

FOODSHED: Is there a specific spatial signature in short supply chain (Case Beef)? around Avignon (South of France)

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▶ To cite this version:

Mouléry Michel, Esther Sanz Sanz, Claude Napoleone. FOODSHED: Is there a specific spatial signature in short supply chain (Case Beef)? around Avignon (South of France). Royal Geographical Society (with IBG) Annual International Conference 2022, Aug 2022, Newcastle, United Kingdom. hal-03765347

HAL Id: hal-03765347 https://hal.inrae.fr/hal-03765347v1

Submitted on 31 Aug 2022

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Royal Geographical Society





Tuesday, 30 August, 2022, Henry Daysh Building - Session: 138; Analyzing and mapping proximities of recovery for food sensitive planning, Présentation number 359

FOODSHED: Is there a specific spatial signature in short supply chain (Case Beef)? around Avignon (South of France)

*Mouléry Michel (Geographer in Spatial Analysis)

INRAE ECODEVELOPPEMENT (DPT ACT): French National Research Institute for Agriculture, Food and the Environment.

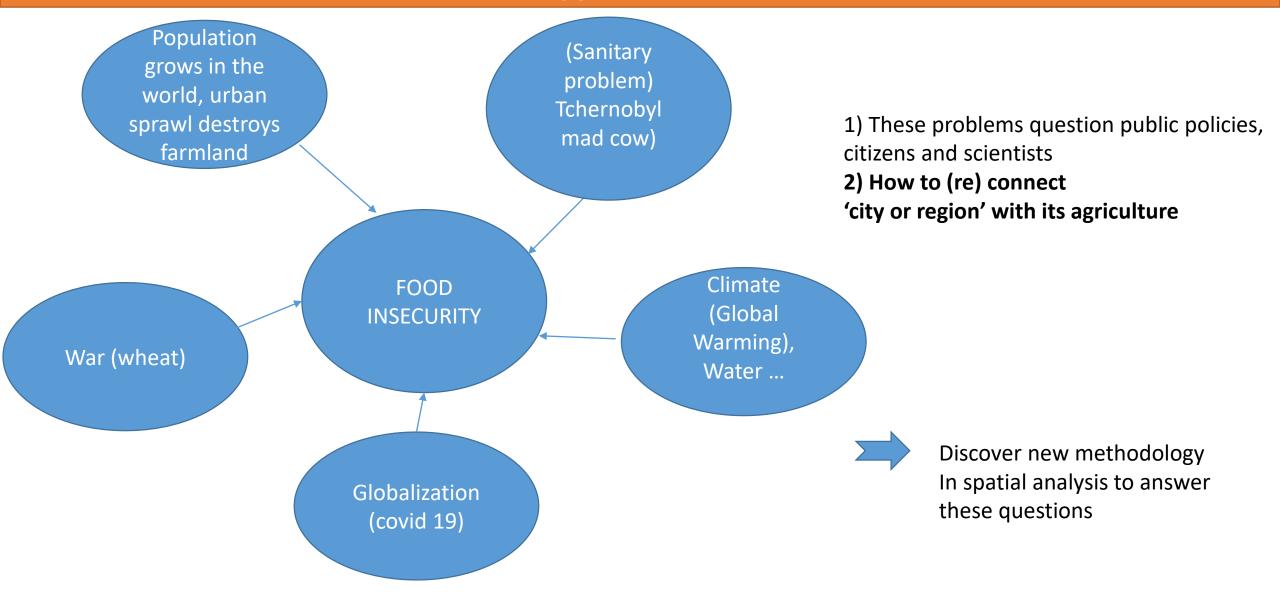
CNRS UMR ESPACE AVIGNON 7300: French National Center for Scientific Research

Project: <u>H2020 FoodSHIFT « Food System Hubs Innovation towards Fast Transition by 2030 »</u>

PLAN

- > Context
- > Research question
- > Area Zone of the study
- Data & Méthodology
- > Results
- > Conclusion

CONTEXT



Research Question

EXAMPLE OF A CASE STUDY	THE GOAL
Collective catering in Avignon > Problem of lack of beef (in schools)	CANTEEN: Feed the schools (Quality and origin of the food) -> local approach

(H1) FOODSHED: Is there a specific spatial signature in short supply chain (case of Beef)?

Foodshed? = spaces close to each other (but not necessarily contiguous) linked by the production, circulation and consumption of a certain product. (definition Kinunen, Nature Food, 2020)

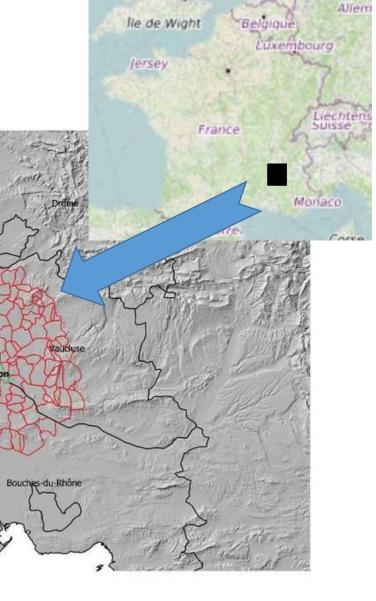
Our objectif

- 1) Detect the potential food basins in our region (Avignon to 100 KM)
- 2) To see if there are a SPATIAL specific SIGNATURE IN SSC? (hypothesis)
- 3) To produce knowledge (map and statistics) and understand ...



B)

Area Zone of the study (Avignon)



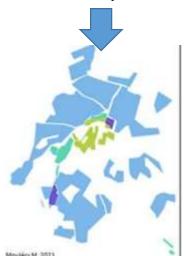
- ➤ Population 92 000 inhabitants
- Between 2 rivers Rhone and Durance (water !!)
- Summers are short, very hot, dry, winters are cold, windy
- ➤ Agriculture -> fruits and vegetables, (the biophysical characteristics are not adapted for the pastoral surfaces)
- Close two departments Ardèche and Drôme(Advantages -> Pastoral surfaces)

HOW TO CREATE A MAP TO DETECT THE Beef food basins in SSC (Short supply chain) -> Which data sources?

STEP 1 : DATA 1
LAND PARCEL
INFORMATION
SYSTEM
CAP PRIMES



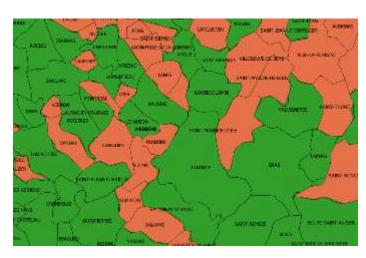
Select of permanent meadows, temporary meadows, pastoral area, wood



Lack of information of the SSC (beef)

STEP 2 : DATA 2
Census agriculture
2010 (Agreste) ->
scale of the city





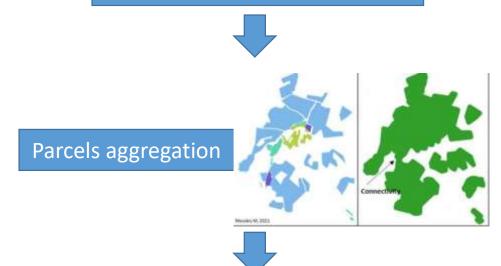
green commune with cattle farm in SSC and color orange not

STEP 3:

OVERLOAD

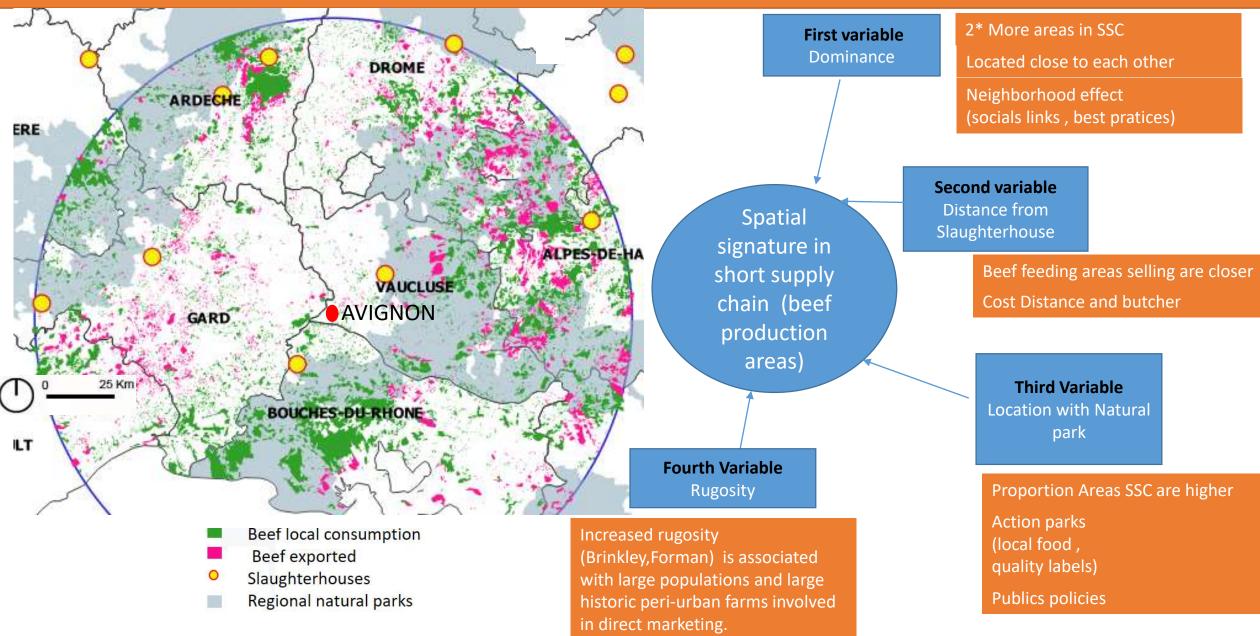
DATA 1 (scale of the parcel) ON

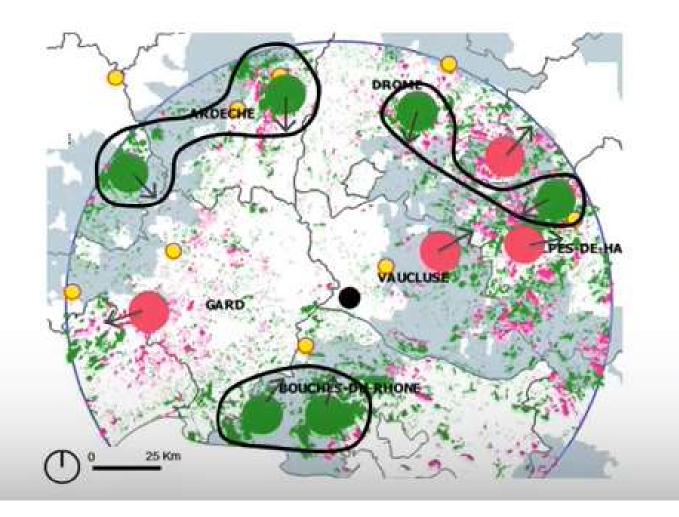
DATA 2 (scale of the city)



MAP
&&
statistics calculation of variables to define the spatial signature in SSC

Results: Characterization of the form and location of farms contributing to local supply chain (SSC)





3. Archipel foodshed

Mouléry, Sanz Sanz et al. (2022)

Conclusion

- ➤ WHY IT'S IMPORTANT !!! -> These approaches are of great interest to public policy! due to the lack of method and tools to work on short supply chains -> have a map -> statistics -> general view or point of reference
- Evaluate the food capacity in a region
- > And to have the possibility to increase local production with actors in the region
- Our methodology -> other research project -> with other type of agriculture
- > To go to the field to better understand, meet the farmers (qualitative studies)

Self-sufficiency assessment: Defining the foodshed spatial signature of short beef supply chains

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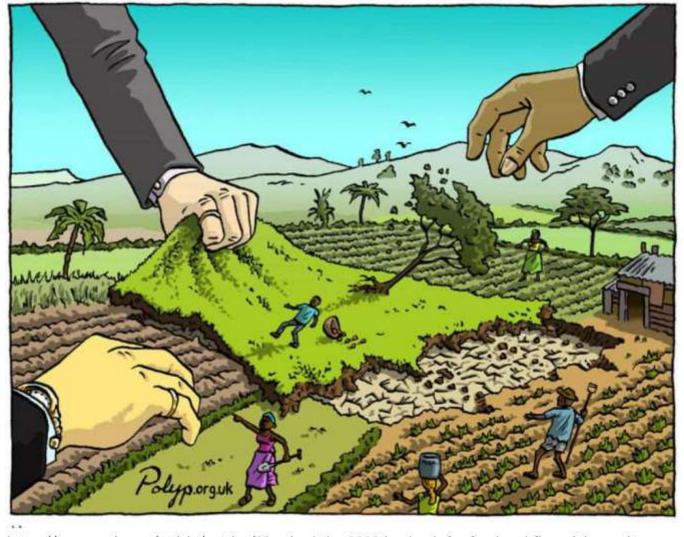
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https://www.grain.org/article/entries/93-seized-the-2008-landgrab-for-food-and-financial-security

THANK YOU FOR YOUR ATTENTION and the team (INRAE, CNRS) C.Napoléone, E.Sanz-Sanz, D.Josselin, V. Angéon etc.. and Matilda Strand!!!!

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