

# Subject description

Faculty of Architecture, WUT 2020, **Architecture** studies

**Architecture for Society of Knowledge** speciality

<b>Spatial Planning for Disruptive Times</b>		<b>ASK3-P-Sp</b>	<b>MSc level</b>	<b>semester 3</b>
Classes: <b>lecture</b> <b>project</b>	Hours/semester <b>10</b> <b>40</b>	Student's workload hours: <b>40</b>	Status: <b>obligatory</b> Level: <b>Advanced</b> <b>Group: special design</b>	ECTS: <b>4</b>
				Exam: <b>no</b>

**Unit delivering this subject:** Katedra Projektowania Architektonicznego

**Subject coordinator:** dr hab. arch. Krzysztof Koszewski  
**Teacher:** arch. Ander Gortazar Balerdi

## Learning outcomes and subject delivery methods

Change is the New Normal, and survival is conditioned by the capacity of accepting changes and adapting to them. Like traditions, the most successful cities are not the ones that remain eternally unchanged, but the ones that are able to adapt, transform and mutate while keeping the very unique things that identifies them.

Hausmann stirred up Paris while making it more Paris, and so did Cerdà to Barcelona. Car industry transformed American cities for good, and some of them are now struggling to adapt to the sustainable agenda. Warsaw rapidly rose from the ashes and did not cease to mutate since then. Although change has been a constant in the History of cities, the speed of these changes is probably the main challenge cities must face nowadays.

Spatial Planning for Disruptive Times tackles the issue of change. Conceived as a Design Studio, it will focus on the most disruptive changes that may shape the city of tomorrow, with special emphasis on the attributes of anticipation and adaptation.

How must cities face Climate Change? Is Global Tourism destroying the cultural and touristic value of the most successful cities? Will Autonomous Vehicles transform the way we move? Did the Urban Realm already replace the City? How is Big Data and the Internet of Things making citizens more (un)connected? May Artificial Intelligence bring the end of work closer, and therefore the end of the city as we know it? How will productivity and consumption changes transform urban landscape?

### Objective of the course:

The main objectives and the skills that the students should acquire after completing the course are the following:

Distinguishing between structural-disruptive changes and superficial-sustaining changes in urban context.

Anticipating future changes and their impact on current and future design decisions.

Understanding the concepts of Urban Realm and the city-regions, and identifying them in the Polish and European context.

Performing spatial analysis as a set of superimposed networks and interconnected nodes.

Designing taking into account emerging realities such as climate change, autonomous vehicles, open data and data-driven design, artificial intelligence and production and consumptions changes, among others.

Designing complex territorial strategies and plans from the point of view of the Network Urbanism, fulfilling the agenda of the different stakeholders involved.

Communicating the design decisions to a complex network of stakeholders with different goals.

### General description of the course:

The course will first present different change processes that cities and territories are expecting to face in the short-mid future. Some of these changes are disruptive, others are strong phases of longer processes of change:

- Climate Change
- Autonomous Vehicles
- Internet of Things
- Global Tourism
- Artificial Intelligence
- Big Data

#### Production and Consumption changes

In groups of 2 or 3 people, the students will first be required to make a lecture or presentation of one of these topics, in order for them to research and think about the possible urban and territorial transformations that these processes of change may bring.

Then, each year, the main design project will revolve around one topic, the first being the Autonomous Vehicle. The case study will be Warsaw, where the students will work on a redevelopment project for new a mix-use neighbourhood. First of all, an urban and territorial analysis will be required, including analysis of transportation, demography, economics, natural environment and life-cycle, and foreseeing the changes that the implementation of the Autonomous Vehicle (AV) could cause. Afterwards, the students will develop an urban design project, with special emphasis on the multi-scalar typological and morphological aspects that the AV may transform, such as the parking, the street, the intersection, the city, the highway and the territory.

#### Course output:

The final form of the research and designs explained above will be the following:

The first assignment, the overview of each process of change, will be a powerpoint lecture presentation delivered digitally as well as explained publicly as a lecture of 20 minutes.

The second assignment, the urban and territorial analysis, will be delivered as a chapter of a collaborative book (layouts will be pre-set by the tutor), including data visualization of the selected topic and a short report.

The third assignment, the urban design project, will be delivered as a set of two A2 sheets including a site plan or a general axonometric view, a short report, methodological schemes and any other piece of information considered important (sections, rendered views, drawings, etc.).

#### Learning outcomes:

No. of the outcome/ area	Description
<b>Knowledge</b>	
W_01	Students present theoretical knowledge about different change processes that cities are expected to face.
W_02	Students present practical knowledge about how these change processes may affect particular urban areas (project).
W_03	Students present knowledge about designing urban rehabilitation projects in non-traditional scenarios.
<b>Skills</b>	
U_01	Students distinguish between structural-disruptive changes and superficial-sustaining changes.
U_02	Students anticipate future changes and their impact in design decisions.
U_03	Students perform urban and territorial analysis, both generically and specifically (case-study).
U_04	Students design complex urban environments, taking into account emerging realities and agendas.
U_05	Students communicate design decisions in an attractive and comprehensive way.
<b>Social competences</b>	

KS_01	Students work in groups, cooperate and fulfil different roles.
KS_02	Students think and act in innovative ways.
	Students listen to, reflect on, hesitate about, reason, respect and confront opinions.

### Learning contents:

Lectures

Disruptive Urbanism: a historic approach

Growing Cities and Shrinking Cities

From the City to the Urban Issue

Open Data and Smart Cities

Global Tourism, Urbanization and Gentrification.

Project

Warsaw 2050 Site Visit

Autonomous Mobility and the Transformations of Urban and Territorial Space

The Debate on Property and Sharing

The Debate on Efficiency and the Jevons' Paradox

Multi-scalar Transformations from Parking to Territory

Overlapping Agendas from Manufacturers to Designers and Public Bodies

Open Data Management.

### Teaching methods and forms :

The theoretical part will consist on introductory lectures by the tutor, and lectures by students (in groups). Lectures will be published on an e-learning platform, which will include literature and will also serve as communication tool.

The main project will be developed as a design studio which will focus on one process of change, and it will include an initial site visit or study trip. The studio or workshop will include project consultations and public presentations at each stage of the project (initial review – analysis, mid-review – design proposals, final review – project presentations).

The final evaluation will take all the lectures and presentations into account.

### Method of testing the learning outcomes:

Nr of the outcome / area	Way of testing
<b>Knowledge</b>	
W_01	Lecture: presentation and discussion about the seminar topics.
W_02	Project: analysis and initial design guidelines.
W_03	Project: final project, public presentation and discussion.
<b>Skills</b>	
U_01	Lecture: quality and hierarchy of presentation.
U_02	Lecture: involvement in topic discussion. Project: innovation of initial project analysis.
U_03	Project: depth and quality of site analysis.
U_04	Project: quality of final deliverables
U_05	Project: quality of final presentation and involvement in discussion.
<b>Social competences</b>	
KS_01	Lecture: group presentation. Project: project development and consultations.
KS_02	Lecture: topic presentation. Project: final deliverables and presentation.
KS_03	Lecture: topic discussion. Project: project consultations and final discussion.

### Literature

Basic

Augé, M.: Non-Places. Introduction to an Anthropology of Supermodernity, Verso, London, 1995.

Bekaert, G., May, A., de Geyter, X.: After-sprawl: research for the contemporary city, NAi Publishers, Rotterdam, 2002.

Castells, M.: *The Informational City: Information Technology, Economic Restructuring, and the Urban Regional Process*, Blackwell, Oxford (UK), 1989.

Choay, F.: *The Death of the City and the Survival of Urban Life*, Editions du Seuil, Paris, 1965.

Davis, M.: *Dead Cities and Other Tales*, The New Press, New York, 2002.

Fezer, J.: *Civic City Cahier 6: Design In & Against the Neoliberal City*, Bedford Press, London, 2013.

Florida, R.: *The Rise of the Creative Class: And How It's Transforming Work, Leisure, Community, and Everyday Life*, Basic Books, New York, 2002.

Hall, P., Pain, K.: *The polycentric metropolis: learning from mega-city regions in Europe*, Earthscan, London, 2006.

Harvey, D.: "The Art of Rent. Globalization, Monopoly and the Commodification of Culture", *Socialist Register* 38, 2002, 93-110.

Koolhaas, R.: "The Generic City", *Domus* 791, March 1997, 3-13.

Koolhaas, R.: "Junkspace", *October* 100 (Obsolescence. A special issue), June 2002, 175-190.

Muñoz, F.: *Urbanalization. Common Landscapes, Global Seats*, G. Gili, Barcelona, 2004.

Oswalt, P. (ed.): *Shrinking Cities – Volume 1. International Research*, Hatje Cantz Verlag, Ostfildern-Ruit (Germany), 2005.

Sashinskaya, M.: *Smart Cities in Europe. Open Data in a Smart Mobility Context*, CreateSpace, Scotts Valley (CA), 2015.

Smith, N.: *The New Urban Frontier. Gentrification and the Revanchist City*, Routledge, London, 1996

Complementary

Black, B.: "The Abolition of Work", *The Abolition of Work and Other Essays*, Loompanics Unlimited, 1986.

Calvino, I.: *Invisible Cities*, Harcourt Brace Jovanovich, New York, 1978.

Castells, M.: *The Information Age: Economy, Society and Culture*, Blackwell, Oxford (UK), 1998.

Dupuy, G.: *Urban Network – Network Urbanism*, Techne Press, Amsterdam, 2008.

Jacobs, J.: *The Death and Life of Great American Cities*, Random House, New York, 1961.

Sassen, S.: *The Global City*. New York, London, Tokyo, Princeton University Press, Princeton (NJ), 2001.

Venturi, R., Scott Brown, D., Izenour, S.: *Learning from Las Vegas: The Forgotten Symbolism of Architectural Form*, The MIT Press, Cambridge (MA), 1977.