

THE FOODSHED CONCEPT AND ITS RELEVANCE FOR FOOD SYSTEMS' ANALYSIS

THE CASE OF VEGETABLE SUPPLY CHAIN: DIJON, HANOI, HUE

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Outline

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II The Foodshed Concept

III Food2C Project

IV Methodology

V Future Outlooks

I. Introduction

Food System analysis regroup a large diversity of frameworks:

From Global agro-food chains to a variety of Alternative Food Network Approach (AFN)

The City-Region Food System approach chosen by the FAO for its «food to cities» project tries to links several thematic in urban food systems approach

At the crossroad of the CRFS and the AFN, The Foodshed concept is useful to links the moral economy concern of AFN with a bioregional focus

While this concept has some interest it cannot be separated from other Food systems' perspectives (supply-chain studies, innovation)

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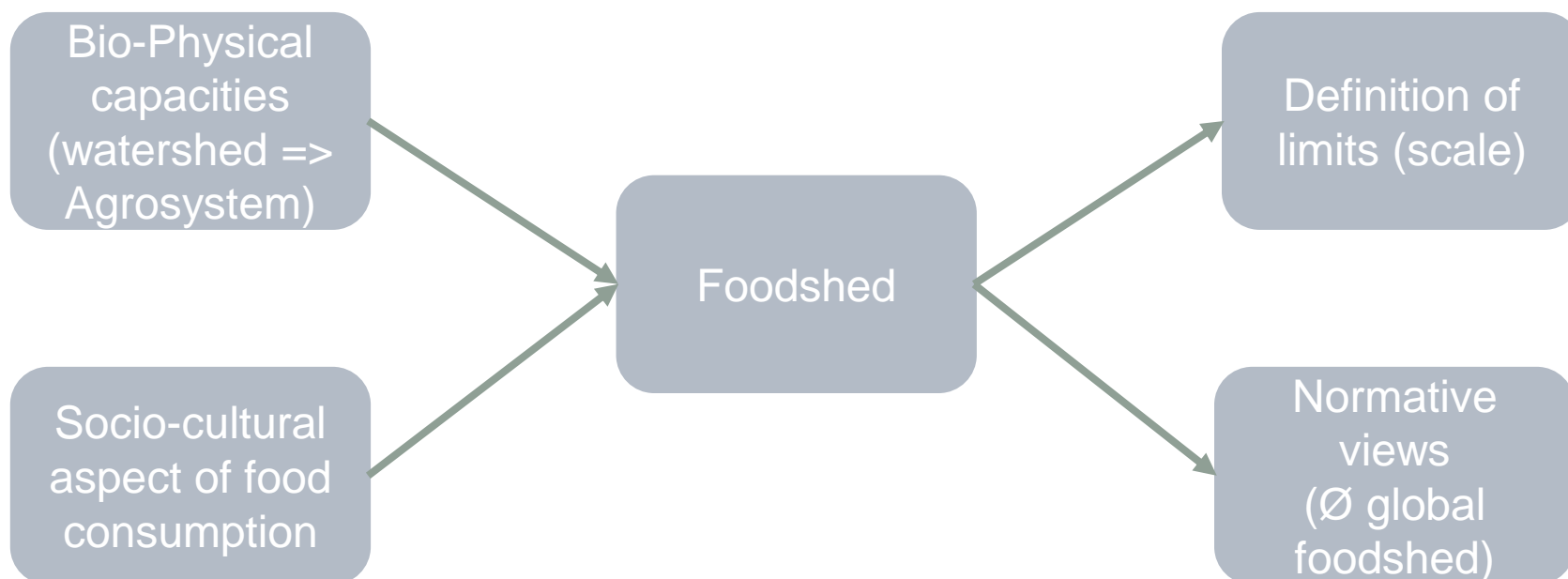
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II. The Foodshed concept (1)

First defined by Hedden in the 1930s, renewed in the 1990s by Getz and Kloppenburg (1996)

Analogue to the watershed concept: the theoretical area that could feed a city according to the bio-physical capabilities of its surroundings



II. The Foodshed concept (2)

The Foodshed concept cannot be separated from the supply chain organisation

Analogously to the food supply diversity of research, the foodshed applications are quite diverse:

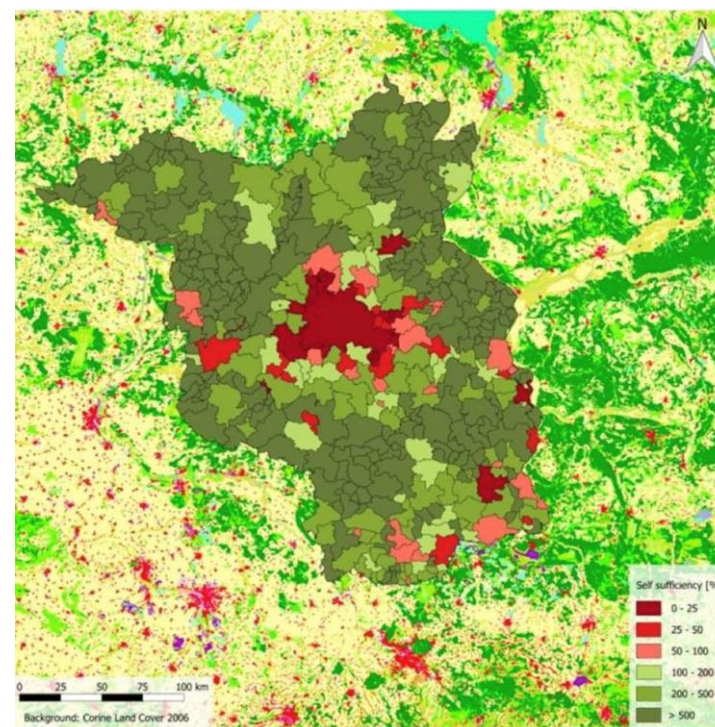
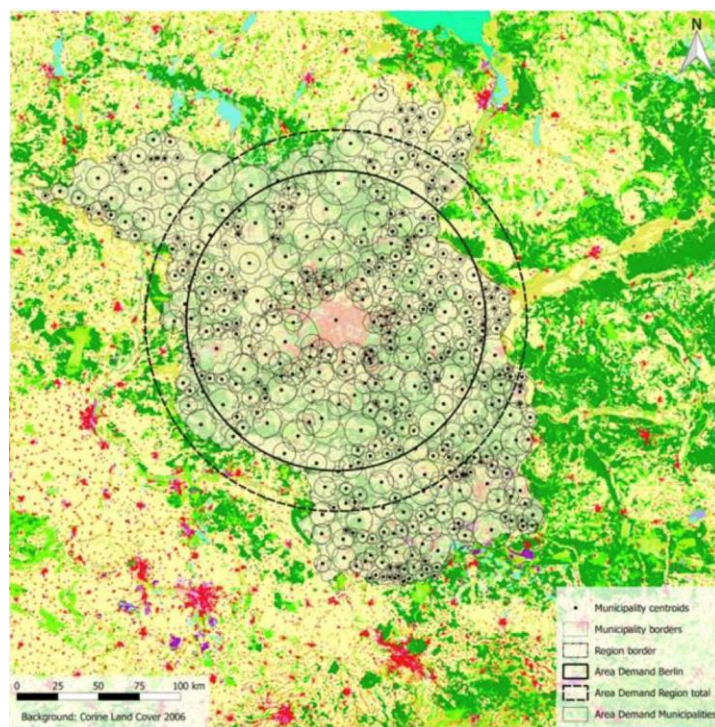
- Normative model of self-sufficient city-region
- Observation of the spatial area that supplies the city

Nonetheless, the Foodshed thematic raise comparable research problem with other AFN:

- Which typology can fit the variety of local food systems (boundaries determination)?
- Which arrangements between stakeholder can be used for the re-localisation of the food system?

II. The Foodshed concept (Example)

Case of Berlin Metropole (FOODMETRES project)



Source: Zasada, I., U. Schmutz, D. Wascher, M. Kneafsey, S. Corsi, C. Mazzocchi, F. Monaco, P. Boyce, A. Doernberg, G. Sali, and A. Piorr. 2017. Food beyond the city – Analysing foodsheds and self-sufficiency for different food system scenarios in European metropolitan regions. *City, Culture and Society*.

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III. The Food2C Project

Multi-disciplinary project that focus on Dijon (France), Hanoi and Hué (Vietnam)

Research on the vegetables supply chain of the 3 cities in a comparative way

Therefore the main questions are :

- How vegetables are supplied to the cities and what are the specificities of their supply chain?
- To what extent the foodshed concept is relevant for the organisation of urban food supply? Can it be potentiality integrated in territorial Agro-Food Policies?

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IV. Methodology

- Spatial screening of Hanoi and Hué's streets: Census of all formal and informal vegetables selling points
- Questionnaire (Bottom-up from retailers to wholesalers) to understand the supply chain governance and their spatial extend
- Simultaneously, estimation of urban demand for vegetable and regional production
- Additionally, testing different definitions of foodshed to different stakeholders might interrogate the practical reception of this concept (participatory mapping is considered but mainly used in natural resource management problems at this time)

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VI. Future Outlooks

The foodshed concept can be an interesting contribution to the local food system's research in City-region settings

Nonetheless, other phenomenon takes place at the city-region scale (i.e. global agro-food chain impact, peri-urbanisation)

On the methodology challenge, the wide range of methods can make the comparison of cases difficult (as in other disciplines like land use science)

Thanks for your Attention!

Selected references:

- Baysse-Lainé, A. and C. Perrin. 2017. Dossier « L'agriculture dans le système alimentaire urbain : continuités et innovations » – Les espaces agricoles des circuits de proximité : une lecture critique de la relocalisation de l'approvisionnement alimentaire de Millau. *Natures Sciences Sociétés*, 25(1), 21–35.
- Blay-Palmer, A., G. Santini, M. Dubbeling, H. Renting, M. Taguchi, and T. Giordano. 2018. Validating the City Region Food System Approach: Enacting Inclusive, Transformational City Region Food Systems. *Sustainability*, 10(5), 1680.
- Griffin, T., Z. Conrad, C. Peters, R. Ridberg, and E.P. Tyler. 2015. Regional self-reliance of the Northeast food system. *Renewable Agriculture and Food Systems*, 30(04), 349–63.
- Hagedorn, K. 2008. Particular requirements for institutional analysis in nature-related sectors. *European Review of Agricultural Economics*, 35(3), 357–84.
- Horst, M. and B. Gaolach. 2015. The potential of local food systems in North America: A review of foodshed analyses. *Renewable Agriculture and Food Systems*, 30(05), 399–407.
- Karg, H., P. Drechsel, E. Akoto-Danso, R. Glaser, G. Nyarko, and A. Buerkert. 2016. Foodsheds and City Region Food Systems in Two West African Cities. *Sustainability*, 8(12), 1175.
- Kloppenburg, J., J. Hendrickson, and G.W. Stevenson. 1996. Coming in to the foodshed. *Agriculture and Human Values*, 13(3), 33–42.
- Peters, C.J., N.L. Bills, A.J. Lembo, J.L. Wilkins, and G.W. Fick. 2012. Mapping potential foodsheds in New York State by food group: An approach for prioritizing which foods to grow locally. *Renewable Agriculture and Food Systems*, 27(02), 125–37.
- Seto, K.C., A. Reenberg, C.G. Boone, M. Fragkias, D. Haase, T. Langanke, P. Marcotullio, D.K. Munroe, B. Olah, and D. Simon. 2012. Urban land teleconnections and sustainability. *Proceedings of the National Academy of Sciences*, 109(20), 7687–92.
- Zasada, I., U. Schmutz, D. Wascher, M. Kneafsey, S. Corsi, C. Mazzocchi, F. Monaco, P. Boyce, A. Doernberg, G. Sali, and A. Piorr. 2017. Food beyond the city – Analysing foodsheds and self-sufficiency for different food system scenarios in European metropolitan regions. *City, Culture and Society*.