Our Transportation Center: Highlights and a Look Ahead

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Presentation to the BAC October 22, 2008
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