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Action for Education Spatial Organisation and Planning For Sustainable Food

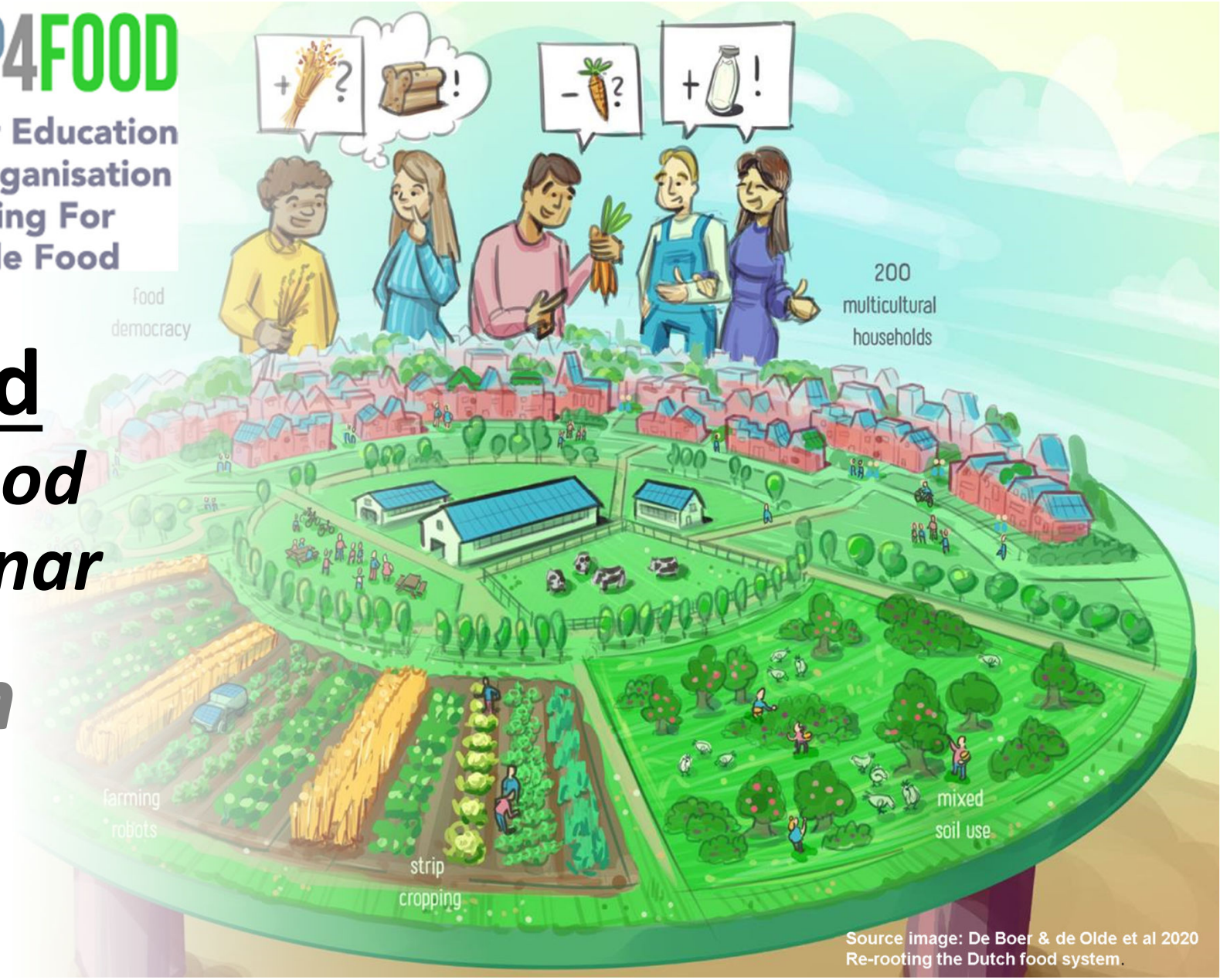
AESOP4Food

Sustainable Food Planning Seminar

Fifth session

PHASE II / 2023

March 30, 2023



Source image: De Boer & de Olde et al 2020 Re-rooting the Dutch food system.

AESOP4food Online Seminar 2023

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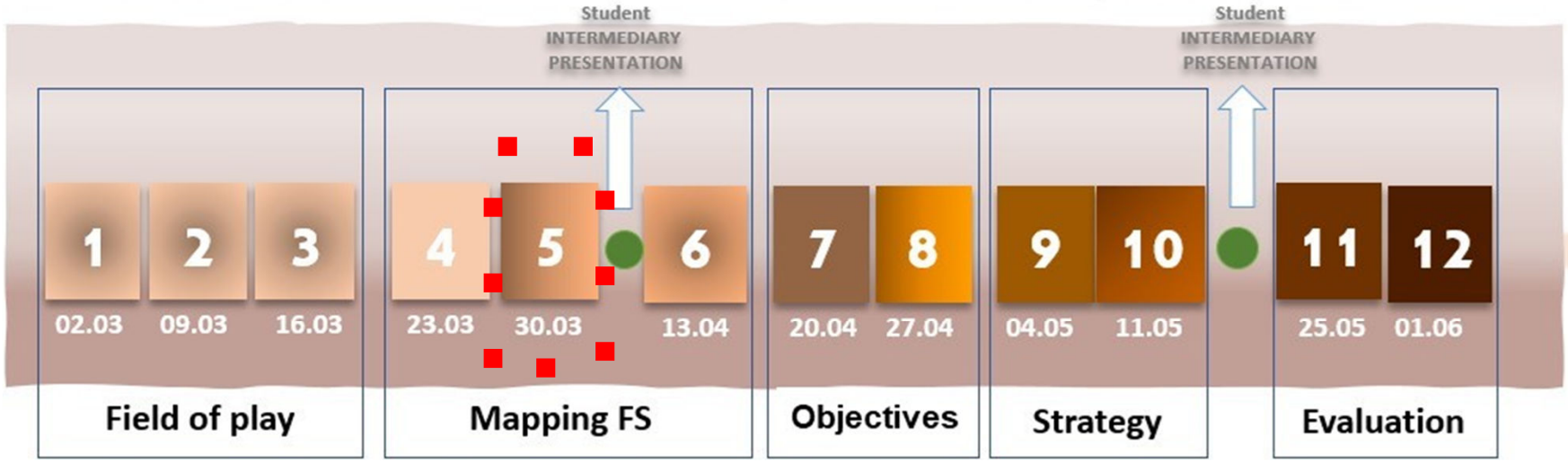
COURSE SCHEDULE

March 2nd – June 1st, 2023 Thursday / 17:00 to 18:30 CET



Student FINAL PRESENTATION

FP

15.06

Mainly for students from partners Universities

INTENSIVE WORKSHOP GHENT 9 – 18 July, 2023

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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

- ***Introduction*** *Marian Simón, UPM*
- Jorge Molero, Red de Municipios por la Agroecologia: ***Mapping the Short Food Supply Chains***
- ***Q&A*** *session/Exercise*
- *Outlook on next session / compulsory reading*

n&Viljoen case studies

AMPLES OF FOOD & OPPORTUNITY MAPS FOR URBAN DESIGN PROJECTS

Urbane Agrikultur in Köln-Ehrenfeld, Germany

cale: **neighbourhood**
apping method: **participatory**

London Thames Gateway, Great Britain

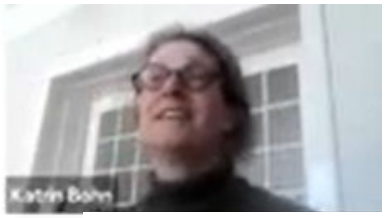
scale: **suburban / metropolitan**
mapping method: **design-professional**-led

The Urban Farming Project Middlesbrough, Great Britain

cale: **city**
apping method: **participatory**
s well as design-professional-led

Carthage – Ville Comestible, Tunisia

scale: **city**
mapping method: **participatory**
as well as design-professional-led



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- **Place-based/time-based/citizen-based/purpose Maps**
- **Co-design**
- **OPPORTUNITY maps**
- **With who? For whom?**

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Case study: Mapping the Short Food Supply Chains

Jorge Molero, RMAe 30/03/2022

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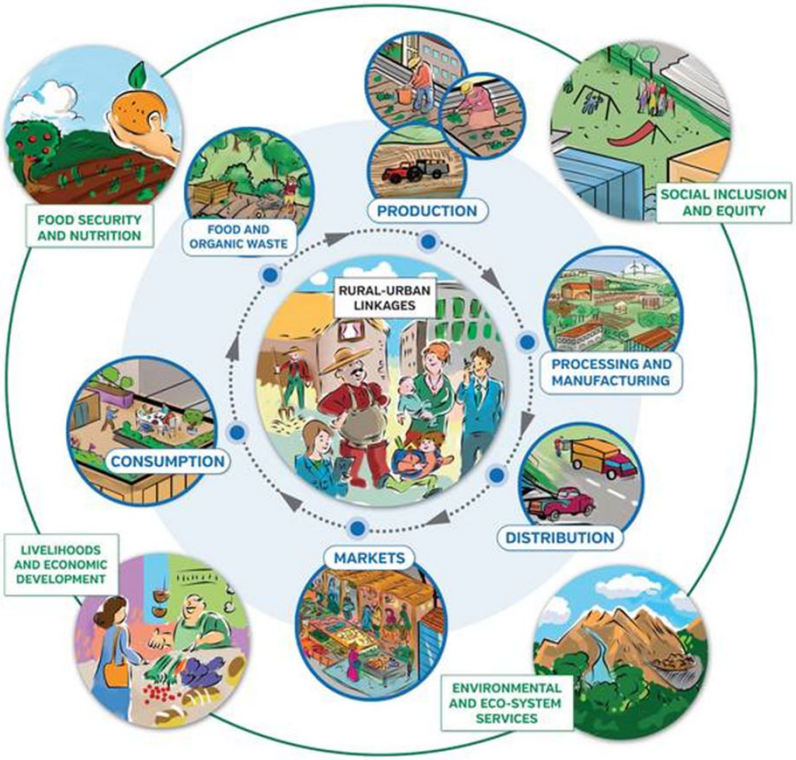
City Region Food Systems: Actors & Challenges



City Region Food System is defined as "

- all the actors, processes and relationships
- that are involved in food production, processing, distribution and consumption
- in a given city region".

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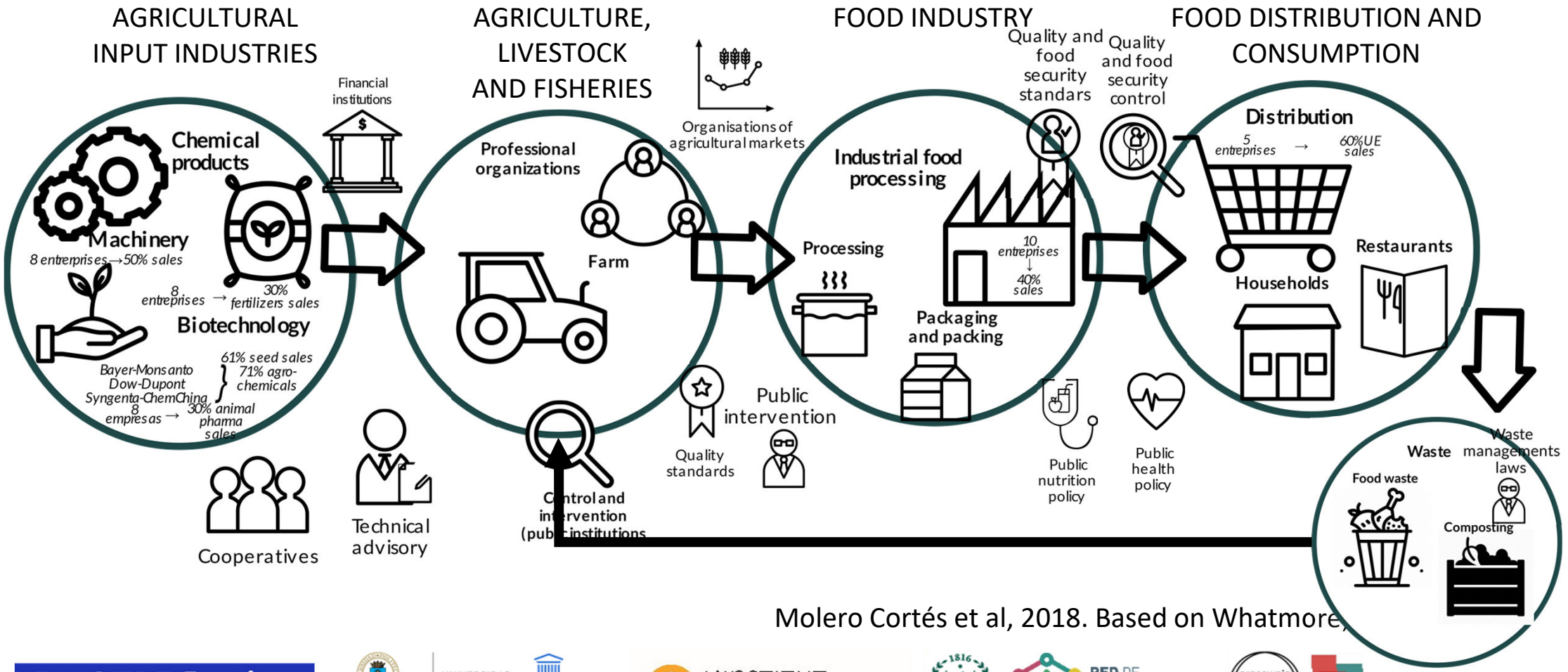
Mapping the WHOLE food system

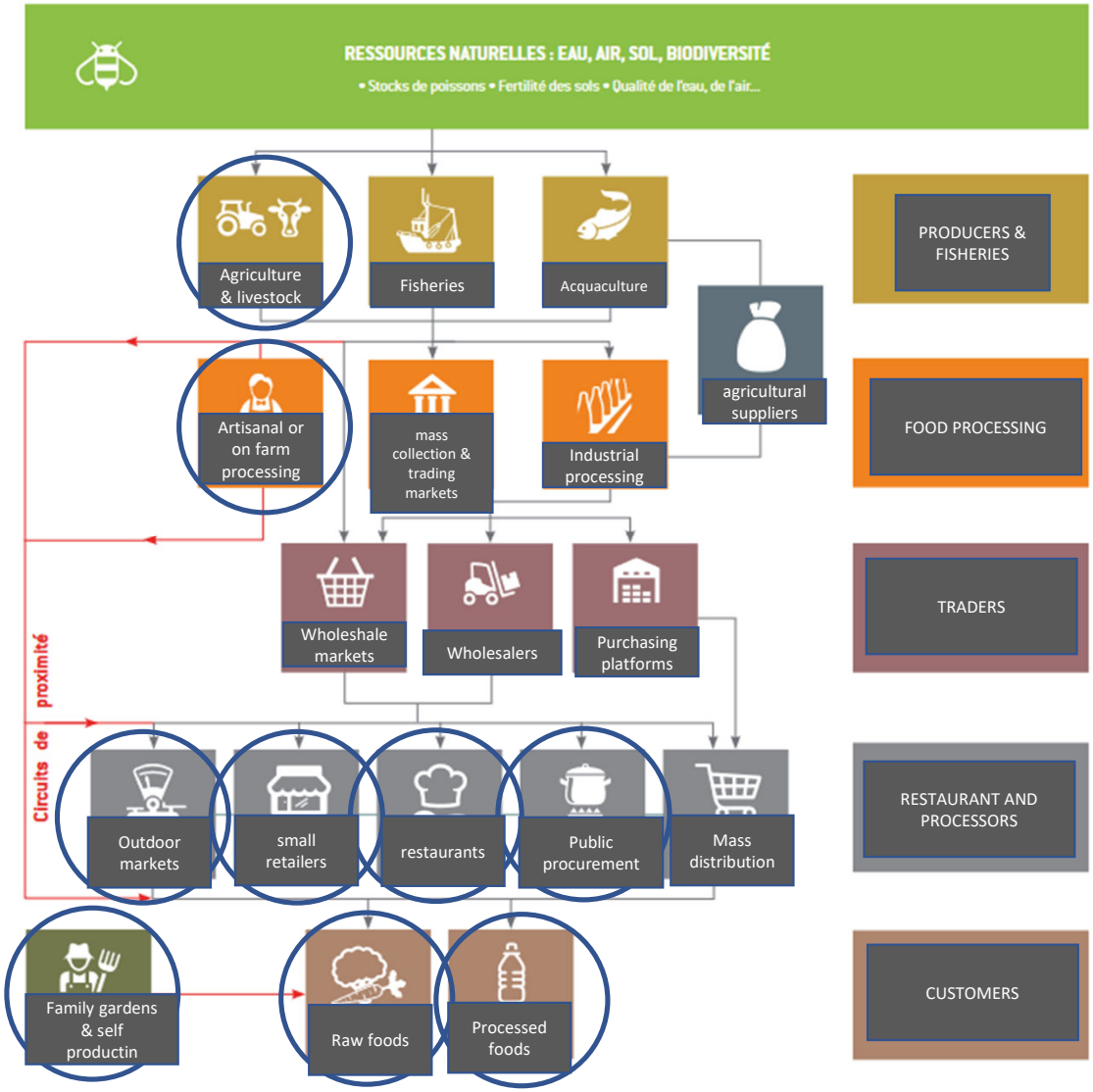


Molero Cortés et al, 2018. Based on Whatmore,

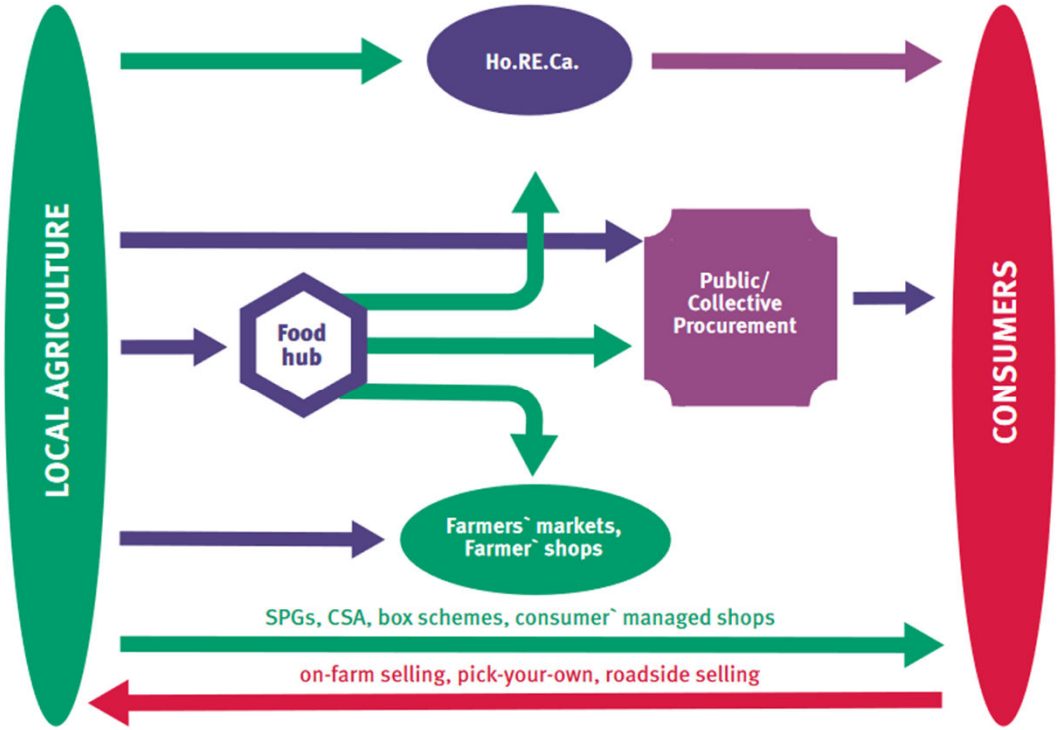
What are Short Food Supply Chains?

- They are Supply Chains, Short in term of
  - Number of nodes = intermediaries
  - Distance = km
- Balanced
  - in economical relations
  - risk management

Actors of the Food Systems



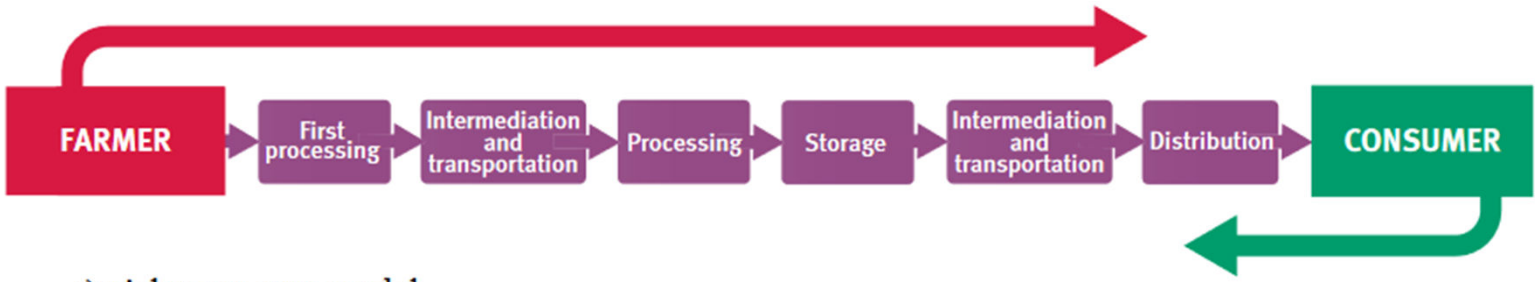
A map of SFSCs typologies



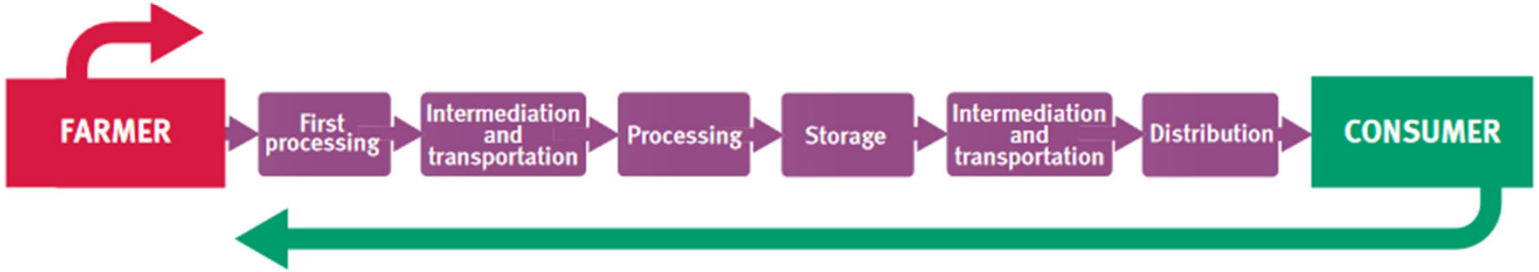
United Nations Industrial Development Organization, 2020

a) general representation

b) farmers`market model

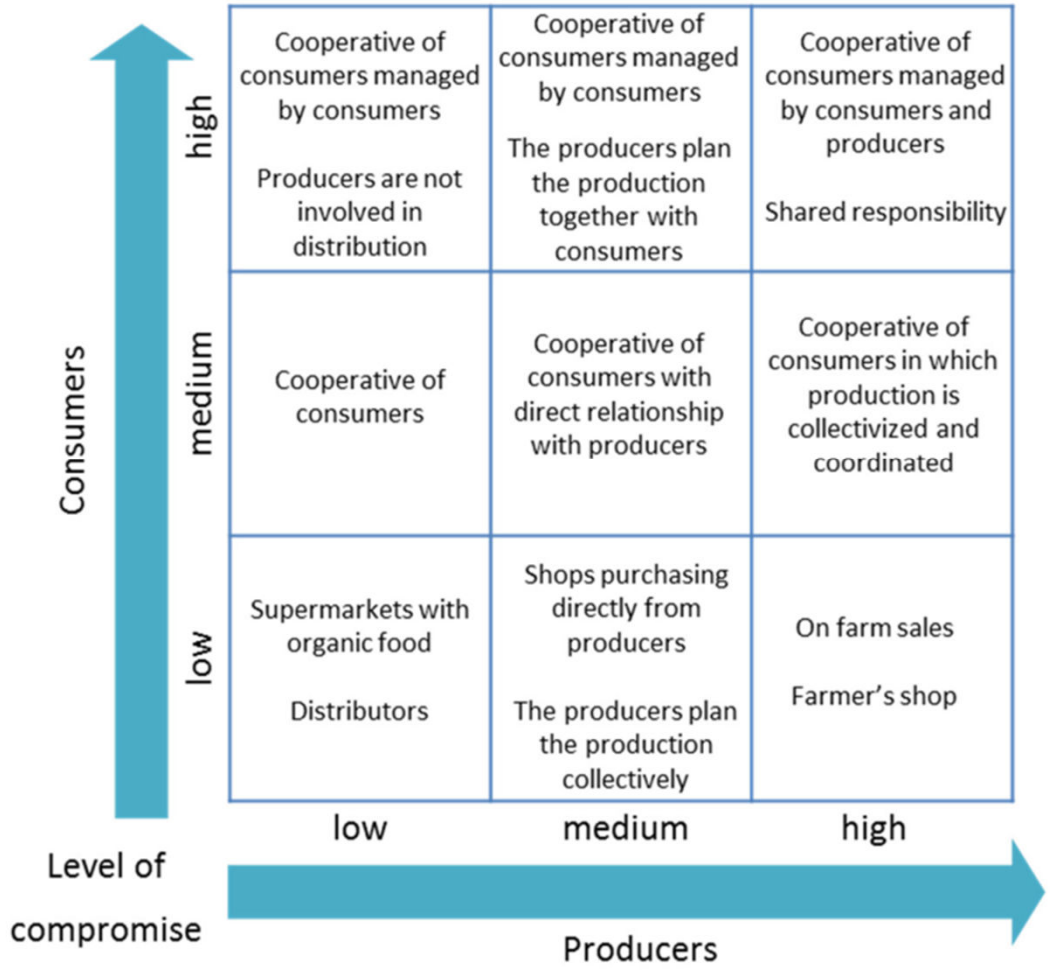


c) pick-your-own model



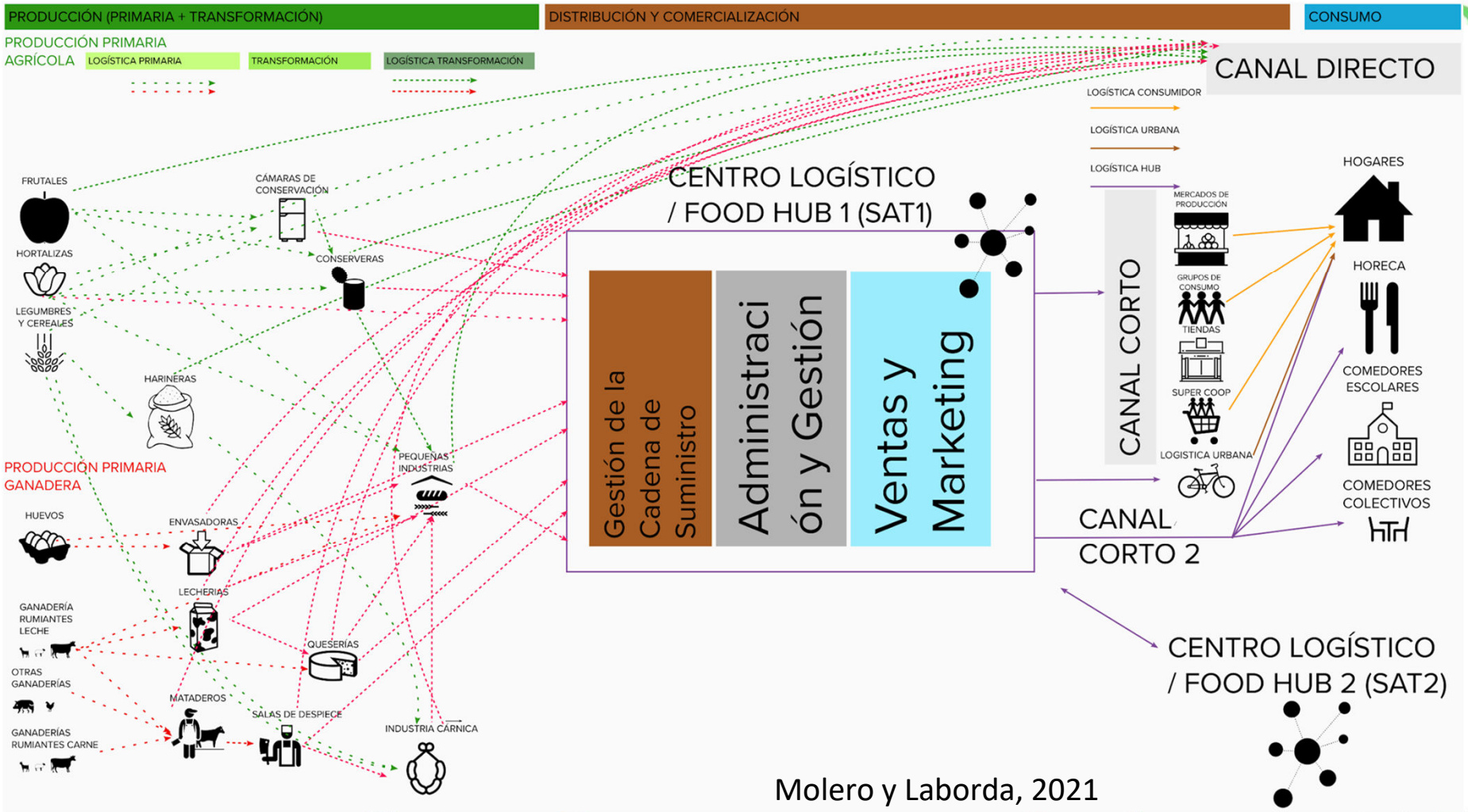
United Nations Industrial Development Organization, 2020

Main actors of SFSC and typology



Jarzebowski et al, 2020

A more complex vision…



Molero y Laborda, 2021

Use guiding questions on Food Systems (1)

A. Food production in the city region:
- What and how much food is produced LOCALLY in the city region?
- Where are inputs and resources LOCALLY sourced from?

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

C. Food wholesale and distribution:
- Who supplies LOCALLY 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.

FAO, 2018, p 134

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
    - Main products!
- Can people access LOCAL food and where?

F. Food and organic waste

G. What policies and plans influence the CRFS?

H. Who governs the food system?

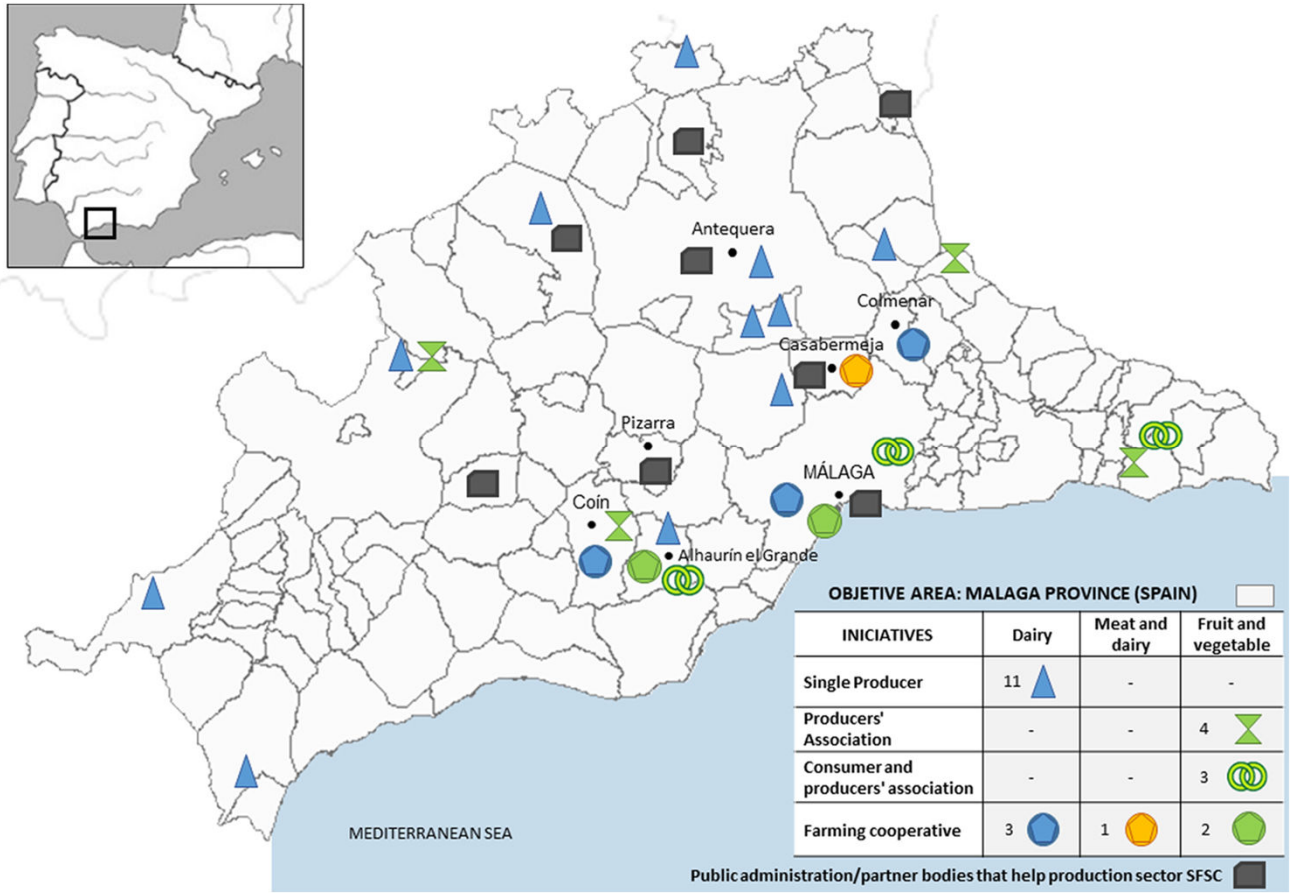
FAO, 2018, p 134

Do not forget!

- Map physic and VIRTUAL networks
- Relevance and statistical significance
- Diferent analysis
  - Whole food analysis
  - Product analysis
  - Main product analysis

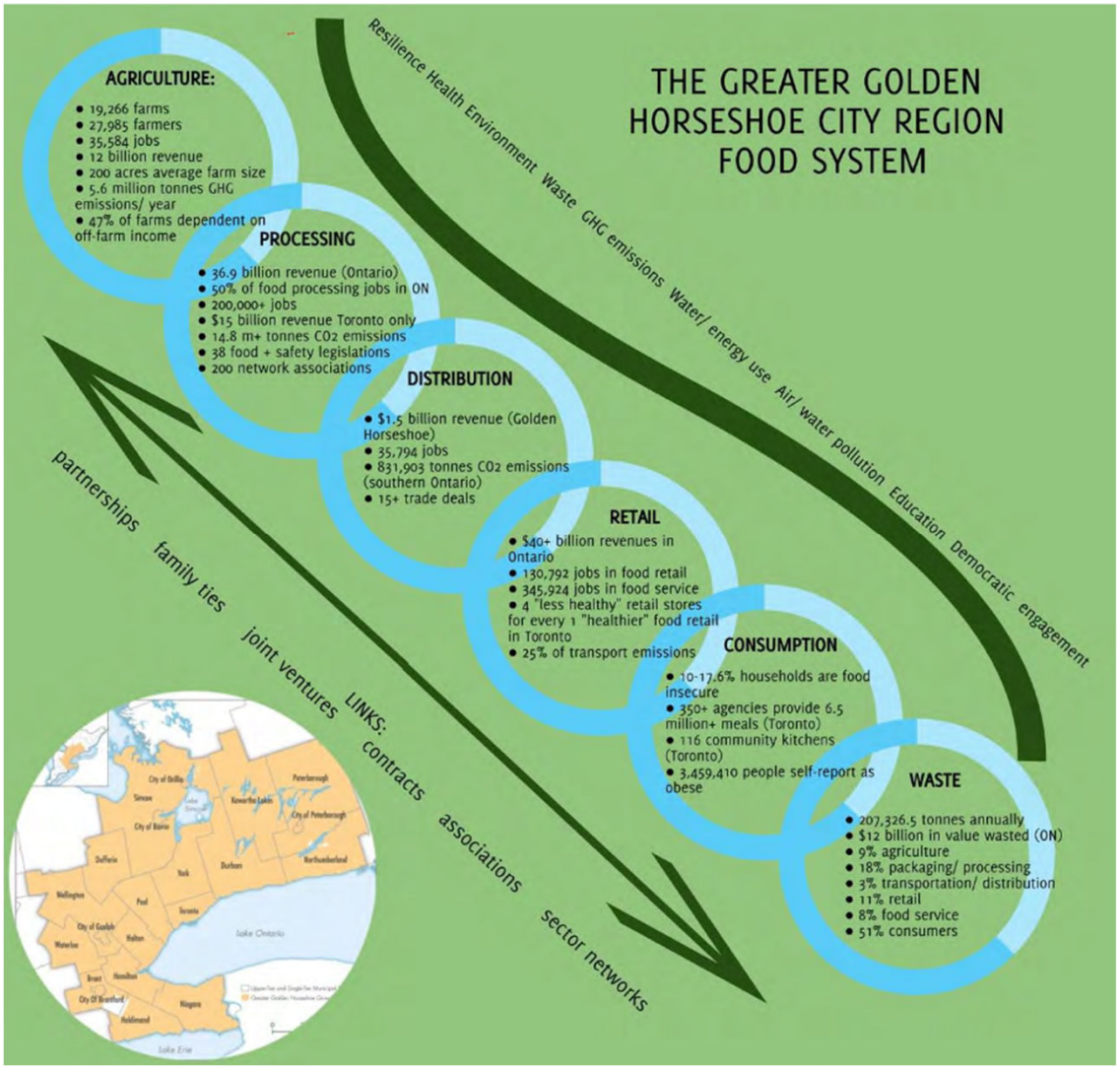
PHASE	STEP	Who?/What?		Where?	How?	Why?	For whom?	How much/many?
QUALITATIVE ANALYSIS	**Step 1: Identify elements & Step 2: Organise and group the elements**	People & Organizations		x	x	x	x	
		Infraestructure: Land & Others		x	x	x	x	
		Products		x	x	x	x	
	Step 3: how do the elements relate to each other?	Flows and streams			x	x	x	
		Processes			x	x	x	
		Social relations			x	x	x	
		Power, regulations, laws			x	x	x	
RESULT	**Qualitative MAP**			**x**	**x**	**x**	**x**	
QUANTITATIVE ANALYSIS	**Step 4: Collect Data**	Elements	Producers	x				Number, €, kg
			Consumers	x				Number, €, kg
			Ho.RE.Ca	x				Number, €, kg
			Food-Hubs	x				Number, €, kg
			Public/collective Procurement	x				Number, €, kg
			Farmers markets	x				Number, €, kg
			Farmers shops	x				Number, €, kg
			SPGs, CSA, Box-schemes, consumer managed	x				Number, €, kg
			On-farm selling, pick your own-roadside selling	x				Number, €, kg
			Self production	x				Number, €, kg
		Relationships/Flows			x			
	Step 5 Make sure that the units of data are linked to each other							
	Step 6 Add the data to the system map							
RESULT	**Qualitative +Quantitative MAP**			**x**	**x**	**x**	**x**	**x**

SFSC Elements Mapping



INICIATIVES	Dairy	Meat and dairy	Fruit and vegetable
Single Producer	11	-	-
Producers' Association	-	-	4
Consumer and producers' association	-	-	3
Farming cooperative	3	1	2

Rucabardo-Palomar and Cuellar-Padilla, 2018



Mapping the WHOLE Food System

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Product analysis: In season tomato supply

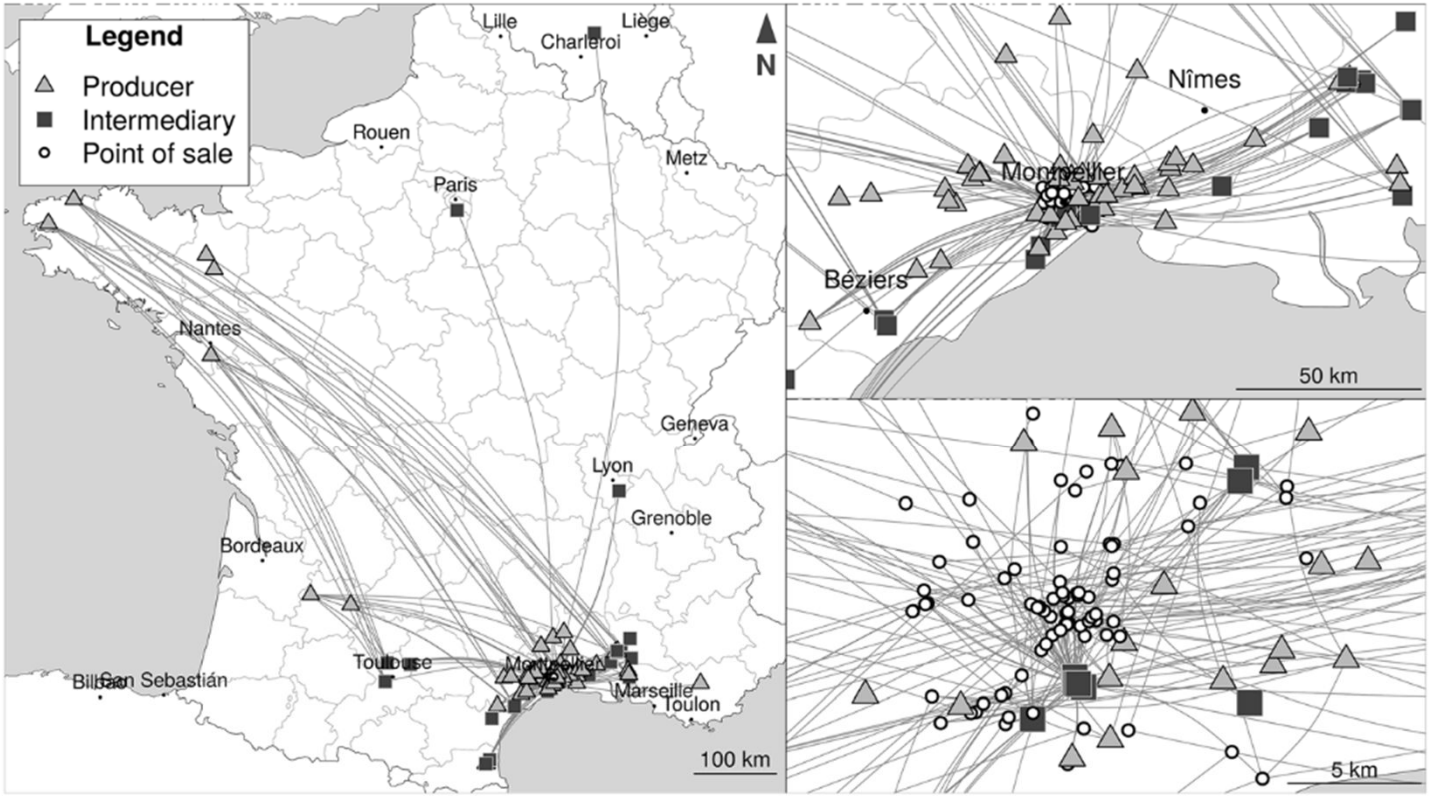
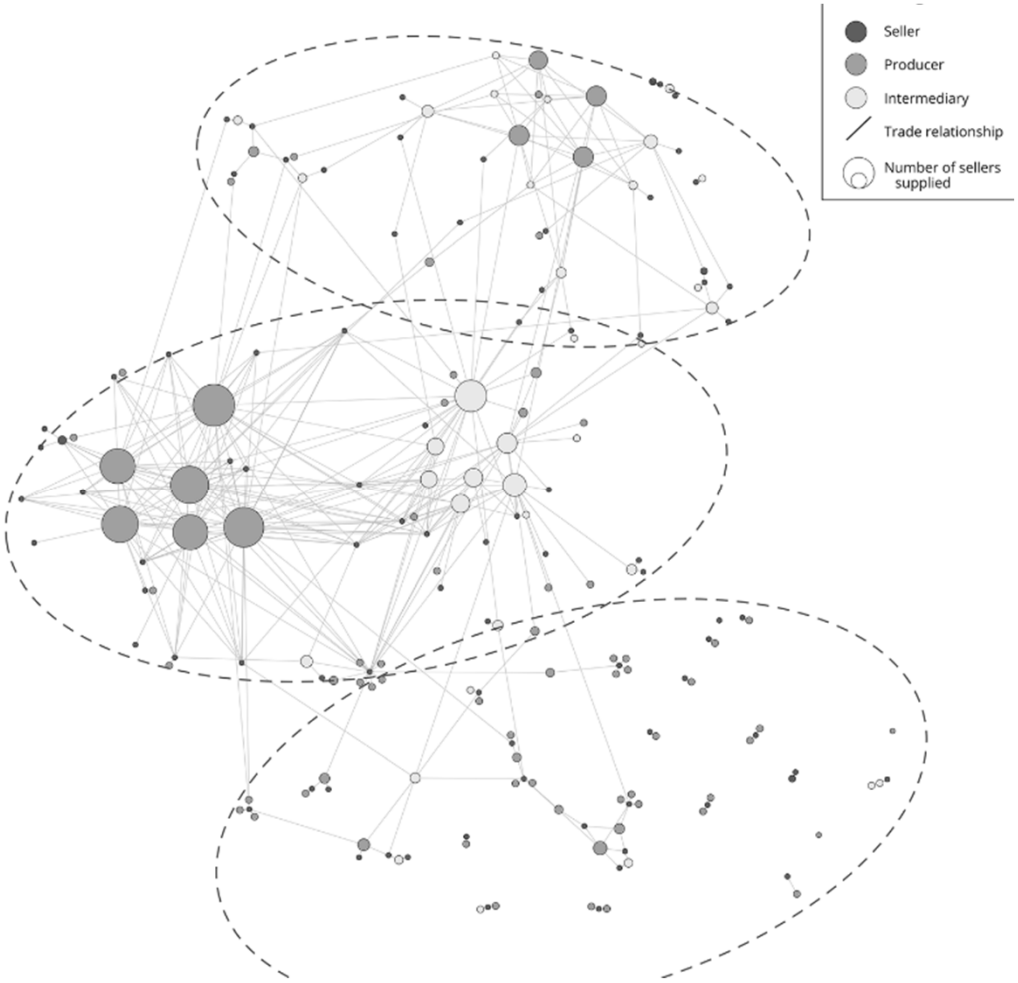


Fig. 4 Flows of in-season tomato supply for Montpellier. Source: IGN (2018) and authors. Realised with igraph 1.2.5, sf 0.9.4 and cartography 2.4.1 R packages

Chiffoleau et al, 2020



Analysis of sub-networks

Chiffoleau et al, 2020

References

FAO, RUAF Foundation & Wilfrid Laurier University, 2018. CITY REGION FOOD SYSTEM TOOLS/EXAMPLES Food for the Cities Programme/RUAF-CityFoodTools Project. https://www.fao.org/in-action/food-for-cities-programme/toolkit/introduction/en/

SHORT FOOD SUPPLY CHAINS FOR PROMOTING LOCAL FOOD ON LOCAL MARKETS, 2020. United Nations Industrial Development Organization, 2020

Chiffoleau et al, 2020. Coexistence of supply chains in a city's food supply: a factor for resilience? Review of Agricultural, Food and Environmental Studies

FAO, 2018. Sustainable food systems.Concept and framework. https://www.fao.org/3/ca2079en/CA2079EN.pdf

Rucabado-Palomar, T., & Cuéllar-Padilla, M. (2020). Short food supply chains for local food: A difficult path. *Renewable Agriculture and Food Systems, 35*(2), 182-191. doi:10.1017/S174217051800039X

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¿CÓMO AVANZAR DESDE LOS **MUNICIPIOS** HACIA UNA **ALIMENTACIÓN SALUDABLE Y SOSTENIBLE** PARA TODO EL MUNDO?

13 PROPUESTAS CLAVE PARA LA LEGISLATURA 2023-2027

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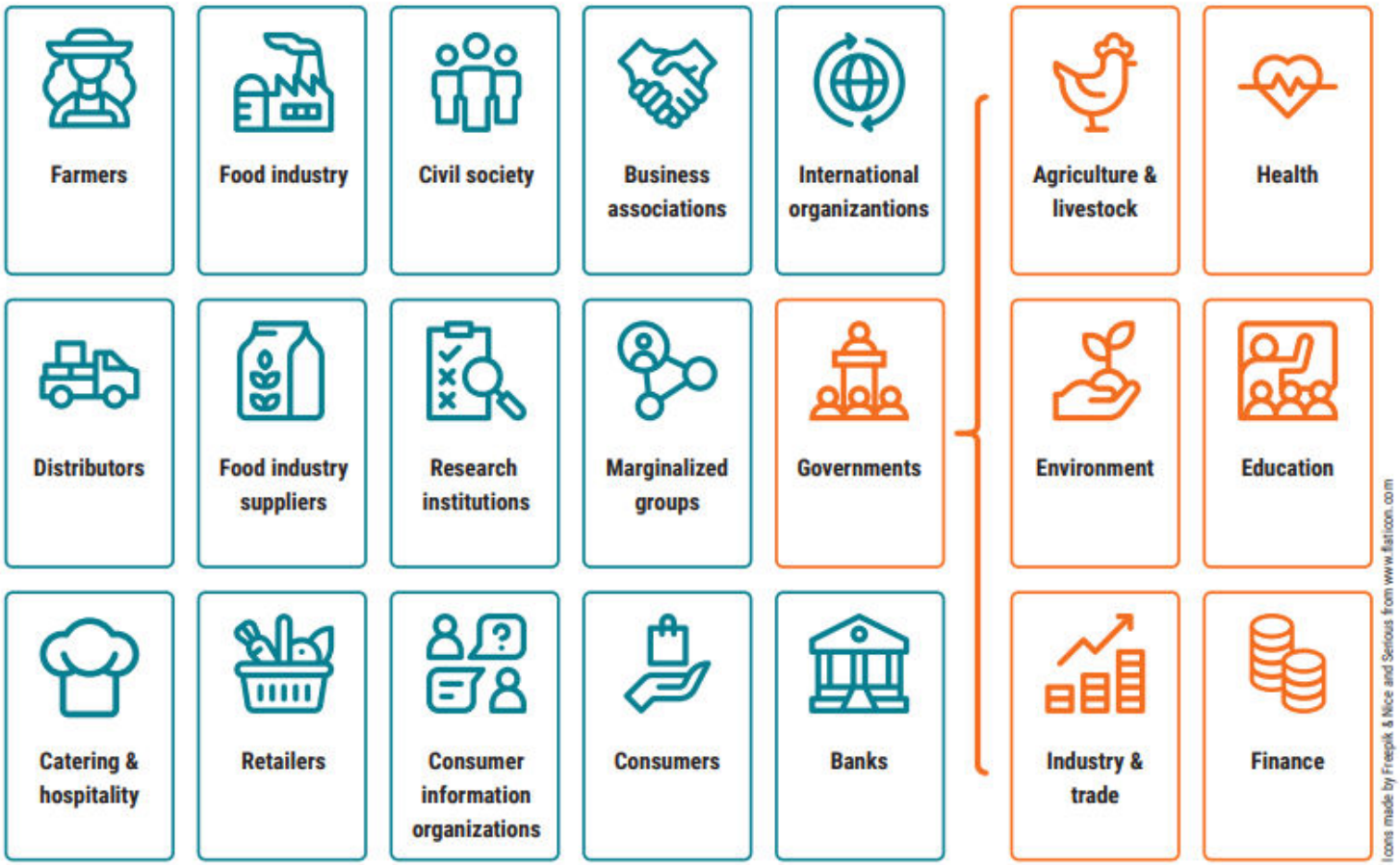
Figure 4: Food systems main stakeholders



Source: Collaborative Framework for Food Systems Transformation

Building consensus

and at the same time

Achieving transformative practices

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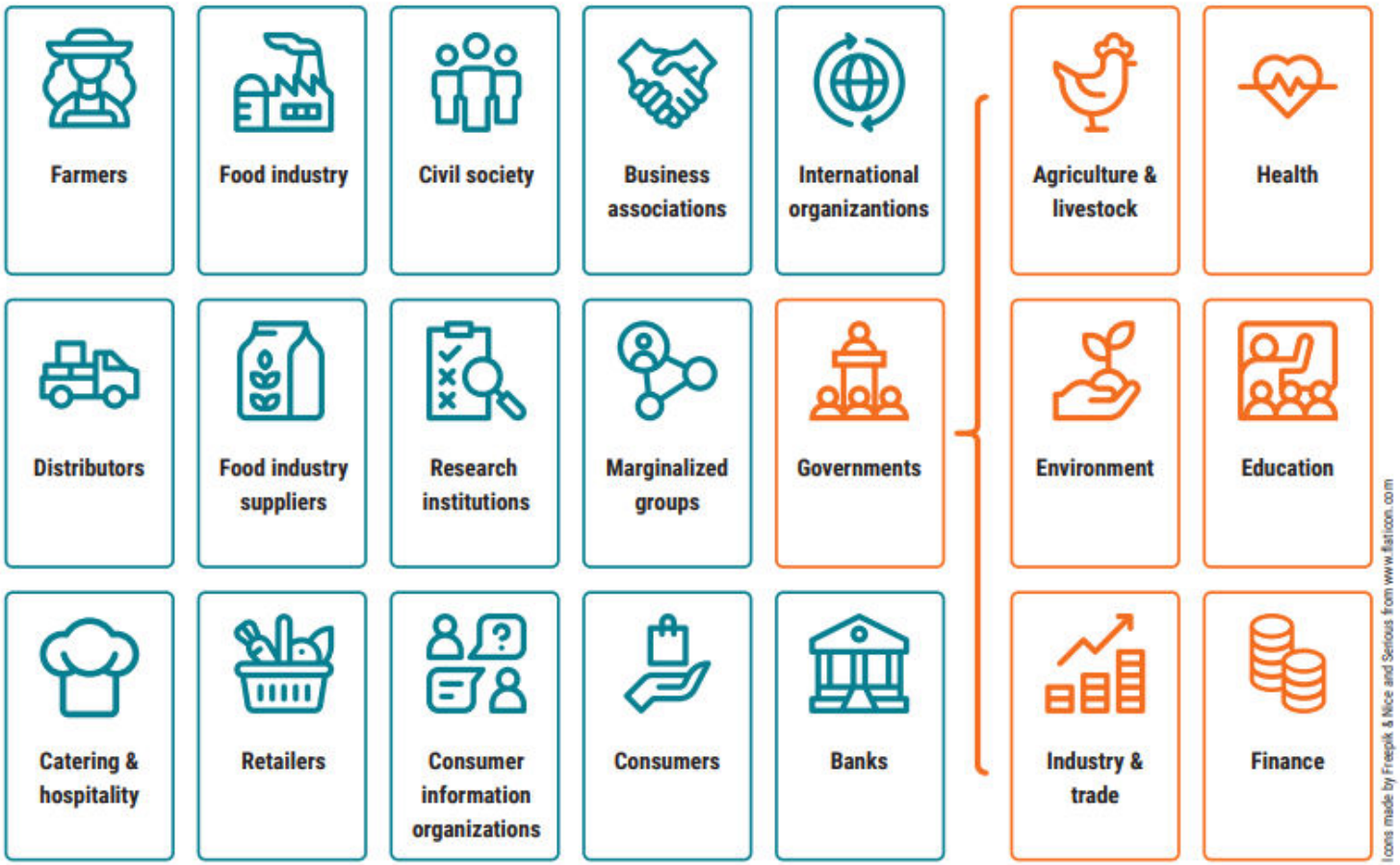
Figure 4: Food systems main stakeholders



Source: Collaborative Framework for Food Systems Transformation

Which stakeholders are engaged?

Which stakeholders are critical to achieve SFS?

AGENDA 6th session on April 13, 2023

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- **Introduction** *Marian Simón Rojo, Universidad Politecnica de Madrid*
- ***Combining Tools for Transformative Cartographies*** *Marian Simón*
- Q&A
- *Next session* + compulsory reading

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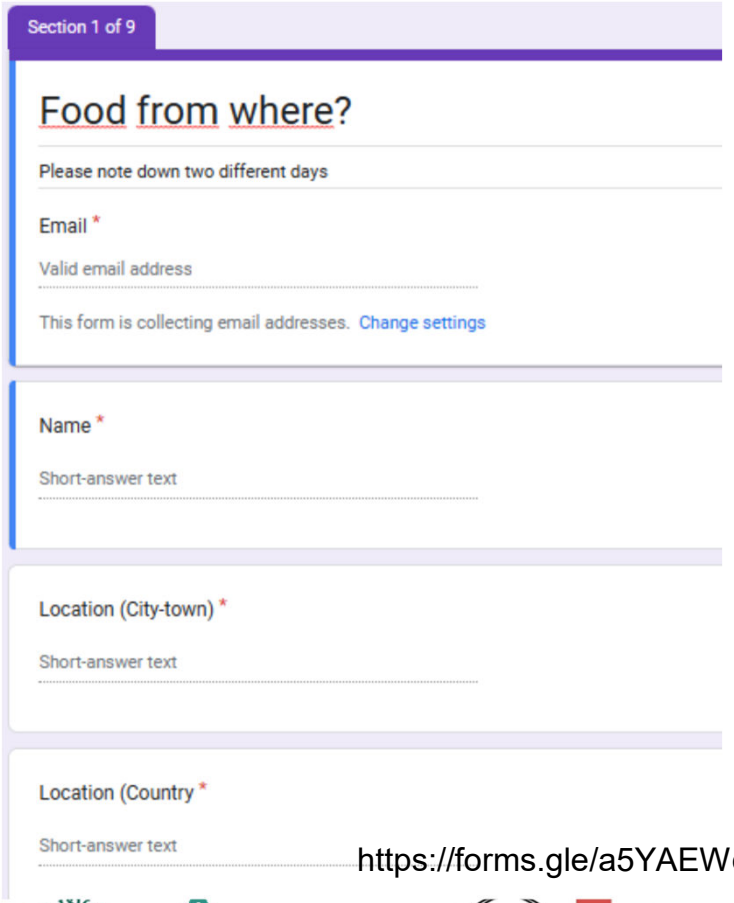
Compulsory reading + Task

- Jensen, P. D., & Orfila, C. (2021). ***Mapping the production-consumption gap of an urban food system: An empirical case study of food security and resilience***. Food Security, 13, 551-570. (5min)



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