



SESSION DESCRIPTION

F1 Mind the gap: Embedding infrastructure solutions into sociopolitical contexts

Workshop

Date: Friday, May 30, 2014

Time: 16:45-18:15

Rooms: S25-26

Language: English

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Organized by: GIZ and Siemens

OBJECTIVE

Putting resilience into practice has become a key concern for both policy-makers and implementers alike. However, the gap between technological solutions and social and political factors has not yet been addressed adequately. The German technology company Siemens and the German policy advisory GIZ have therefore joined forces and scrutinized their experiences with developing technical infrastructure solutions and advising state and non-state actors in such a way as to enhance urban resilience. Both companies have determined five key criteria that city stakeholders and service providers can use to assess the resilience of their infrastructure systems. These criteria form the basis of a new and innovative service offer both companies have developed, which seeks to both bridge the policy/tech divide while at the same time aiming at translating the key criteria for resilient infrastructure management into concrete solutions.

The workshop will first elaborate and discuss the five key criteria for resilient infrastructure management, namely: robustness, redundancy, diversity & flexibility, responsiveness and coordination & learning. These will provide the basis for the workshop discussion. Participants will then be invited to discuss their experience around these five criteria in a world café. Therefore, the audience will be split up into three groups around a group table each, where they will have 20 minutes, to share their experiences related to one set of criteria. Table 1 will discuss robustness and redundancy, table 2 will elaborate on actions leading to greater diversity and flexibility, and group three will look at aspects around coordination and learning of infrastructure systems. After 20 minutes, the groups will move to a new table, so that all groups have the chance to contribute to all three topics. Facilitators by Siemens and GIZ will remain at their group table for the entire time and moderate the discussions. In the end, they will share the results of the small-group discussions with the audience.

A specific focus of the session will be given to transport and energy systems as two fields that have proven to be of particular importance to a city's overall resilience.

OUTCOMES

- The audience will gain a better understanding of the five criteria of resilience, namely; robustness, redundancy, diversity & flexibility, responsiveness and coordination
- The audience will have the opportunity to share lessons learned and challenges regarding the implementation of resilience measures in the fields of energy and transport.



METHODOLOGY

Facilitators *Martin Dirr, Planning Officer, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Germany*

Volker Hessel, Manager for Energy Efficiency and Sustainability, Siemens AG, Germany

Gesa von Engelbrechten, Project Manager, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Germany

Rapporteur *Almut Nagel, Senior Desk Officer for Water and Urban Development, German Federal Ministry for Economic Cooperation and Development (BMZ), Germany*

16:45 - 17:00 **Introduction:** Mr Martin Dirr and Mr Volker Hessel will welcome the audience and introduce themselves. In a 10-minute introductory presentation, they will elaborate on five key criteria for resilient infrastructure management, which have been developed by Siemens and GIZ based on previous activities in the field of urban resilience. These are: robustness, redundancy, diversity & flexibility, responsiveness and coordination & learning. Afterwards, the audience will be invited to ask questions.

17:00 – 18:00 **World Café:** The audience will split up into three groups, each around one group table. Moderated by a group facilitator, the audience will have the opportunity to share their experiences (challenges and lessons learned) in the fields of resilience in the energy and/or transport sector with regards to one set of criteria:
Table 1 will elaborate on actions leading to greater **robustness** and **redundancy**,
Table 2 will discuss **diversity & flexibility** and **responsiveness**, and
Table 3 will look at aspects around **coordination and learning** of infrastructure systems.

During the discussion, the participants can note aspects that they deem important on the tables. After 20 minutes, each group will move to the next table so that all groups will have the chance to discuss all five criteria.

18:00 – 18:15 **Conclusion:** The three facilitators will summarize the points discussed at their table and present them to the audience. Afterwards, Ms Almut Nagel will summarize the overall discussion and set it in the context of the current debate in the German Federal Ministry for Economic Cooperation and Development (BMZ).

After the conference, we will circulate a short summary of the workshop discussions and outcomes to the participants.

Further recommended reading

Toolkit for Resilient Cities (Siemens)

<http://w3.siemens.com/topics/global/en/sustainable-cities/resilience/Pages/home.aspx>

Briefing Note "Resilient Cities" (GIZ)

<http://star-www.giz.de/starweb/giz/pub/servlet.starweb>
