

Sectors and Infrastructure: Energy, Coastal, and Transportation

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**Energy Modeling Forum:
Climate Change Impacts and
Integrated Assessment**

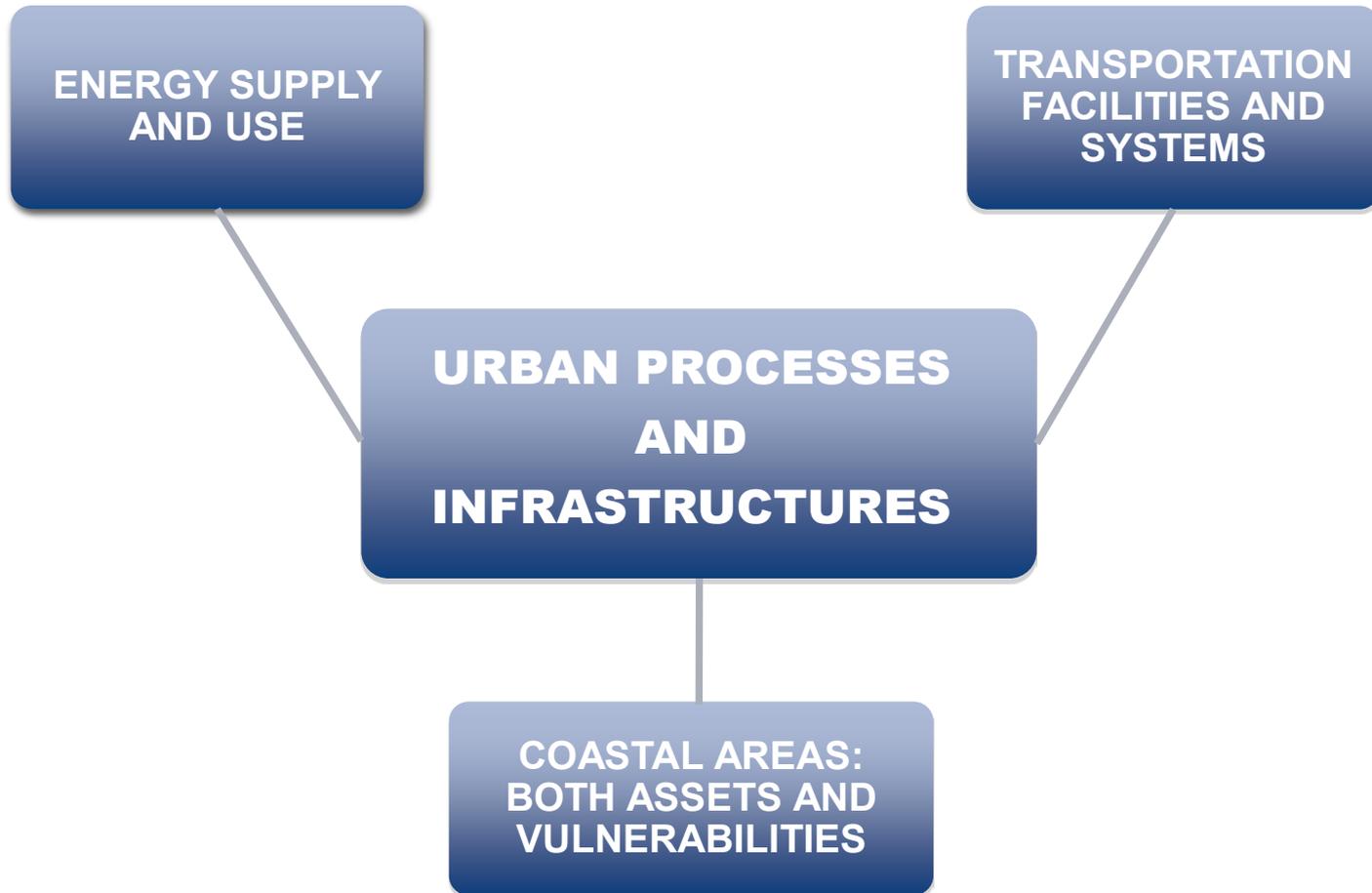
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This Session Is the First of Two on Sectors & Infrastructure:

- **Urban areas are the focus of human efforts to dominate and control nature by marginalizing its importance in our lives:**
 - **Living and working in settings whose conditions are defined within structures, not by conditions external to them**
 - **Engineering natural features to fit human convenience**
- **Infrastructures are therefore central to vulnerabilities, impacts, and adaptation potentials for urban areas:**
 - **As installations needed for the functioning of an area**
 - **As underlying support structures, social as well as physical, for functions that are seldom self-sufficient**

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- **Each “sector”**
 - **not only represents an aspect of vulnerabilities and adaptation potentials within an urban area**
 - **but also reflects how urban well-being relates to external linkages as well as internal dynamics**
 - **and how urban well-being combines environmental conditions with many other forces for change**
- **The three “sectors” have recently been treated in an integrated way by two regional assessment processes:**
 - **GULF COAST: CCSP SAP 4.7: Impacts of Climate Change and Variability on Transportation Systems and Infrastructure: Gulf Coast Study**
 - **CALIFORNIA: California Energy Commission, including its PIER research program**

We Will Be Talking about Three Particular Concerns – energy, coastal, and transportation:

- **They have also been assessed in sectoral assessments:**
 - **Energy: SAP 4.5, CEC reports, sector in GCCCI-US**
 - **Coastal: SAP 4.1, sector in NACC, region in GCCCI-US**
 - **Transportation: NAS/NRC/TRB report, 2008; continuing TRB attention; sector in GCCCI-US**
- **And they have been included in a number of integrated urban assessments: e.g., New York, Boston, CARRI**

The Session Is Laid Out as Follows:

- **Presentations by our three “sectoral” experts:**
 - **Sectoral IAV knowledge and issues, including sectoral infrastructure connections**
 - **Urban infrastructure connections**
- **A panel discussion, inviting your active participation**
 - **Considering linkages among the three sectors**
 - **Considering integration with other urban issues and infrastructures**
 - **Considering other “questions for speakers to address”**