

NEW DIRECTIONS IN CIVIL & ENVIRONMENTAL ENGINEERING AT NORTHWESTERN

TC Business Advisory Committee Meeting

Kimberly A. Gray
Professor & Chair
Civil & Environmental Engineering



Northwestern | McCORMICK SCHOOL OF
ENGINEERING

Strong Relationship between CEE & TC

- Capitalize
- Personally – long time member
- Participated in panels, presentations, seminars
- Joint proposals – 2014 NSF Urban Sustainability Research Network



“Learning Cities: The sustainable & economic reinvention of rapidly changing cities”

Challenges Facing CEE Departments Everywhere

- Undergrad enrollments – 34% decline in last 5 y
- Funding – shift to center funding
- Faculty & area renewal



Opportunities Facing CEE at Northwestern

- Renewal – where, what, or begin anew
- Unifying theme / vision
- Enhance connections
- Architectural Engineering



In partnership with TC

- New teaching & research focus on **Cities**
- **Center for Adaptive & Resilient Cities**
 - Coupled cycles of energy & resource production & use
 - Infrastructure
 - Autonomous vehicles, changing modes of mobility & accessibility
 - Information & communication; shared economy
 - Policy
 - Business opportunities

