2015 NUTC Business Advisory Council faculty introduction

Amanda Stathopoulos

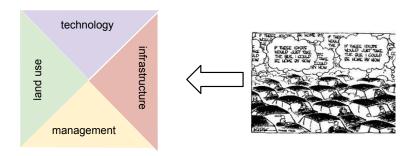
Assistant Professor

Dep. of Civil & Environmental Engineering

April 21st 2015

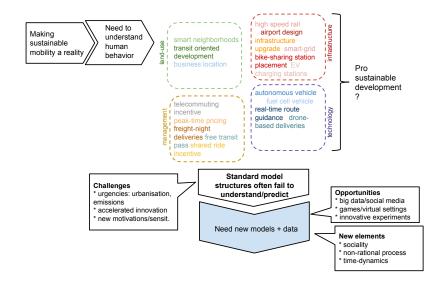


Need to deliver efficient and sustainable transport solutions



Put human behavior at the center of transport policy

Sustainability policies require models



Example of past industrial collaborations



Past Industry collaboration

Constellium new material launch: how price? What market?



Design experiment for OEM's, analyze data

Innovative feature

Company decision process, behavior-based pricing, predict willingness-to-pay



PSA group: Car market of the future? Plan launches. Model large data-base, forecast scenarios

Transaction model with policies, trends, supply



Nissan: electric vehicle dynamics?

Design experiment + analyze incar data Model process of adoption, experience and changed driving patterns

New ideas at NU



Current work

Crowdsourced **Urban Delivery**



Behavior + Optimisation



New, big, innovative data

What?

Interview, model 'crowdshippers'

Experiment, integrate

Collect, analyze

Innovation

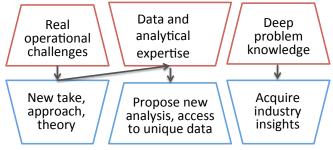
Sharing and crowdresources

Fusing frameworks

Define multimethod strategies

Synergies

Industry partner



Academic partner



Further contact

Thank you for your attention: Questions?

E-mail: a-stathopoulos@northwestern.edu http://www.civil.northwestern.edu/people/profiles/stathopoulos.html

Trackrecord

Research Grants

- Swiss National Science Foundation Large Scale Location Data for the Advancement of Route Choice Models, with Ph.D Evanthia Kazagli (2013-2016)
- PSA Peugeot Citroën "A dynamic vehicle choice forecasting framework, with Ph.D Aurelie Glerum (2012-2013)
- Constellium / Innovation Cells Development of a choice experiment adapted to evaluate market viability and pricing strategy of a novel aerospace product applied in a real decision context, analysis of the B2B perspective (2012)
- Nissan electric vehicle adoption dynamics: exploring market potentials, with Ph.D A. Fernández Antolín), (2014-2017)