

Urban regeneration 4.0

Joined design studio with THK Germany

Introduction:

- **Project Background**

Tongji University and Cologne University of Applied Sciences are in a close partnership with the purpose of long-term cooperation and exchanges in teaching and research. After a successful workshop held in summer 2016, both sides decided to organize a joined design studio with mutual visit in the summer semester 2017 together.

The selected design and research project is closely connected to China's current urban development situations, which in the past three decades with its tremendous large-scale development caused world's attentions. Beside of the large achievements during this period, some challenges like closed residential areas resulting in mono-function of the quarter, traffic congestion and a series of other problems arose. The focus of current urban and architectural design studies is the question of how to develop open and environment-friendly neighborhoods. CAUP has highlighted this goal and task throughout the semester of undergraduate and postgraduate design works. The international exchange about this issue is also significant. Germany's urban renewal and transformation has been gone through a long period and accumulated a lot of valuable experience, which could contribute to China's further development. Faced with the changes in the new century, they also need to explore the future development trend of urban renewal concept. Cooperation can further deepen mutual understanding and promote follow-up cooperation among partners in the areas of research, urban development and architectural design.

- **Significance and Objectives of the design project**

To discuss some problems that need to be solved urgently in China's urban design, and to explore the sustainable development path for China's urban development by means of exchange and discussion with international partners and the development of green ecology in developed countries. The student exchange and cooperation program aims to further strengthen the development of urban renewal process of urban development in China and Germany, taking a number of examples in the urban areas of Shanghai and Cologne as case study

objects. The focus of the project is to discuss and study the people-oriented scale and environment-friendly type of open mixed communities to develop suitable living environment for the future, learn from the experience of the urban renovation of Germany to explore the development path of urban renewal.

Aims:

In the process of student exchange, the main objectives are as follows:

- Demonstrate concepts and solutions for future urban design and planning
- Expanding awareness of environmental and climate-friendly urban and community design
- Analyze forward-looking demonstration projects under the sustainable transformation goals of urban community development
- Discussion of future sustainable urban design

After the exchange of visits between the two partners, students need to improve their design concepts, deepening the concept. The main focuses are:

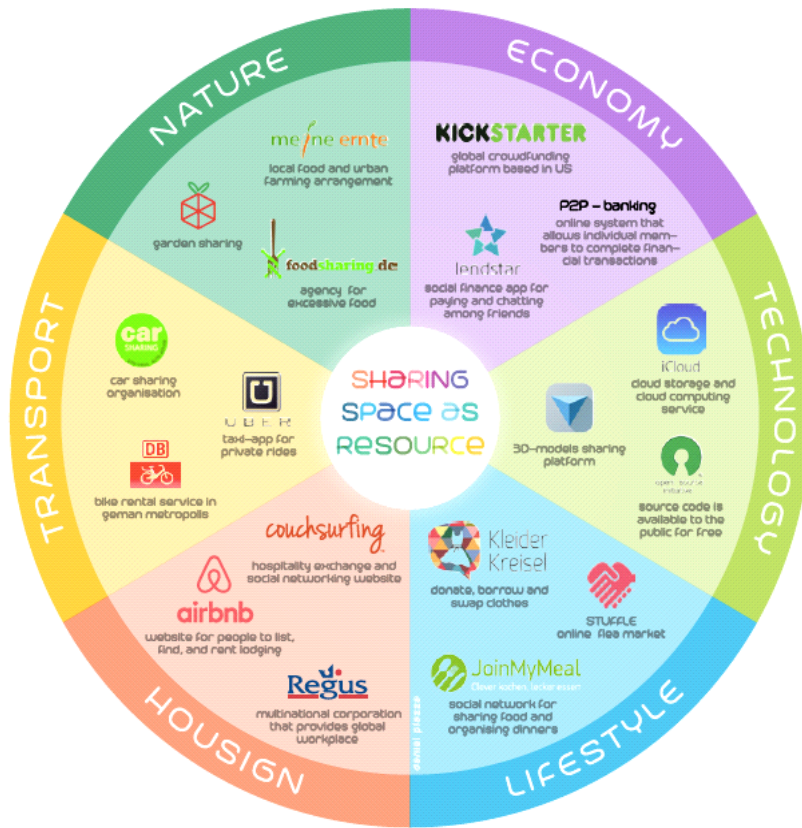
- Macro and micro contrast
- Comparison of Tradition and Innovation
- Comparison of Ethnic Diversity and Cross - border Communication
- Comparison of Increasing Density and Quality of Life
- A Comparison between Gentrification and Cultural Inheritance

The results of this exchange program are urban design and architectural solutions, or a vision of urban infrastructure and architecture embodying innovation concept.

- **What to do in this studio?**

The task of this studio is to develop innovative concepts for collective living for a normal urban block in 1-hectare area; the site location will be predetermined. To be discussed are following topics:

- Proper density
- Space sharing
- Neighborhood structure
- Life style in the future
- Environment and resource protection
- Integration of regenerative energy in the architecture



Number of participants: 12

Design Studio period:

March 03, 2017 to June 09,2017

First Meeting:

March 03, 2017 Friday at 13:30, Room C402

Schedule March 03, 2017 to June 09, 2017:

No.	Time	Content	Form	Place
1.	March 03, 13:30	Introduction	group	C402
2.	March 10, 13:30	Questioning	group	E201
3.	March 24,13:30	Case study report	group	E201
4.	April 10, 13:30	Workshop	group	To be determined
5.	April 11, 13:30	Workshop	group	To be determined
6.	April 12, 13:30	Workshop	group	To be determined
6.	April 13, 13:30	Workshop	group	To be determined
7.	April 14, 13:30	Workshop	group	To be determined
8.	April 28, 13:30	Urban concept	group*	E201
9.	May 12, 13:30	Architectural concept	group*	E201
10.	May 26, 13:30	Midterm presentation	group**	E201
11.	June 09, 13:30	Final presentation	group***	E201

*1 page A0 layout printed, concept model site

**1 page A0 layout printed, concept model site/single building

***2 page A0 layout printed, result model site/single building