



Studio Lausanne: The Great Geneva, Network pluralities as a city territory project. Beyond the radio-centric Metropolis

05-09 September 2022

Summary and contact

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 Website <https://www.todisrur.eu/>

Table 1. Information summary

First network-wide training event summary	
Year:	2022
Project month:	21
Meeting times:	05-09 September 2022
Instruction language:	English
Disciplines:	Planning, Urban Design, Landscape Design
Organizers:	Flore Guichot (ESR2), Paola Vignano

Aims and program description

TOD Studios: general aims

Today's discourse around TOD tends to crystalize in a schematic opposition between compact and dispersed urbanization forms enforcing hierarchical, fragmented, and exclusionary dynamics. Embracing the 'city-territory' project in the scope of the socio-ecological transition demands to question this *a priori* assumption around the different forms of urbanities and to recognize the limits inherent to radio-centric or hub-and-spoke systems. In the frame of two main challenges of our contemporary metropolis, the « no-net-land-take » and the evolution toward zero-net-CO2 emission, dispersed urbanization need to be acknowledged for its present and future potential. Mobility networks, from « strong » to « weak », understood as the support for heterogeneous modes of living are a key resource for the contemporary spatial project. Special attention is set to the ecological rationality of the metropolitan territory to find renewed integration between landscape and urban planning in the context of the rural-urban space. Space is used to address complex and necessary understanding of the STES (Socio-technical-ecological systems) to foster possible sustainable futures, through scenario development.

Studio Lausanne will be a four-day event dedicated to working on, and within, the context of the transborder metropolis of Greater Geneva. The studio aims to introduce ESRs to research-by-design methodologies. To do so, the studio is organized around four main activities, which each contribute to research-by-design hypotheses, and with four specific aims:

- (1) Planning presentation of the Greater Geneva from stakeholders and practitioners, to get insight on both technical and political metropolitan challenges



- (2) Fieldwork with experts and inhabitants' associations, to gain knowledge on the reality of the lived situation, conflicts, and potentialities.
- (3) Round table with policy makers, technicians from multiple fields, and planners, to valorize a systemic approach.
- (4) Theoretical seminar, to link theory and implementation.

These four parts have the ambition to give the ESR fellows the necessary materials to draw hypotheses on the two exploded territories of the Jura and the Chablais and to transcribe such hypotheses into scenarios to be collectively discussed and critically reflected on.

In addition, the studio aims to strengthen collaboration within the TOD-IS-RUR network through ESRs collaborative work sessions and exchanges. ESR will also be invited to make comparisons with their own case studies in relation to the Greater Geneva Region.

Content

In this workshop, we will:

Introduce research by design methods

The Workshop aims at introducing the ESRs to particular research methods that connect current and administrative territorial visions, technician knowledge, theoretical frame, and field-based knowledge to draw hypothesis and scenario on a given territory. The research by design methods focuses on:

- Introduction to institutional knowledge and current planning practices
- Technical knowledge and systemic approach to territorial research
- Critical reflection on the new paradigms of mobility in planning theory as a territorial project
- Immersion into the site through different modes: cycling, walking and public transport and material collection photography, interviews, etc.
- Hypothesis and narrative as a tool for interdisciplinary research. Scenario co-construction and critical evaluation.
- Mapping and retranscription technics

Relate research and practice: introduction to institutional knowledge, current planning practices, technicians' knowledge and inhabitants

The Workshop intends to present ESRs with a transdisciplinary approach thanks to:

- Connecting research and practice through spatial problematics.
- Beneficiating from pluridisciplinary understanding thanks to actor and specialist knowledge, as well as understanding limits.
- On-site knowledge confrontation to both theoretical and current planning frames.

Give insight on the Great Geneva region

The case study is an example from which we reflect on the questions raised by the various ESR projects. Including: active modes place in planning, mobility vs immobility, accessibility, landscape, etc. The field trip and intervention should allow for critically assessing TOD concepts, limitations, and potentialities in RUR areas of the metropolitan system, as well as nourishing comparative perspectives.

Give theoretical input on urban-mobility current paradigms shift

The ecological transition is changing the frame of mobility-urbanization relations. In the current double objectives of Zero-net-land-take and Zero carbon emission a new paradigm arises, one that is no longer able to oppose existing urban fabric and strong public



transport. This new paradigm and how to confront it in research and practice is the red thread of the theoretical seminar.

Working on ESR projects

The workshop will help develop ESRs individual project through:

- Cross-referencing problematics around concrete case studies.
- Participating in comparative analyses
- Reflecting collectively on questions and themes that foster the ideas and work of the ESRs.

Outcomes (skills and knowledge acquired)

By the end of training week, ESRs will acquired:

- Technical research skills: introduction to new methods to relate research and practice
- Scientific communication skills: communication of the studio results, discussion sessions
- Presentation skills: preparing a powerpoint presentation and presenting their work during the review session
- General knowledge into the research field: enhance their understanding of the main themes and problematics of the TOD-IS-RUR project
- Research by Design: create links between territorial realities, planning policies and theoretical frameworks.
- Cross-cultural / cross-sectoral collaboration
- Interdisciplinary collaboration

Organization of Studio Lausanne

Locations

Ecole Polytechnique Fédérale Lausanne,
Route Cantonale 1, 1005 Lausanne, Switzerland.

Greater Geneva field trip: Geneva/ Perrignier / Bon-en-Chablais / Chêne-Bourg / Annemasse

Greater Geneva field trip day 2: Geneva/ Meyrin / Gex/ Saint-Genis-Pouilly / Ferney-Voltaire

Workshop Attendance and Participation

Attendance during the whole workshop is obligatory. If ESRs are not able to attend the session, they are to inform their supervisor(s), the organizers of the workshop and the Project Management Team in advance. The ESRs should make sure to turn in their assignments if they are required.

Materials

The reading materials will be made available in advance. For the bibliography, see appendix.

Participating ESRs, supervisors and PMT

ESR	ESR name	Supervisor/co-supervisor	Host organization
ESR1	Mariana Santos	Prof. Nathalie Roseau (supervisor) Prof. Massimo Moraglio (co-supervisor)	Ecole des Ponts ParisTech, France
ESR2	Flore Guichot	Prof. Paola Viganò (supervisor) Prof. Greet De Block (co-supervisor)	École polytechnique fédérale de Lausanne, Switzerland
ESR3	Krzysztof Janko	Prof. Dorothee Brantz (supervisor) Associate Prof. Frauke Behrendt (co-supervisor)	Technische Universität Berlin, Germany
ESR4	Harriet Dunn	Prof. Jonathan Metzger (supervisor) Prof. Stijn Oosterlynck (co-supervisor)	KTH Royal Institute of Technology, Sweden
ESR5	Carla Cruz	Prof. Mattias Qviström (supervisor) Prof. Dorothee Brantz (co-supervisor)	Sveriges Lantbruksuniversitet (SLU), Sweden
ESR6	Lisa Buldeo Rai	Prof. Luca Bertolini (supervisor) Prof. Jonathan Metzger (co-supervisor)	University of Amsterdam, the Netherlands
ESR7	Maya El Khawand	Prof. Caroline Gallez (supervisor)	Université Gustave Eiffel (UGE), France
ESR8	Leon Vauterin	Prof. Ruth Oldenziel (supervisor) Prof. Thomas Vanoutrive (co-supervisor)	Eindhoven University of Technology, the Netherlands
ESR9	Andre Klaassen	Prof. Greet De Block (supervisor) Prof. Mattias Qviström (co-supervisor) Prof. Ann Verhetsel (co-supervisor)	University of Antwerp, Belgium
ESR10	Sandra La Rota	Prof. Thomas Vanoutrive (supervisor) Prof. Luca Bertolini (co-supervisor) Prof. Caroline Gallez (co-supervisor)	University of Antwerp, Belgium
Coordinator PM	Greet De Block		University of Antwerp, Belgium

Trainers (internal and external)

Trainers	Name	Contact details	Brief description of the role/session contribution
Internal trainers	Prof. Paola Viganò	paola.vigano@epfl.ch	Organizer
	Prof. Vincent Kaufmann	vincent.kaufmann@epfl.ch	Organizer
	Prof. Antoine Brès	antoinebres@bresmariolle.fr	

External trainers	Prof. Albert Pope Prof. Brian McGrath	ahp@rice.edu McGrath@newschool.edu	
Partner Organizations	Gabriel Lanfranchi (Urbaplan) Luuk Zhang (SPV)	c.fery@urbaplan.ch q.zhang@studiopaolavigano.eu	Lecturer/discussant

Calendar

	Monday, September 5th	Tuesday, September 6th	Wednesday September 7th	Thursday September 8th	Friday September 9th
Location	Geneva	Geneva	EPFL, Lausanne	EPFL, Lausanne	EPFL, Lausanne
Activities	Presentations, Field Trip	Field Trip, Round table discussion	Work on outcomes Seminar	Presentation of the outcomes	TOD-IS-RUR Annual Meeting
Morning	7.40-8.40 Train for Geneva 8.40-9.15: Intro 09.15-10.30 Great Geneva presentation Joel Wetter (DT) 10.30-12.30 Great Geneva presentation Ariane Widmer (DT) 12.30-13.30 Lunch	9.00-13.00 Field trip PACA Jura Mode: Private bus 13.00-14.00 Lunch	9.00-13.00 Hypothesis definition Work on the outcomes EPFL Room AAC132 13.00-14.00 Lunch (EPFL)	9.00-13.00 Work on the outcomes With: Studio PV AREP Urban plan EPFL Room AAC132 13.00-14.00 Lunch (EPFL)	9.00-12.30 TOD-IS-RUR Annual Meeting EPFL Room AAC132 12.30-13.30 Lunch (EPFL)
After-noon	13.30-18.00 Field trip Chablais Mode: PT With: Dr. Andrea Finger, Charlotte LeGouic (AT)	15.00-18.00 Round table discussion at Salle communal, Meyrin With: Philippe Gasser (CITEC), Dr. Andrea Finger, Mario Werren (CFF),	13.00-18.00 Seminar Systemic approach to Urban-mobility in the RUR: With: Prof. Antoine Brès, Prof. Albert Pope, Prof. Brian McGrath,	14.00-18.00 Presentation and discussion of the outcomes EPFL Room Forum SG1	13.30-18.00 TOD-IS-RUR Annual Meeting EPFL Room AAC132

		Eric Zellweger (DT), Charlotte LeGouic (AT)	And: Supervisor as discussant	18.00: Drinks	
	19.30 Collective dinner in Geneva	18.00: Drinks	EPFL Room Forum SG1		
	Return to Lausanne	19.00 Return to Lausanne	19.30 Collective Dinner Auberge de st-Sulpice	19.00 Free dinner	19.00 Free dinner
		Free diner			

Description of the individual sessions & training materials

TOD-IS-RUR [Studio Lausanne]

Monday, 5th, September, 2022, 9:00-18:50 (CEST)

Meeting at: Lausanne trains station 07:40

PROGRAM OF THE SESSION

INTRODUCTION TO THE GREAT GENEVA AGGLOMERATION

Chair or organizer: Lab-U (EPFL) with Département du territoire, canton de Genève/ Grand Genève Agglomération

Time	9:00-12:30
Location	3DD, Rue David-Dufour 3

The aim of the session is: The introduction to the Great Geneva metropolitan area

Organizers: Flore Guichot, Prof. Paola Viganò

Speakers: Ariane Widmer (DT), Joel Vetter (DT).

Time CEST	The great Geneva territory in transition
Aim of the lecture	Providing insight on current planification methodology and aims
Concept	Practitioners' insight on territorial transition
Format	Presentation/ discussion
The specific scientific and societal problem/s it will forward:	As a cross-border Agglomeration of 1 million inhabitants, the Greater Geneva is committed to coordinating the development of urbanization and transportation while preserving resources and the living environment. Faced with the challenge of climate emergency, the partners of Greater Geneva are committed to merge and renew their territorial planning and associated strategies (urban planning, mobility, environment, etc.). In order to achieve the 10 ecological transition objectives of Greater Geneva, efforts will have to be sustained in a long-term perspective through concerted and coherent actions on the scale of the entire cross-border territory.
To do ESRs	Material reading and question preparation
References	



- Feuille de route pour le nouveau plan directeur cantonal vision territoriale transfrontalière 2050, Département du territoire, 2021.
- Plan climat cantonal 2030-2eme génération, Département du territoire, 2021.
- Projet d'agglomération de 4^e génération Grand Genève, Synthèse, Grand Genève Agglomération Franco-Valdo-Genevoise, 2021.

Lunch break: 12:30-13:30 at 3DD, Rue David-Dufour 3

FIELD TRIP I	
Time	13:30-18:50
Departure from:	3DD, Rue David-Dufour 3
	PACA CHABLAIS/ARVE
Aim	Discovering the Great Geneva territory
To bring	Camera, notebook
Format	Walking and public transport

Back at : Cornavin station 18:50

TOD-IS-RUR [Studio Lausanne]

Thursday, 6th, September, 2022, 9:00-18:00 (CEST)

PROGRAM OF THE SESSION

Meeting at: Lausanne train station 8:10

FIELD TRIP II	
Time	09:00-13:00
Departure from:	Cornavin station, Geneva
	PACA CHABLAIS/ARVE
Aim	Discovering the Great Geneva territory
To bring	Camera , notebook
Format	Private Bus tour

Lunch break: 13:00-14:00 at Meyrin

ROUND TABLE/ TOD in the transition frame : new paradigms around the transport-urbanization project/	
Chair or organizer: Lab-U (EPFL)	
Time	14:00-18:00
Location	Meyrin Maison communale, Rue des Boudines 2, salle 22

The aim of the session is: To confront on-site hypotheses with practitioners and policymakers
The session will be divided in two parts.

Organizers: Flore Guichot, Prof. Paola Viganó

Speakers: Philippe Gasser (CITEC), Charlotte LeGouic (AT), Philippe Standler Benz (CFF), Eric Zellweger (DT), Dr. Andra Finger, Mario Werren (CFF)

Part I	Mobility in practice
Aim of the lecture	Methodological input
Time	14:00-15:00
Methods	Presentation/ discussion



PART II	Mobility proximity and territorial challenges
Aim of the lecture	Site-specific input
Time	15:00-18:00
Methods	Discussion
To do ESRs	Prepare specific questions related to the field trips/ previous presentations

Back at : Cornavin station 19:00

TOD-IS-RUR [Studio Lausanne]

Wednesday, 7th, September, 2022, 09:00-18:00 (CEST)

Meeting at: EPFL, Route Cantonal 1, Lausanne, in front of Batiment SG, 9:00 AM

PROGRAM OF THE SESSION

WORSHOP	
Time	9:30-13:00
Location	EPFL, Route cantonal 1, 1004, Lausanne. SG AAC132
Methods	Research-by-design
The specific scientific and societal problem/s it will forward:	<p>The workshop aims to develop a research-by-design methodology to critically reflect on the TOD model application in the Great Geneva territory. Such methodology intends to construct knowledge on the territory through reading and designing, and retrospectively on the theoretical models' limits, potentials, and possible futures.</p> <p>The research-by-design objective is to bridge the gap between theoretical models, planning policies and intentions, technical knowledge, and on-site contextual spatial processes at hand. The purpose of the research-by-design methodology is to mobilize design strategies as an investigative tool to imagine possible futures in the face of complexity and uncertainty which characterized the current socio-ecological context.</p> <p>The ecological transition goals today are clearly defined, the question at stake is no longer the 'What' but the 'How'; how will we reach the objective that has been set? In this frame, scenarios are meant to verify or falsify hypotheses through their spatial impact. They are an entry point into so-called 'wicked problems'. Here space, at both territorial and local scales, is used as a means to get out of silo thinking while gazing at mobility-urbanization processes and their implication for future sustainability. Acknowledging TOD potential to support decarbonized mobilities and low-land impact, critical paradoxes emerge between the model and the nature of the territory. Identifying such paradoxes is key to conceptualizing the current challenges and defining hypotheses from which possible future scenarios may emerge.</p> <p>We propose that each group reflect on one specific paradox combined with one of the case studies and on what they entail for the future of the Great Geneva territory.</p>

The aim of the session is: to develop and reflect on territorial hypotheses in three sub-groups.

Lunch break: 13:00-14:00 at Parmentier, EPFL

SEMINAR/ Systemic approach to Urban-mobility in the RUR, How to go beyond the hub-and-spoke paradigm /PART I

Chair or organizer: Lab-U (EPFL), HRC (EPFL)

Time	14:00-18:00
Location	EPFL, Foyer SG, EPFL. Route cantonal 1, 1004, Lausanne.

Time CEST	Discrete Urbanization: From TOD to DOD Prof. Antoine Brès
Aim of the lecture	Theoretical input
Methods	Presentation/ discussion
The specific scientific and societal problem/s it will forward:	Approaches to mobility, like most approaches to practices and spaces defined as urban, have mainly taken cities as their physical, social, and geographical background, more particularly large cities and metropolises, where travels were the most numerous, the most frequent and the longest in terms of the time devoted to it. During the last decade, the questioning of statistical categories, the notion of the generalized urbanization (Lefebvre, 1970 ; Brenner, 2014) , and also the image of metropolises, not as larger cities but as areas made of a great diversity of spatial configurations, have put back on the research agenda the « discrete figures of urbanization » (Brès, 2015, 2017), encompassing rural and suburban areas, which correspond to 30 at 50% of the population of the continental France, and about 90% of its surface (depending on the data used). So, let's leave the concept of TOD to the large agglomerations whose public transport networks are not yet saturated, and let's think, for the remaining 90% of the territory, about Distribution Oriented Development, or DOD, within the urban regions (Brès, 2020).
To do ESRs	Material reading and question preparation
References	Brenner N., 2014, <i>Implosions / Explosions Towards a study of planetary urbanization</i> , Berlin, Jovis Brès A., 2015, <i>Les figures discrètes de l'urbain</i> , MétisPresses, Lausanne Brès A., Beaucire F., Mariolle B., (dir.), 2017, <i>Territoire frugal, La France des campagnes à l'heure des métropoles</i> , MétisPresses, Lausanne Brès A., 2020, « Faire durablement territoire sans densifier les villes », <i>Métropolitiques</i> , https://metropolitiques.eu/Faire-durablement-territoire-sans-densifier-les-villes.html Lefebvre H., 2001 [1970], <i>Du rural à l'urbain</i> , Paris, Economica-Anthropos Mumford, L. 1925b. « Region To Live In », <i>The Survey Graphic Number</i> , vol. 54, n° 3

Time CEST	Metacity Imaginaries; Recombinant Ecologies Prof. Brian McGrath
Aim of the lecture	Theoretical input
Methods	Presentation/ discussion
The specific scientific and societal problem/s it will forward:	The challenges of climate, injustice and pandemics beg for a radical reimagination and reinhabitation of city territories. History assigned architecture with the rule and order of cities, but ecology has emerged as a new agent for understanding urban spatial processes and practices. This lecture looks at the possibilities in entangling and



	recombining the architecture and ecology of cities. Recombinant ecologies from the forested biome are presented with the legacies of colonial erasures and structural racism of the North American eastern seaboard are offered. We will critically challenge, with a metacity of imagination, the discourses of the two “urban frontiers” that have dominated urbanization over the last four decades: sprawl and gentrification. Analytical methods explored include succession and evolution, land as mosaic and space as matrix, patch dynamics and typo-morphology, and reframing boundaries as “ecosystem sheds” and “basins of attraction”.
To do ESRs	Material reading and question preparation
References	<p>- McGrath, B.Pickett, S., 2011. “The Metacity: A Conceptual Framework for Integrating Ecology and Urban Design.” <i>Challenges</i>, vol. 2, pp. 55–72, https://doi.org/10.3390/challe2040055.</p> <p>- McPhearson, T., et al., 2016. “Advancing Urban Ecology toward a Science of Cities.” <i>BioScience</i>, vol. 66, no. 3, pp. 198–212, https://doi.org/10.1093/biosci/biw002.</p>

Time CEST	Ladder versus grid Prof. Albert Pope
Aim of the lecture	Theoretical input
Methods	Presentation/ discussion
The specific scientific and societal problem/s it will forward:	The contemporary Megalopolis is a spine-based "conurbation" that often stretches for hundreds of miles containing millions of people. ("Bos Wash," which is situated along the eastern seaboard of the United States, consists of 700 miles of continuous urban development that contains 52 million people.) While many continue to define urbanism as radio-centric or hub-and-spoke systems, these historic types of urban organization have long been absorbed into the logic of a polynuclear conurbation. That logic, which is pejoratively identified as urban “sprawl,” is the necessary point of departure for the urban and environmental reforms that environmental breakdown on a global scale will force upon us. Built upon the distributed, polynuclear logic of Megalopolis, these reforms have five key components. 1. the promotion of self-similar objects over the unique objects, 2. the promotion of indeterminate, temporal aggregations over a fixed masterplan composition. 3. the promotion of private accommodation over public ritual. 4. the promotion of spaces over form as the organizational medium of contemporary urbanism. 5. the logic of fully imagining the unspoken priorities of the world apart from the human or “the world without us.” Traditional urban hierarchies continue to dominate the discourses of urban design despite the fact that these historic organizational systems now account for less than 25% of the urban population. Urban reforms based on the five key components of a distributed, polynuclear urbanism will promote heterogeneous modes of living as well as heterogeneous responses to the natural systems on which they depend.
To do ESRs	Material reading and question preparation
References	- Pope, Albert. <i>Ladders</i> . 2. ed, Princeton Architectural Press, 2015.

Tuesday, 8th, September, 2022, 09:00-18:00 (CEST)

Meeting at: EPFL, Route Cantonal 1, Lausanne, in front of Building SG, 9:00 AM

PROGRAM OF THE SESSION

WORKSHOP

Time	9:30-13:00
Location	EPFL, Route cantonal 1, 1004, Lausanne. SG AAC132

The aim of the session is: to develop and reflect on territorial hypotheses in three sub-groups.
With: AREP/UrbaPlan/SPV

Lunch break: 13:00-14:00 at Parmentier, EPFL

RESTITUTION AND DISCUSSION

Time	14:00-18:00
Location	EPFL, Foyer SG. Route cantonal 1, 1004, Lausanne.

With: AREP/UrbaPlan/SPV

TOD-IS-RUR [Studio Lausanne]

Friday, 9th, September, 2022, 09:00-18:00 (CEST)

Meeting at: EPFL, Route Cantonal 1, Lausanne, in front of Building SG, 8:50 AM

PROGRAM OF THE SESSION

ANNUAL MEETING- PRESENTATIONS

Time	9:00-12:40
Location	EPFL, Route cantonal 1, 1004, Lausanne. SG AAC132

Aim: Each ESR presents his own research.

Lunch break: 12:40-13:40 at Parmentier, EPFL

ANNUAL MEETING- WP

Time	13:40-17:15
Location	EPFL, Route cantonal 1, 1004, Lausanne. WP1:CO 011 WP2: SG AAC 137 WP3:SG AAC132, EPFL



Appendix: Bibliographic references Studio Lausanne

A few scientific readings

- Feuille de route pour le nouveau plan directeur cantonal vision territoriale transfrontalière 2050, Département du territoire, 2021.
- Plan climat cantonal 2030-2eme génération, Département du territoire, 2021.
- Projet d'agglomération de 4^e génération Grand Genève, Synthèse, Grand Genève Agglomération Franco-Valdo-Genevoise, 2021.
- Brenner N., 2014, *Implosions / Explosions Towards a study of planetary urbanization*, Berlin, Jovis
- Brès A., 2015, *Les figures discrètes de l'urbain*, MétisPresses, Lausanne
- Brès A., Beaucire F., Mariolle B., (dir.), 2017, *Territoire frugal, La France des campagnes à l'heure des métropoles*, MétisPresses, Lausanne
- McGrath, B.Pickett, S., 2011. "The Metacity: A Conceptual Framework for Integrating Ecology and Urban Design." *Challenges*, vol. 2, pp. 55–72, <https://doi.org/10.3390/challe2040055>.
- McPhearson, T., et al., 2016. "Advancing Urban Ecology toward a Science of Cities." *BioScience*, vol. 66, no. 3, pp. 198–212, <https://doi.org/10.1093/biosci/biw002>.
- Pope, Albert. *Ladders*. 2. ed, Princeton Architectural Press, 2015.

Films-Photo

- Jonas qui aura vingt-cinq ans en l'an 2000. Alain Tanner, 1976