Sustainable Transportation Access Rating System (STARS)

PSU Center for Transportation Studies
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Sustainable Transportation

What's the Problem?

What is STARS?

How Does STARS Work?

So What?

Status & Next Steps

Q & A

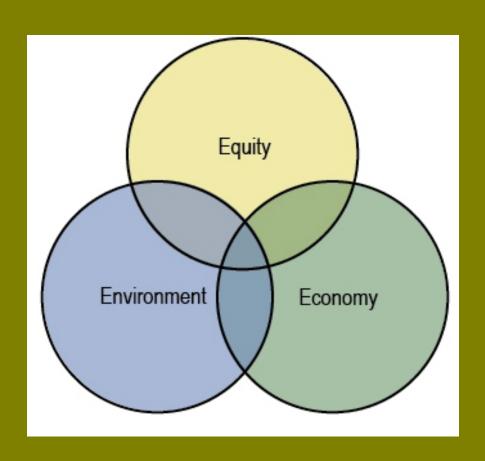
What's the Problem?

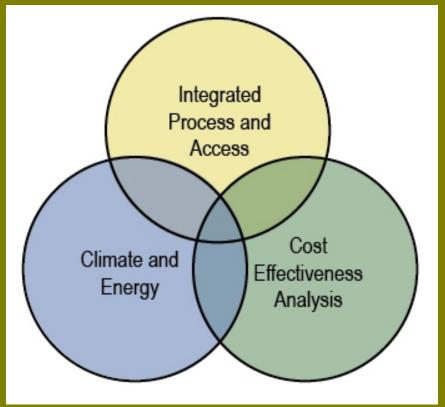
- Increasing congestion and delay
- Projects too expensive to be funded as planned
- Increasing oil dependence and climate pollution
- Billions of \$ flowing out of our communities for vehicles and petrol
- Too many "modal silo" transportation projects

= Unsustainable practice



STARS: Grounded in Sustainability





What is STARS?

Sustainable Transportation Access Rating System

"LEED for Transportation"

Framework for designing and/or rating transportation:

Projects

Employer Programs

Plans



Voluntary, national system for public agencies & private sector consultants

What is STARS?

Performance-based system focused on:

- Access
- Climate + Energy
- Cost Effectiveness

Multimodal: Compares performance across all modal strategies

Full life cycle (unlike other systems)

STARS-Project Under development ("Version 0.95")

STARS Goals

Transform transportation industry practice in order to:

- Improve access for all people
- Cut oil dependence and climate pollution
- Maximize cost effectiveness
- Move toward true sustainability

Who Is Developing STARS? North American Sustainable Transportation Council

- ☆ CH2M HILL: six Portland staff
- → Parsons Brinckerhoff: Portland, Seattle & San Francisco staff
- ☆ Confluence Planning: Kelly Rodgers
- ★ ECONorthwest: Terry Moore
- ☆ Bill Creger, David Evans & Associates
- ☆ Nicole Isle, Brightworks
- ☆ Eric Hesse, TriMet
- ☆ Paul Horton, Evergreen State College
- → Peter Hurley, Portland Bureau of Transportation
- ☆ Several peer reviewers (PSU, PDOT, WSDOT)

How Does STARS Work?

- Create a Multi-Disciplinary Team
- Sustainability Workshop
- Goals: Access, Climate + Energy, \$
- **Evaluate Strategies**
- Select Alternatives
- Implement
- **Monitor Performance**

Sample Project Scorecard

STARS Project Version 0.6						
Project	Name:					
Contact	:					
Yes	?	No				
			Project 1	t Totals		
			One Star points, Two Star points, Three Star points, Four Star points			
Yes	?	No				
			Integrati	ve Process	Project Phase(s)	
			IP 1	Comprehensive Pojrect Goals & Objectives (purpose & need)	Planning	
			IP 2	Multi-Discipline Project Team	All	
			IP 3	Public Stakeholder Engagement	All	
Yes	?	No				
			Access			
Required	t		A 1	Establish Mode Split Goal	Purpose &	Need
			A 2	Evaluate Expanded TDM Strategies	Alternative	s Analysis
			A 3	Evaluate Expanded TSM Strategies	"	"
			A 4	Evaluate Expanded Transportation Options	"	"
			A 5	Evaluate Expanded Land Use Strategies	II .	II .
			A 6	Implement Expanded Options, TDM, TSM and Land Use Strategies	Design, Im	plementation
			A 7	Access Performance	Operation	

Credit Structure

- Five "required" credits
- 24 optional credits
- Not all credits applicable for a project
- Credits accrued to earn certification
- Certification earned at:
- Completion of evaluation
- Implementation
- Performance: Operations

Status & Next Steps

- STARS Pilot Project Application Manual in final editing
- First pilot project: Santa Cruz Highway 1
- Seeking additional pilot projects
- Ongoing credit research
- Complete credit development
- Develop certification & training
- Fall 2011 national roll-out

Why Use STARS?

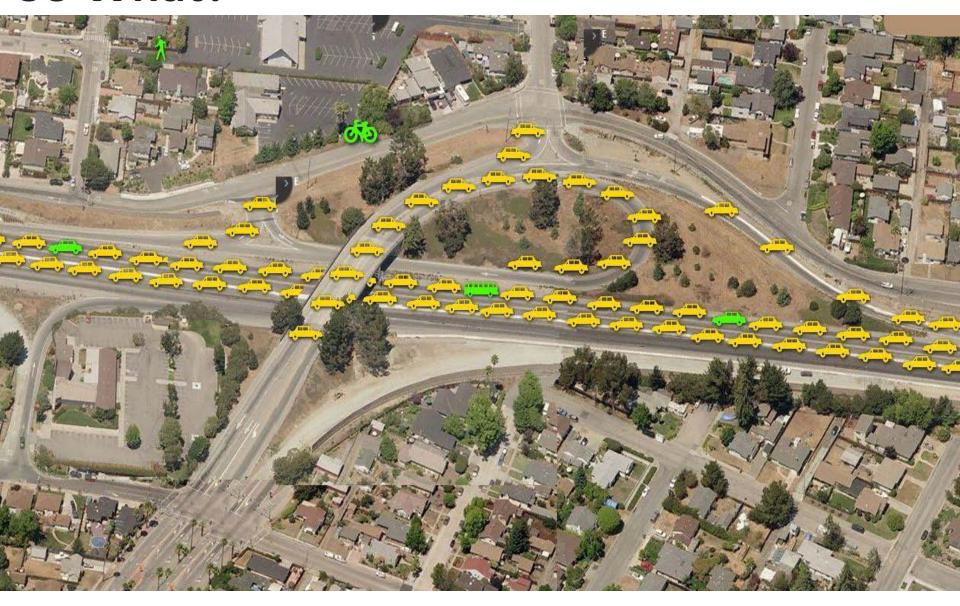
- Develop a project that achieves economic, environmental and social equity goals
- Increase the funding competitiveness of a project
- Boost the local economy
- Increase public engagement & support
- Lower project costs

Economic Benefits

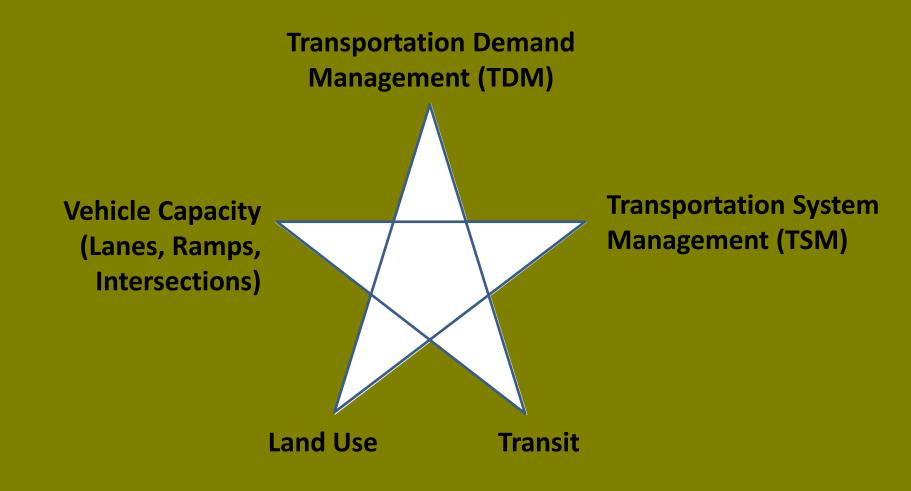
24.3 Median commute miles per day for 33 most populous US metro areas 20 3 Average daily miles for Portland area commute Miles saved compared to median Transportation costs saved compared to median \$15 per hour Estimated value of time spent commuting 100 million hours less traveled per year saves Total savings per year



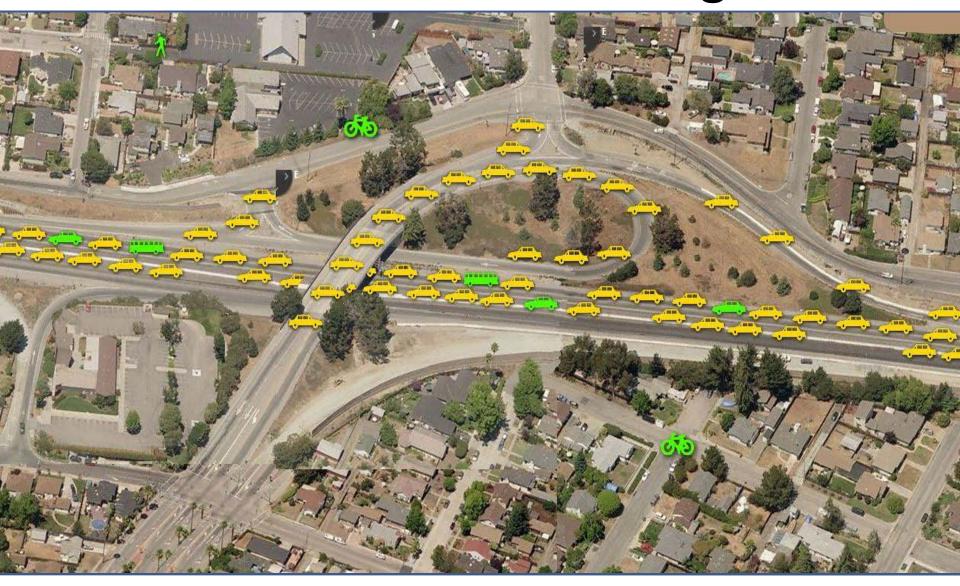
So What?



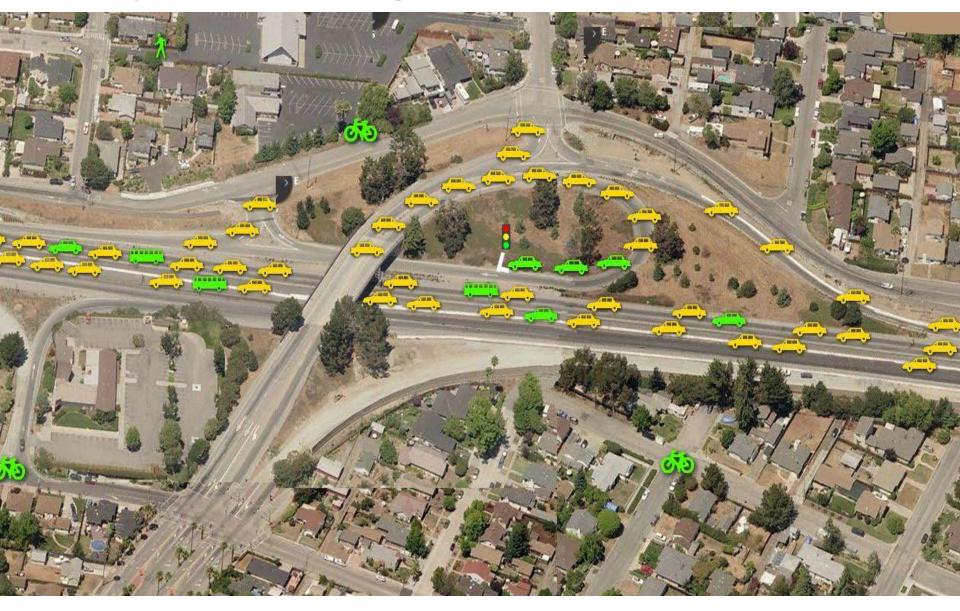
Integrates Strategies to Achieve Goals



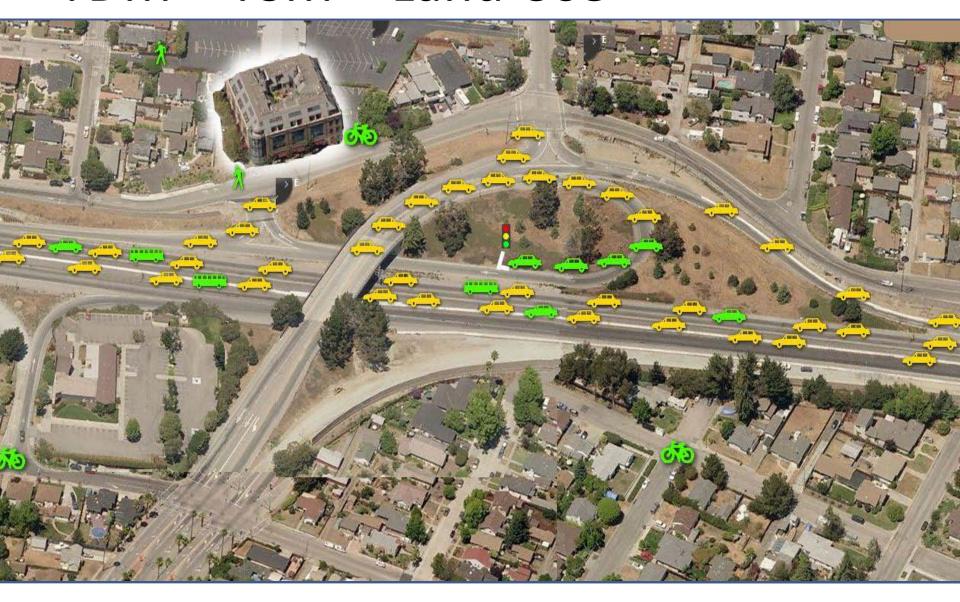
With Travel Demand Management



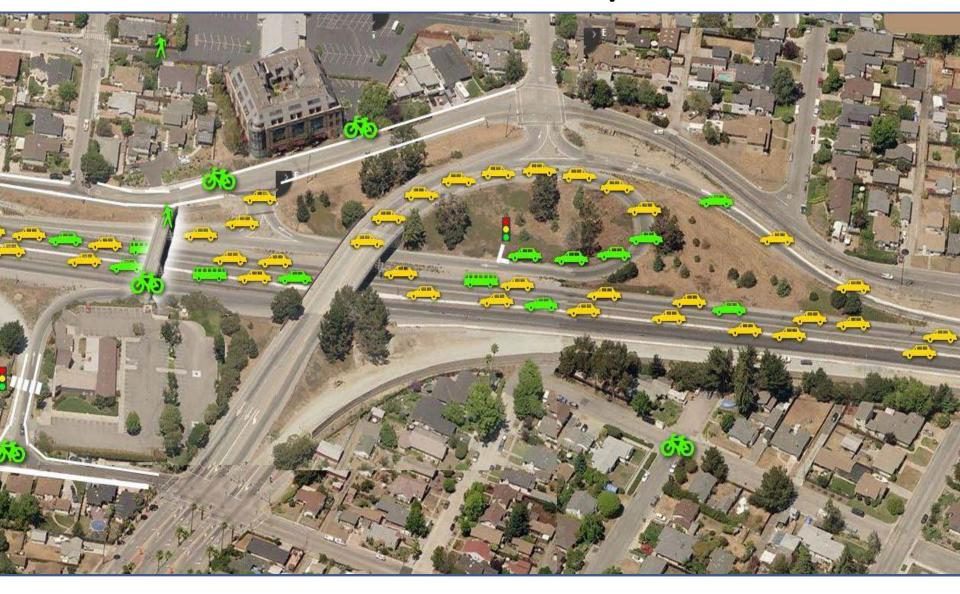
With TDM + TSM



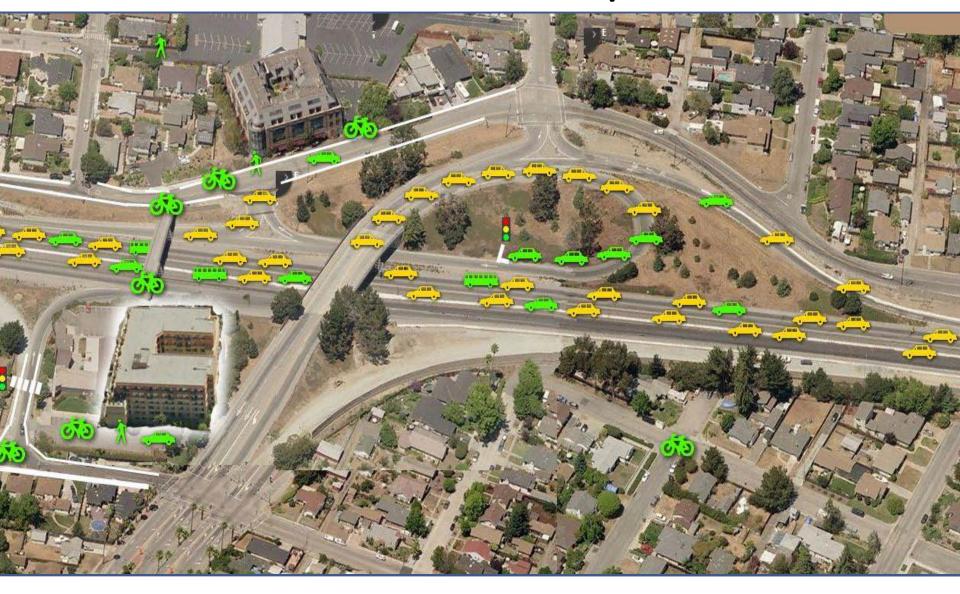
TDM + TSM + Land Use



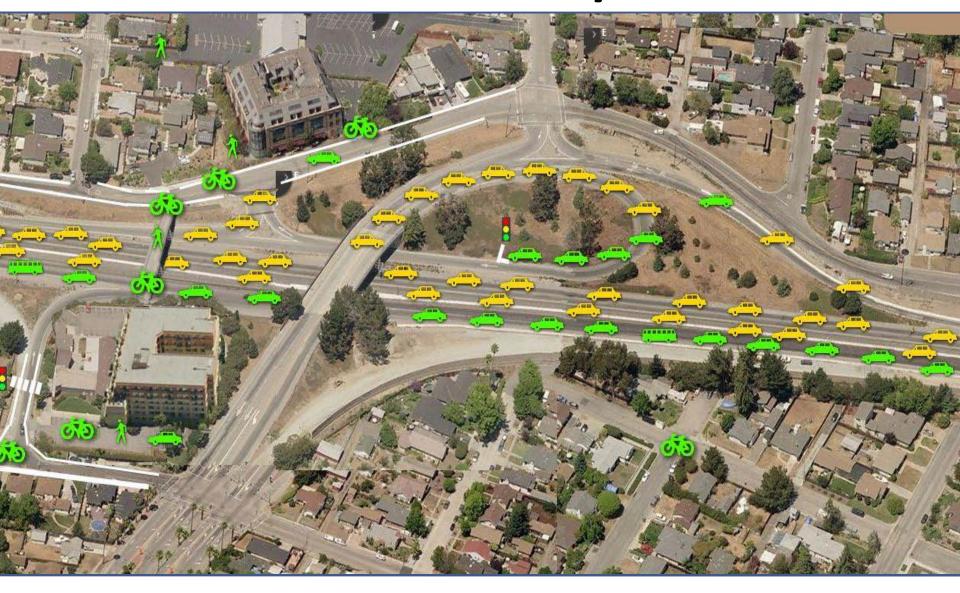
TDM + TSM + LU + Bike/Ped



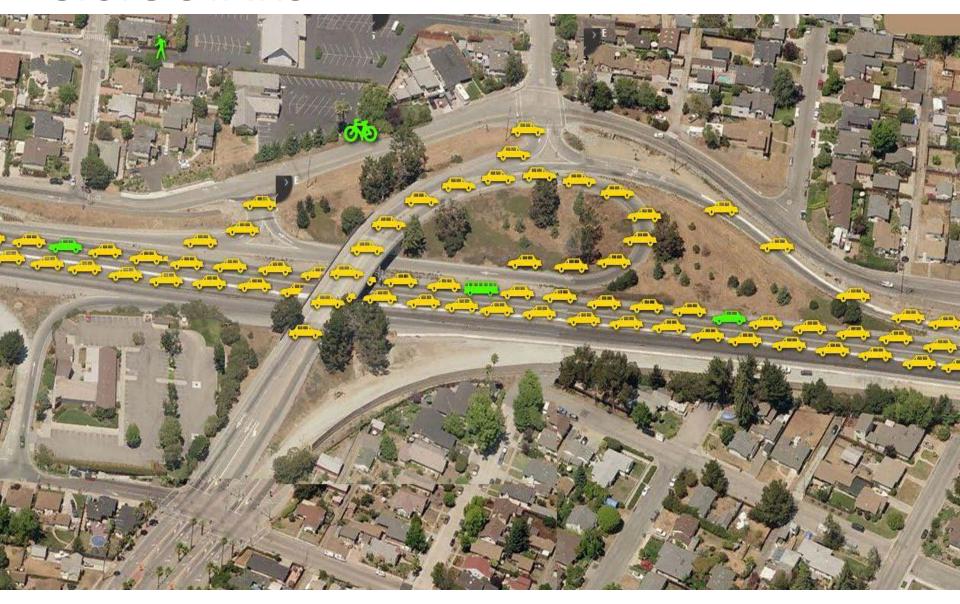
TDM + TSM + LU + Bike/Ped



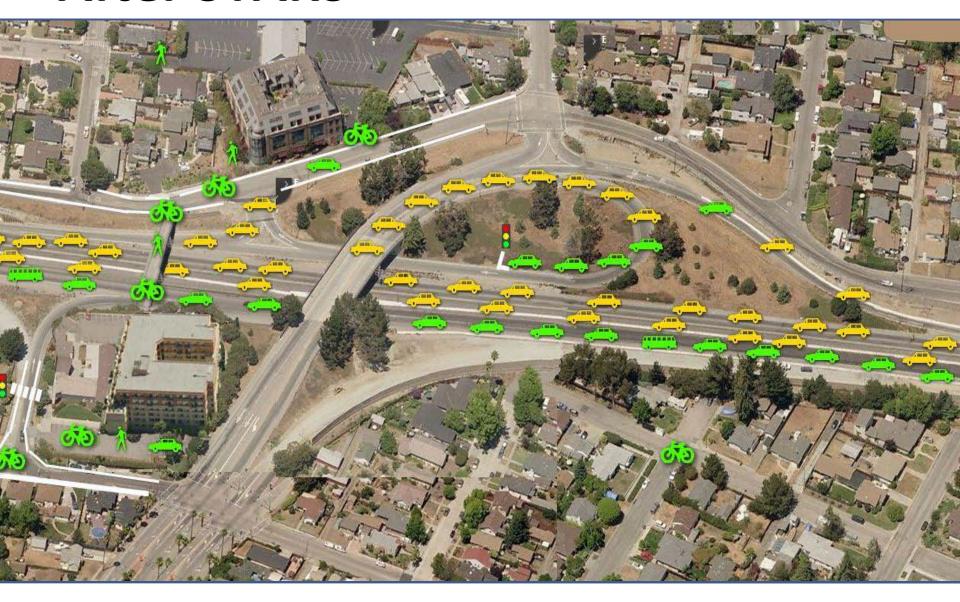
TDM + TSM + LU + Bike/Ped + Lanes



Before STARS



After STARS



Questions?

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