

State Smart Transportation Initiative

Practical Solutions to Move America Forward



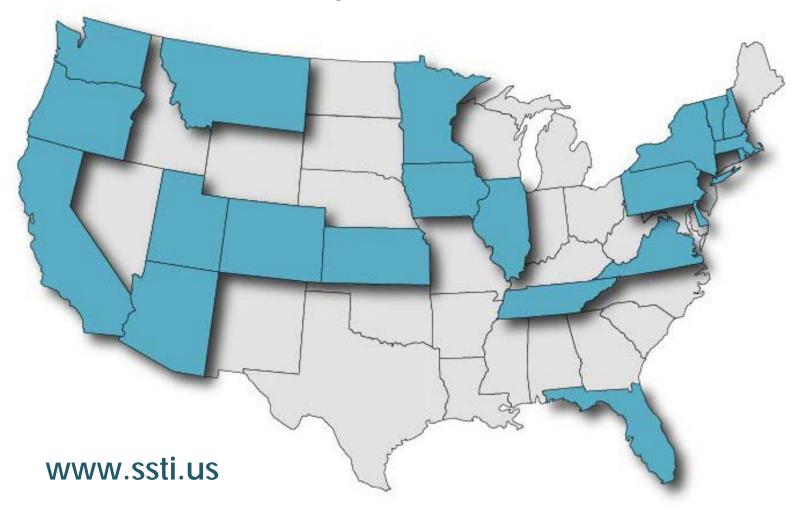
Accessibility Measures: Madison, WI; Sacramento, CA; and Virginia

Chris McCahill, PhD Senior Associate

> Moving Towards a Sustainable California Berkeley, CA – August 9, 2016

State Smart Transportation Initiative

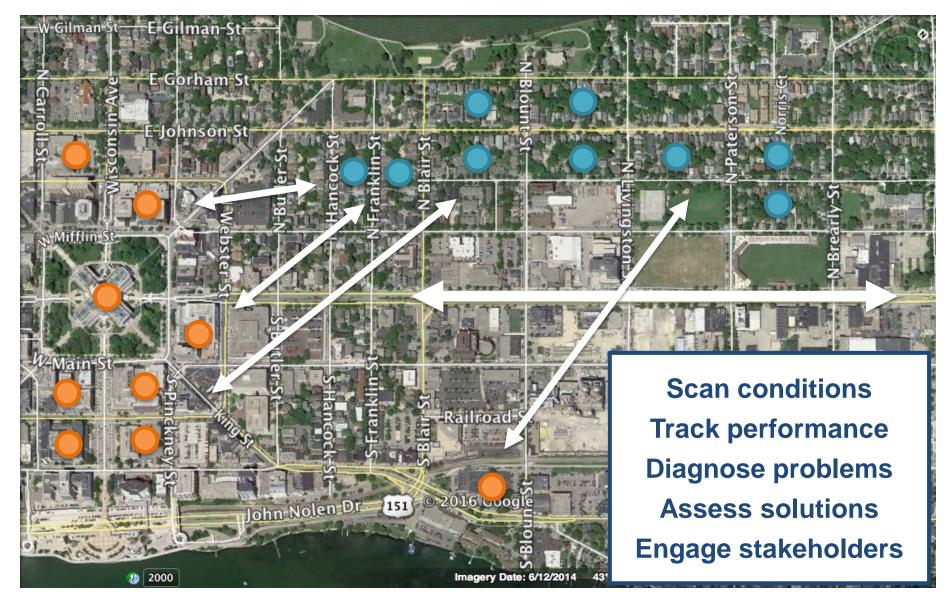
A network of reform-oriented DOTs, housed at the University of Wisconsin-Madison.



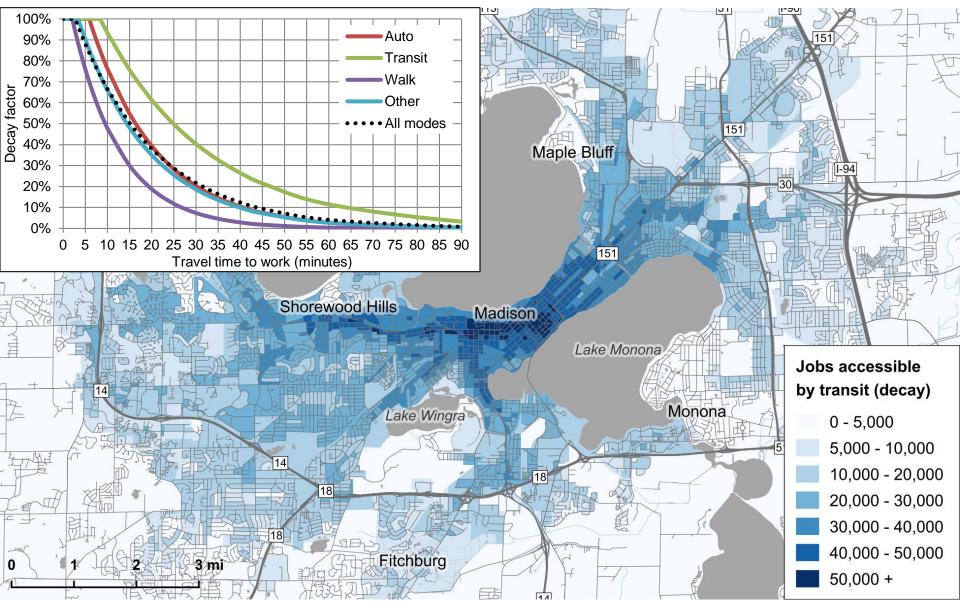
Why measure accessibility?



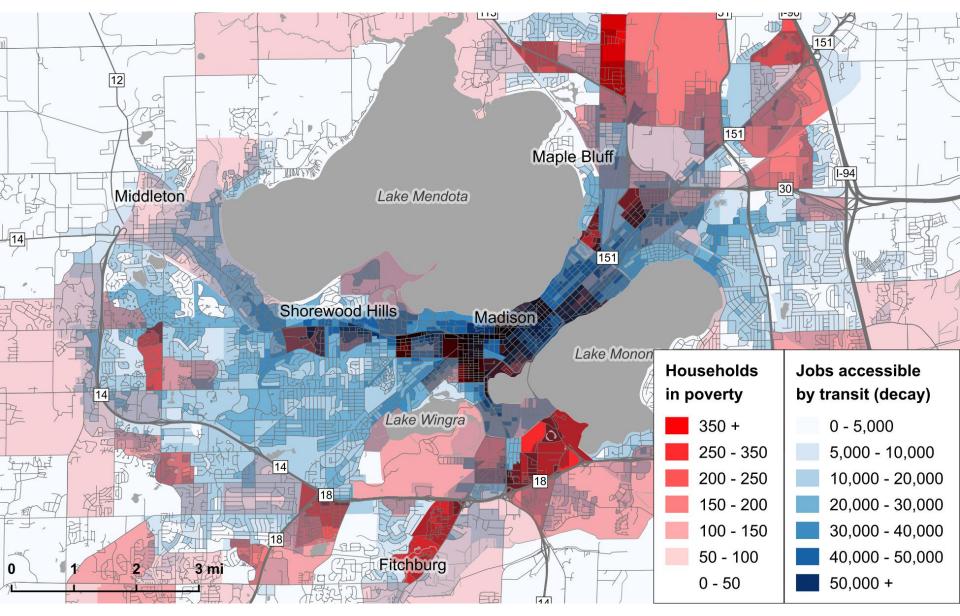
Why measure accessibility?



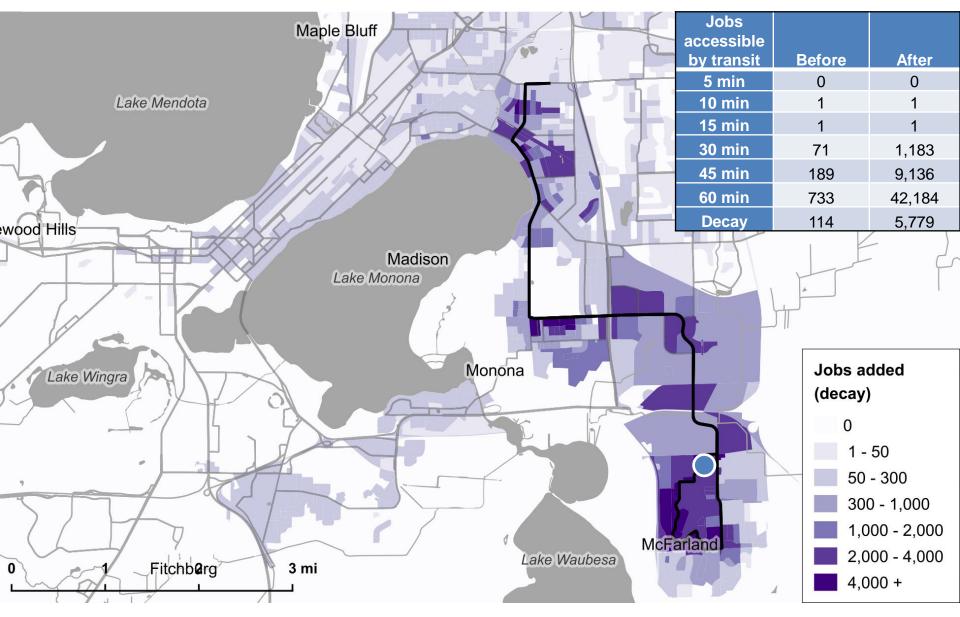
Access to Jobs by Transit



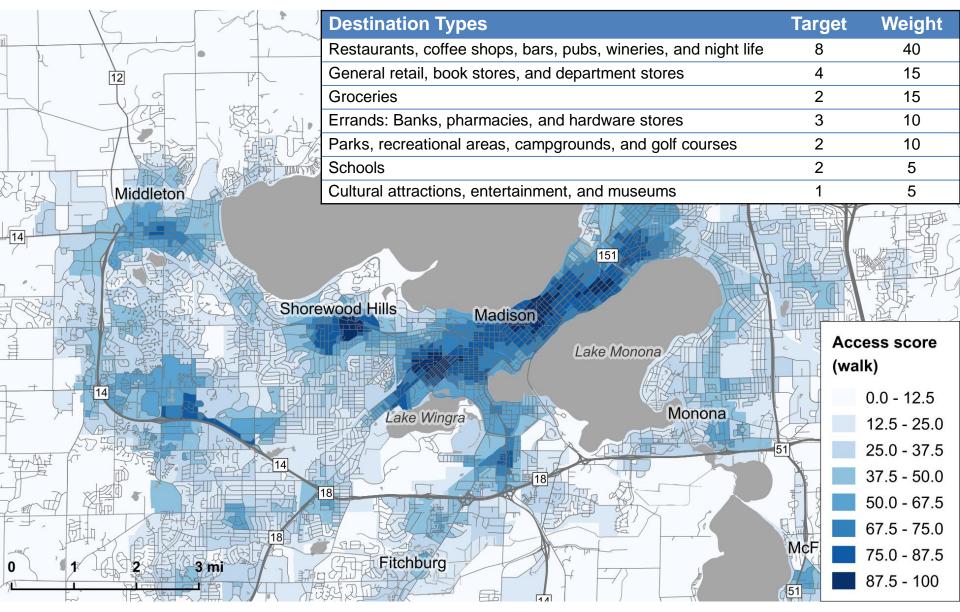
Access to Jobs by Transit & Poverty

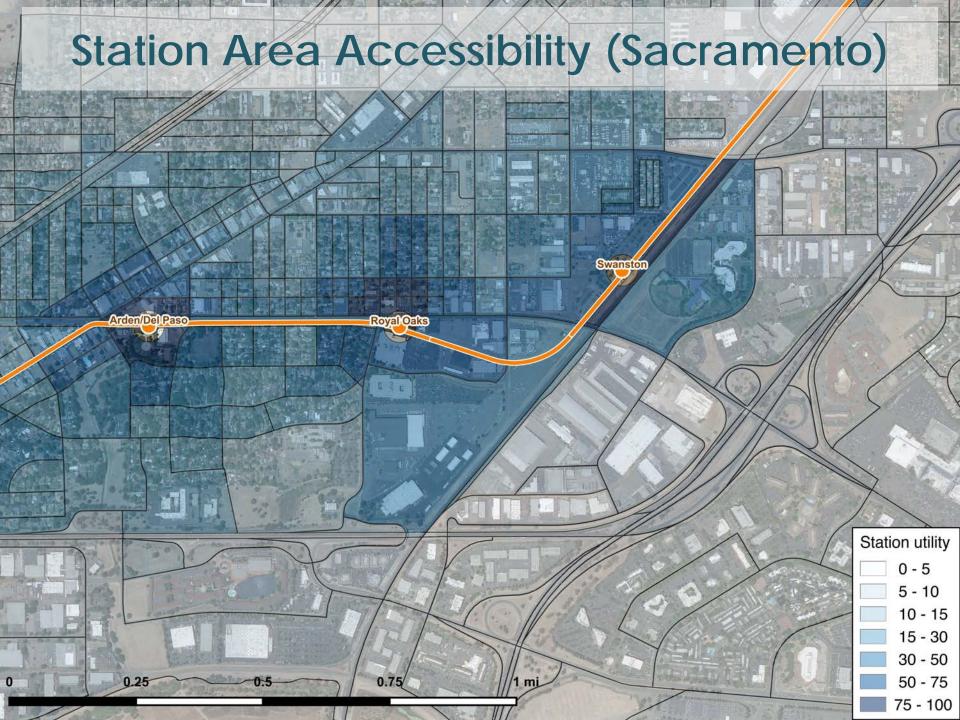


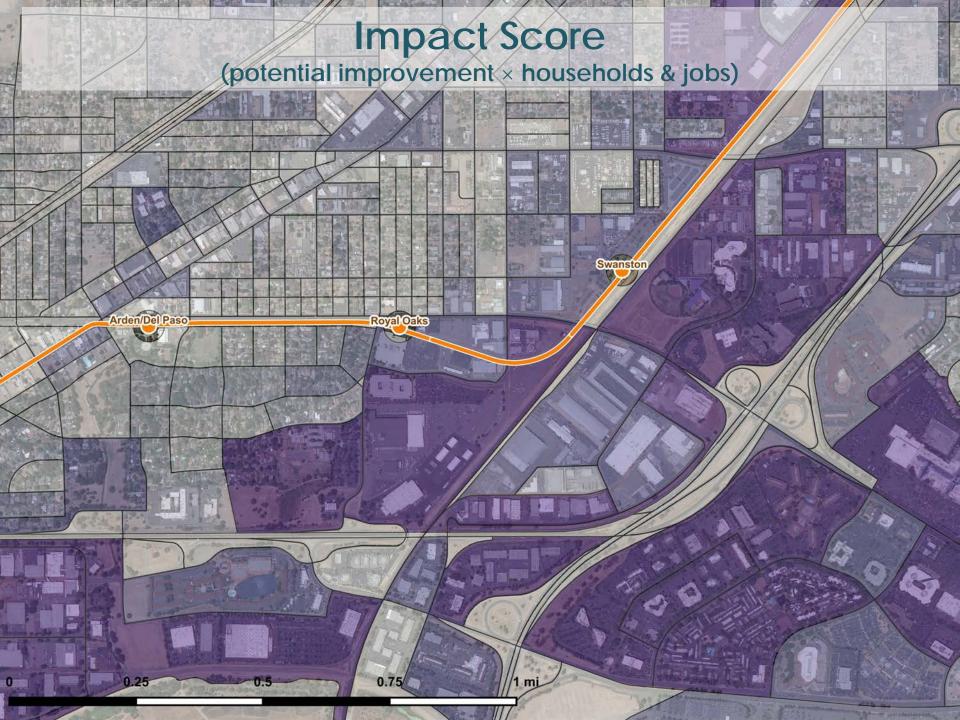
Project Evaluation: Route 31 Bus



Non-Work Access: Walking







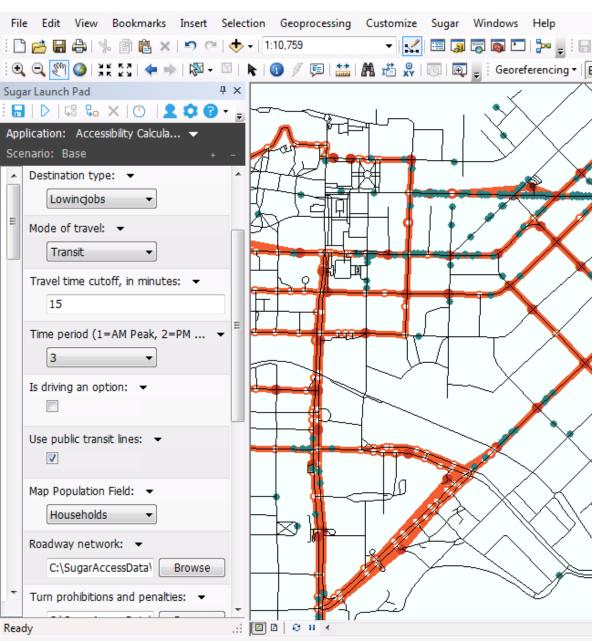
Smart Scale

Virginia's project prioritization, established under HB2 in 2014 and implemented in June 2015

Safety	 Number of fatal and severe injury crashes Rate of fatal and severe injury crashes
Congestion Mitigation	 Person throughput Person hours of delay
Accessibility	 Access to jobs Access to jobs for disadvantaged populations Access to multimodal choices
Environmental Quality	 Air quality and energy environmental effect Impact to natural and Decay-weighted job
Economic Development	 Project support for eq Intermodal access and Travel time reliabilit,
Land Use (Only required for MPOs with populations of more than 200,000)	 Land use policy consistency

Sugar Access

- Runs in ArcMap
- Data included with license:
 - Road network with travel times from HERE data
 - Bike and pedestrian network
 - Transit network from GTFS files
 - Block-level data including jobs
 - Points of interest from HERE data
- Customizable output



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