

Our Transportation Center: Looking Ahead

Hani S. Mahmassani

Presentation to the BAC
October 26, 2011



Strategic Vision: A Refresher

- Pre-eminent think-tank and laboratory in the world for *cutting-edge research that matters* on a global scale.
- Provide the *premier educational program* in transportation systems.
- Essential academic partner for *novel, high-impact collaborative* research.
- Advance state of practice industry applications through a mix of engaged *application-driven research* and *fundamental advances*.

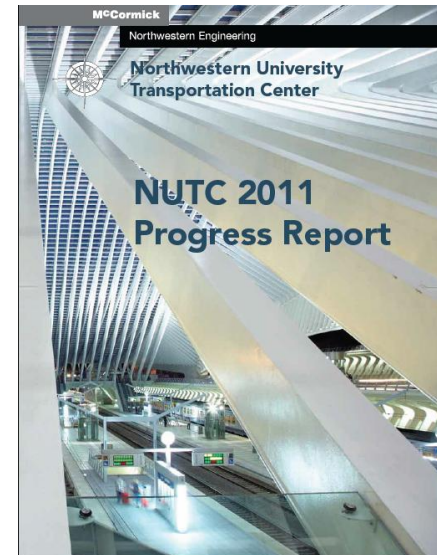
Progress Highlights: 2011- (I)

BAC Membership

- **11** new companies, **13** new members

Sponsored Research Activity

- Active: **22** projects **\$2.22 M**, **10** faculty
- Submitted: **19** proposals, **\$5.71 M**, **10** faculty





Progress Highlights: 2010-2011 (II)

Executive Education

- 2011 – Partner with Chalmers University, Supply Chain & Management program (open to 5 BAC members)
- 2012 – Freight Transportation & Logistics – Delivering Value in a Volatile Market

International Technical Assistance

- New National Transportation Center for Ministry of Transport, Kingdom of Saudi Arabia

Outreach, Events, Public Policy

- 2011 Annual William O. Lipinski Symposium on Transportation Policy – *High Speed Rail: Perspectives and Prospects.*
- Launched Inaugural Leon N. Moses Distinguished Lecture in Transportation



BAC: New Member Companies (I)

CRST International



The National Industrial
Transportation League



Pacer International



Matson Integrated
Logistics



Panama Canal
Authority



BAC: Target Sectors for New Members

Shippers with significant logistics operations

International Carriers

Trucking / Logistics companies

Transportation Equipment / Systems Manufacturers

Technology Providers





BAC: New Members Here Today (I)



Michael Broaders
*Vice President, Regional
Field Operations Product
Supply, Midwest Region*



Marc Bumgarner
VP Planning & Acquisitions





BAC: New Members Here Today(I)



Ed Feeley

Managing Director

LITTLEJOHN & CO.



Andrew Fox

President



CHICAGO SOUTH SHORE & SOUTH BEND RAILROAD



BAC: New Members Here Today(II)



John Smith
Chairman of the Board



Jeff Starecheski
*Vice President of
Logistics Services*



Students: Our Core Mission (I)

- TC adds *value to student experience* through industry exposure, seminars by authorities in the field, travel funds for conferences, fellowship stipends— essential differentiator for recruiting top talent
- Many opportunities for *undergraduates* interested in transportation; increasing engagement in research, *internship* placement with *BAC companies*
- *Industry support is critical* to our mission and to making a Northwestern Education in Transportation the unique experience it is.

Students: Our Core Mission (II)

- 3** *Dissertation Year Fellows* (2010-11)
 - 10** *New graduate students* in Fall 2011
 - 3** *Transportation & Logistics* graduating seniors
- 17 T&L students in all classes

Students: Dissertation Year Fellows

Laurence Audenaerd (Civil & Env. Eng.)

Bringing Short-Haul Air Down to Earth: Exploring the Trade-Space of Mode Substitution for Regional Air Passenger Transport Markets

Guy Arie (Kellogg)

Multi-Market Contacts in the Airline Industry: Theory and Evidence

Yang Liu (Civil & Env. Eng.)

Welfare Effects of Congestion Pricing on Travelers with Different Value of Time: Strategies to Enable Transportation

Research Proposal (I) VREF

Volvo Research and Educational Foundations

- Centre of Excellence for Managing Freight in the Urban Transport Situation
 - **Northwestern Center for Urban Freight and Logistics Optimization (NUFLO)** - \$3,600,000 4 year program
- BAC Partners



- City Partner: Chicago





Research Proposal (II)



US Department of Transportation Center

- University Transportation Center
 - *Center for Multimodal Connected Transportation Systems* - \$3,500,000 2 year program

- Partnership: NUTC, ITI, UIUC, UIC, UKentucky

- BAC Leadership



- Agency support



Chicago Metropolitan Agency for Planning

Recent or new research
engagements with BAC and other
industry partners



CenterPoint Properties®



Looking Ahead

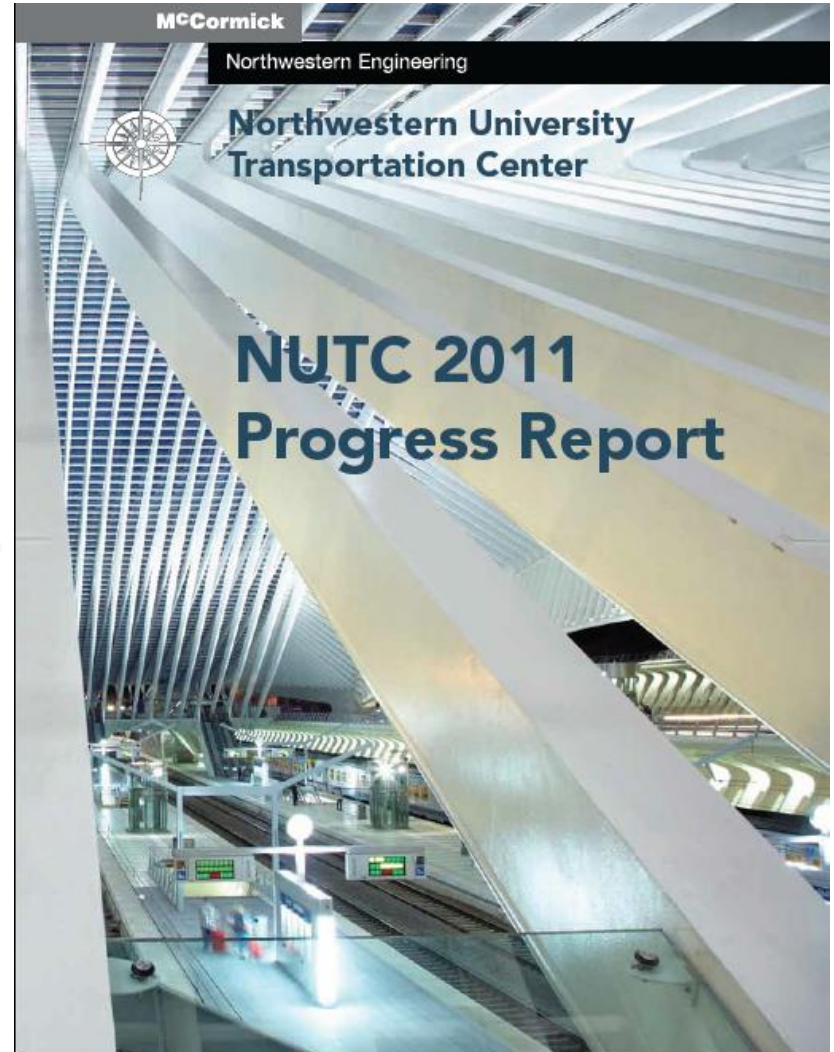
- New faculty hire in Transportation (demand/planning/sustainability)
- Strategic additions to BAC
- Research engagement with at least two more BAC companies
- Moving forward with big initiatives – if successful
- Raising endowment for Leon N. Moses Distinguished Lecture

Closing Thoughts

- Challenging times in the transportation sector—industry, public sector
- **AT NORTHWESTERN**
 - Uniquely successful industry-engaged approach to transportation research and education
- What we do at the NUTC matters
 - BAC engagement and support critical to what we do, and how well we do it



**MORE
HERE**





Thank you!