

# Virtual Reality and Simulation in Urban Planning

## Travelling Conference

28th Nov to 2nd Dec 2016, Shanghai (CHN) – Suzhou (CHN) – Pathumthani (THA)



The Federal Ministry of Education and Research (BMBF) is a cabinet-level ministry of the Federal Republic of Germany that supports research and innovation projects. In 2016 the BMBF provides a funding “Travelling Conferences” to promote new partnerships and collaborating activities, as well as sharing knowledge and experiences in a range of fields between Germany and Asia.

During the past years, urbanization and technological development in Asia increased rapidly, in most countries more than 50 percent of the total population lives in urban areas today. Focusing on the potential of simulations, virtual reality, and augmented reality for urban planning, three workshops in China and Thailand will be arranged.

A team of researchers from different institutes of the University of Stuttgart, from the RheinMain University Wiesbaden and the Fraunhofer Institute for Industrial Engineering Stuttgart, Germany, will take part in these workshops. Initially, the idea for the Travelling Conference comes from an ongoing German research project “Field Lab City Quarter 4.0” that addresses the question how digital tools, new planning methods, and the local expertise of citizens can support a sustainable urban development.

Travelling Conference program:

### **Monday, 28th November, 2016**

[College of Architecture & Urban Planning \(CAUP\)](#)

[Tongji University, Shanghai, China](#)

Host speakers: Ass. Prof. Zheng Tan, Assoc. Prof. Dr. Cuisong Qu, M.Arch. Mengcheng Ding, Zhong Tang, Assoc. Prof. Dr. Yuqing Tang

### **Wednesday, 30th November, 2016**

[Xi’an Jiaotong-Liverpool University \(XJTLU\)](#)

Host speakers: Prof. Yong Yue, Dr. Bing Chen, Dr. Cheng Zhang

### **Friday, 2nd December, 2016**

[National Electronics and Computer Technology Center \(NECTEC\)](#)

[Pathumthani, Thailand](#)

Host speakers: Dr. Supakorn Siddhichai, Dr. Suttipong Thajchayapong, Asst. Prof. Dr. Chinnawat Surussavadee, Assoc. Prof. Chuchoke Aryupong

German guest speakers:

### **Virtual Reality and Building Information Modeling (BIM) for Spatial Planning (~30 min.)**

[Collaborative Immersive Visualization and Interactive Simulation](#)

Dr.-Ing. Uwe Wössner

High Performance Computing Center Stuttgart  
University of Stuttgart, Stuttgart  
[Planning City Elements in Virtual Environments](#)  
Prof. Dipl.-Ing. Joachim B. Kieferle  
RheinMain University of Applied Sciences, Wiesbaden

**Visualization for Public Participation Procedures – Report of the German Research Project  
VisB+ (~30 min.)**

Dipl.-Ing. Günter Wenzel  
Fraunhofer Institute for Industrial Engineering, Stuttgart

**The Research Project “Field Lab City Quarter 4.0” (~60 min.)**

[Why We Need Smart Planning for Smart Cities](#)

Dipl.-Ing. Mike Letzgus  
Institute of Human Factors and Technology Management  
University of Stuttgart, Stuttgart

[Participatory Processes in Germany](#)

Dipl.-Geogr. Frank Ulmer  
Stuttgart Research Center for Interdisciplinary Risk and Innovation Studies  
University of Stuttgart, Stuttgart

[Scenarios, and Experiments in Urban Planning and Design](#)

M.Sc. Anna Kübler  
Faculty of Architecture and Urban Design  
University of Stuttgart, Stuttgart

[3D City Models and Simulations as Tools for Communication, Analysis, and Planning](#)

Dipl.-Des. Myriam Guedey  
High Performance Computing Center Stuttgart  
University of Stuttgart, Stuttgart