



10th IALE World Congress
July 1–5, 2019; Milano, Italy

Symposium 11:

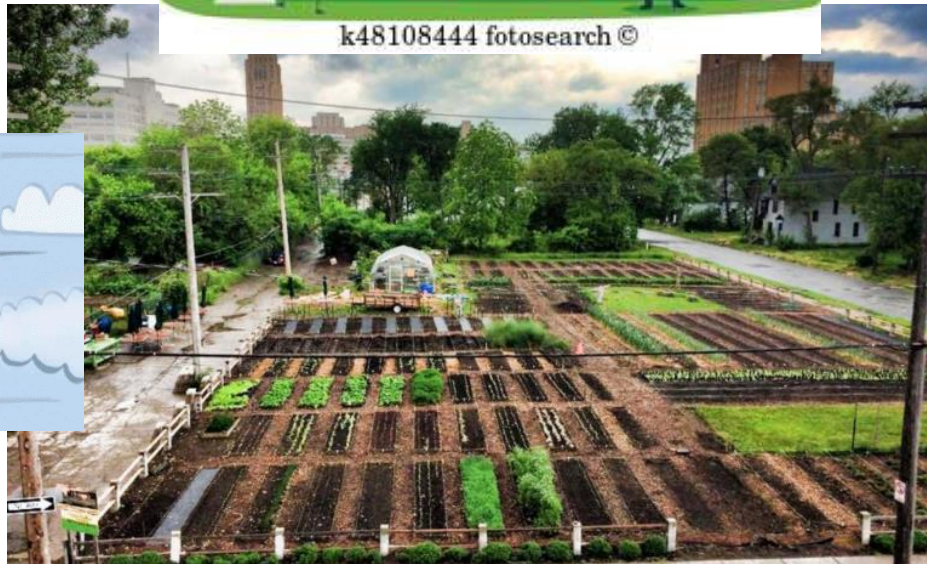
From urban agriculture to edible cities – challenges and chances for approaching sustainable urban socio-ecological systems

Martina Artmann, Jan Vávra, Marius Rommel

Urban agriculture – a nature-based solution?



<https://bigpictureeducation.com>



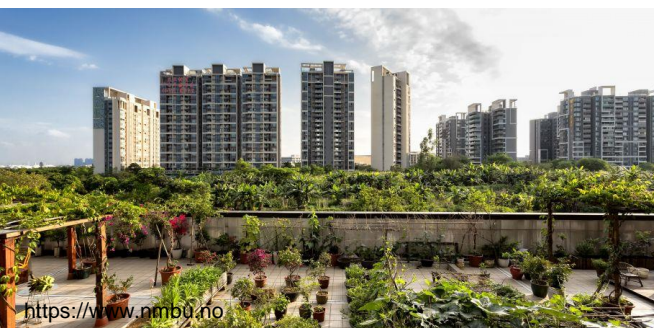
<https://foodtank.com>



<http://www.acclaimclipart.com>

From urban agriculture to edible cities

(Peri-)urban agriculture includes the production, delivery, processing and marketing of plant- or animal-based agricultural products within and around cities (Food and Agriculture Organization of the United Nations, 2011)



From urban agriculture to edible cities

Brownfields



Vertical gardens



Allotments



Peri-urban farming



Rooftop gardens



Home gardens



Community gardens

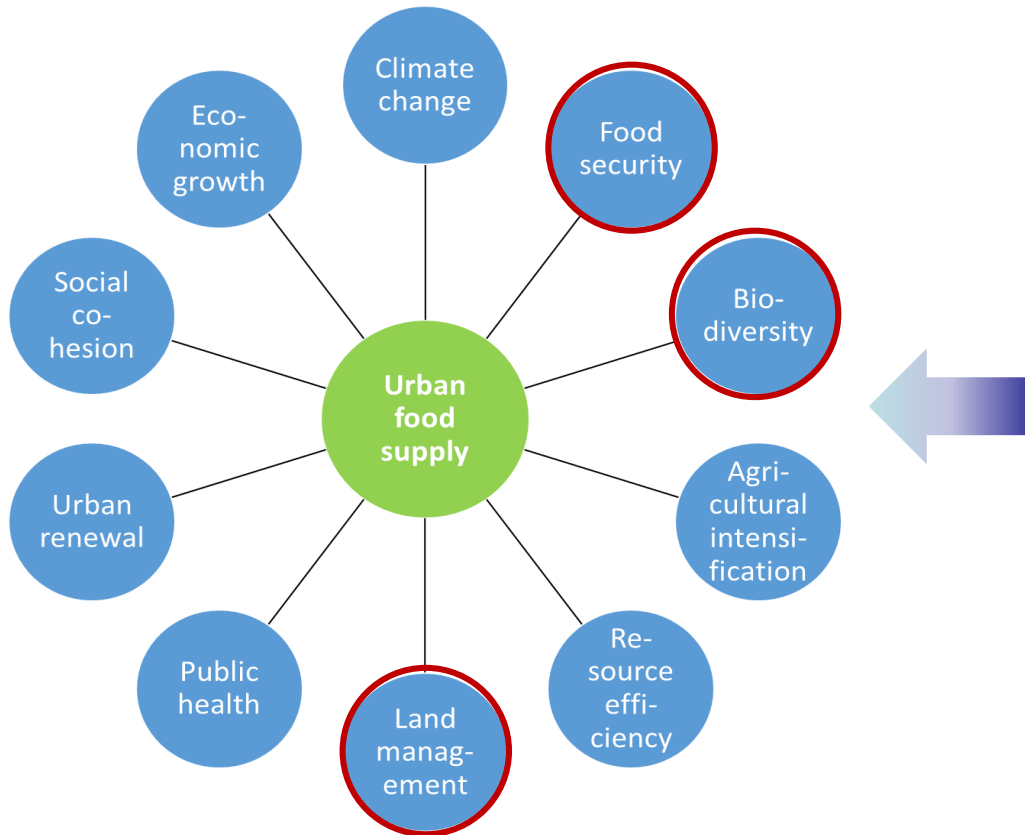


Aquaponic



Urban agriculture – a nature-based solution?

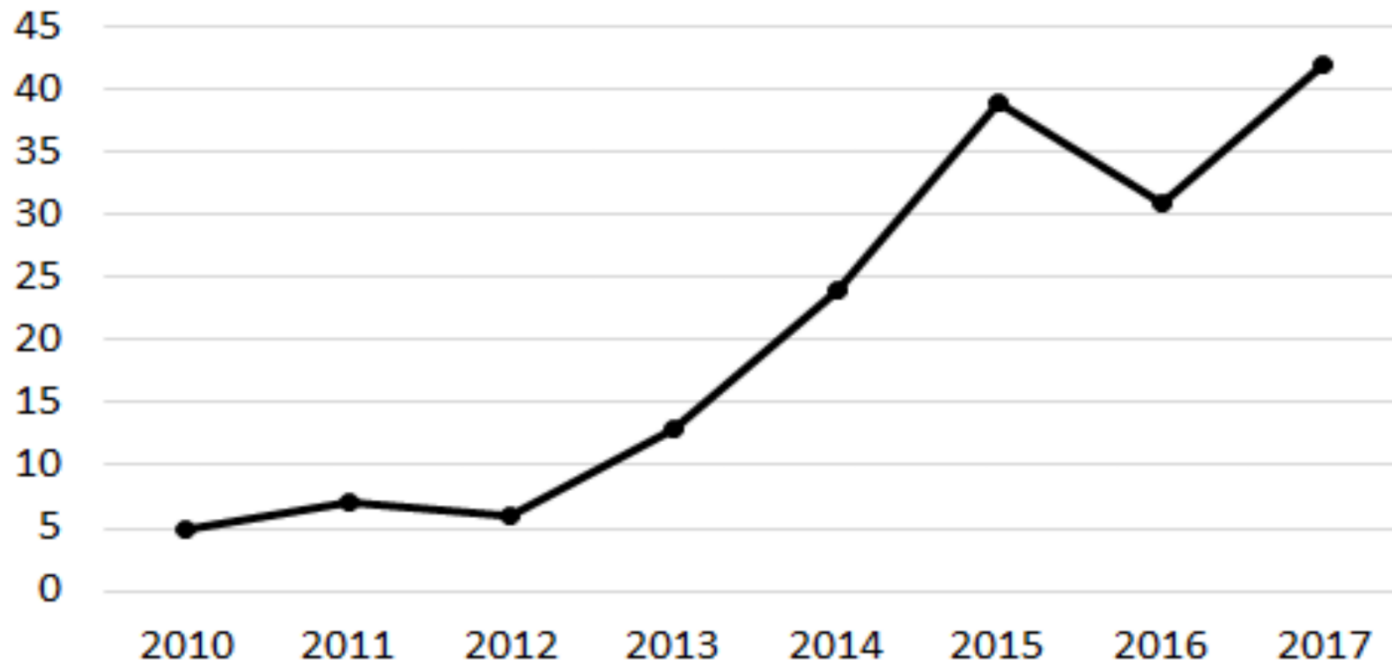
Systematic literature review of 166 papers
interlinking challenges of urbanization with urban agriculture



Identification of relevant
papers in Scopus and
ScienceDirect

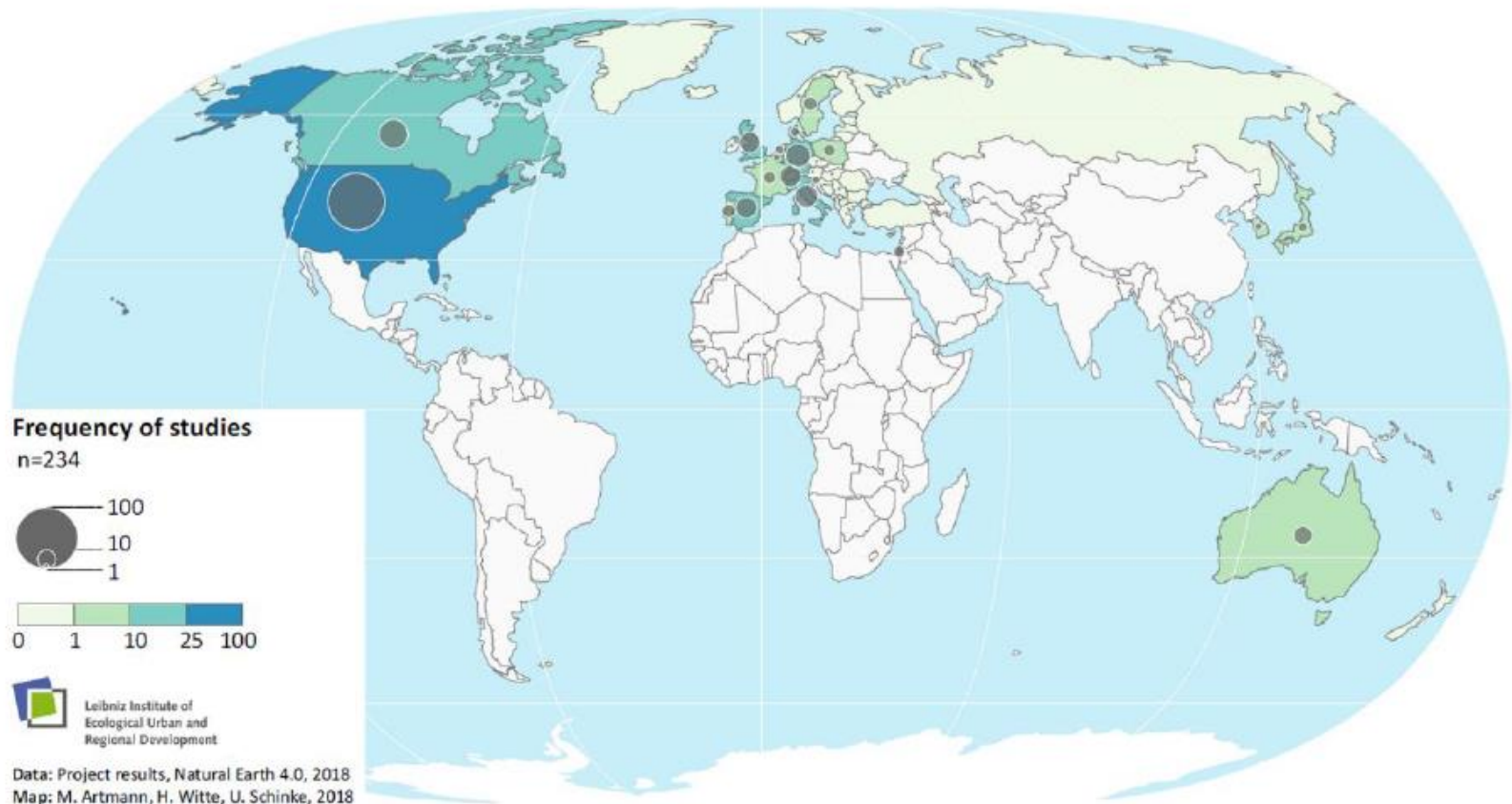
(e.g., tak({urban} OR {peri-urban} OR {city} OR {municipal})
AND tak({agriculture} OR
{gardening} OR {farming} OR
{cultivation} OR {foraging} OR
{forest farming})) AND
tak({biodiversity} OR {ecosystem
services}))

Increasing importance of urban agriculture – number of papers published between 2010-2017



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State of the art: more comparative case studies in terms of spatial distribution



The need for comparative case studies

Spatial perspective

Vertical farming



Actor perspective

Community gardens



Organizational perspective

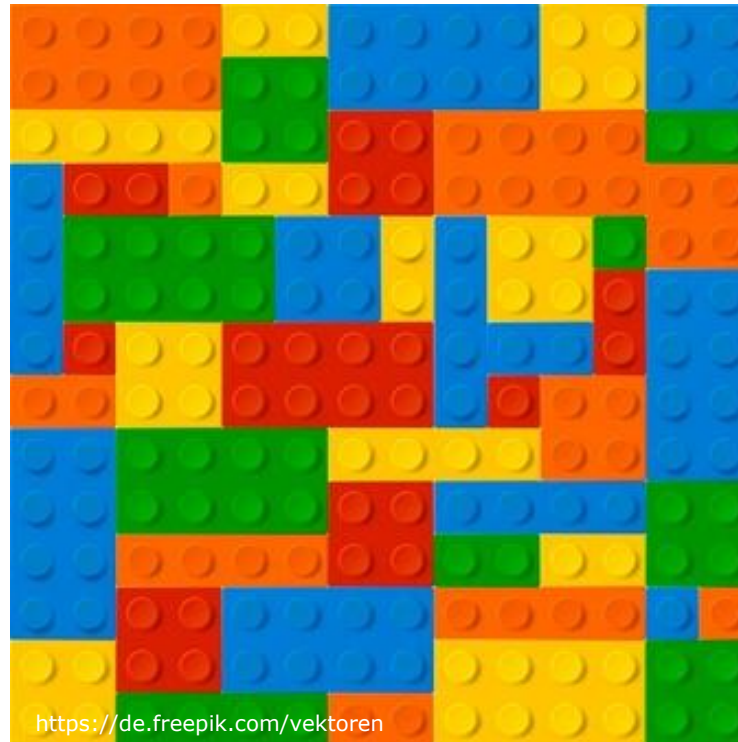
Prosumer production



- Impacts?
- Implementation?
- Ecosystem-based vs. technical types?

Upscaling urban agriculture: the need for comparative case studies

A modular urban agriculture approach



The IALE Symposium 11

02 July 2019, 10:30 – 15:30

Urban agriculture types: edible city, home gardens, microfarms, urban agriculture parks, abandoned agricultural land, experience farms, community gardens

Urban agriculture dimensions: cultural ecosystems services, regulating ecosystem services, food supply, climate change, spatial analysis, economy

Countries: case studies from China, Czech Republic, France, Germany, Italy, Japan, Romania

Symposium outcomes and further activities

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A Systemic Perspective on Urban Food Supply: Assessing Different Types of Urban Agriculture

Deadline for manuscript submissions:
28 February 2020

Symposium outcomes and further activities



Session B10b: Urban agriculture and ecosystem services (K. Specht, M. Artmann, E. Sanyé-Mengual)



Working group on urban agriculture

Thank you for your attention



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Review

The Role of Urban Agriculture as a Nature-Based Solution: A Review for Developing a Systemic Assessment Framework

Martina Artmann * and Katharina Sartison