



# **Our Transportation Center: Highlights and a Look Ahead**

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## Academic Year 07-08 Highlights

- 25 Students received funding through TC
- ~ \$2M in program expenditures (various sources)
- ~ \$5M in research proposals submitted
- Relaunched executive education programs:  
Pricing Course for Panama Canal Executives in April 08; several new offerings in preparation

## Academic Year 07-08 Highlights (II)

- Active faculty engagement in national and international conferences and journals
- Key organizing and sponsorship role in INFORMS 08 Annual Meeting, Oct. 08; 4650 attendees
- Vigorous dissemination program: Seminar series, Sandhouse Gang, Patterson Lecture, Lipinski Symposium
- Frequent media stories and quotes by TC faculty and researchers



## Academic Year 07-08 Highlights (III)

- Expansion and renewal of BAC; greater faculty involvement in BAC company research and stronger interaction fostered by TC
- New TC web presence: new look , updated web page
- Communication: Research Briefs, Success Stories

## Engagement and partnership in synergistic activities on campus

- *Infrastructure Technology Institute* (National DOT Center of Excellence; Schofer appointed new Director)
- *Center for Commercialization of Innovative Transportation Technology* (new US DOT Tier II Center)
- *Center of Energy-Efficient Transportation* (McCormick)
- *Energy and Sustainability Initiative* (NU-wide)
- *Northwestern Institute for Complex Systems*
- *Institute for Sustainable Practices* (joint w. Argonne)
- *Center for Operations and Supply Chain Management* (Kellogg)
- ***The Transportation Library***



## WHERE WE HAVE BEEN

- Innovator in defining transportation as cross-disciplinary field of research and study
- Innovator in building model of industry-university collaboration
- Leader in modern transportation systems education



## WHERE WE ARE

- Purveyor of high-quality education for transportation leadership
- Unique environment for industry-university interaction
- One of the most distinguished and engaged base of alums in industry, government and academia
- Dynamic environment for transportation innovation



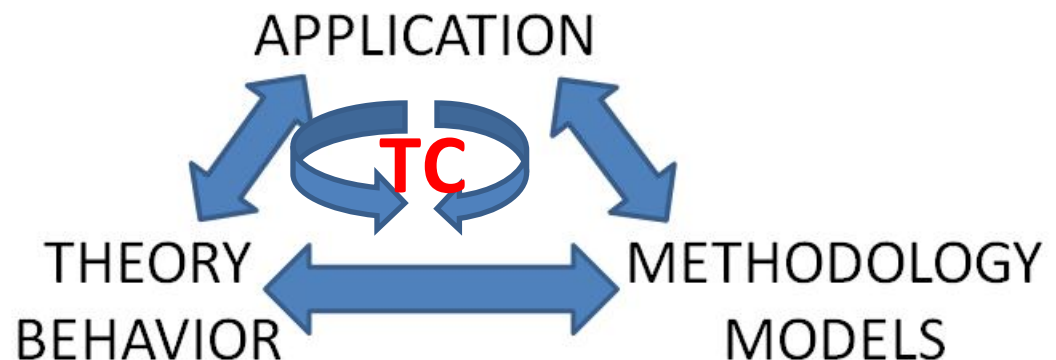
## WHERE WE ARE HEADING

- Pre-eminent think-tank and laboratory for cutting-edge transportation research “that matters” on a global scale
- Premier educational program in transportation systems
- Essential partner for novel, high-impact research
- Advance state of practice through mix of engaged application-driven research and fundamental advances



# HOW TO REACH STRATEGIC GOALS

- ENGAGE FACULTY AND STUDENTS
  - Core asset and mission
  - Intellectual stimulation, collaboration, partnering, exchange, opportunity-creation
- Facilitate “holy trinity”



## HOW TO REACH STRATEGIC GOALS (II)

- ENHANCE INTERACTION WITH BAC
  - Critical strategic asset, competitive differentiator
  - Essential stakeholders
- Add value to BAC involvement
  - Formulation of strategic research agenda; critical themes
  - Increased collaboration and research engagement
  - Executive education and special events
  - Leverage NU resources



# HOW TO REACH STRATEGIC GOALS (III)

- GLOBAL ALLIANCES
  - Networking at global scale w. universities, research centers, government labs and major operators
  - Through BAC
- Existing Collaborations
  - Canada: U of Montreal
  - Latin America: Chile (U Chile, Catholic U), Panama
  - Europe: TU-Delft (NL), INRETS (France), P. Catalunya (Barcelona, Spain), DLR (Germany), VTT (Finland), TOI (Norway), Volvo Research (Sweden), ETH-Zurich & EFTP-Lausanne (SW)
  - Middle East: AUB (Lebanon), Saudi Higher Education Ministry, Technion (Israel)
  - Asia: IIT-Madras (India), various universities in China, Taiwan, Hong Kong



# RESOURCE NEEDS



- FACULTY
  - Engage across NU schools
  - One hire in coming year; additional strategic hire in next 3 years
- STUDENTS
  - Recruit, attract and retain best and brightest
  - See “funds” below
- STAFF
  - Excellent dedicated core staff
  - Build up in coming year: Associate Director for Strategic Partnerships and Industry Liaison, Communicator.
- FUNDS:
  - Research grants/contracts
  - Contributed funds for seed research, student fellowships

