: Food systems main stakeholders



AESUP4FUUD

Action for Education
Spatial Organisation
and Planning For
Sustainable Food

Who has the power to change the food system?

Who can be mobilized?

Source: Collaborative Framework for Food Systems Transformation











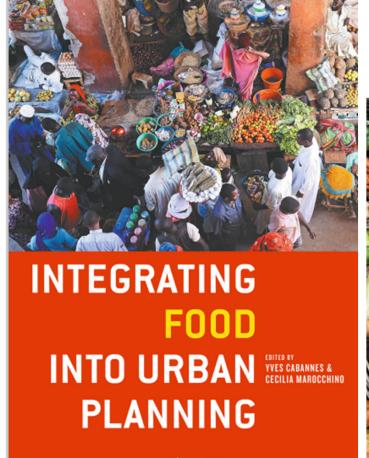




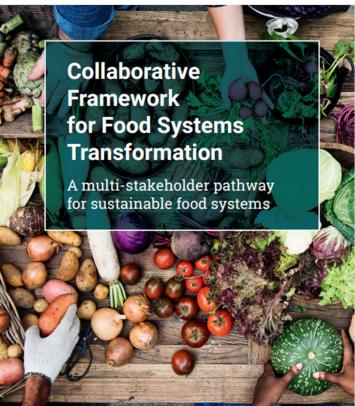














ORIGINAL PAPER



Mapping the production-consumption gap of an urban food system: an empirical case study of food security and resilience

Paul D. Jensen 1 0 - Caroline Orfila 1

Received: 11 August 2020 / Accepted: 10 January 2021 (C) The Author(s) 2021

UN @

environment

Urban food systems are complex and increasingly recognised as not being sustainable, equitable or resilient. Though globalisation and lengthening of agrifood supply chains has brought many benefits, such as year-long availability of fresh produce and modernisation opportunities for some developing regions, they have increased reliance on food imports and reduced the food and nutrition resilience of many cities. This premise has been widely witnessed following recent financial, climatic and pandemic driven disruptions to food supplies. A greater understanding is thus needed of the lived reality of a modern city's ability to sustainably and equitably feed itself in a crisis situation or otherwise. In a changing world, such knowledge is valuable on a variety of strategic planning levels. Employing publically available data, the scale of food security and resilience, and options for their improvement, are holistically assessed through a case study spatial analysis of the urban food system of the city of Leeds in the United Kingdom. The case study found that the Leeds city region is home to a significant and diverse food production and provision system, but it is not food secure in terms of providing sufficient energy or macronutrients, or functioning in an equitable manner for all of its residents. Options for improving the performance of the system, including urban farming and industrial symbiosis, were found to be nuanced and would only be effective alongside a range of complimentary interventions as well as high levels of investment, multi-sector cooperation and strong governance. Though food system evolution and development are grounded in local context, the methods, general findings and circular economy focussed recommendations emanating from the case study, are widely applicable.

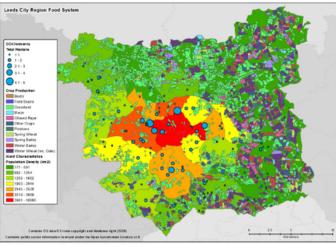


Fig. 5 Agricultural Land Use and Type in Leeds City Metropolitan Area



*UCLPRESS



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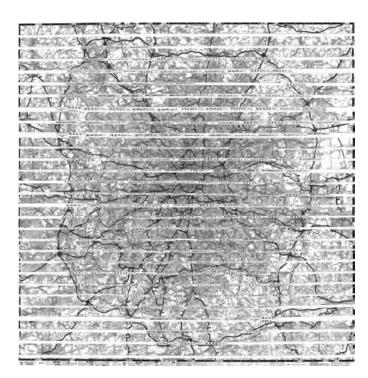




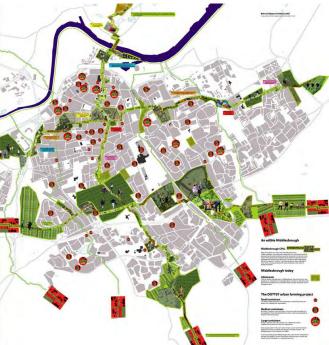




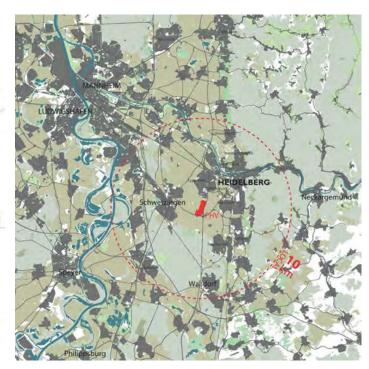
Spatial and participatory urban food mapping



1998
Making the case for urban agriculture, co-creating international discourse

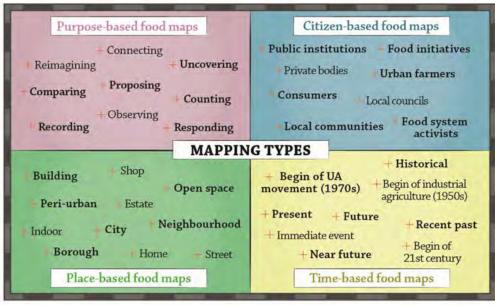


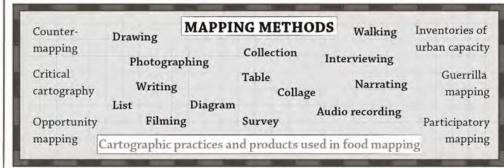
2007 Triggering urban agriculture projects for and with community groups



2016Responding to municipal demands for urban agriculture / food systems projects







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



Action **VIS**

Action **U+D**

Visualising Consequences

Bottom-Up + Top-Down

The **qualities and aims** of urban agriculture and productive urban landscapes, such as CPULs, need visualising to convince decision makers and raise public awareness.

Infrastructural, as well as individual food-productive projects need parallel top-down and bottom-up initiatives and integrative design and planning.

An inventory is necessary for each location, especially of spatial, resource, stakeholder and managerial capacities in order to best respond to local opportunities.

Constant research, development and urban landscape

projects and concepts is needed to

respond to changing circumstances.

consolidation

of productive

Action **IUC**

Action **R**

Inventory of Urban Capacity

Researching for Change

MAPPING OPPORTUNITIES AS PART OF THE INVENTORY OF URBAN CAPACITY

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consolidation of productive urban landscape

urban landscape projects and concepts

Constant research,

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changing circumstances.

Action **IUC**

Action R

Inventory of Urban Capacity

Researching for Change

image: The CPUL City Clover - Bohn&Viljoen - 2010

MAPPING OPPORTUNITIES AS PART OF THE INVENTORY OF URBAN CAPACITY



Action IUC = Inventory of Urban Capacity

An inventory is necessary for each location, especially of spatial, resource, stakeholder and managerial capacities in order to best respond to local opportunities.

At the beginning of the relatively short history of the urban agriculture movement in the Global North, (planning) emphasis was given to identifying (i.e. location, state of use, availability/ownership) and mapping (i.e. area, sun direction, soil quality, pollution, water, exposure to wind, adjacency to markets and compost) open urban space. In recent years, it has become clear that stakeholder and managerial/maintenance capacity around a site and in a food growing project are as important. Moreover, available resources need to be recorded and systematically integrated into the planning and execution of productive urban landscape projects.

Within this action, it is important to address the following strategies, steps or tools necessary for a successful implementation of any urban agriculture project:

1. Map physical sites

taking into account that suitability for urban agriculture includes issues such as land, orientation (sun), soil, air, boundaries, access, supply (water) and ownership in order to build a catalogue of spatial opportunities.

2. Identify potential goals and stakeholders

for the project's different development stages from start-up to establishment to longer-term prominence, in order to ascertain and/or grow sufficient local capacity to maintain the project.

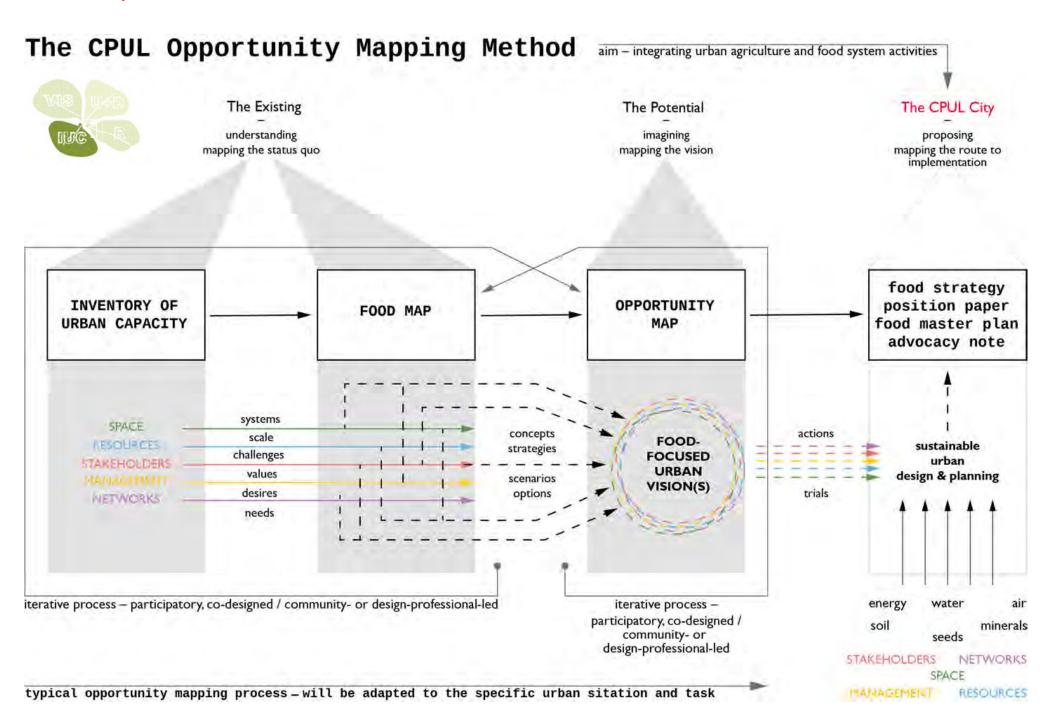
3. Aim for no-waste systems -

grow, eat, compost, grow... – as one aspect of maximising the *Ecological Intensification* on open urban space.

4. Identify local resources and managerial

capacities as a basis for new economic models, environmentally friendly production and fair trade for urban farmers.

image: The CPUL City, Clover Action IUC = Inventory of Urban Capacity - Bohn&Viljoen - 2010



EXAMPLES OF FOOD & OPPORTUNITY MAPS FOR URBAN DESIGN PROJECTS



Urbane Agrikultur in Köln-Ehrenfeld, **Germany**



London Thames Gateway, **Great Britain**

Carthage -

Tunisia

Ville Comestible,

scale: neighbourhood

mapping method: participatory

scale: suburban / metropolitan

mapping method: design-professional-led

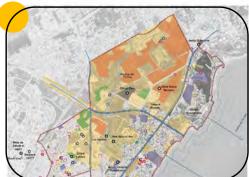


The Urban Farming **Project** Middlesbrough, **Great Britain**

scale: city

as well as design-professional-led

scale: city



mapping method: participatory



Urban Agriculture in the Ehrenfeld neighbourhood of Cologne, Germany

(scale:

neighbourhood

stakeholders:

arts-based project initiators, local residents, food producers/ processors/ distributors, urban agriculture /CPUL experts

(aim:

to work with residents on the participatory regeneration of an urban neighbourhood

mapping method:
participatory design
process in four stages





Urban Agriculture in the Ehrenfeld neighbourhood of Cologne, Germany

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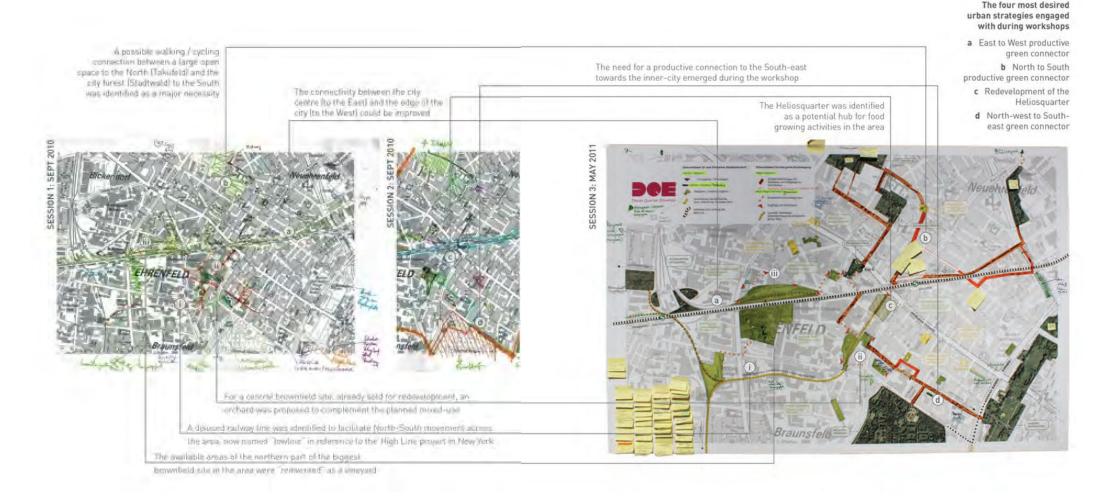
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Dott 07 Opportunities for a green and edible Middlesbrough

01 An urban design concept

Polant continuous open space-conidors (CPUL)

scale:

id access b

03 energy (economics)

(stakeholders:

arts-based project initiators, local residents, local council, urban agriculture /CPUL experts

thy and self-

05 health

(aim:

to engage the public in improving qualities of the city's urban spaces and its urban life

07 An urban lifestyle

mapping method: participatory as well as design-professional-led

ons and weathe

ng Projec

represents the first practical testing of a concept for continuous productive unban landscape (PUIL), individuals and organization participated by growing fruit and virgestables in small, medium and large containers. Over 200 containers were distributed across the city. There was and is a positive acceptance and enthodisors for urban farming, evidenced by the number of participants who with to continuous growing that and virgestablish post year and servinal with own to expand the area under cultivation. People enjoy being cluste to ediblic landscapes.

When Imaginiting how Middlesbrough may develop the CPUI, concept in the future, it is important to realize that it does not sequine everyone to grow their own food. It rather proposes that commercially wishle market gradens would from part of the city's network of open urban spaces, in this way, the city would significantly robust its ecological forogries while at the same time enhancing its urban environment. CPUI, provides more experience with hers community.





The Urban Farming Project Middlesbrough, Great Britain

(scale:

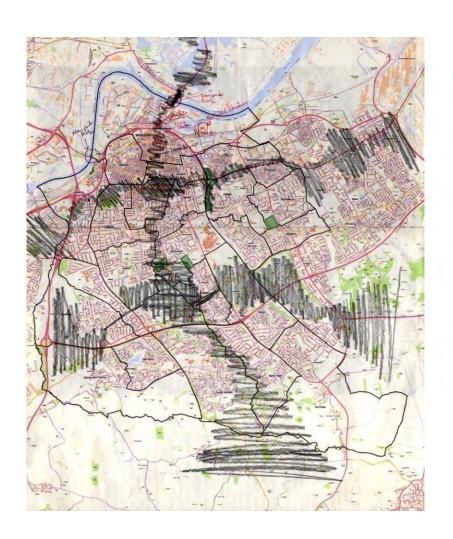
city

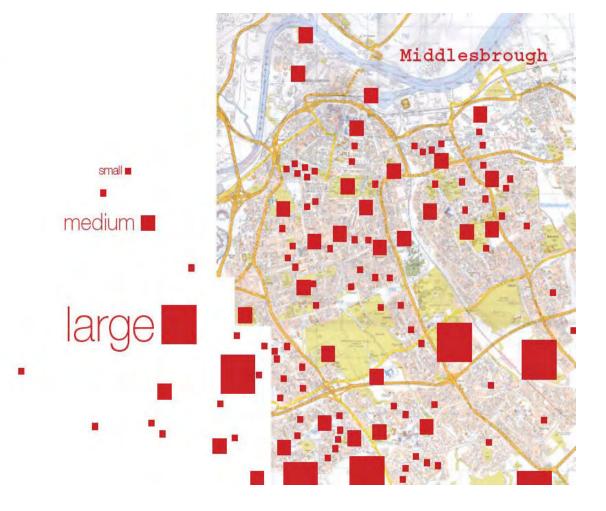
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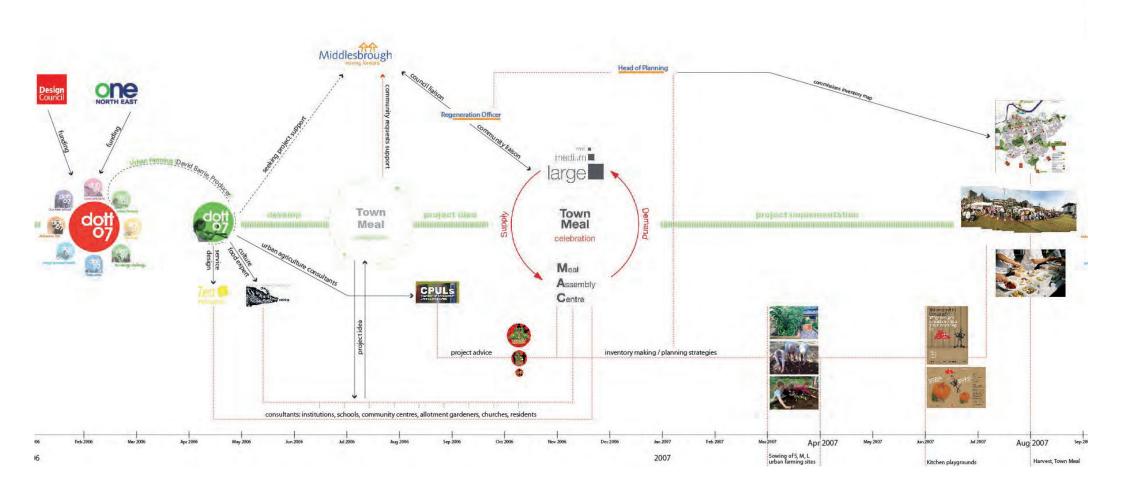
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Carthage – Ville Comestible, Tunisia

(scale:

city

(stakeholders:

local research institute (initiator), local council, residents, urban agriculture/CPUL experts

(aim:

to locate and systematise urban food system activities and spaces in the city, existing and potential









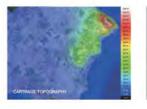


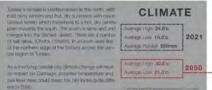


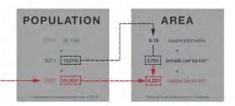












Carthage – Ville Comestible, Tunisia

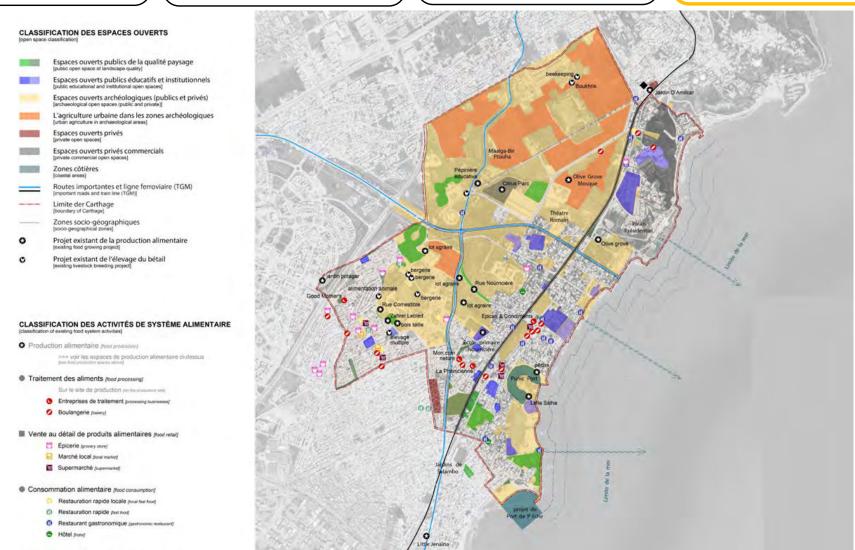
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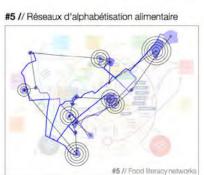


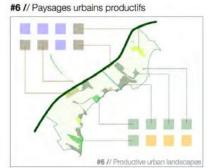


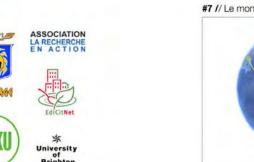




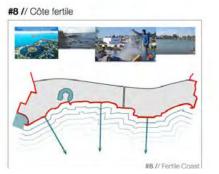














Bohn&Vilioen case study

Carthage – Ville Comestible, Tunisia

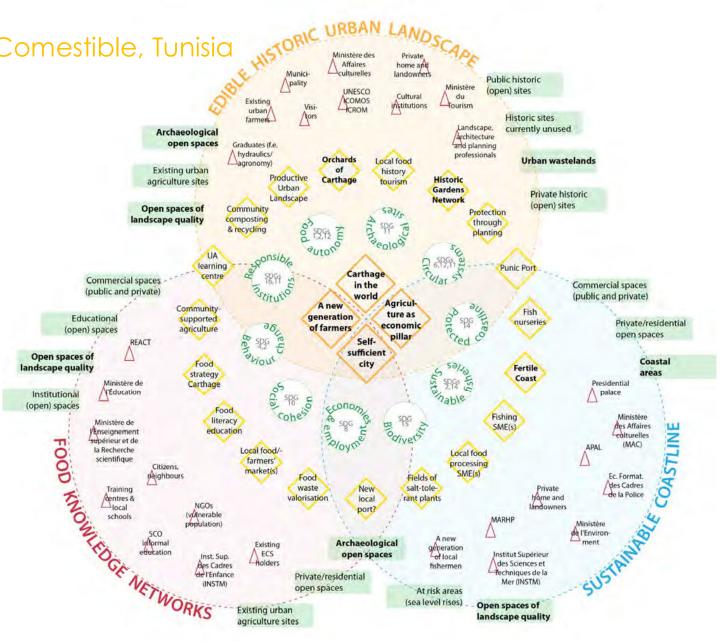
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London Thames Gateway, Great Britain

scale:

suburban / metropolitan

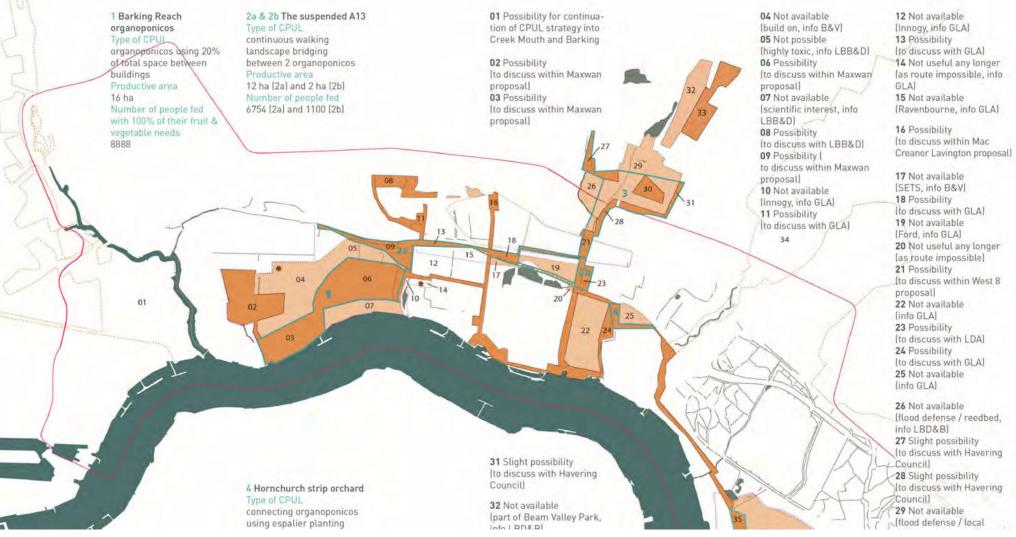
(stakeholders:

local council (initiator), local planning department, urban agriculture experts

gim:

to explore the potential of integrating food-productive spaces into London's Eastern expansion area

mapping method: design-professional-led



London Thames Gateway, Great Britain

(scale:

suburban / metropolitan

stakeholders:

local-council-based initiators, local planning department, urban agriculture experts

gim:

to explore the potential of integrating food-productive spaces into London's Eastern expansion area

mapping method: design-professional-led



image: The Thames Gateway Report - Katrin Bohn, André Viljoen, University of Brighton and Bohn&Viljoen Architects - 2004

THANK YOU!

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