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## WINS SPECIAL SEMINAR

**Prof. Dr. Marco A. Janssen**

**Arizona State University - School of Sustainability  
Center for Behavior, Institutions and the Environment**

### **GOVERNING THE VULNERABILITIES OF URBAN INFRA- STRUCTURE TO WATER SCARCITY AND FLOODING – THE EXAMPLE OF MEXICO CITY**

Date: Thursday, 16 March 2017

Time: 15:00 – 17:00 hrs.

Location: Friedrichstraße 191, 10117 Berlin, Room 4088  
at the Integrative Research Institute on Transformations of Human-  
Environment Systems

Many megacities such as Mexico City will experience in the coming decades an amplification of the existing challenges of water governance due to climatic change and further urbanization. As part of a large research project (<http://megadapt.weebly.com>) we are developing an agent-based model of the water governance in Mexico City. The model focuses on the interplay between neighborhoods and the central water authority which has to make decisions on investment in new infrastructure and infrastructure maintenance. The objective of the model is to understand how the vulnerability of an urban environment subjected to water related hazardous events is influenced by the decision making process of a central authority that manage water related infrastructure. The feedback by the neighborhoods to government decisions are included and provide a way to capture the effectiveness of policies.

**Marco A. Janssen** is a Dutch econometrist and Professor at the Arizona State University and Director of its Center for Behavior, Institutions, and the Environment. He is known for his work on the modelling of socio-ecological systems.