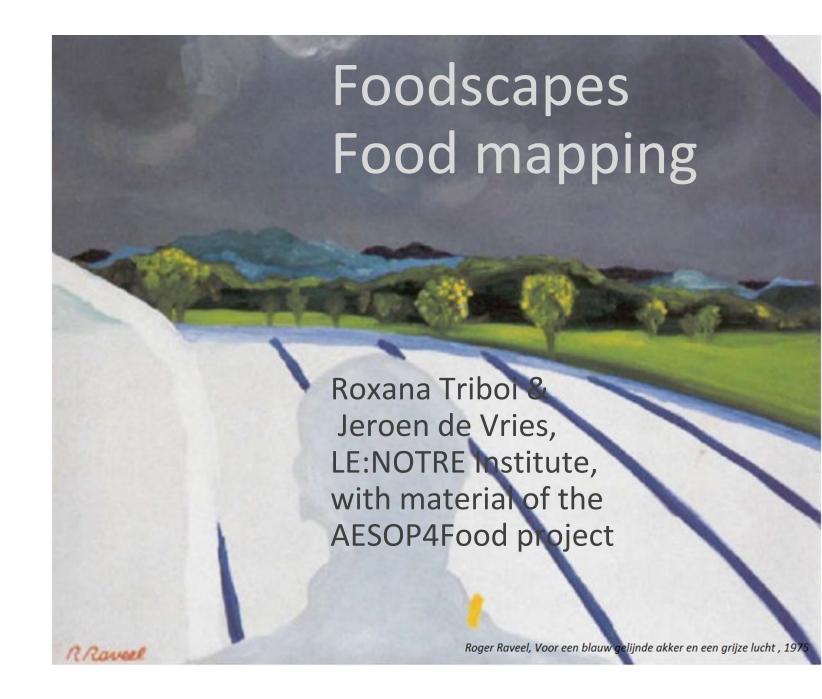
Lecture 2
Monday
October 6,
2025 at 9h05
EET
MLA Vilnius
Tech







## **Content today**

- Questions on the literature
- Introduction to food system mapping
- Short poll on the literature
- Seminar on literature organisation Thursday 16th
- Showing the padlet (3 people)
- Outlook next lecture on Thursday 9 th























## Questions on the literature and video

Carolyn Steel Hungry Cities by Carolyn Steel video

IPES-Food report A Long Food Movement.

Deh-Tor, C.M. . 2017 From Agriculture in the City to an Agroecological Urbanism: The transformative pathway of urban (political) agroecology, in: Urban Agriculture Magazine no. 33 – Urban Agroecology. Focus on the introduction, page 5 until page 13.























## Introduction to food system mapping

You need this for the assignment of the selected area, steps:

- Get an overview and impression of the area
- Make a food system map (matrix or a graphical scheme)
- Strengths, weaknesses, opportunities and threats of the system?
- Which aspects of sustainability are the most important from your position?
- Most important challenge for the sustainability of this system?
- Define goals and strategy, make a proposal and write a reflection









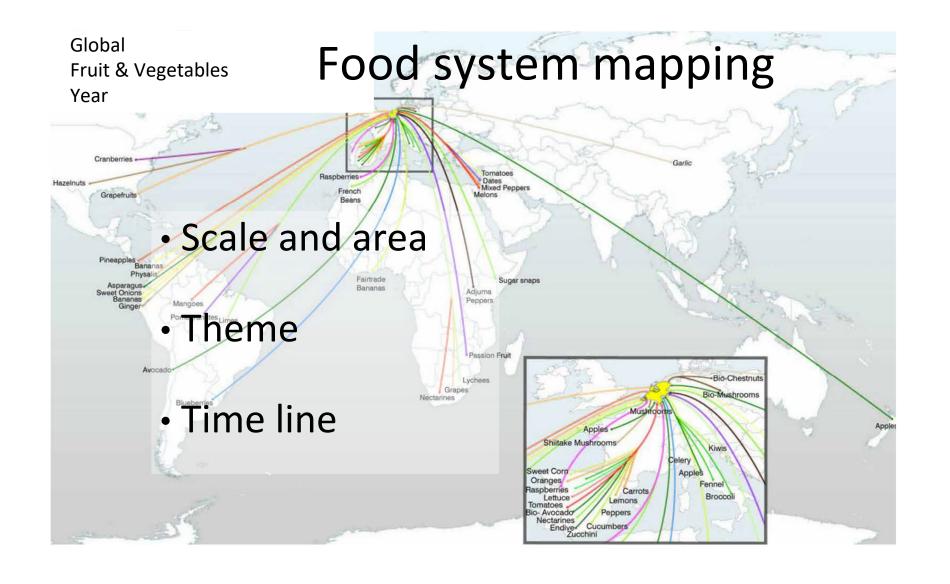


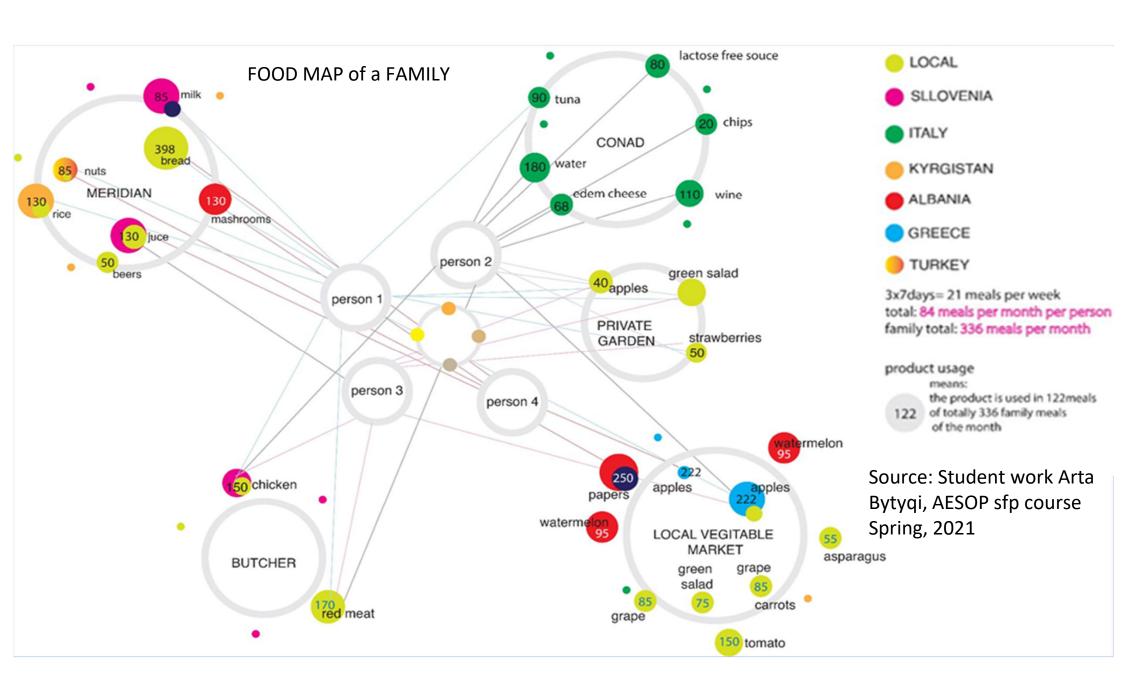










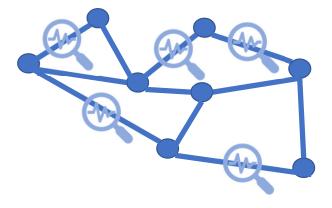


## Food system mapping

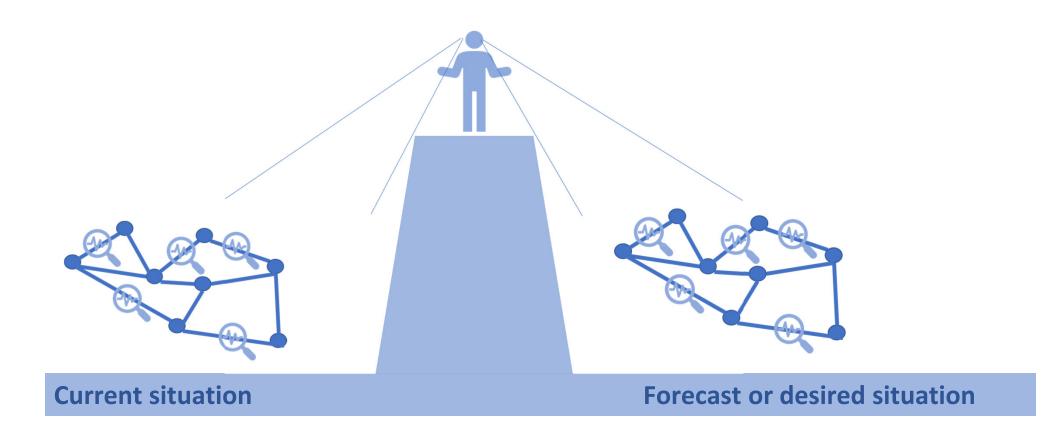
- Mapping methods for the system
- Map of the community and the main stakeholders
- Guiding questions for your analysis

## System network

- Elements
- Relations
- Quantitative and qualitative data



## What do you want to use for analysis?



- Types of food?
- Crops and produce for the food?
- Actors?
- Stakeholders?
- Land? Types of production areas?
- Materials?

- Vegetables
- Eggs
- Compost
- Schoolgardens
- Meadows
- Kitchengardens
- Farmersmarket
- Mill

- Consumers
- Farmers
- Bakers
- Market gardens
- Community gardens
- Waste land
- Schoolchildren
- Supermarkets

- Vegetables
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Consumers



- Farmers
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- Schoolchildren
- Supermarkets

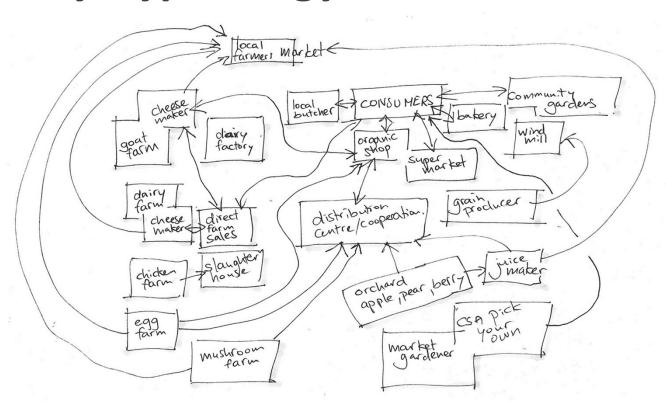
- In canteens
- Foodbanks
- Less advantaged
- Tourists
- In restaurants
- Streetfood
- Schoollunches
- Prosumers
- .......

- Vegetables
- Eggs
- Compost
- Schoolgardens
- Meadows
- Kitchengardens
- Farmersmarket
- Mill

- Consumers
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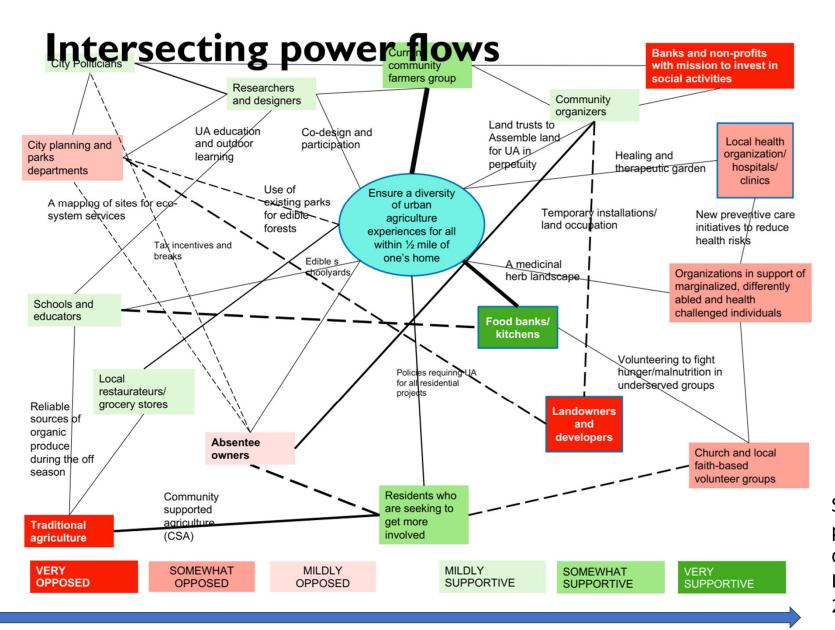
- Export oriented
- Organic farmers
- Community
   Supported
   Agriculture
- Farmers open for transition
- Urban farmers
- Care farms

## Step 2: organise and group the elements: hierarchy, typolology, define the relations



## Step 3: how do the elements relate to each other?

- Flows, streams, processes, social relations
- Qualitative: power, regulations, laws
- Quantitative relations: make sure you use standard units and clear conversions

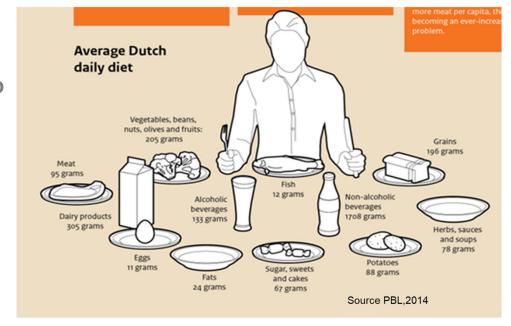


Source: Deni Ruggeri, presentation landscap democracy, LE:NOTRE Landscape Forum 2022, student work Step 4: collect data on the elements and the

relationships

How many consumers are there?

- How much vegetables do they eat per year?
- How much land do you need for the crops?
- What type of production land or facilities is available?



## Step 5 Make sure that the units of quantative data are linked to each other

#### Production per year

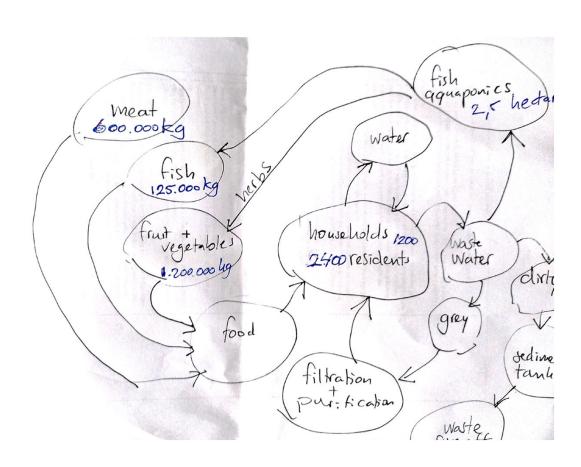
Crop or product	kg/m <sup>2</sup> *)	notes
Potatoes	2,9	
Grain	0,7	
Pulse	1,5	
Vegetables	5	open field
	30	glass house
Herbs	1,5	
Fruits	4	mostly apples and pears: farms, orchards, edible green
	2	berries in roof gardens, kitchen gardens
	8	berries in glass houses, tunnels (professional horticulture)
Beef	0,07	pasture in urban farm or green infra farm
Pork	0,57	urban farm or green infra farm, outdoor
Poultry	0,11	urban farm combination indoor/outdoor incl corn fodder
Fish	6,67	organic aquaponics, with fodder production and facilities
Cheese	0,15	1/10 of milk production per hectare
Dairy	1,50	2 cows per hectare, 7500 litres per cow per year
Eggs	0,34	urban farm combination indoor/outdoor including fodder (corn)

#### Consumption per year

Type of food	grams per person per day	kilos per person per year			
Potatoes	88	241			
Grains (pasta and bread)	156	427			
Vegetables (excl. pulse)	145	397			
Pulse	20	55			
Fruits	40	110			
Herbs	10	27			
Beef	57	156			
Pork	19	52			
Poultry	19	52			
Fish	12	33			
Cheese	20	55			
Dairy (excluding cheese)	285	781			
Eggs	11	30			

## Step 6 Add the data in the system map

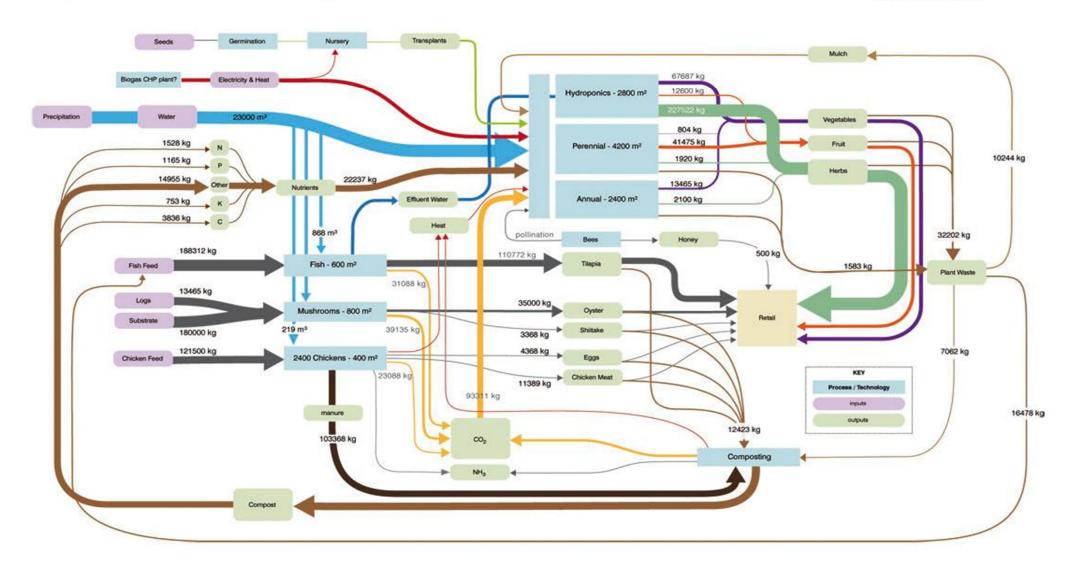
- Depending on your theme:
- Show the gaps
- See how the system can be closed or improved



- .....

#### Polydome Material Flow Diagram

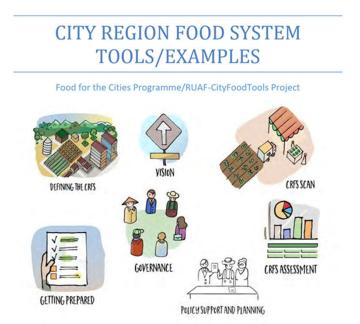




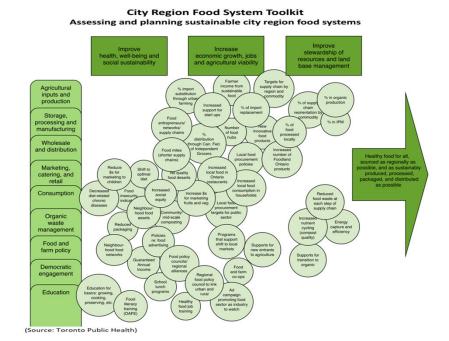
## Food system mapping

Guiding questions for your analysis

## Select a reference that fits your field of play, your theme, such as FAO, RUAF and others



Source: FAO 2018



## Use guiding questions on Food Systems (1)

### A. Who feeds the city region:Where does the food come from?

- What and how much food is produced locally in the city region?
  Where are inputs and resources sourced from?
  How does the city region's food supply system fit into the wider national and global food supply system?

B. Food processing and manufacturing:Which companies prepare/manufacture the food consumed in the city region?

#### C. Food wholesale and distribution:

Who supplies the food to businesses/markets that sell food to consumers?

#### **D. Food marketing, catering and retail:**

 Where do citizens buy their food? Please differentiate between citizens of different socio economic conditions and urban-rural areas.

## **Guiding questions on Food Systems (2)**

#### E. Food consumption:

- What do people in the city region eat?
- What is the composition of their actual diet and food basket?
- What are food security/nutrition/food related health concerns?
- Can people access local food and where?

#### F. Food and organic waste:

• Where and how much food and organic waste is generated along the food chain, how is it managed?

#### G. What policies and plans influence the CRFS?

• Identify policies directly related to food production, processing etc., as well as other sectoral policies (health, economic development, land use planning) that have a bearing on the CRFS.

#### H. Who governs the food system?

• What role and power do decision-makers and key stakeholders have in shaping a more sustainable/resilient food system that serves the city region?

### **CRFS Toolkit: questions for analysis**

- What are the strengths and vulnerabilities of the current city region food system?
- To what extent is the current food system (and different parts of the food system) resilient to shocks and projected circumstances in the longer-term?
- Which areas of the city region, what parts of the food chain and which groups of residents/involved stakeholders would be most adversely affected by vulnerabilities in the food system?
- What are the key priority areas that need to be addressed to develop a more sustainable and resilient food system for the future?
- What are the 5-10 main key issues that require further research and in-depth assessment?





## **Example of food mapping**

- Work of Katrin Bohn on Carthago city















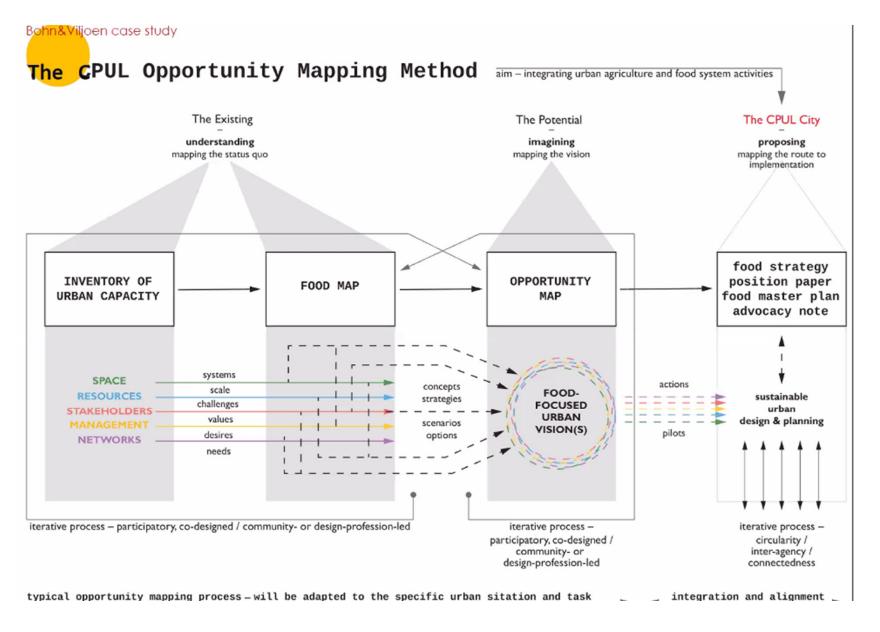




#### **AESOP4food**

#### Action for Education, Spatial Organisation and Planning For Sustainable Food





#### **AESOP4food**

#### Action for Education, Spatial Organisation and Planning For Sustainable Food



#### // Urban themes 12 // Strategic statements 9 // Food-focussed urban visions #1 // Les vergers de Carthage #2 // Un réseau de jardins historiques #3 // L'agriculture, pilier de l'économie de Carthage #1 // Dvorything is a resource , especially waste and grey waters WE AT Local food production to a target to start with VS // Food system activities have a financial value #4.// There is educational value in correcting food iteracy to food sites #5.// Pressure related to Certhage's world heritage status can be a benefit HE // Strong Inkages between municipality and community are good #3 // Agriculture, pillar of Carthage's economy #5 // Réseaux d'alphabétisation alimentaire #4 // La ville auto-sufisante #6 // Paysages urbains productifs ## // Unused urban spaces offer employment apportunities that the countryside does not #\$ // Carthago's compactness can be a bonefit P10 // Spatal networks can emibili social networks #11 // Whatever is chose, from its above, a body trail from each #12 // Certrage docon't lack credinty, the challenge is to push boundaries & regulations #5 // Food literacy networks #7 // Le monde te soutient #8 // Côte fertile #9 // Une nouvelle génération d'agriculteurs ASSOCIATION

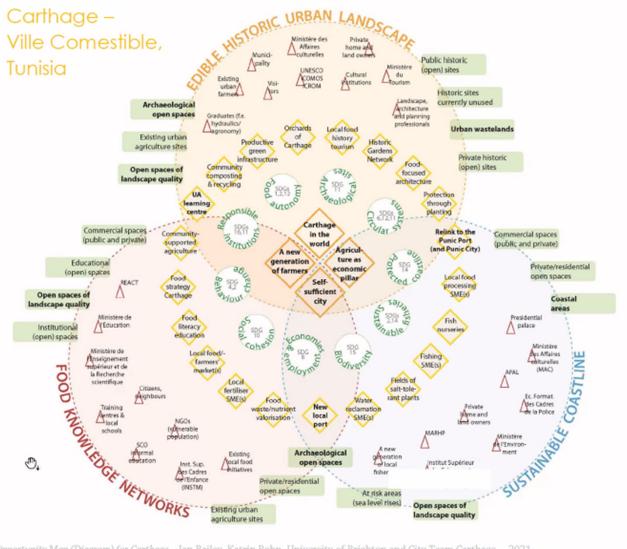
nage: A food man for Carthage - Ian Bailey. Katrin Bohn. University of Brighton and City Team Carthage - 2021

#7 // The world is supporting you

#### **AESOP4food**

#### Action for Education, Spatial Organisation and Planning For Sustainable Food

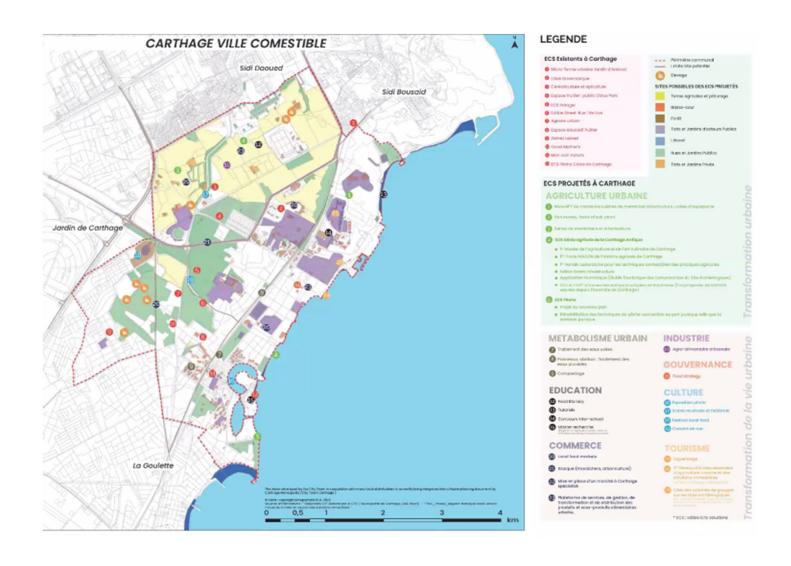




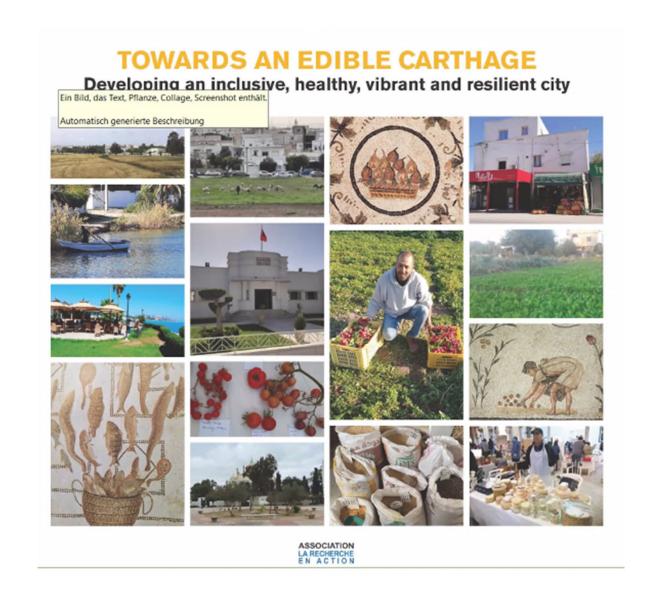
pportunity Map (Diagram) for Carthage - Ian Bailey, Katrin Bohn, University of Brighton and City Team Carthage - 2021

#### Action for Education, Spatial Organisation and Planning For Sustainable Food













## Short poll on the literature



















# Poll: How do you define agroecology? Typ your preferred answer in the chat (a,b,c,d)

- a. A combination of ecological, biological and biodynamic agriculture
- b. A type of agriculture where cycles of material, water, organic matter are closed.
- c. A method of agriculture where farmers combine the material processes with spiritual approaches relating to cosmic cycles
- d. Agriculture that is productive, conserves natural resources, and socially engaged.

# What would be for you transformative change for sustainable food planning

- a. A change of diets in a group of consumers to consume more local products
- b. Empowerment of a group of farmers to organise collectively short chains
- c. Creating a community garden in your neighbourhood
- d. Informing a councillor of the community on the advantages of reterritorialisation of food production

# Seminar on the reading material Thursday morning October 16th onsite in VilniusTech

Each student selects a text of the reading material

Prepare 3 slides to present:

- a. The main content
- b. Your reflection on the content: what do you think of it, what is the most interesting
- c. Explain how what you read may impact your work as a landscape architect.

Everybody presents for 6 minutes (we will make use of a timer.

We conclude with a general reflection.

# Seminar on the reading material Thursday morning October 16th onsite in VilniusTech

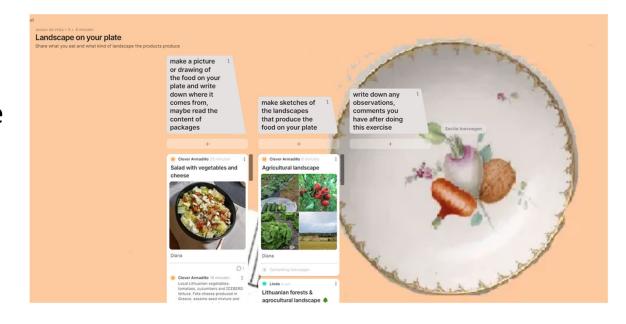
	Augustinas	Barbara	Baltrus	Dominikas	leva	Redas	Vaida
IPES report A Long Food Movement.							
Deh-Tor, C.M 2017 From Agriculture in the City to an Agroecological Urbanism							
FAO Report: "Integrating food into urban planning" page 18 – 32							
Posthumus, H., et al. (2018). Food systems: From concept to practice and vice versa.							
Tornaghi, Chiara. (2016). Urban Agriculture in the Food-Disabling City: (Re)defining Urban Food Justice, Reimagining a Politics of Empowerment. Antipode. 49. 10.1111/anti.12291.							
Menatti. L. (2017). Landscape: from common good to human right. International Journal of the Commons Vol.11, no2 2017, p649 –659							
The role and functions of Stakeholders in the development of local food systems: Case of Lithuania.							

### **Show your plate:**

https://padlet.com/geronimo2/landscape-on-your-plate-7hsu4djzr0ln5n8n

The assignment is meant to have more awareness of where your food comes from and what kind of landscapes these create

If you did not add a plate yet, please do before October 9.



### Recap to think about

- Define the scope of your area and the main aim of your analysis
- Define whether you make a forecast or an analysis of the current situation.
- Which elements are part of my system?
- Organise and group the elements
- How do the elements relate to each other?
- Collect data on the elements and the relationships
- Make sure that the units of quantative data are linked to each other
- Add the data in the system map
- Use guiding questions for your analysis

### References

- FAO. (2018) City Region Food System Toolkit, Assessing and planning sustainable city region food systems, publication of FAO, RUAF and Wilfrid Laurier University. <a href="http://www.fao.org/in-action/food-for-cities-programme/toolkit/introduction/en/">http://www.fao.org/in-action/food-for-cities-programme/toolkit/introduction/en/</a> introduction (page 1-3), questions and schemes of page nrs 133 until 144.
- Virginia Polytechnic Institute and State University. (2011) Community-Based Food System Assessment and Planning Facilitator's Guidebook, publication 3108-9029.- introduction and then continue until page 18.
- Countryside Charity (CPRE UK) <a href="https://www.cpre.org.uk/resources/mapping-local-food-webs-toolkit-2/">https://www.cpre.org.uk/resources/mapping-local-food-webs-toolkit-2/</a> 7 pages that explain the toolkit.

### Next lecture Thursday October 9, 14h30 EET

Food governance, food councils - examples and principles

Every student has selected his/her text for the seminar

Presenting landscape on your plate