



*Accelerating solutions for highway safety, renewal, reliability, and
capacity*

SHRP 2 Smart Growth Scenario Planning Tool
New Partners for Smart Growth Conference
February 7, 2013



TRANSPORTATION RESEARCH BOARD
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Strategic Highway Research Program (SHRP-2)



Safety



Renewal



Reliability



Capacity

- ***Safety:*** Reducing crashes and saving lives through understanding driver behavior
- ***Renewal:*** Accelerating the renewal of America's highways
- ***Reliability:*** Reducing congestion through improving travel time reliability
- ***Capacity:*** Integrating *environmental, economic, and community requirements* into planning and design of new highway capacity projects

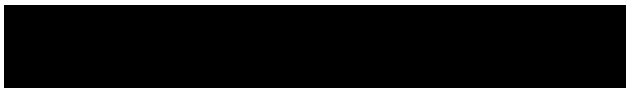
Why SHRP 2 Developed SmartGAP

- Research objective was to evaluate the effect of smart growth policies on travel demand
- Found plenty of research on the impacts of smart growth development on daily travel at the local level
- Little practical guidance for translating these insights for regional transportation planning
- Research identified the need for a tool to help make smart growth a component of regional congestion relief.
- The solution: SmartGAP



SmartGAP Scenario Planning Tool

- **Free, open-sourced, user-friendly software application**
- **Input different smart growth scenarios and estimate the effect on regional travel demand and other parameters**
- **Evaluates effects on sprawl, energy-reduction, active travel, and carbon footprints.**
- **Compares different scenarios**
- **Helps to prioritize new highway investments**
- **Assess what types of smart growth development are most suitable for given areas**
- **Three agency pilot tests**



The SmartGAP software tool, user's guide, and research report will be available on TRB's website:

- <http://www.trb.org/StrategicHighwayResearchProgram2SHRP2/SHRP2ResearchReports.aspx>

(Or just Google SHRP 2 Research Reports)





Thank you!

