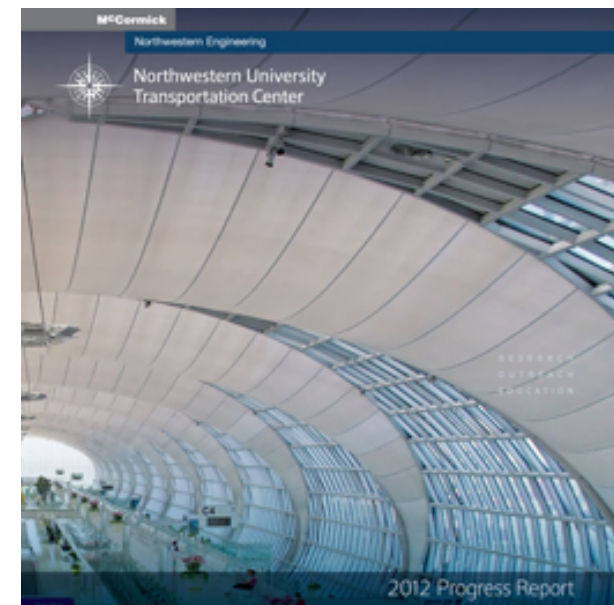


Our Transportation Center: Effective, Active, Connected

Hani S. Mahmassani

Presentation to the BAC April 25, 2013



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: 2012- 2013 (I)

BAC Membership (since last meeting)

- **6** new companies (**5** new members)

Funded Research Activity

- Active: **25** projects **\$3.31 M**, **9** faculty
- Submitted: **6** proposals **\$9.72 M**, **20** faculty

Graduate Students

- **20** supported via research projects
- **4** supported via dissertation year fellowships
- **\$514k** in support (travel, tuition, stipend, fellows, etc.)



BAC: New Sustaining Companies

AMP Americas



AMPAMERICAS

Jones Lang LaSalle



Real value in a changing world

Neovia Logistics



Peapod



Schneider National



U.S. Bank



BAC

New Directory



BAC Members: Awards / Honors (I)



Andrew Boyle

Appointed to – ***Research Advisory Committee***
of the American Transportation Research
Institute



Norm Carlson

Appointed to: ***Metra Board of Directors***



Ann Drake

2012 Distinguished Service Award from
Council of Supply Chain Management
Professional

BAC Members: Awards / Honors (II)



Bill Graves, ATA

2012 Executive of the Year from National Industrial Transportation League



Matt Rose

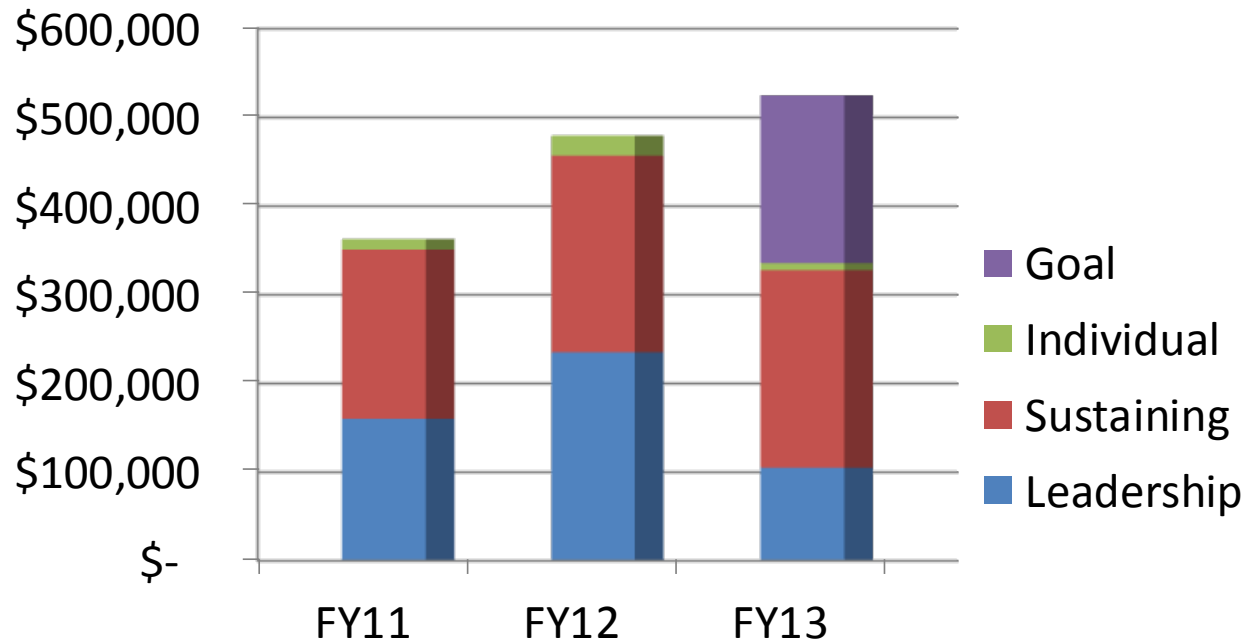
2013 Horatio Alger Award from Horatio Alger Association of Distinguished Americans



Jeff Silver

Named a 2013 TechWeek100 Honoree

BAC Contributions: FY11, FY12, FY13



GOAL

BY APRIL

ACTUAL

FY 11	\$350,000	\$260,000	\$363,000
FY 12	\$400,000	\$257,000	\$464,500
FY 13	\$525,000	\$335,500	?



Research Competition (I)

USDOT, University Transportation Center Program

- National Transportation Center 
 - up to 5 Awards, \$3M /year for 2 years
- Tier I Center 
 - up to 20 awards, \$1.5M /year for 2 years
- Regional Center 
 - up to 10 awards, \$2.75M / year for 2 years



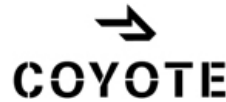
Research Competition (II)

National Transportation Center on Global Competitiveness



Partners: NUTC, USC, RPI, UIUC, TX Southern, Chicago City Colleges

- BAC Leadership



- Agency / other support





Research Competition (III)

Center for Connected Transportation Systems (Tier 1 Center)



Partners: NUTC, UIUC, UIC

- BAC Leadership
- Agency support
- Other support



Hosting International Research Conference

Kuhmo NECTAR Conference and Summer School
on Transportation Economics

2013 ANNUAL CONFERENCE OF
THE INTERNATIONAL TRANSPORTATION
ECONOMICS ASSOCIATION

Chair: **Prof. Ian Savage**,
NUTC faculty affiliate

Keynote Speaker:
Charles Manski, *Board
of Trustees Professor of
Economics at NU*

Summer School:
Monday-Wednesday,
July 8-10, 2013

Conference:
Wednesday-Friday, **July
10-12, 2013**

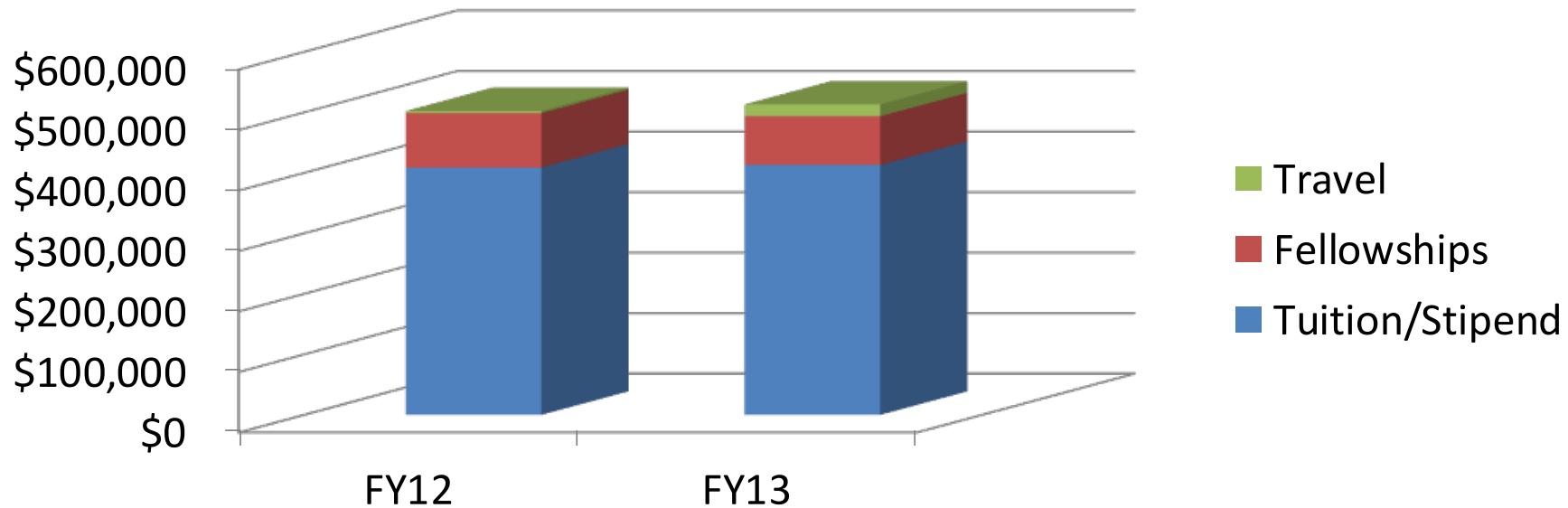
Inviting attendees and summer school students

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)

Direct Student Funding Through NUTC



Selected Outreach Activities (I)

Sandhouse Gang – Chaired by Norm Carlson

- 9/2012 – 12/2012
 - The Great Railroad Revolution: The History of Trains in America
 - State of Good Repair and Beyond: Analyzing Metra's 2013 Strategic Plan
 - A New Shortline Model
 - Transportation Trends and Investment Implications
- 1/2013 – 5/2013
 - The Enduring Legacy of the Chicago North Shore & Milwaukee Railway
 - State of Good Repair and Beyond: Analyzing Metra's 2013 Strategic Plan
 - Chicago Transportation Coordination Office (CTCO) and CREATE – A Progress Report
 - The Value in Writing Railroad History
 - Amtrak's Relations with its Host Railroads
 - *Intermodal from Birth to Maturity (upcoming, May 7)*

Selected Outreach Activities (II)

Research Activities - Industry

- **Echo Global Logistics**
- **US Bank**
- **Centerpoint**
- **Nokia**
- **Coyote Logistics**



CenterPoint Properties*



Strategic Guidance – Public Sector

- **World Business Chicago Transportation & Logistics Strategy Committee**

- Shape public policies and public investments that enhance Chicago's position in transportation and logistics through innovation
- NUTC: Hani Mahmassani, Bret Johnson
- BAC Members: Ann Drake, Paul Fisher



WORLD
BUSINESS
CHICAGO



Selected Outreach Activities (III)

Executive Education



**Freight Transportation and Logistics:
Delivering Results in a Volatile
Environment**

September 9-11, 2013 (planned)

Selected Outreach Activities (IV)

International Outreach

- New National Transportation Center for Ministry of Transport, KSA: Strategic plan and design completed
- Crowd dynamics and mobility studies, Umm-Al-Qura University, KSA
- New Energy R&D City in KSA: Strategic planning exercise
- Active collaboration with TU-Delft (NL), EPFL (Lausanne, CH) and KTH-Stockholm (SW) in various areas.
- Rajawali Corporation – Jakarta, Indonesia
 - Executive Education Program launching in August 2013
 - Additional opportunities related to new 300 mile freight transportation rail line in Sumatra: infrastructure, economics, development, policy

Selected Outreach Activities (V)

Visiting Scholars in Residence

- **Dr. Jonathan Hall** – Don Searle Post-Doctoral Research Fellow in Economics, Northwestern University
- **Dr. Vera Hemmelmayr** – Institute for Transport and Logistics Management, Vienna University of Economics and Business
- **Dr. Jin Qin** – Associate Professor, Central China University
- **Dr. Ping (Shannon) Xu** – Lecturer, Shanghai Jiao Tong University



**MORE
HERE**



Closing Thoughts

- Considerable research opportunities and needs in the Transportation sector, and growing gap in educated workforce at many levels.
- **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



Thank you!



BAC: New Sustaining Members Here Today



Michael Brennan
SVP & COO



James Hertwig
CEO



Kimberle Kennedy
SVP



BAC: New Sustaining Members Here Today



Paul Schneider
Director, Corporate Development



Richard Thompson
*Managing Director, Supply Chain
& Logistics Solutions*



BAC: New Sustaining Members with Legacy Companies Here Today



Stefan Loeb
*Senior Client Partner, Global
Section Leader*



Ogi Redzic
VP, Traffic & Automotive Cloud



BAC: Target Sectors for New Members

- Shippers with significant logistics operations
- International Carriers
- Trucking / Logistics companies
- Transportation Equipment / Systems Manufacturers
- Technology Providers