

Bachelor Urban Planning & Master Advanced Architecture

Designing sustainable buildings & cities



Prof. Dr.-Ing. Jan Dieterle

Landscape Architect

Professor of Sustainable Open Space and Urban Design Programme

Director Urban Planning (B.Eng.)

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Prof. Dr.-Ing. Wolfgang Jung

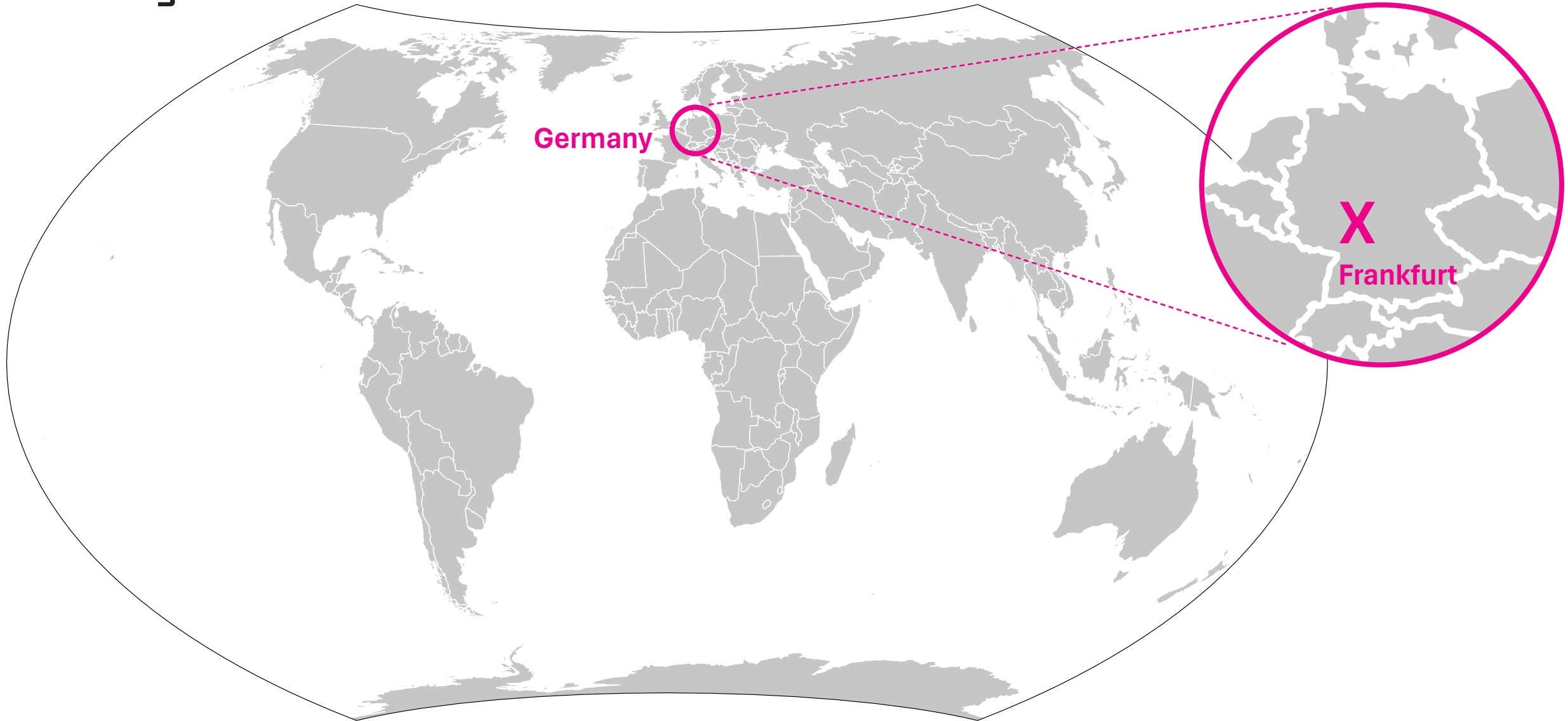
Architect

Professor of Architectural History and Architectural Theory, Conservation

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Frankfurt University of Applied Sciences

Germany



More than 15,000 students

from more than 100 nations

Four faculties

72 degree courses

**310 lecturers, 650 employees, 63 institutes,
scientific and research units**

Approximately 200 partner universities

in 51 countries on six continents

**Founding member of the consortium of
institutions of higher education in European
metropolitan regions**

(„U!REKA“)

Strong research foci

Care, health and diversity; digitalization and information-
/ communication technologies; mobility and logistics

FUAS

The River Main and the European Central Bank



A european City, but diverse building typologies and urban patterns



Diverse Parks in the City & Cultural Landscapes nearby



Our interdisciplinary faculties

Faculty 1

Architecture
Civil Engineering, Geomatics

2.700 Students / 67 Professors
17 Programmes

Faculty 2

Computer Science
and Engineering

5.800 Students / 76 Professors
20 Programmes

Faculty 3

Business and Law

3.200 Students / 67 Professors
18 Programmes

Faculty 4

Social Work and Health

3.600 Students / 80 Professors
16 Programmes

3 Teaching Units

- **Architecture**
- Civil Engineering
- Geomatics

Where to study Urban Planning & Advanced Architecture

Faculty 1 Architecture Civil Engineering Geomatics

Teaching Unit Architecture

Bachelor

Architecture
(B.A.)

Urban Plannning
(B.Eng.)

Teaching Unit Civil Engineering

*Environment
& Infrastructure (B.Eng.)*

Master

Sustainable Structures
(M.Eng.)

Inclusive Design
(M.Sc.)

Urban Agglomerations
(M.Sc.) (engl.)

**Environmental Ma-
nagement and Urban
Planning in Metrop.
Areas (UMSB) (M.Eng.)**

Sustainable Mobility
(M.Eng.)

***Infrastructure - Water
and Transport(M.Eng.)***

**Advanced
Architecture** (M.Sc.)
(engl.)

Architecture
(M.Sc.)

AdvArch

4. Semester 30 ECTS	Master Thesis with Colloquium				
3. Semester 30 ECTS	Specialization Project		Existing Contexts - Design and Construction	Compulsory elective module 4 from the modules WM 1E to WM 7E	Compulsory elective module 5 from the modules WM 1E to WM 7E
2. Semester 30 ECTS	Lecture Series Construction	International Design Project	New Buildings - Design and Construction	Compulsory elective module 2 from the modules WM 1E to WM 7E	Compulsory elective module 3 from the modules WM 1E to WM 7E
1. Semester 30 ECTS	Lecture Series Design	Impromptu Designs	Urban Contexts - Design and Construction	International Design and Building Project	Compulsory elective module 1 from the modules WM 1E to WM 7E

4. Semester 30 ECTS	Master Thesis with Colloquium				
3. Semester 30 ECTS	Specialization Project		Existing Contexts - Design and Construction	Compulsory elective module 4 from the modules WM 1E to WM 7E	Compulsory elective module 5 from the modules WM 1E to WM 7E
2. Semester 30 ECTS	Lecture Series Construction	International Design Project	New Buildings - Design and Construction	Compulsory elective module 2 from the modules WM 1E to WM 7E	Compulsory elective module 3 from the modules WM 1E to WM 7E
1. Semester 30 ECTS	Lecture Series Design	Impromptu Designs	Urban Contexts - Design and Construction	International Design and Building Project	Compulsory elective module 1 from the modules WM 1E to WM 7E

Semester fee: 337,18 €
(new students: 347,18 €)

including public transport
regional and city in Germany

Winter semester 2024/2025
Enrolled students need to pay € 337,18 to re-register,
New students need to pay € 347,18

Semester fee for winter semester 2024/25

337.18 Euro	Sum semester fee	in total / semester
176.40 Euro	Contribution to the Deutschlandticket for students (General Students' Committee)	
2.00 Euro	Legal expense insurance (General Students' Committee)	
17.10 Euro	Student contribution to the student parliament (General Students' Committee)	
1.30	Contribution to student elections (General Students' Committee)	
1.00 Euro	Culture ticket (General Students' Committee)	
2.38 Euro	Contribution to the bike rental system DB Call a Bike (General Students' Committee)	
86.50 Euro	Social contribution to Studierendenwerk Frankfurt (Studierendenwerk), of which: 0.50 Euro insurance contribution, 1.00 Euro solidarity contribution, 85.00 Euro contribution for Studierendenwerk	
50.00	Administration fee	

Late fee

After 2nd September 2024 a re-registration is only possible with an additional late fee of 30.00 EUR.

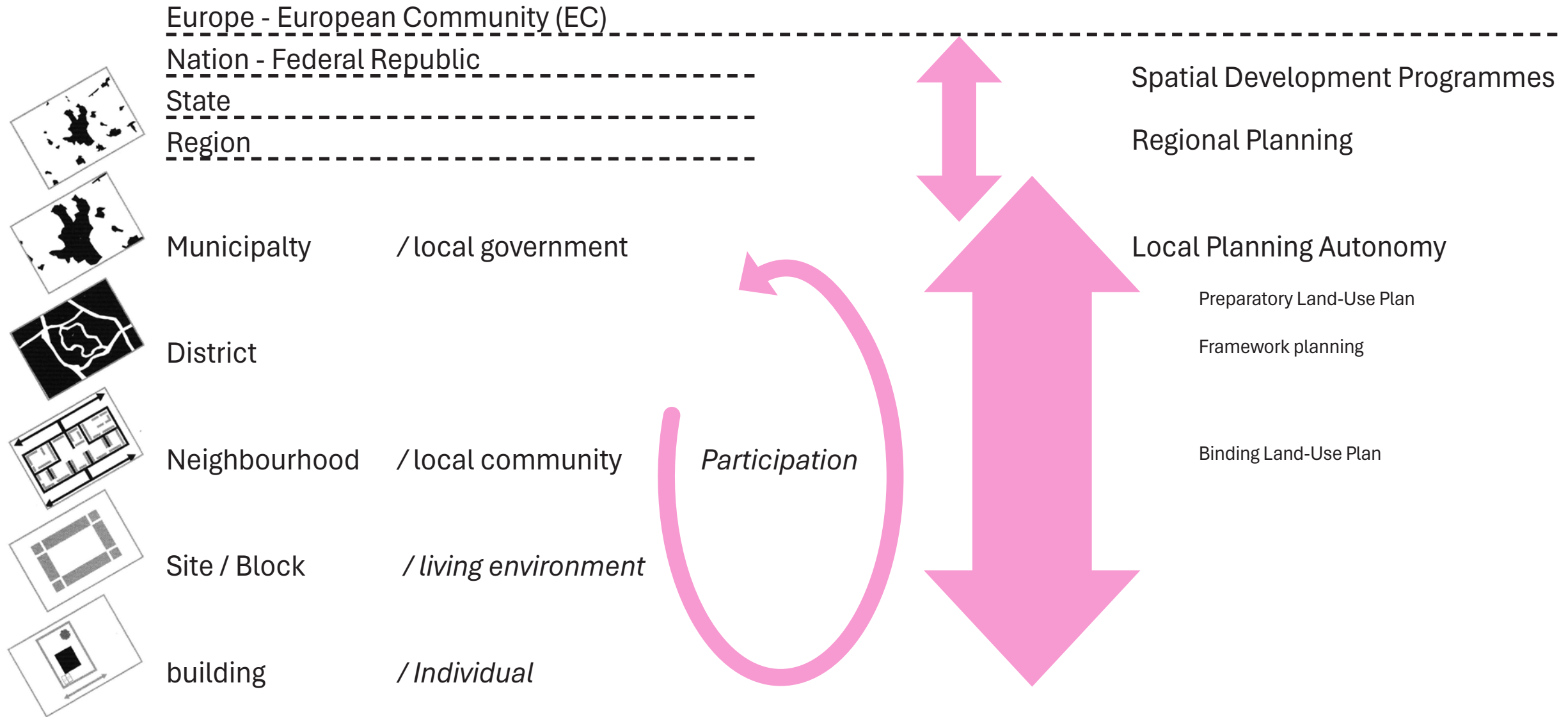
Then, the **total amount of 367.18 EUR** has to be received by the university until **15th September 2024**. Otherwise, students will be exmatriculated.

Study Chip

We charge 10.00 Euro for the issue or re-issue of a student ID Study Chip.

A lump sum of 15.00 Euro is to be charged in the case of loss for a second issue of the card according to the administration cost structure (\$1 Administration cost structure-MWK)

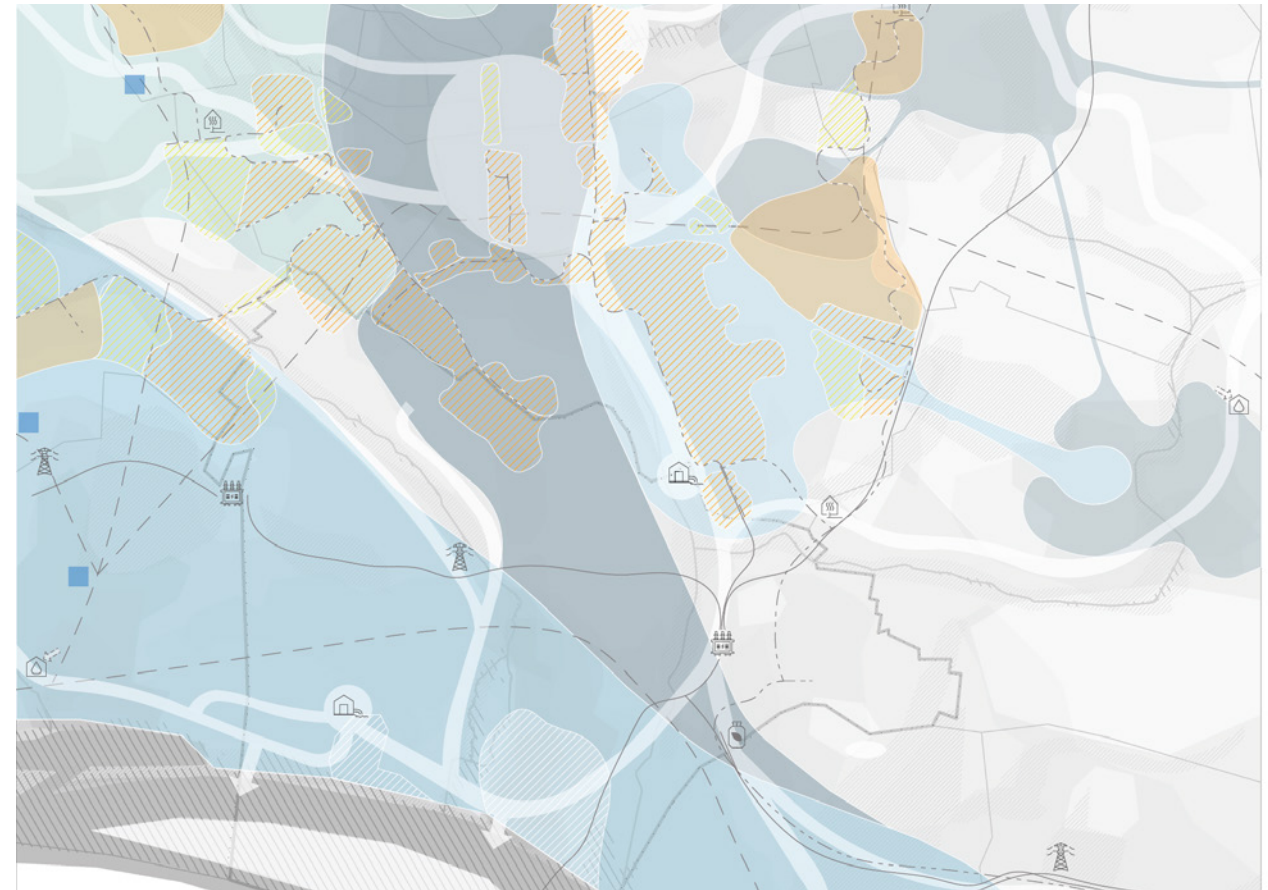
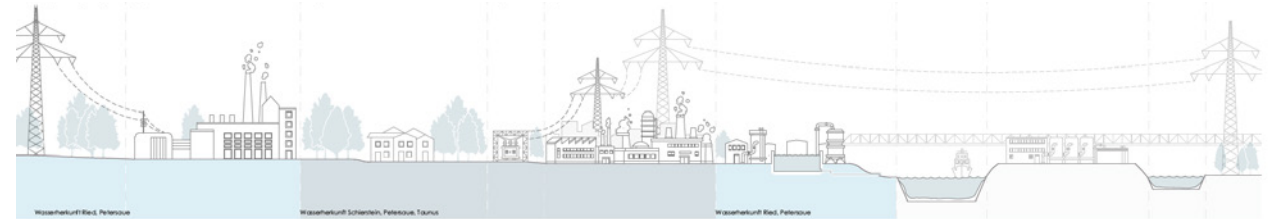
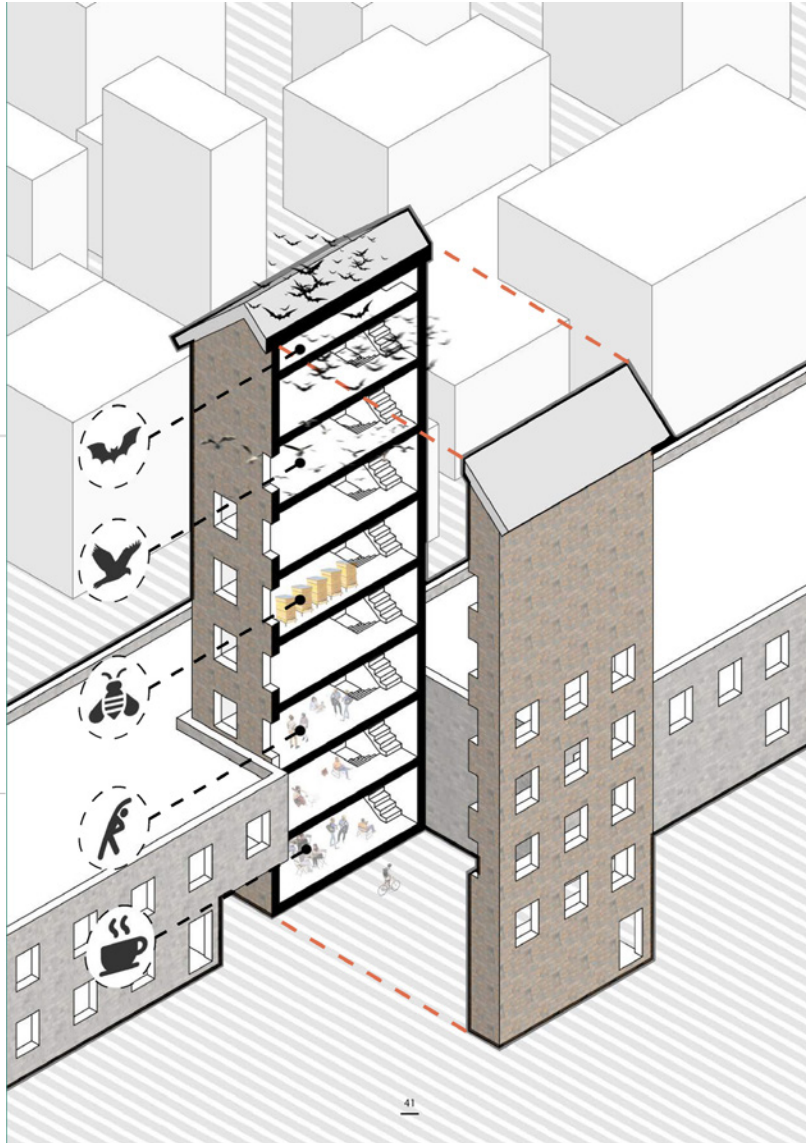
Urban planning: Levels of planning



Modules in English

Semester 6	Bachelor thesis with colloquium 15 CP			Specialisation Urban space & urban fabric 5 CP	Specialisation Urban research 5 CP	Specialisation Theory and history 5 CP	30 CP
Semester 5	Study Project 4 , - City and Region 10 CP		Special Areas of Urban Planning 2 / or other elective 5 CP (possible in Engl.)	Sustainability, ecology and urban climate 5 CP (partly in Engl.)	Spatial planning and regional development 5 CP	Interdisciplinary general studies 5 CP	30 CP
Semester 4	Study Project 3 - International Project 10 CP (possible in Engl.)		Special Areas of Urban Planning 1 / or other elective 5 CP (possible in Engl.)	Networked transport planning 5 CP	Planning methods, participation processes and moderation 5 CP	Urban Economics and Land Readjustmen 5 CP (partly in Engl.)	30 CP
Semester 3	Studienprojekt 2 - Urban Design 10 CP		Theory of the city 5 CP	Housing 5 CP	Urban land-use planning 5 CP	Energy 5 CP	30 CP
Semester 2	Studienprojekt 1 - Neighbourhood, open space, mobility 10 CP		Urban design and Public space 5 CP	Basics of Building theory 5 CP	Introduction to the legal instruments of urban planning 5 CP	Visualisation tools 5 CP	30 CP
Semester 1	Basics of Urban design 5 CP	Basics of Open space & climate 5 CP	Basics of Social sciences 5 CP	Basics of Transport 5 CP	Basics of Urban planning 5 CP	Geodata management 5 CP	30 CP

A unique focus on sustainability: Urban Ecology > socio-ecological Transformation



Sustainability in a team: local action in in a planetary context



- Timo von Wirth
„Socio-economic transformation with a focus on sustainable mobility in urban regions“- FB3
- Caroline Schmitt
„Ecosocial Work and Care“ - FB4
- Jan Dieterle
„Sustainable Open Space and Urban Design“ - FB 1
- Bhavin Kapadia
„Sustainable and Modern Engines/Mobility“ - FB2

The Spacecraft Earth has no emergency exit.

(Paul Crutzen, Mike Davis, Michael D. Mastrandrea, Stephen H. Schneider, Peter Sloterdijk 2011)

Definition of a „safe operating space for humanity“:

Planetary Boundaries

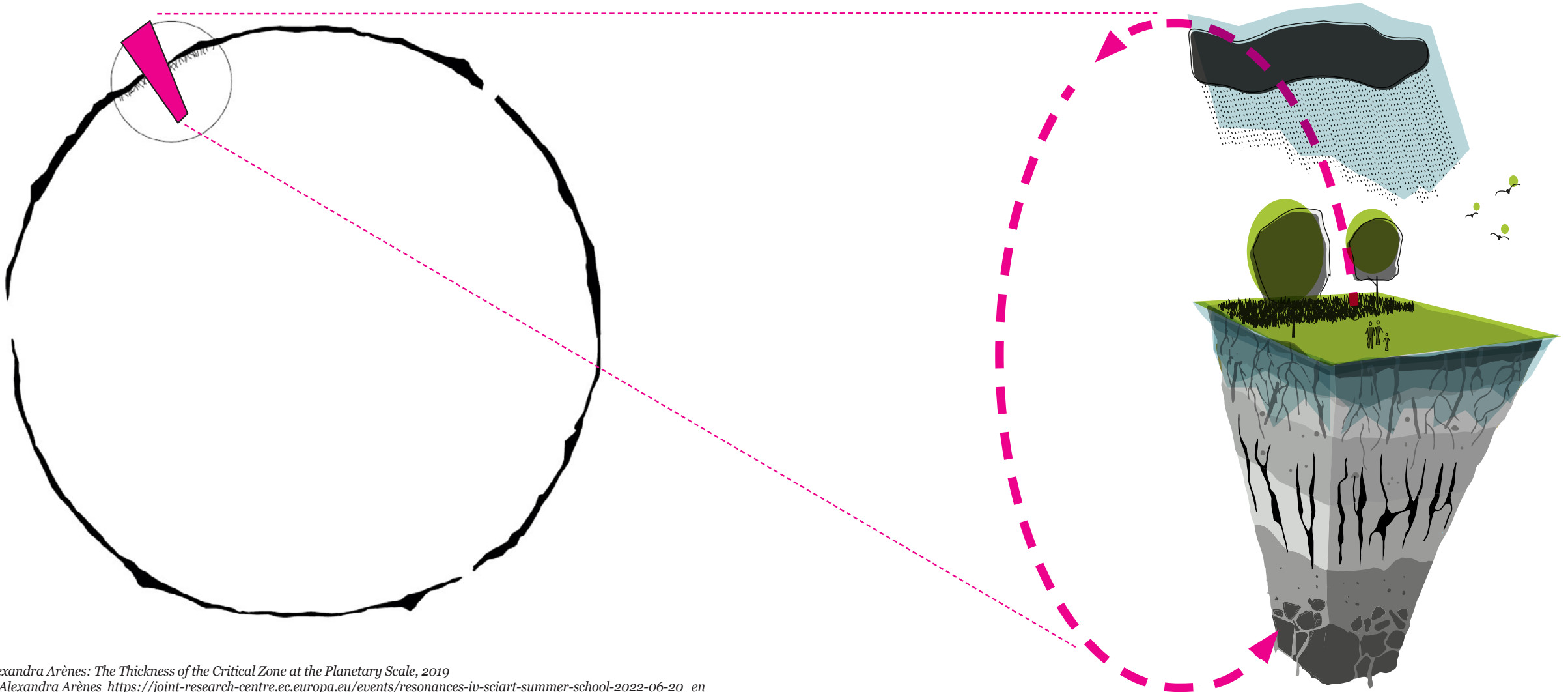
(Stockholm Resilience Centre - Rockström et al 2009)



multiple crises and little space to manoeuvre:

It is about the transformation of our environments

„Finding new ways to inhabit the earth is our greatest challenge.“ (Bruno Latour 2017: Down to earth)

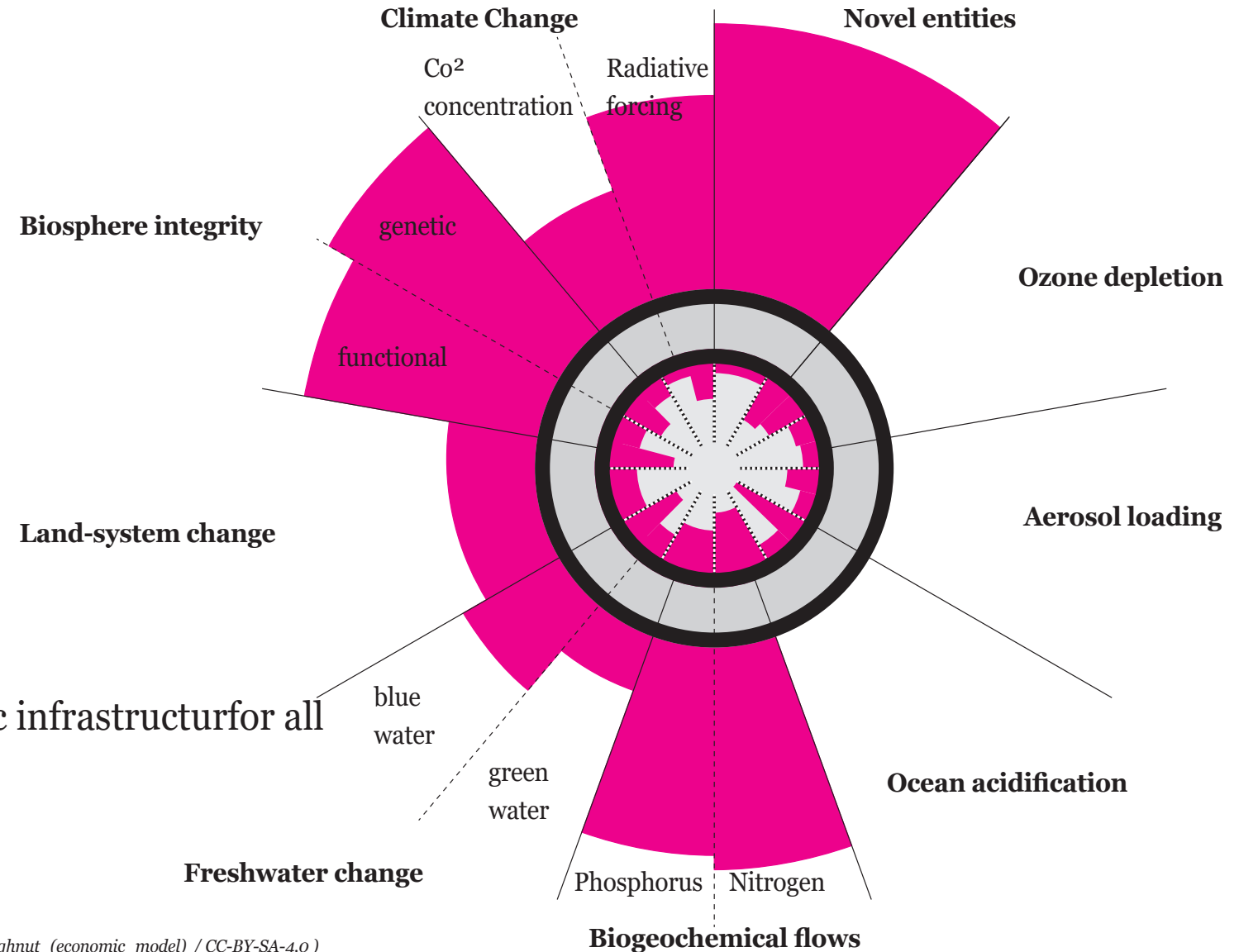
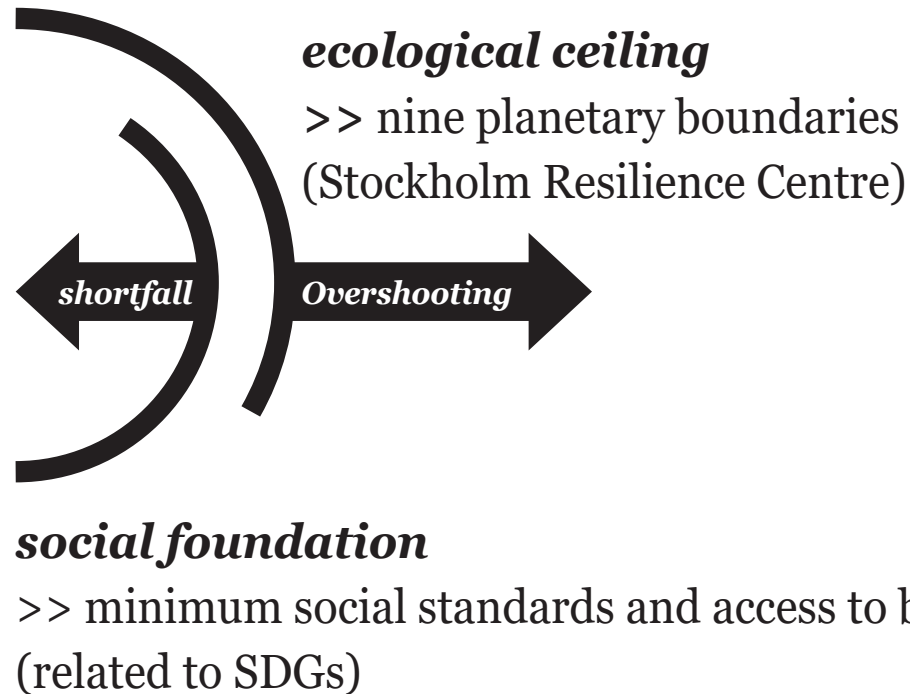


Alexandra Arènes: *The Thickness of the Critical Zone at the Planetary Scale*, 2019

© Alexandra Arènes https://joint-research-centre.ec.europa.eu/events/resonances-iv-sciart-summer-school-2022-06-20_en

meet the needs of all within the means of the planet

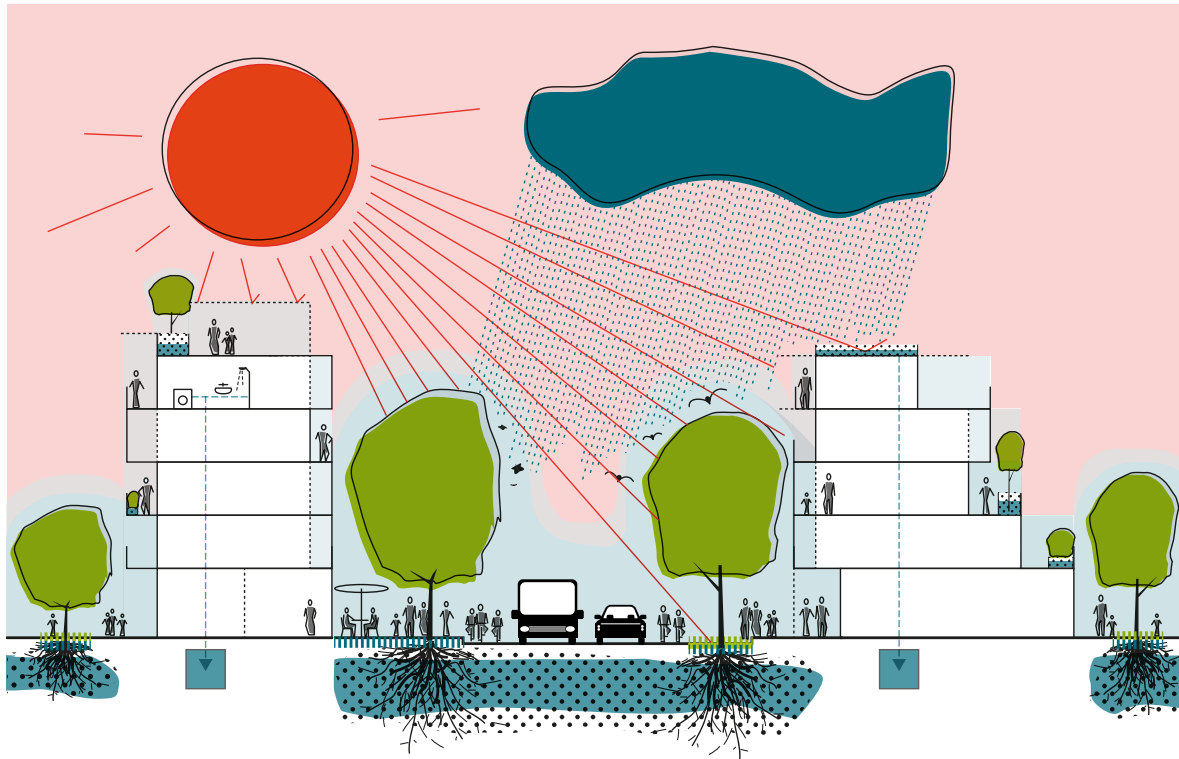
A ecologically safe & socially just operating space



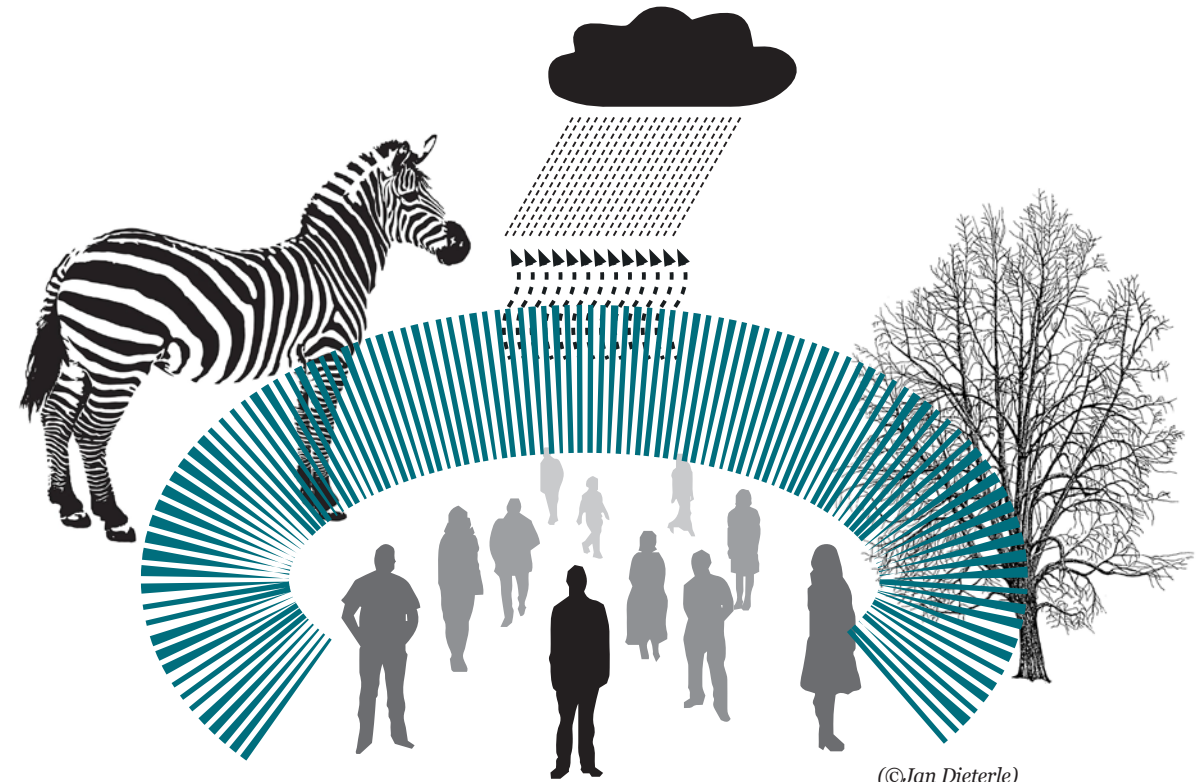
(Visualisierung des Doughnutmodells von Kate Raworth - vgl. Wikipedia: [https://en.wikipedia.org/wiki/Doughnut_\(economic_model\)](https://en.wikipedia.org/wiki/Doughnut_(economic_model)) / CC-BY-SA-4.0)

Transformation: active & productive spaces safe, just and liveable for all!

- Climate and water are common resources
- Include all surfaces
- Design multi-layered transition zones



- Care for common goods
- Inclusive planning for humans and non-humans
- Co-production for ownership and participation



(©Jan Dieterle)

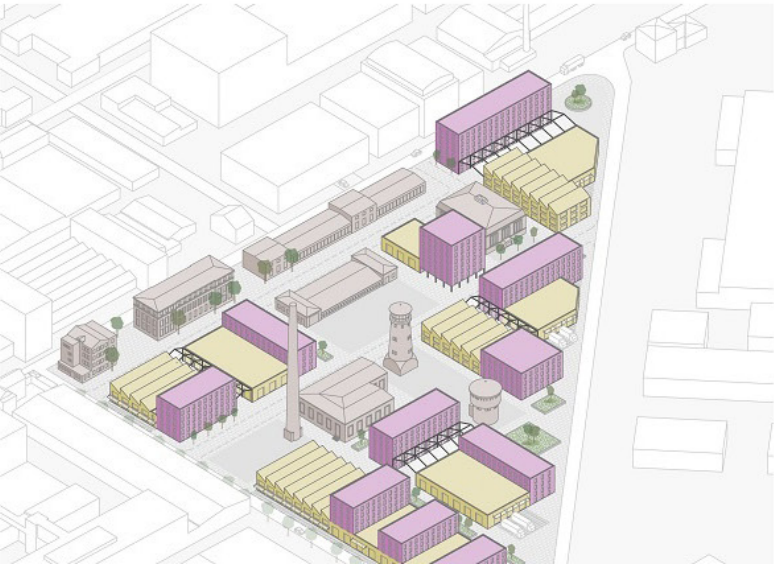
Studying urban planning: Projects

Urban pattern and Typology

Baukörper & Typologien

Die 6 Werke setzen sich aus unterschiedlichen Baukörpern zusammen. Bei den urbanen Baukörpern handelt es sich um Riegel und Quader, welche Nutzungen wie Büros und öffentliches Gewerbe wie Läden und Gastronomie beherbergen. Die eher gewerblichen Baukörper sind die Produktionshallen und Sheddach-Gebäude mit ihren Werkstätten und Ateliers.

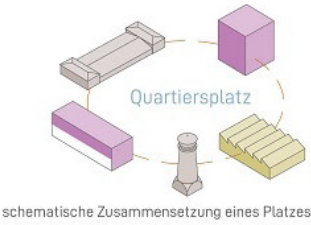
- urbane Baukörper
- gewerbliche Baukörper
- historischer Bestand



Open Spaces

Freiräume & Plätze

Die größeren Plätze und Freiräume in der Quartiersmitte folgen einer bestimmten Regel. Um das Gefühl der urbanen Gewerbestadt zu vermitteln und den historischen Bestand nicht in dieser untergehen zu lassen, sind die Plätze so angeordnet, dass sie sich immer an einem Bestandsgebäude, einem urbanen und einem gewerblichen Baukörper befinden.

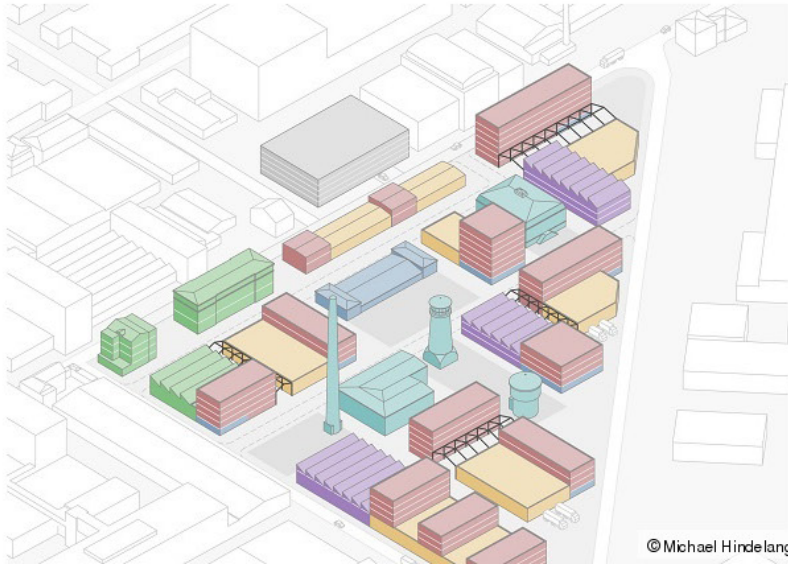


Programme

Nutzungs-konzept

Büros & Co-Working befinden sich in den urbanen Baukörpern, öffentliches Gewerbe wie Gastro & Läden in den Erdgeschossen. Große Produktion in den Hallen sowie Ateliers und Werkstätten in den Sheddach-Gebäuden. Jedes Werk hat also eine Vielzahl an Nutzungen. Der Bestand wird größtenteils öffentlich und beherbergt kulturelle Nutzungen; z.B. die Reglerhalle als Eventspace.

- Büro / Co-Working
- Produktion
- Werkstätten / Ateliers
- öffentlich - Kultur
- öffentlich - Gewerbe / Gastro
- soziale Nutzung (Eastside)
- Quartiersgarage



Studying urban planning: Projects



Studying urban planning: Lectures + exercises



Studying urban planning: Seminares

ANALYSE

S.W.O.T.

CHANCEN



Verkehrsberuhigung
durch Umleiten des
Durchreiseverkehrs



Demokratisierung der
Blockrand-Innenhöfe



Öffentlicher Bezug
EG-Zonen zu Straßen



Erweiterung der
Fahrradstraßen/-wege



Anlegen & Aufwerten
grüner Naherholung

Durch gezielte Änderungen
an der Leitung von Verkehr
sowie dem Bündeln des
auftretenden ruhenden
Verkehrs könnten die Innen-
höfe befristet und performant



Figure 31 - 36

Studying urban planning: Thesis



Studying urban planning: Excursions



Studying urban planning: Experiment - Draw - Build - Discuss- Present



Studying urban planning: Experiment - Draw - Build - Discuss- Present



Cooperation in Frankfurt: urban planning in dialogue on site



www.frankfurt-university.de/en/stadtplanung
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Life in Frankfurt

Research - e.g

Postwar-modernism

Reworking mass housing



Forschungslabor Nachkriegsmoderne

Re-Working Mass Housing



ReSULT

Research Lab for Sustainable Lightweight Building Technologies



Plant smiles ✕
grow laughter ✕
harvest love



STREET SCAPES!

