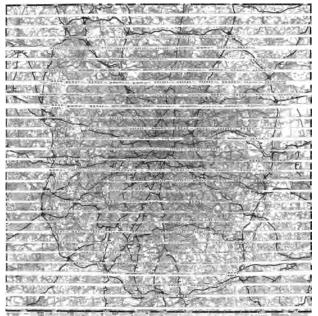
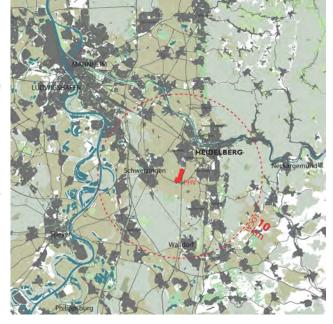
# Spatial and participatory urban food mapping







#### 1998

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

#### 2007

Triggering urban agriculture projects for and with community groups

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

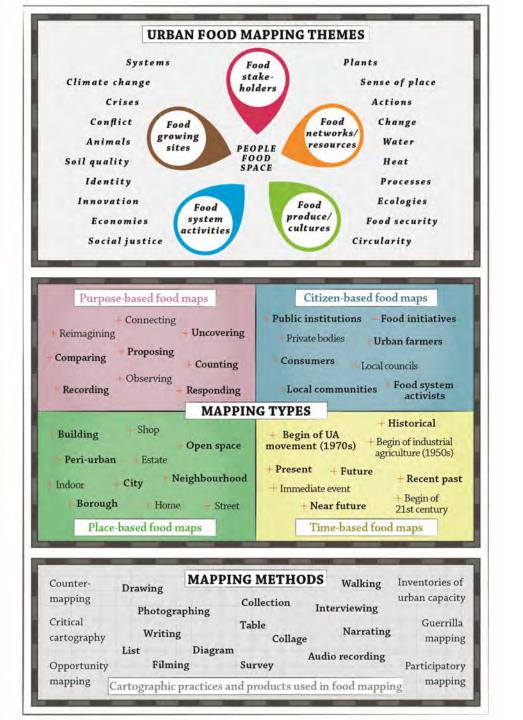
#### AESOP4FOOD Katrin Bohn, Bohn&Viljoen Architects, 14th March 2024

Spatial and participatory urban food mapping

## THEORY

Urban food mapping tackles a diverse range of food-focused data related to specific urban situations that makes visible issues about the feeding of cities or proposes solutions for their inclusive and sustainable development.

image: The Urban Food Mapping Matrix - 2020



#### WHAT

## WHY WHERE WHO WHEN

## HOW

# PRACTICE

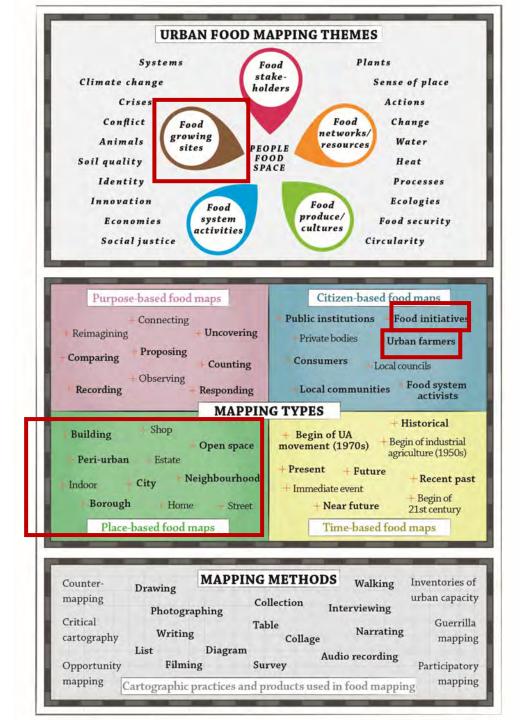


image: The Urban Food Mapping Matrix - 2020

# PRACTICE

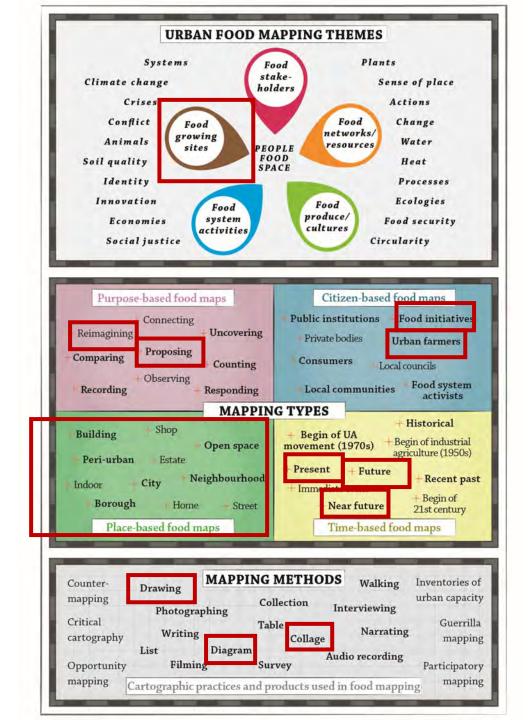


image: The Urban Food Mapping Matrix - 2020

# PRACTICE

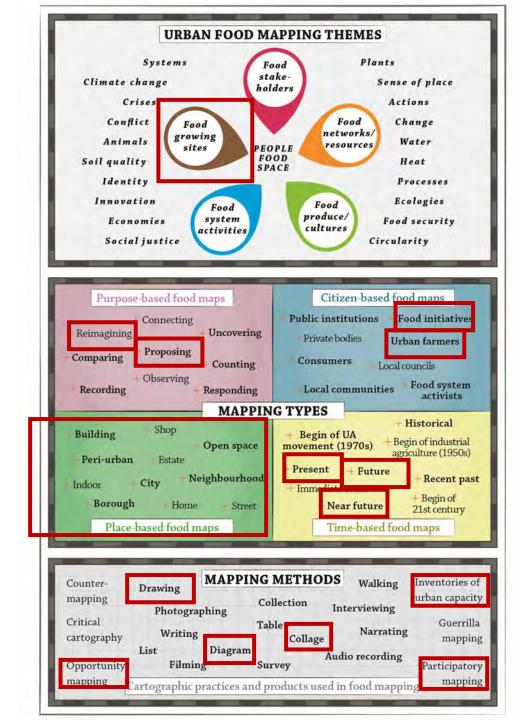


image: The Urban Food Mapping Matrix - 2020

#### AESOP4FOOD Katrin Bohn, Bohn&Viljoen Architects, 14th March 2024

# Spatial and participatory urban food mapping

# 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**

## **Visualising Consequences**

## Action **U+D 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. Constant research. development and consolidation An inventory is necessary of productive for each location, especially of urban landscape projects and concepts spatial, resource, stakeholder and managerial capacities is needed to in order to best respond respond to to local opportunities. changing circumstances.

## Action **IUC Inventory of Urban Capacity**

Action **R Researching for Change** 

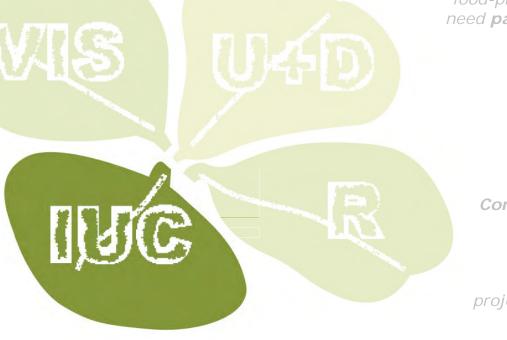
#### The CPUL City

# MAPPING OPPORTUNITIES AS PART OF THE INVENTORY OF URBAN CAPACITY

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

An inventory is necessary for each location, especially of spatial, resource, stakeholder and managerial capacities

in order to best respond to local opportunities.



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Constant research, development and consolidation of productive urban landscape projects and concepts is needed to respond to changing circumstances.

## Action IUC Inventory of Urban Capacity

Action **R** Researching for Change

# MAPPING OPPORTUNITIES AS PART OF THE INVENTORY OF URBAN CAPACITY

# VIS UMD

## 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.

The CPUL City

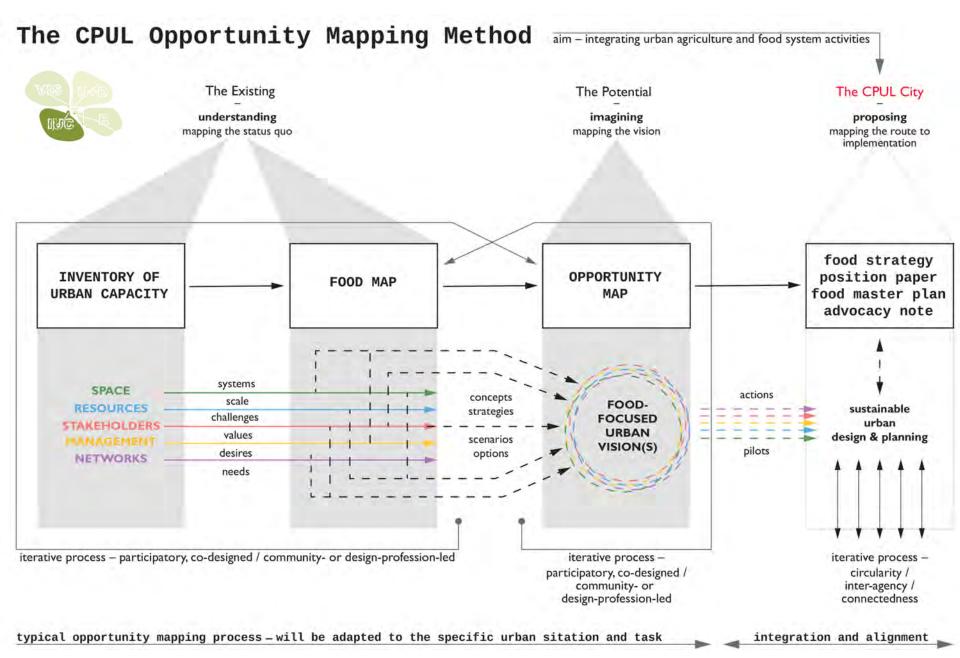


image: The CPUL Opportunity Mapping Method – Bohn&Viljoen – 2007-2022

# EXAMPLES OF FOOD & OPPORTUNITY MAPPING FOR URBAN DESIGN PROJECTS



Urbane Agrikultur in Köln-Ehrenfeld, Germany

scale: neighbourhood mapping method: participatory



London Thames Gateway, Great Britain

*scale:* **large-size city** *mapping method:* **design-professional**-led



The Urban Farming Project Middlesbrough, Great Britain

scale: medium-size city
mapping method: participatory
+ design-professional-led



Carthage – Ville Comestible, Tunisia

scale: small city
mapping method: participatory
+ design-professional-led

# Urban Agriculture in the Ehrenfeld neighbourhood of Cologne, Germany

## stakeholders:

scale: neighbourhood 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



image: Urbane Agrikultur in Köln-Ehrenfeld – Bohn&Viljoen Architects, DQE urban regeneration project and Nishat Awan, FG Stadt & Ernährung TU Berlin – 2011

# Urban Agriculture in the Ehrenfeld neighbourhood of Cologne, Germany

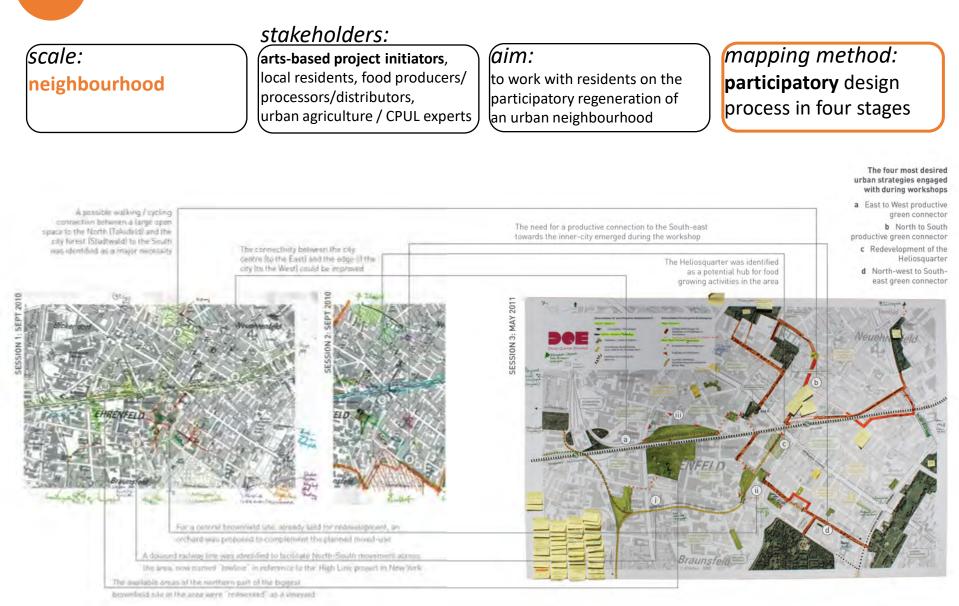


image: Urbane Agrikultur in Köln-Ehrenfeld – Bohn&Viljoen Architects, DQE urban regeneration project and Nishat Awan, FG Stadt & Ernährung TU Berlin – 2011

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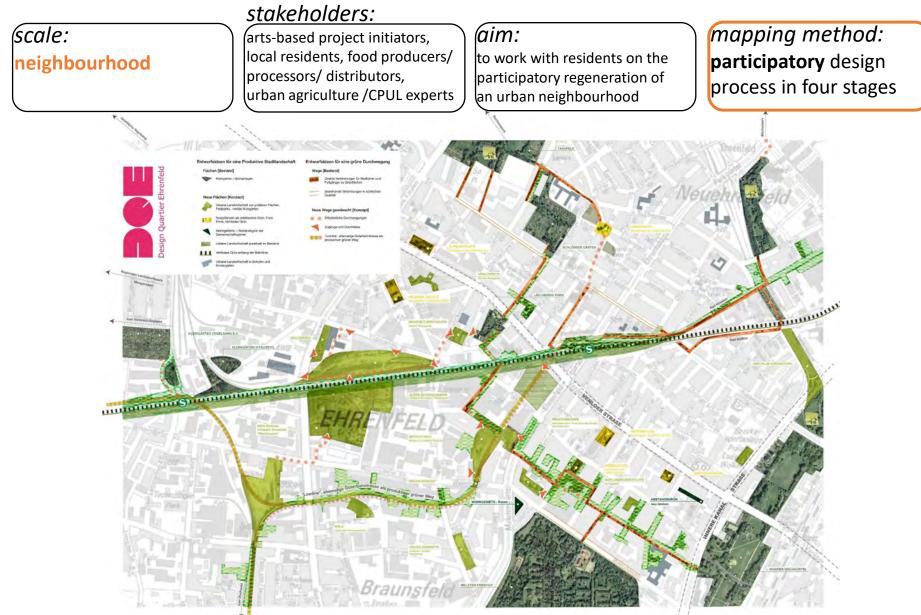
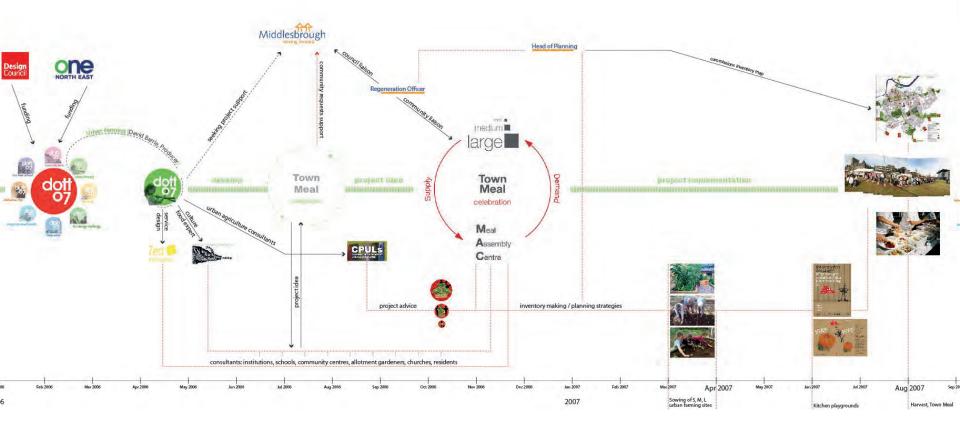


image: Urbane Agrikultur in Köln-Ehrenfeld – Bohn&Viljoen Architects, DQE urban regeneration project and Nishat Awan, FG'Stadt & Ernährung TU Berlin – 2011

# The Urban Farming Project Middlesbrough, Great Britain

scale:	stakeholders:	aim:	mapping method:
medium-size city		to engage the public in improving qualities of the city's urban spaces and its urban life	participatory + design-professional-led

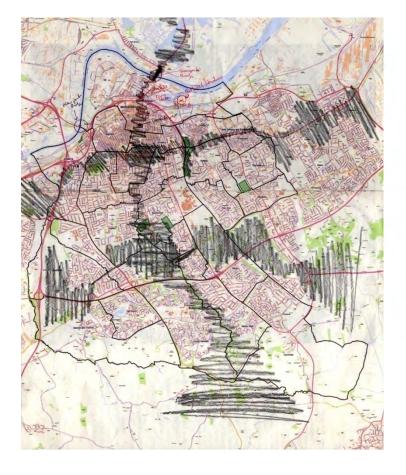


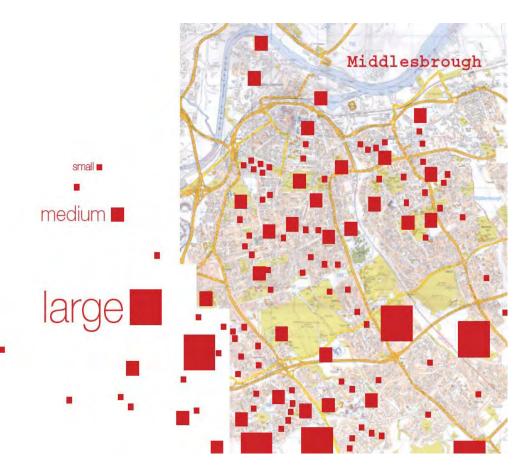
# The Urban Farming Project Middlesbrough, Great Britain

*scale:* medium-size city

#### arts-based project initiators, **local residents and institutions**, local council, urban agriculture / CPUL experts

**aim:** to engage the public in improving qualities of the city's urban spaces and its urban life mapping method: participatory + design-professional-led





images: The Urban Farming Project Middlesbrough – Bohn&Viljoen (1), David Barrie, dott07 (1) – 2006



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

> 07 An urban lifestyle \* preserve the greenbelt by offering the rural on the

## mapping method: participatory + design-professional-led

and

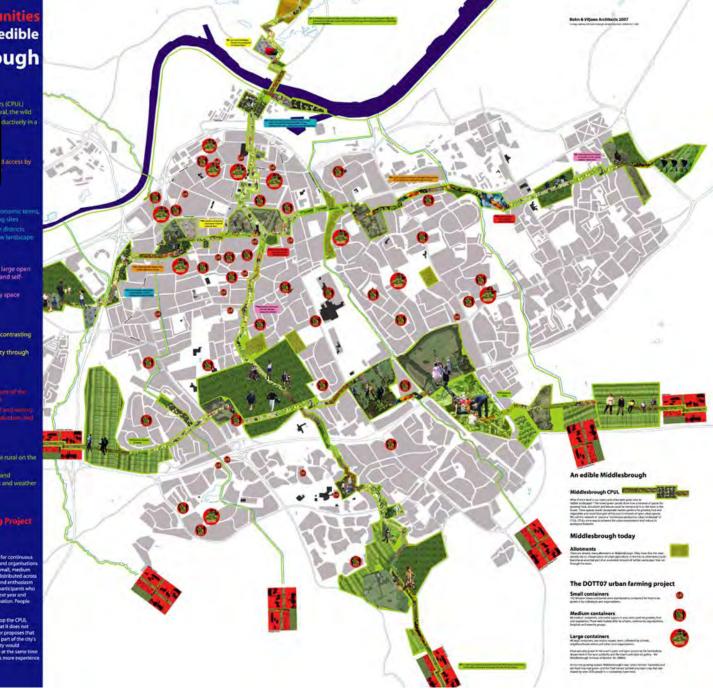


image: The Urban Farming Project Middlesbrough – Bohn&Viljoen – 2007

# Carthage - Ville Comestible, Tunisia

# scale: small city

## <u>stakeholders:</u>

local research institute initiator, local council commitment, local residents and institutions, urban agriculture / CPUL experts **aim:** to locate and systematise urban food system activities and spaces in the city, existing and potential

## mapping method: participatory + design-professional-led

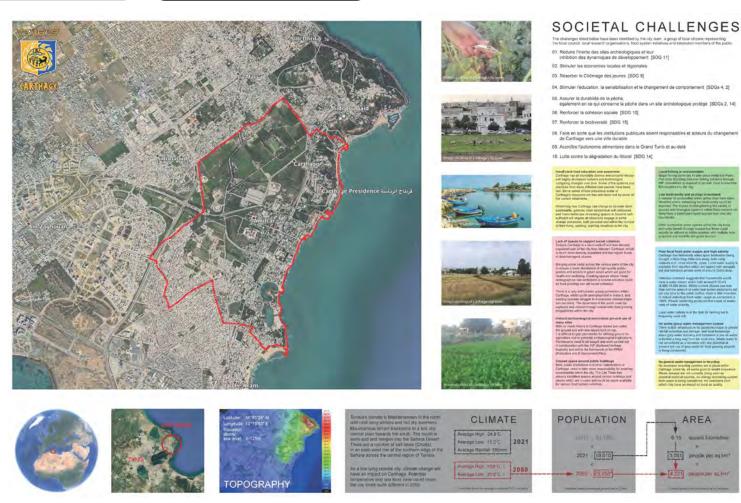


image: Inventorising Carthage – University of Brighton (Ian Bailey, Katrin Bohn) and City Team Carthage – 2021

# Carthage - Ville Comestible, Tunisia

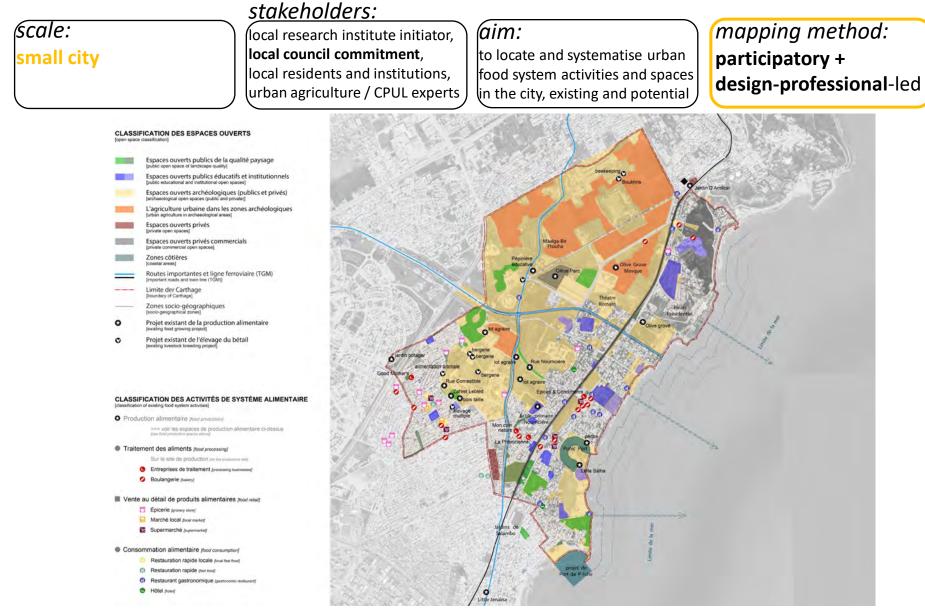
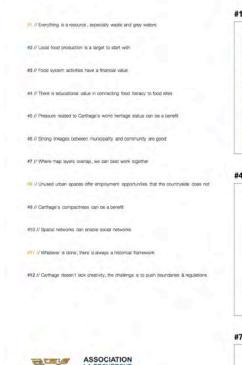


image: Food Map Carthage – University of Brighton (Ian Bailey, Katrin Bohn) and City Team Carthage – 2021

# Carthage - Ville Comestible, Tunisia

## scale: small city





## <u>stakeholders:</u>

local research institute initiator, local council commitment, local residents and institutions, urban agriculture/CPUL experts

#### #1 // Les vergers de Carthage



#### #4 // La ville auto-sufisante



#### #7 // Le monde te soutient



#### #8 // Côte fertile

(aim:

to locate and systematise urban

food system activities and spaces

in the city, existing and potential

#2 // Un réseau de jardins historiques

#5 // Réseaux d'alphabétisation alimentaire

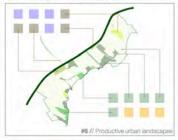


#5 // Food literacy networks

## mapping method: participatory + design-professional-led



#### #6 // Paysages urbains productifs



#### **#9 /**/ Une nouvelle génération d'agriculteurs



#9 // A new generation of farmers

image: Opportunities for Carthage – University of Brighton (Ian Bailey, Katrin Bohn) and City Team Carthage – 2021

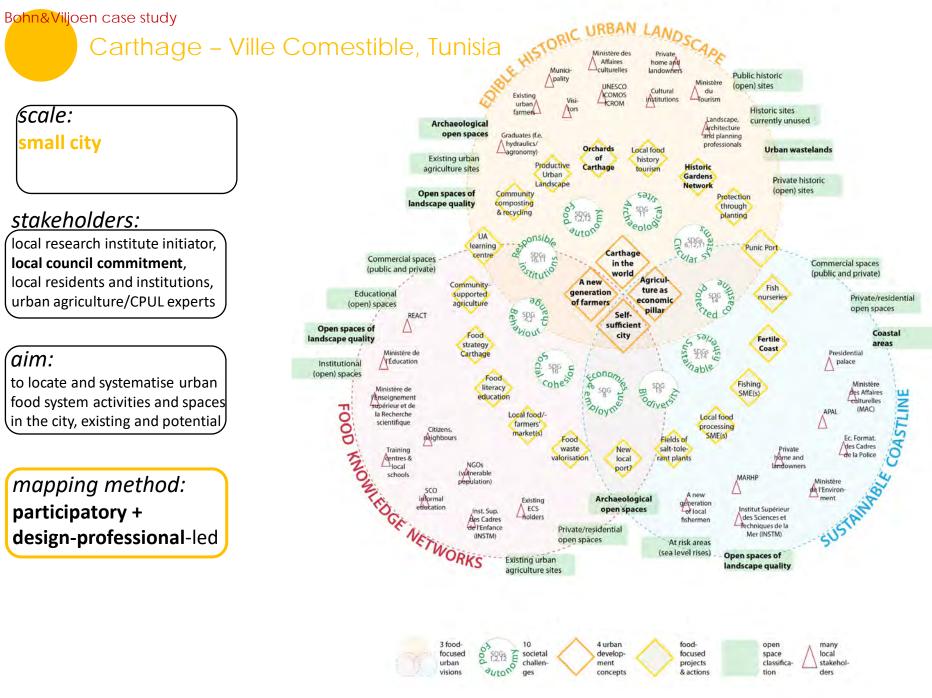


image: An Opportunity Map (Diagram) for Carthage – University of Brighton (Ian Bailey, Katrin Bohn) and City Team Carthage – 2022

