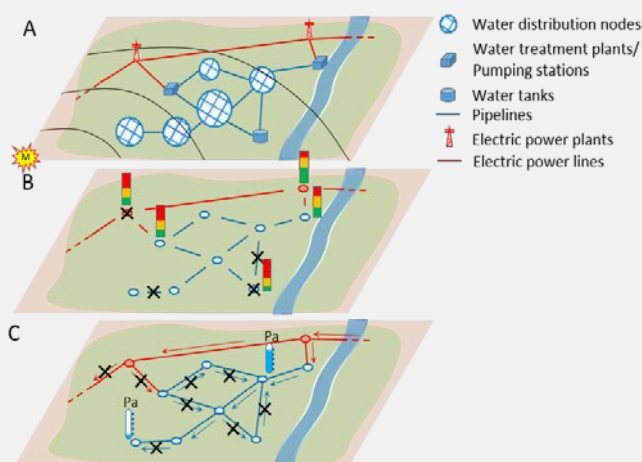


Reliability and Resilience of Civil Infrastructure Systems subject to Multiple Hazards

Dienstag, 1. Dezember 2015
17:00 Uhr
Auditorium HIL E 3 (Lehrgebäude Bauwesen)
ETH Zürich, Hönggerberg, 8093 Zürich

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Some of the concepts presented will be illustrated considering a water network and a supporting electric power network:
A: Representation of a water network and its interaction with a supporting network (i.e., the electric power network);
B: Analysis of the damage of single components of the network;
C: Water flow assessment in the post-event scenario.

The seminar introduces the concepts of sustainability and resilience as two of the most pressing characteristics of infrastructure based on current societal needs. It discusses some of the engineering tools for the development of sustainable and resilience infrastructure including concepts from probability theory, statistics, risk analysis, and life-cycle analysis. The seminar also includes a broader discussion of interdisciplinary considerations that should be accounted for to achieve sustainable and resilience infrastructure and address current societal needs.

Anschliessend an den Vortrag ist ein gemeinsames Nachtessen mit dem Referenten im Restaurant Die Waid, Waidbadstrasse 45, 8037 Zürich vorgesehen.