

Urban Agriculture and the Planning of City Regions

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Oct. 10., 2019

Urban Agriculture and Innovation

My background and link to UA

UA definition and typology

UA can be innovative: stressing edge / urban opportunities

UA can innovate: green infrastructure / agriculture (?)

My background and link to UA

Phd,
University of Stuttgart



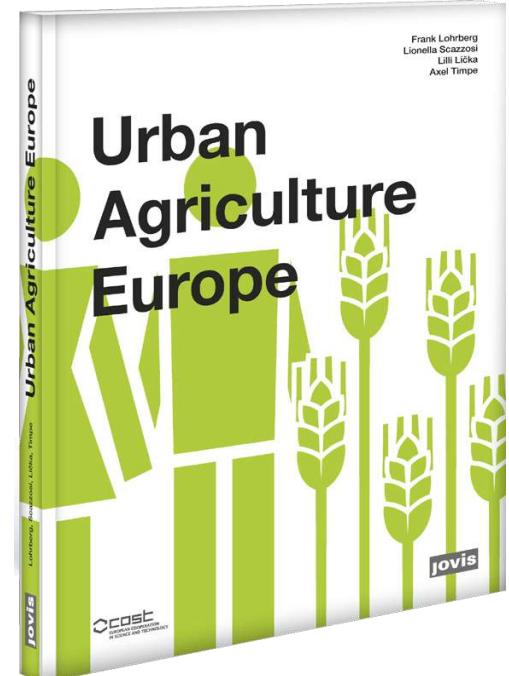
Frank Lohrberg

lohrberg
stadtlandschaftsarchitektur,
Stuttgart



Landschaftspark Belvedere: Four lookouts
out of steel mark the paths

Chair of Landscape
Architecture,
RWTH Aachen University



LOHRBERG, F., LICKA, L., SCAZZOSI, L.,
TIMPE, A., (Hg.) (2015): Urban Agriculture
Europe. Berlin: Jovis



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COST-Action Urban Agriculture Europe

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COST Action Urban Agriculture Europe

Urban Agriculture (UA) plays a key role in two global challenges: urbanization and food security. It can provide an important contribution to sustainable, resilient urban development and the creation and maintenance of multifunctional urban landscapes. In the globally emerging research field of UA, a European approach to the subject needs to be created. It has to integrate the unique European context regarding its urban and landscape pattern, the important role of the Common Agriculture Policy (CAP) and the needs of the European society. The COST-Action Urban Agriculture Europe (UAE) will initiate the definition of this European approach on the basis of existing research projects and reference regions in the partner countries.

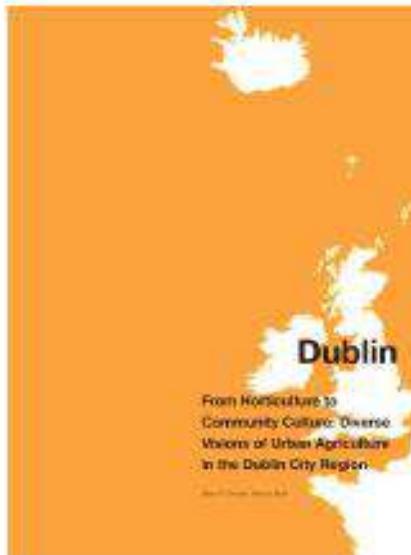
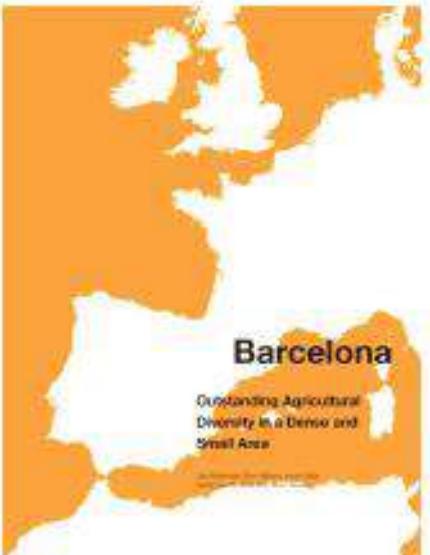


The outcomes of the Action will help to focus future research on UA, modify the CAP and stimulate private and public activities in UA projects and planning. The Action will use an innovative approach crossing bottom-up and top-down methods, using the method of research by design and creating interfaces between the three methods. By working in close cooperation with regional stakeholders from the domains of urban development and agriculture the Action contributes to sustainable, resilient territorial development in Europe and aims for



Urban Agriculture Europe

Hans Lohrberg
Lohrberg stadtlandschaftsarchitektur
Life & Time
Architectural Studies



Milan

An Agricultural Metropolis
Top-down and Bottom-up Initiatives

Ruhr Metropolis

A Polycentric Hotspot of Urban Agriculture

Sofia

A City with Urban Agriculture Potential

Warsaw

Challenges for Urban Agriculture

Frank Lohrberg
Loretta Szczotai
Ulli Lötke
Axel Tropf

Urban Agriculture Europe



PHENOMENON

GOVERNANCE

BUSINESS

SPACE

METABOLISM

AGENDA

UA definition and typology

Urban Agriculture spans all actors, communities, activities, places, and economies that focus on biological production in a spatial context, which—according to local standards—is categorized as “urban”.

Urban Agriculture takes place in intra- and periurban areas.

One of its key characteristics is that it is more deeply integrated in the urban system compared to other forms of agriculture.

Urban Agriculture is structurally embedded in the urban fabric; it is integrated into the social and cultural life, the economics, and the metabolism of the city.

Urban Agriculture takes place in intra- and periurban areas.



Abb. 43: COST Action Urban Agriculture Europe, Frank Lohrberg,
Lehrstuhl Landschaftsarchitektur, RWTH Aachen



Abb. 42: COST Action Urban Agriculture Europe, Frank Lohrberg,
Lehrstuhl Landschaftsarchitektur, RWTH Aachen

Gardening Level

Urban Food Gardening

Individual Production



Allotment
Gardens



Squatter
Gardens



Family
Gardens

Collective Production



Educational
Gardens



Community
Gardens



Therapeutical
Gardens



Allotment
Gardens

Farming Level

Urban Farming

On-site Experience



Leisure
Farms



Social
Farms



Cultural
Heritage
Farms



Educational
Farms



Therapeutical
Farms



Experimental
Farms

Flows



Local Food+
Farms



Environmental
Farms



One of its key characteristics is that it is more deeply integrated in the urban system compared to other forms of agriculture. Urban Agriculture is structurally embedded in the urban fabric; it is integrated into the social and cultural life, the economics, and the metabolism of the city.



UA can be innovative

Urban Agriculture is a breeding place for new forms of agriculture because of the “stressing edge”



Diversification and specification of production because of limited land resources

UA can be innovative

Urban Agriculture is a breeding place for new forms of agriculture because of the “stressing edge”



Diversification and specification of production because of limited land resources

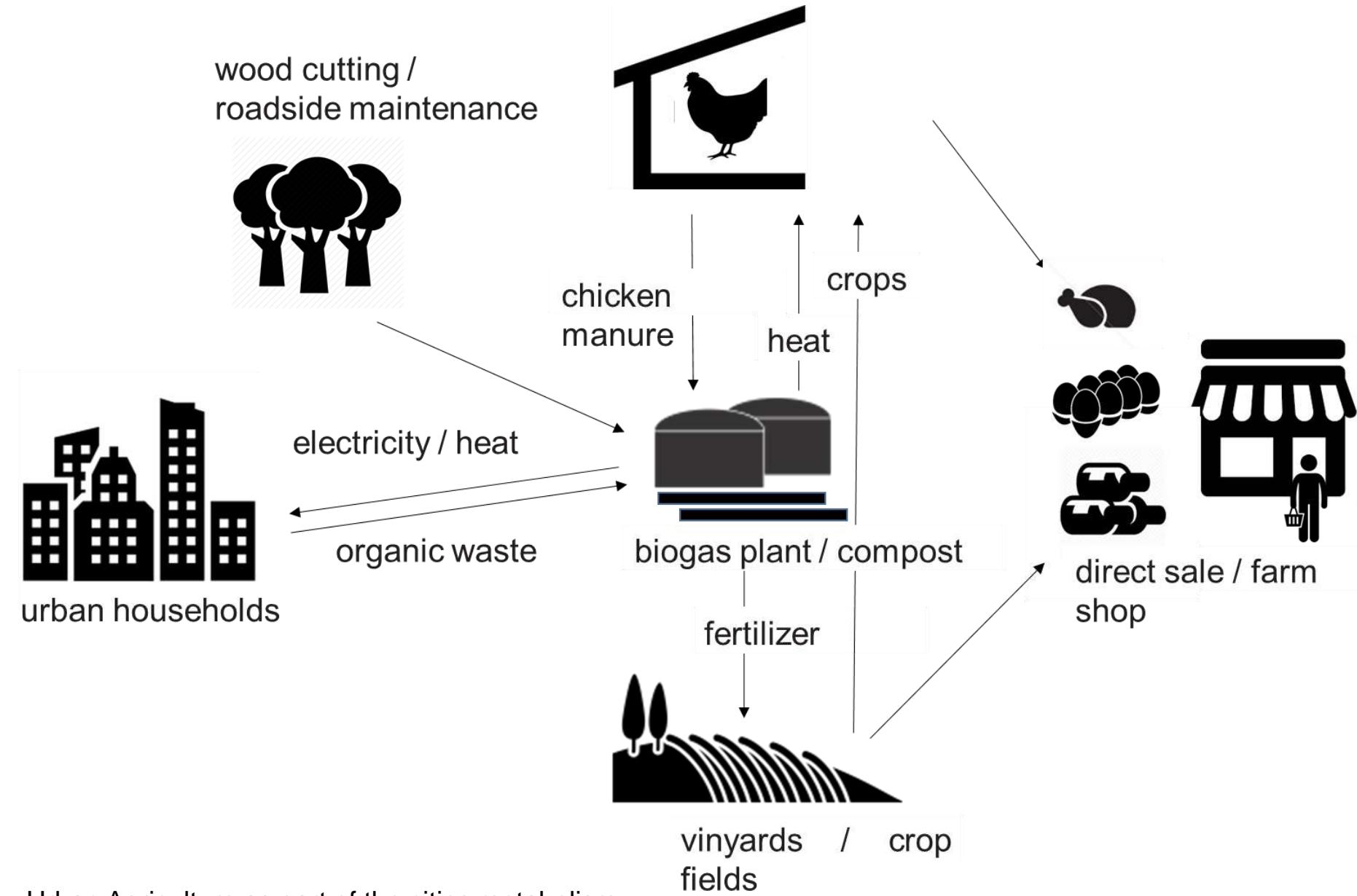
Urban Agriculture is a breeding place for new forms of agriculture because of “urban opportunities”



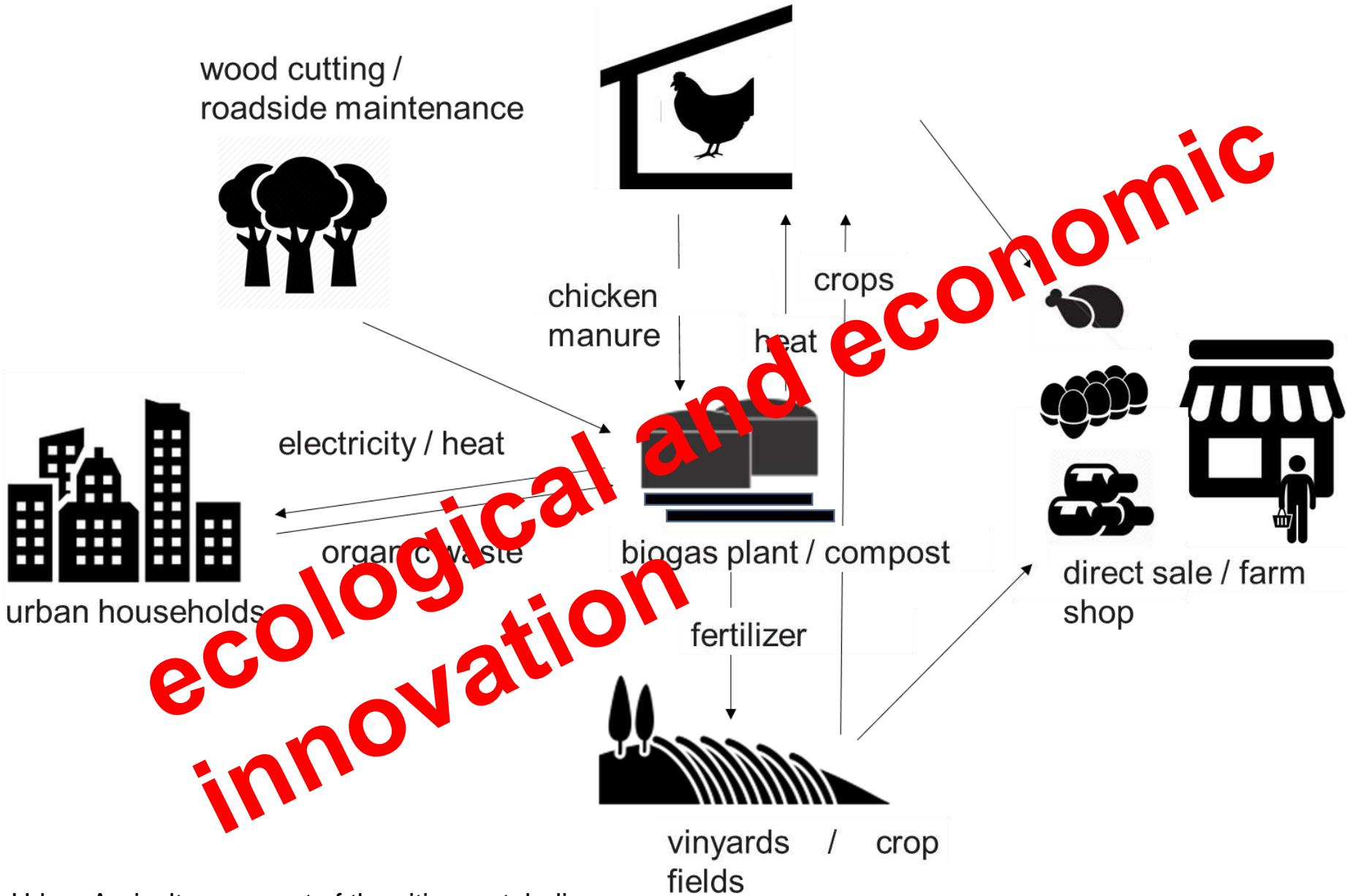
Diversification and specification of production because of urban opprtunities



Newcomers in agriculture



Urban Agriculture as part of the cities metabolism



Urban Agriculture as part of the cities metabolism



Urban Farming Evolution

Tradition



Rich tradition (at least some decades) in urban farming more or less all over the country, consolidated phenomenon, diverse focus



Notable tradition, but not covering most urban areas or less manifested than 1



No tradition or tradition has been cut since decades



No data (because not part of COST or no sufficient data collected)

Innovation

* Aspect of innovation

Source: Generalisation from COST Action Urban Agriculture Europe case studies and reports.
(See figure XX)

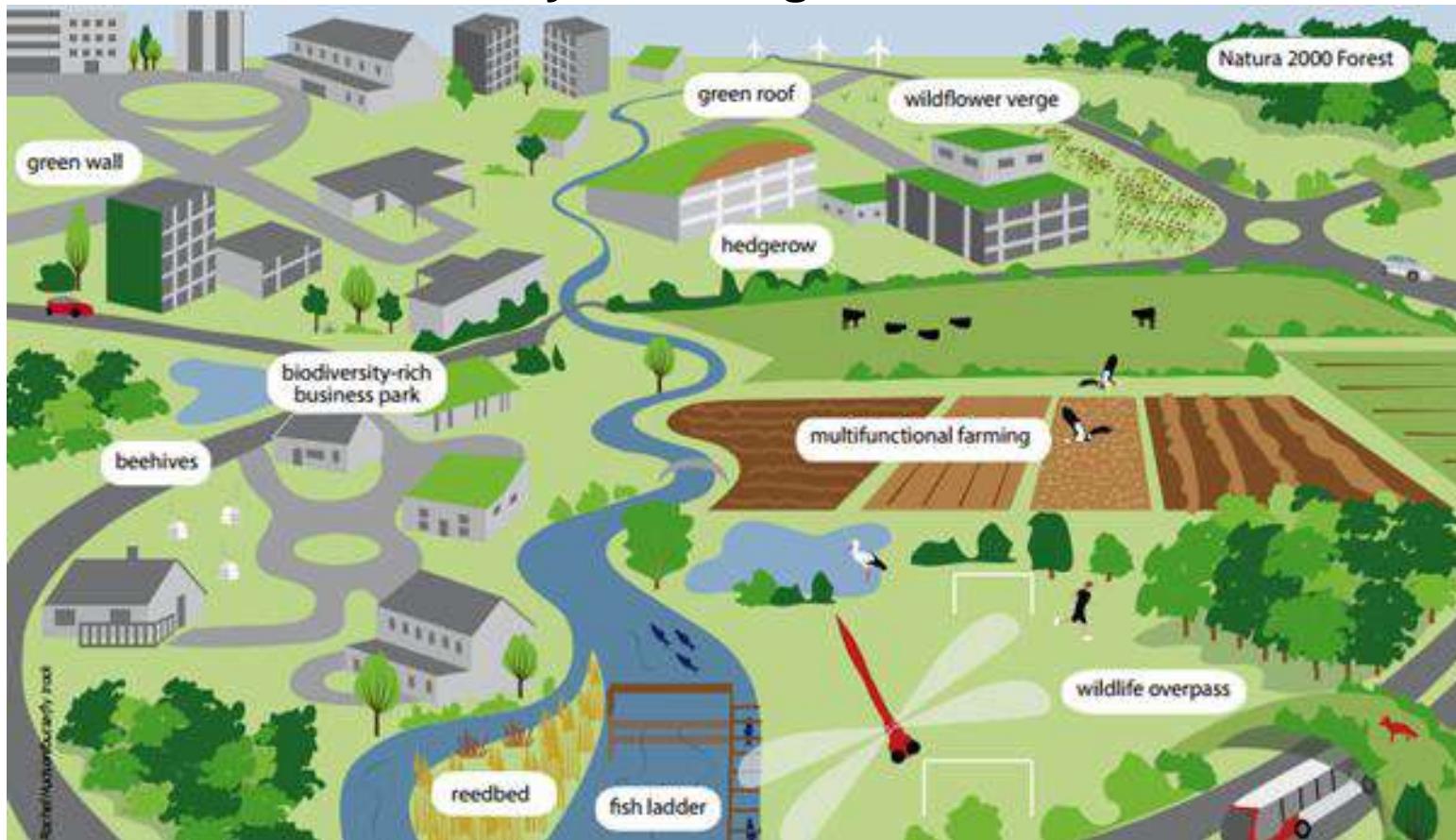
EFUA – EUROPEAN FORUM ON URBAN AGRICULTURE

Commissioner	European Commission, Horizon 2020-Program Coordination and Support Action
Coordination	Chair of Landscape Architecture, RWTH Aachen University
Volume	2.040.000,00 €
Duration	11/2020 - 10/2024
Partners	7 European Universities, City of Rome RUAf Global Partnership MAMMUT film



UA can innovate city planning

Green Infrastructure by Urban Agriculture



<http://biodiversity.europa.eu/topics/green-infrastructure/clipboard02.bmp>

Community Co-Production Parc des Lilas bei Paris: Classical Park...



Foto: Axel Timpe

Park and Co-produktion Parc des Lilas, Paris



Produktive Parks entwerfen : Geschichte und aktuelle Praxis biologischer Produktion in europäischen Parks, 1 Online-Ressource (611 Seiten) : Illustrationen, Diagramme, Karten, 2017

Plan: Axel Timpe
Luftbildgrundlage: IGN-F

Co-Production Parc des Lilas, Paris: ...agriculture embedded in the park ...



Foto: Axel Timpe

Co-Production Parc des Lilas, Paris: ...agriculture as park ...



Foto: Axel Timpe

Co-Production Parc des Lilas, Paris: ...allotment gardens...



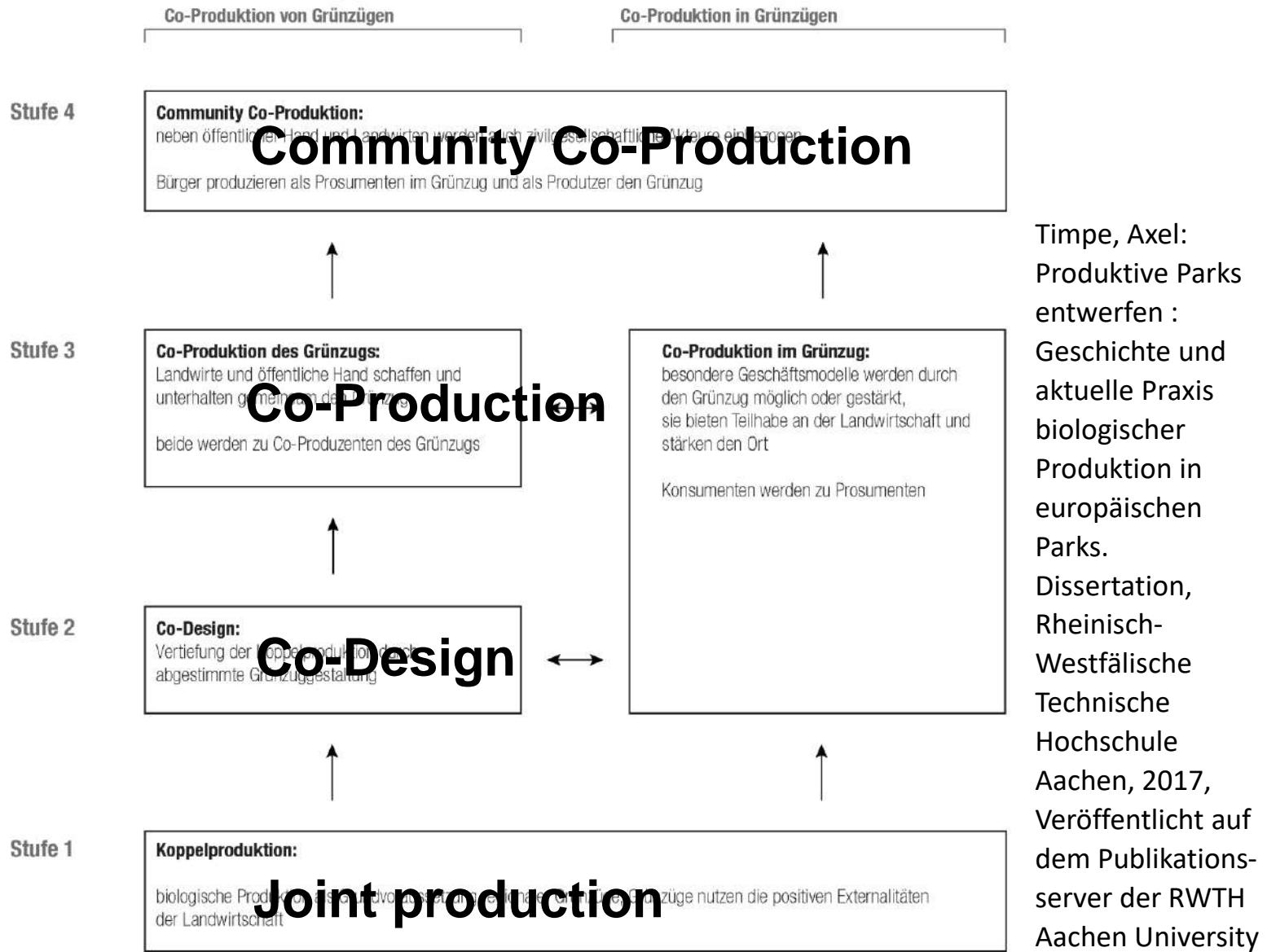
Foto: Axel Timpe

Co-Production Parc des Lilas, Paris: ...new forms of urban food gardening...



Foto: Axel Timpe

The ladder of co-production





Belvedere Park as missing link







Agricultural Park Belvedere 1st Prize, 2007



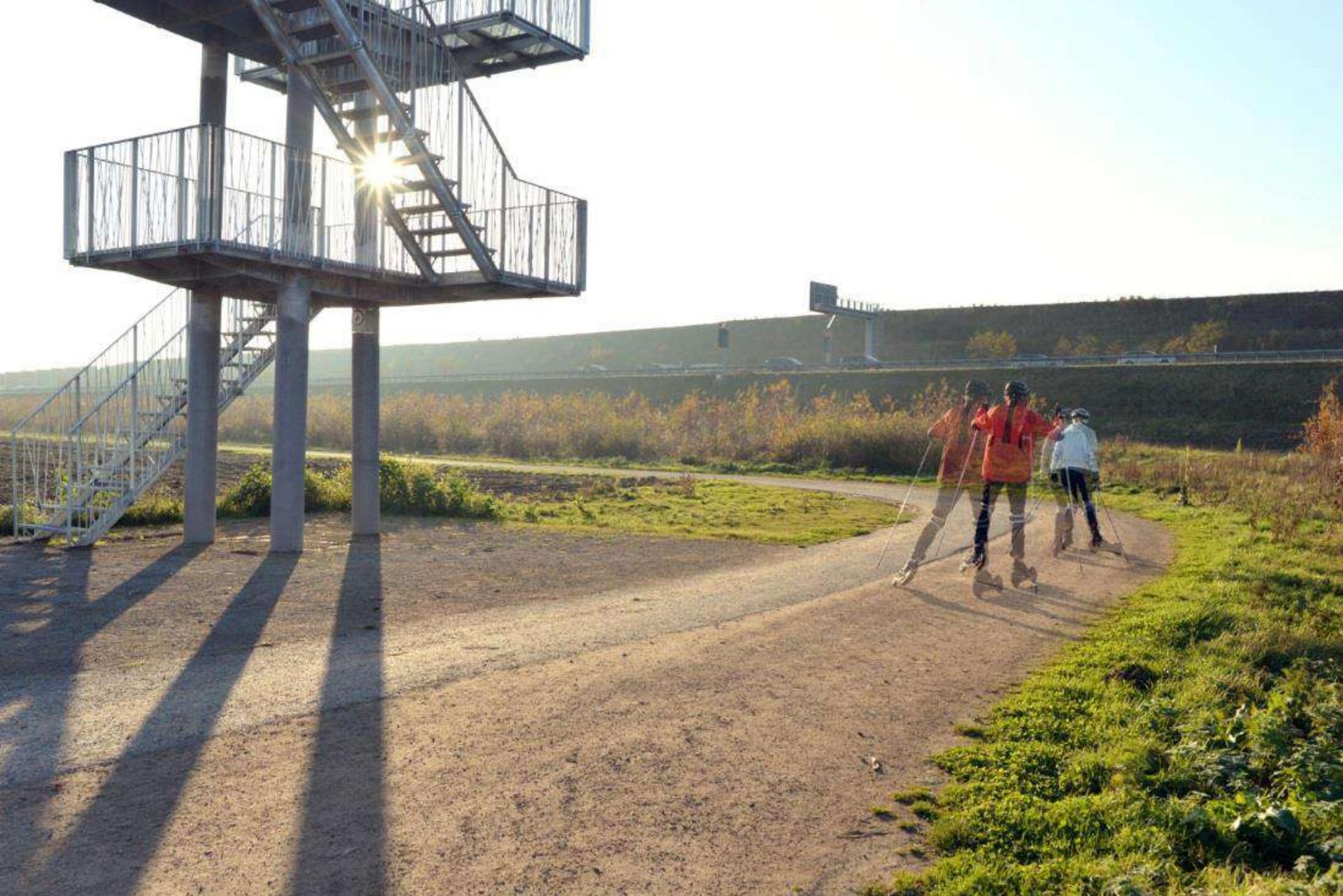
Historic farmstead enriched by a botanic garden showing traditional crop plants



A path designed for both, urban dwellers and agricultural vehicles now surrounds the area.



Four lookouts out of steel mark the paths.



Four lookouts out of steel mark the paths.



They allow the visitors to observe the scenery – harvester and highway, dogs and doves, skater and sugar beets – from various angles



And put agriculture itself .on stage.

A photograph showing three people from behind, leaning against a metal railing. They are looking out over a vast agricultural field where a combine harvester is harvesting crops. In the distance, a city skyline with several tall buildings is visible under a blue sky with wispy clouds.

spatial innovation

And put agriculture itself .on stage.



Co-produced greenways as sustainable infrastructure of municipalities

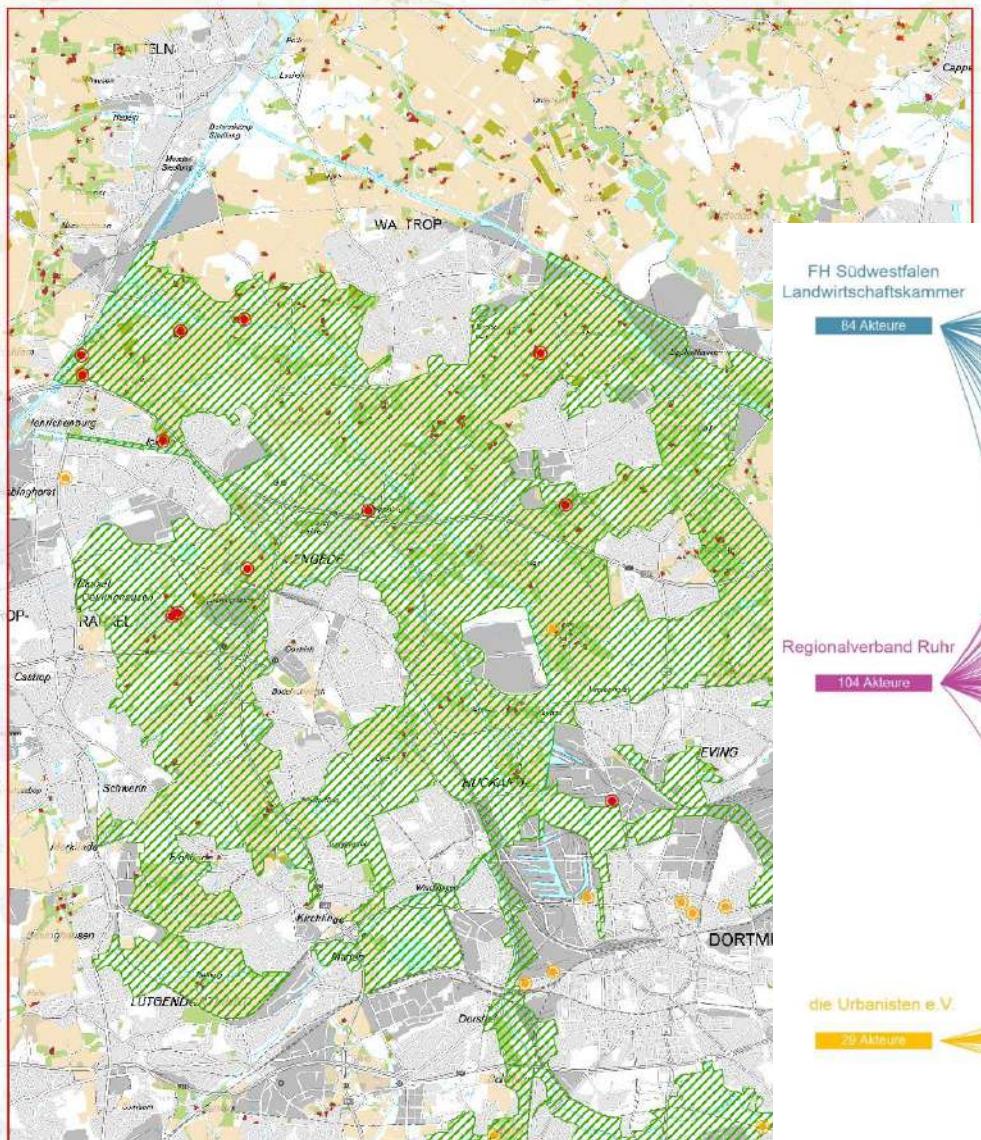
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Volume 800.000,00 €

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Partners
Regional Planning Association Ruhr
Die Urbanisten, Dortmund
University of Applied Science Südwestfalen, Department Agriculture



FH Südwestfalen
Landwirtschaftskammer

84 Akteure

Regionalverband Ruhr

104 Akteure

die Urbanisten e.V.

29 Akteure

Ideeaufla

7 Akteu

Zufallsfunk

18 Akteu

Abgrenzung Grünzug F © Regionalverband Ruhr, Essen



CoProGrün

Feasibility Studies in cooperation with farmers and civil society



CoProGrün Machbarkeitsstudie
**Route der Agrarkultur für bessere
Stadt-Land-Beziehungen**

Am Beispiel des Grüngügs F „Östliches Emderland“ im Bremer Landeschaftspark
Eduard Lüscher - Regionalverband Ruit



CoProGrün Machbarkeitsstudie
Regionale Lebensmittel Online Vermarkten

Am Beispiel der Marktschwestern Dortmund im Grüngüg F „Östliches Emder Landeschaftspark“
Mit Poltop - Fachhochschule Südwestfalen



CoProGrün Machbarkeitsstudie
**Landschaftspflege durch Beweidung und
Aufbau eines Mietgartens**

Am Beispiel des Betriebs Döthling im Grüngüg F „Östliches Emder Landeschaftspark“
Bernd Pöting - Fachhochschule Südwestfalen/Landesanstalt für Naturwissenschaften NRW



CoProGrün Machbarkeitsstudie
**Konzept eines Hofcafés mit Hofladen und
Verkaufautomaten**

Am Beispiel eines Hofs im Grüngüg F „Östliches Emder Landeschaftspark“
Milo Poltop - Fachhochschule Südwestfalen
Kathrin Christen, Luisa Prokop - RWTH Aachen University



CoProGrün Machbarkeitsstudie
**Reaktivierung des Gemeinschaftsgartens in
Deininghausen**

Modellprojekt im Grüngüg F „Östliches Emderland“ im Bremer Landeschaftspark
Carola Tolosch, David Kory - Die Umwelt e.V.



CoProGrün Machbarkeitsstudie
**Bienenweiden durch bürgерliches
Engagement**

Am Beispiel des Grüngügs F „Östliches Emderland“ im Bremer Landeschaftspark
Ulrich Häpke - Regionalverband Ruit



CoProGrün Machbarkeitsstudie
**Initierung eines Gemeinschaftsgartens im
Sozialen Zentrum Dortmund**

Im Grüngüg F „Östliches Emderland“ des Bremer Landeschaftspark
Carola Tolosch, David Kory - Die Umwelt e.V.



CoProGrün Machbarkeitsstudie
**Wahrnehmung und Nutzung von
Streuobstwiesen steigern**

Am Beispiel des Grüngügs F „Östliches Emderland“ im Bremer Landeschaftspark
Ulrich Häpke, Dennis Kerpen - Regionalverband Ruit



CoProGrün Machbarkeitsstudie
**Aufbau eines Gemeinschaftsgartens in der
Viktoriaiedlung Lünen**

Aufwertung von Abstandslagen in Wohnungsbauten
Carola Tolosch, David Kory - Die Umwelt e.V.



CoProGrün Machbarkeitsstudie
Von Pilz zu Pilz
Nutzung von Bräuerresten im Grüngüg F für die Pilzzucht

Milo Poltop - Fachhochschule Südwestfalen



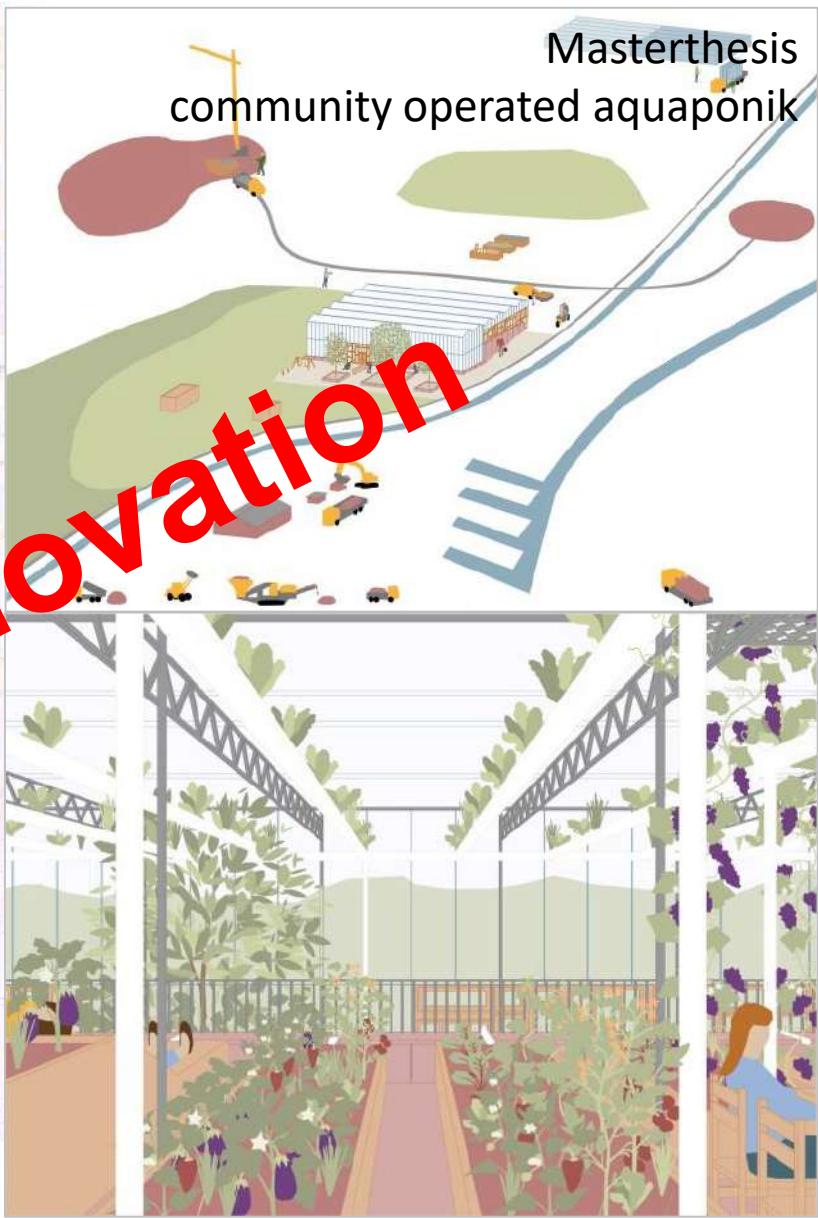
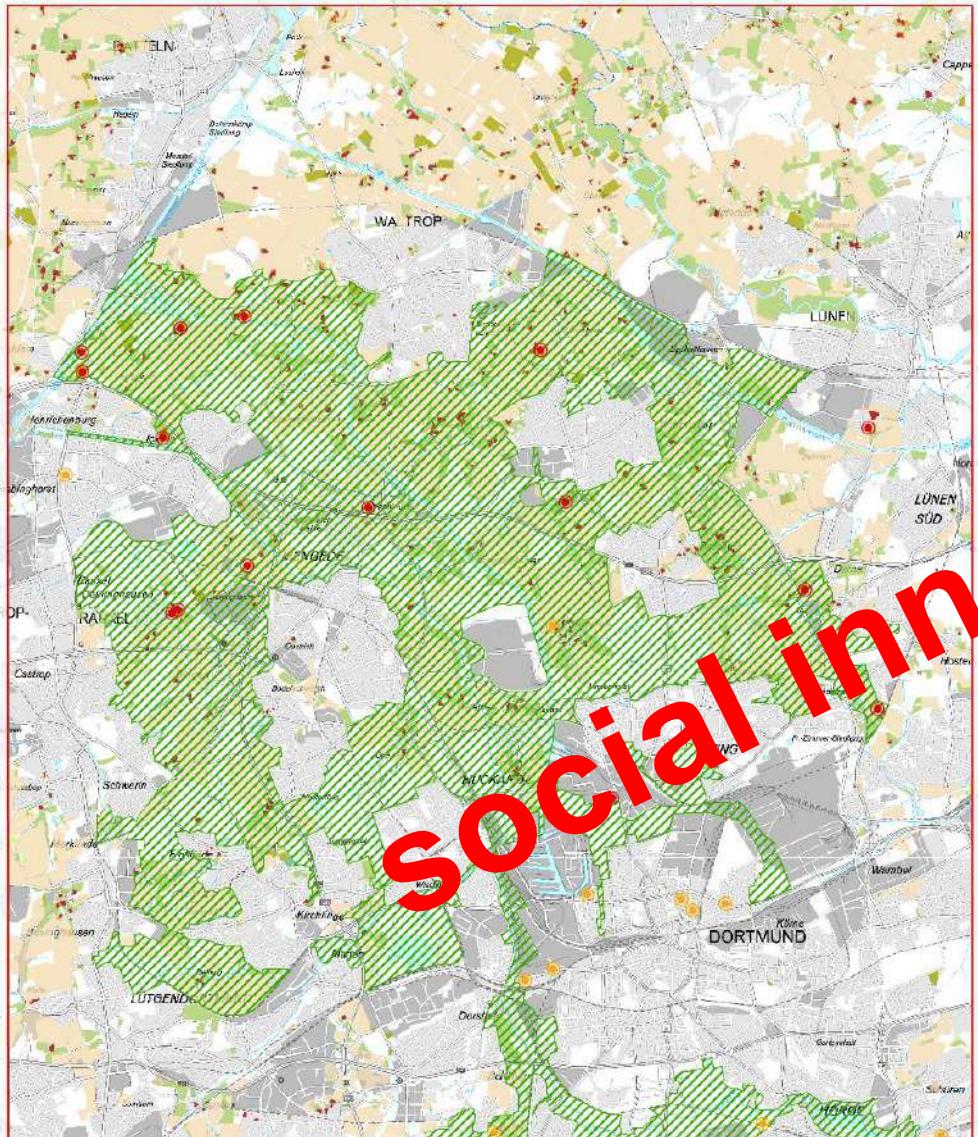


Abb.: Luisa Ropelato – Master Thesis Arbeit, LA 2018