

AR-637

Transition Workshop 2020 Roadmaps for resilient decarbonizing cities

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Cursus	Sem.	Type
Architecture and Sciences of the City		Obl.

Language of teaching	English
Credits	4
Session	
Exam	Written & Oral
Workload	120h
Hours	93
Courses	24
Exercises	24
TP	45
Number of positions	30

Frequency

Only this year

Remark

From 13 July 2020 to 24 July 2020

Summary

The Transition Workshop sets a new framework and action to accelerate the transition of cities by offering methods for decision makers forge appropriate rules and regulations and providing designers with interdisciplinary knowledge to address the objectives of decarbonizing and resilient cities.

Content

Cities, territories and citizens are committed to a change in lifestyle, production, mobility and communication.

Architects, urban planners, administrators, businesses and the general public are demanding a new project for the future of the 21st century. A new generation of motivated and trained professionals is looking for ways to act as agents of change, to support and inspire the movement towards sustainable development.

Under these premises, it is imperative to develop a new cycle of knowledge and know-how to create and accelerate the projects of the ecological transition. Cities and territories need to develop a new zero-emissions project in terms of space, society and aesthetics, before it's too late. The United Nations is warning us about the need to combat global warming by 2030. For its part, the European Union has set the 2050 horizon for decarbonisation. It is time for architects, urban planners and decision-makers to imagine, build and play their own role in this magnificent challenge — arguably humanity's greatest challenge.

Through case studies in the Canton of Geneva and its international environment, we actively respond to the need for responsible, rapid and informed action to transform buildings and cities into sober, resilient and bio-diversified places, for life, solidarity and creativity. Design and construction methods are radically revisited in an open, collaborative and visionary way, well in the spirit of the Geneva framework.

Actors and local communities are making their study cases and knowledge available as impulses to go further towards the decarbonization of our built framework in terms of:

- Construction methods and materials
- Landscape and biodiversity management
- Production/consumption of energy and other resources
- Infrastructure and mobility models
- Urban lifestyles: work, leisure, production, consumption

Urban agriculture, permaculture and gardening
Citizen participation

The transition materials will be processed by the project:
Theories and architectural, urban and landscape projects frameworks
Environment and resources management
Economy and cities development
Anthropology and habitat sociology

The scales of the ecological transition project:

Buildings and neighborhoods
Landscapes and metropolitan regions

Note

This is the first architecture and planning masterclass entirely devoted to the metrics and tools for a transitional building environment.

Keywords

Ecological Transition, Land-Use, ecological planning, sustainable architecture, resource management, change management, participation management, urban agriculture, climate change.

Learning Outcomes

By the end of the course, the student must be able to:

- Create awareness within his professional milieu concerning sustainable development in architecture, urbanism and landscape architecture;
- Apply and invent design and project methods to better fight against climate emergency
- Use "transition metrics" in order to build, rehabilitate, preserve and reuse the built environment whilst protecting nature and its resources.

Resources

Bibliography

Eileen Crist, *Abundant Earth*, 2019; Dominique Bourg, *Une nouvelle terre*, 2019; Peter Sloterdijk, *What Happened in the 20th Century*, 2018; Kate Raworth, *The Doughnut Economics*, 2017; Bruno Latour, *Où atterrir*, 2017; Jason W. Moore, *Anthropocene or Capitalocene?* 2016; Ruth de Fries, *The Big Ratchet*, 2014;

Websites

- <https://brailard.ch/transition-workshop-2020>