U.S. Best Practices on Transportation Planning for Healthy Communities *Polis Workshop on Promoting Active Travel Through Sustainable Transport April 8, 2014* 

William M. Lyons Volpe Center/Office of the Secretary/USDOT





I.S. Department of Transportation ederal Highway Administration

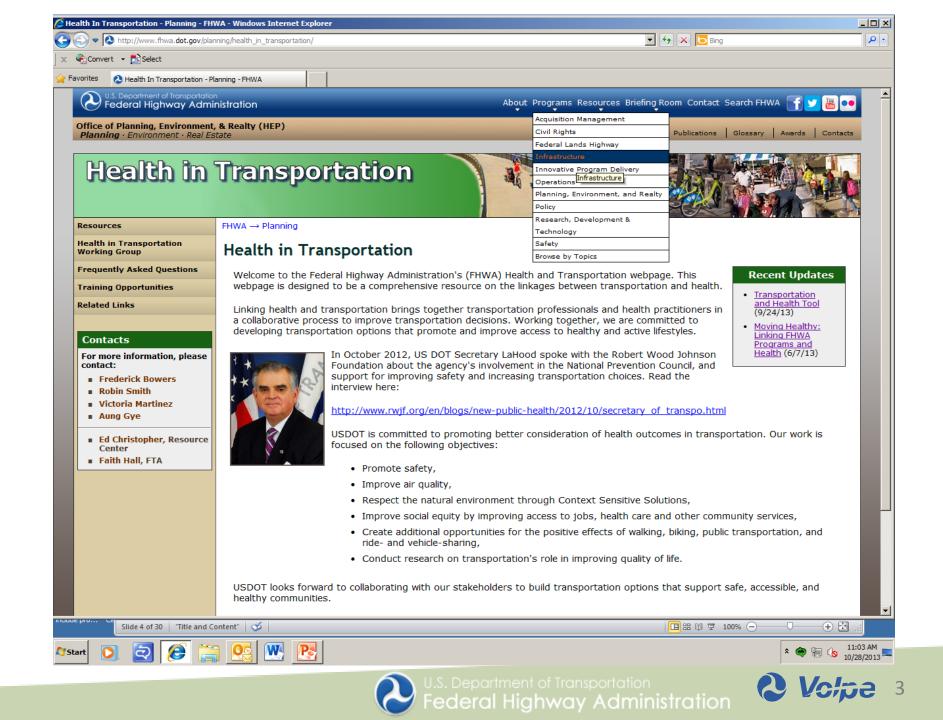




- Introduction: highlights of research for FHWA on Transportation Planning and Healthy Communities
  - Metropolitan area and statewide white papers
  - Evaluation methods for Nonmotorized Pilot Program: health focus
- 2. Opportunities and Challenges going forward Bringing health considerations into transportation planning and decisions







3. Update on Research on Transportation Planning and Healthy Communities

□ Best practice white papers

 Metropolitan Area Transportation Planning (MPOs)

□ Statewide Transportation Planning (DOTs)

Evaluation of Nonmotorized Pilot Program
 Health focus

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# Who, What, Why?

- Sponsor: Federal Highway Administration Office of Planning
- □ White Papers
  - "Metropolitan Area Transportation Planning for Healthy Communities" <u>http://www.planning.dot.gov/documents/Volpe\_FHWA\_MPOHealth\_12122012.pdf</u>
  - "Statewide Transportation Planning for Healthy Communities" (anticipated March 2014)
- Purpose
  - Identify best practices, challenges, and opportunities for integrating health into transportation planning

# A resource for transportation planners and public health partners





# **Context for white papers**

- □ Who and why?
- What do we mean by health?
- What do we mean by transportation planning?
- Where were the case studies?
- What did we learn?
- What did we conclude and what questions remain?





# Who, What, Why?

### □ Audience

- Metropolitan planning organizations
- State Departments of Transportation
- Other "Partners"
  - $_{\odot}$  Traditional: transportation
  - Non-traditional: State and local health organizations, among others
- Federal staff





### **Statewide and Metro Planning Framework**

Focus on the planning process

- Flexibility for state, regional, and local goals, strategies, priorities
- Emerging emphasis on performance
   Specific national goals and measures
- Implemented by all states and urban areas over 50,000



### **Statewide and Metro Planning Framework**

- Focus on:
  - A "3-C" Planning Process
    - Continuing, Cooperative, Comprehensive
  - Strategic planning
  - Performance of multimodal system
  - Intermodal planning
  - Products of the process
- □ Long Range Plan (SLRTP or MTP)
  - Strategic thinking 20+ year horizon
  - "Vision" and scenarios for region
  - Critical choices and trade-offs
- □ 4 year investment program (TIP or STIP)
  - Links Long Range Plan strategies to decisions
  - Focus on implementation
- Emerging emphasis on performance-based planning
  - Performance management
  - Monitoring

### **Statewide and Metro Planning Framework**

- Transition to performance and outcome-based program (MAP-21, 2012)
- National performance goals
  - Safety
  - Infrastructure Condition
  - Congestion Reduction
  - System Reliability
  - Freight Movement and Economic Vitality
  - Environmental Sustainability



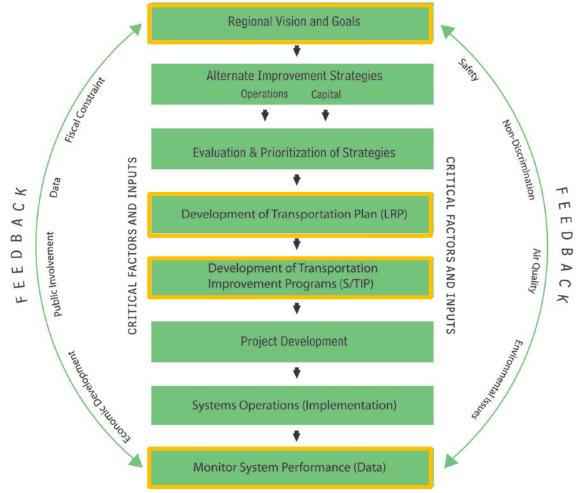
# What do we mean by transportation planning?

Metropolitan Area	Statewide
Metropolitan Planning	State Department of
Organization (MPO)	Transportation (DOT)
Metropolitan Transportation	Statewide Long Range
Plan (MTP)	Transportation Plan (SLRTP)
Transportation Improvement	Statewide Transportation
Program (TIP)	Improvement Program (STIP)





# What do we mean by transportation planning?



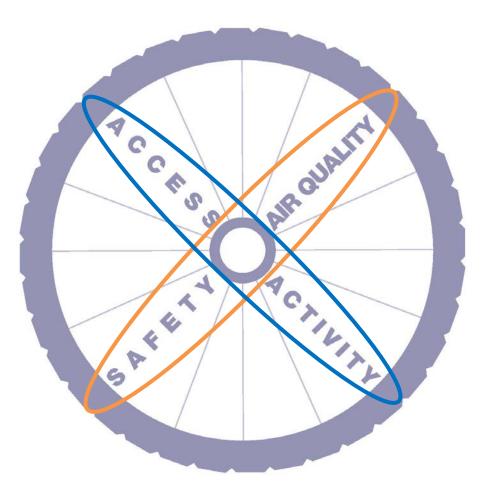
Source: FHWA/FTA Transportation Planning Process: Key Issues





# What do we mean by consideration of health?

- Holistic and comprehensive
- "Traditional" and "emerging"
- Explicit
- Forward-looking







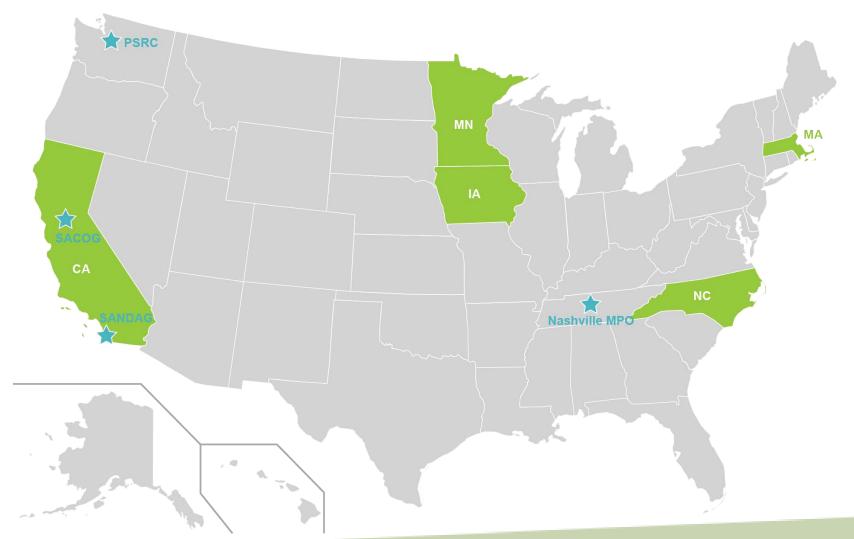
What do we mean by considering health in transportation planning?

- □ Comprehensive
- Explicit
- □ Forward-looking





### Where were the case studies?





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### Where were the case studies?

	fornia (Caltrans)
<ul> <li>Sacramento Area Council of</li> <li>Governments</li> <li>Min</li> </ul>	a (Iowa DOT) ssachusetts (MassDOT) nesota (MnDOT) th Carolina (NCDOT)

Criteria:

- Type and breadth of health-related activities
- Leadership and partnerships

- Institutionalization of health considerations into plans and programs
- Geographical diversity





transportation planning process

regional goals and vision

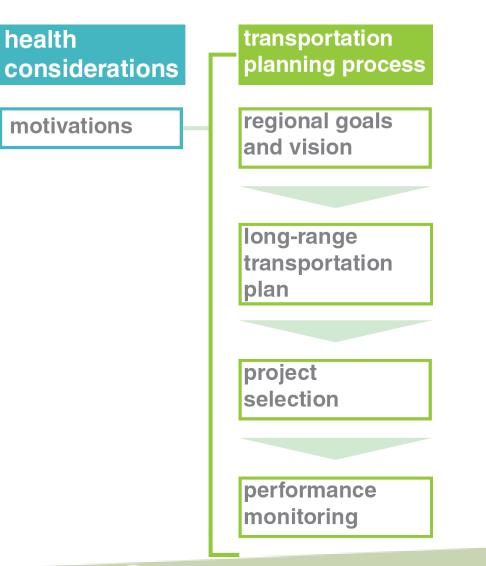
long-range transportation plan

project selection

performance monitoring









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### **Motivations**

MPOs	DOTs	
National priorities and programs		
State government		
Local government, community interest	Other State agencies	
Board	<b>Executive level</b>	
Partnerships with public health agencies		
Research and analysis		
Staff		



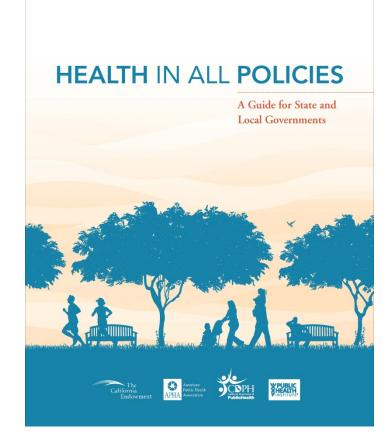


### **Motivations**

- State Initiatives
  - Nashville: TN Obesity Taskforce and Plan
  - Sacramento and San Diego: CA Sustainable Communities Strategy with GHG targets
- Special grants
  - CDC
    - Seattle, Nashville, San Diego: Communities Putting Prevention to Work Grant
    - San Diego: Community Transformation Grant
  - Nashville, PSRC, SANDAG: CDC grant
  - Sacramento: HUD Sustainable Communities Planning Grant
    - Involves health groups
    - Health performance measures for RTP
- □ Early partnerships
  - Seattle, Nashville, San Diego: MPO and county health staff



### **Motivations**

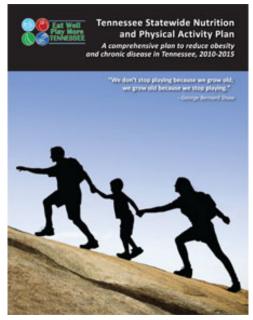


http://www.phi.org/resources/?resource=hiapguide





http://www.healthyworks.org



http://www.eatwellplaymoretn.org/





## **Early Actions**

MPOs	DOTs	
Partnerships		
Informal participation by public health partners	Relationship with State health department	
Federal grant programs/projects		
Documentation of health- transportation connection	Research studies	
Programs		
Research and analysis	Health or sustainability initiatives	
	Application to specific areas – healthcare access, active transportation, smart growth, climate change, SRTS, Complete Streets	





# **Early Actions**

#### Vision and Scenario Plans

- Sacramento Blue Print: transportation, land use, air quality scenarios
  - Active transportation, access for disadvantage populations
- San Diego: "mobility choices to support a sustainable and healthy region"
- Seattle: recognizes links between healthy environment, economy, and public health

#### Data, measures

- Nashville
  - Health survey: baseline on physical activity, disparity, food access
  - CDC collaboration to analyze built environment/transportation, health links
- San Diego
  - Healthy Communities Atlas: walkability, school/health/food access, bike/ped safety, low mobility areas
  - Health Impact Analysis and Training

#### Health Partnerships

- Nashville: local health department, Safe Routes to School, CDC
- Seattle: 3 county public health agencies; technical committees



# **Early Actions**

#### Middle Tennessee Transportation and Health Study

Invited to Join?



Invited to join? Complete a Household Questionnaire. Start Here

Step 2 Record your travel on your assigned day using your travel log. Learn More...



Step 4 If selected, complete the additional Health Survey. Take Health Survey



Welcome! The Middle Tennessee Transportation and Health Study is sponsored by the Nashville Metropolitan Planning Organization, the Clarksville Urbanized Area

Transportation. If you have received a participation letter, please Start Here to begin the

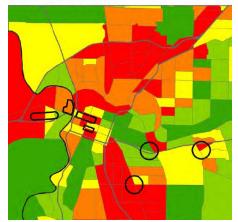
Report Travel

Metropolitan Planning Organization, and the Tennessee Department of

Every day, thousands of people move through the middle Tennessee region—in cars, on buses, by foot, on bikes. To plan for the projects of *tomorrow*, we need to understand how you travel *today*. Your participation in this important survey will help improve the future of transportation for all of us.

www.middletnstudy.com

**Vulnerability Index** 



http://www.sacog.org/sustainable/



http://www.kingcounty.gov/transportation/HealthScape.aspx





# **Structural Changes**

MPOs	DOTs
Vision or MTP goals	Integration into plans/documents other than SLRTPs/TIPs
TIP project selection criteria	
Performance monitoring	
Staff capacity	Technical assistance to local governments
Heath-related technical and advisory committees	
Formal membership by health partners	

Tools and analyses (e.g., HIAs)





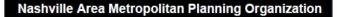
## **Structural Changes**

#### Long Range Transportation Plan

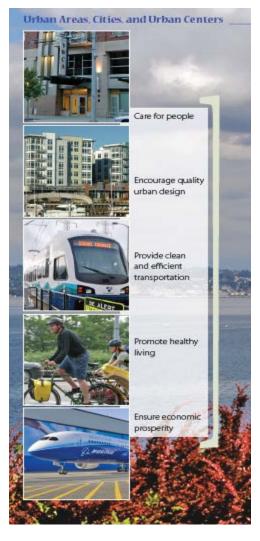
- Nashville: Active Transportation of 1 of 3 goals
- San Diego: RTP/Sustainable Communities Strategy
  - Integrates health policies, goals, and metrics
  - Health based project evaluation and metrics
- Seattle: linking transportation to health thru air quality and physical activity
- Sacramento: health throughout, active transportation, reduced emissions, equity
- □ Transportation Improvement Plan (TIP)
  - Nashville: Health criteria in project selection
    - STP funds: 15% active transportation, 70% of road projects have nonmotorized elements
  - Sacramento: screening criteria for active transportation mode share
- Evolving methodologies
  - San Diego and Nashville: Integrated Transportation Health Impact Model (ITHIM)



### **Structural Changes**







http://psrc.org/growth/vision2040

Nashville MPO



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### Health Index Tool - Partnership of U.S. DOT/CDC

#### □ The goals of the THT are to:

- help transportation decision-makers understand many of the issues in play at the intersection with public health;
- inform health-supportive state and regional transportation policies and project decisions; and
- strengthen collaborations between transportation and public health sectors.

#### □ What the THT is:

- an easy-to-use online tool, pre-populated with region- and state-specific data;
- an assessment of where your state or MPO is performing well, and where to incorporate health measures and decisions within the transportation decisionand policy-making process;
- recommendations for policy improvements;
- an evidence base for integrating health and transportation.





# FHWA Nonmotorized Pilot Program

□ \$28 m. to demonstrate role of walking and bicycling in 4 pilot communities

- Columbia, Missouri; Marin County, Calif.; Minneapolis, MN; Sheboygan, Wisconsin
- Demonstrate: mode shift, health and environmental benefits
- □ Working group: FHWA, Pilots, CDC, Volpe, Rails to Trails Conservancy
- Report to Congress (2012)
- Extend data collection and analysis to 2014
  - March 2014 Report
  - Expanded focus on health and accessibility/equity
    - $_{\circ}$  Using WHO HEAT model with CDC
    - Explore use of other models
      - Woodcock/ITHIM model
      - MTC Calculator





# Cal Park Tunnel – Opening Day

AT?

# Institutionalizing Data Collection

#### **Pilot Evaluation**

- Updated products; one pagers, etc.
- Congressional Report
  - Community wide modeling
  - Project specific Impacts
- Longitudinal tracking of outcomes Local Measurement
  - Annual Benchmarking
  - Location based trends
  - Project Outcomes
  - Daily/annual volume estimations

#### Other Uses

- Support of local/national research efforts
- Educate local officials & Public
- Inform Planning Studies
- Provide data via web portal
- Prepare special reports for local analysis
- Institutionalize nonmotorized travel data

#### Weekday Counts Lake Street Bridge









### A few lessons learned

#### From positive...to how positive?

- Quantify to compete for funds,
- Performance measures to demonstrate results
- Consider monetizing
- Role of a plan
- Set ambitious goals
  - Energy, environment, health, affordability, livability
- From claiming to demonstrating
  - Count, measure, evaluate, present
  - Understandable metrics
  - Comparable metrics: value of monetization
- Time horizon go long
- Regional and project scale
  - Walk and bike as part of multimodal system
- Importance of institutional side
  - Role of new partners
  - Sustaining new service
  - Mainstreaming in the planning process





# Where are the opportunities?

- Incremental / evolving
  - Forward-thinking
  - Explicit
  - Comprehensive
  - □ Apply to all 4 aspects: Activity, Access, Safety, Air Quality
- Data, performance measures, and tools
  - MAP-21 encouragement of performance-based planning
  - □ Emerging tools (e.g., WHO HEAT, Woodcock/ITHIM, HIAs)





# 4. Opportunities for collaboration?

- Possible next steps for research
  - Phase 3: data and implementation
  - Best practices peer exchanges
- US DOT and CDC collaboration
  - Transportation and Health Index Tool: under development
- Nonmotorized Pilot Communities
  - □ April 2014 report: focus on health
  - Areas for longer term research
    - Health benefits focus
    - Expand applications of HEAT and Woodcock/ITHIM models





### **Contact Information**

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  - Fred Bowers, FHWA project manager: <u>Frederick.Bowers@dot.gov</u>
  - William M. Lyons, Volpe Center project manager: <u>william.lyons@dot.gov</u>
  - "Metropolitan Area Transportation Planning for Healthy Communities" <u>http://www.planning.dot.gov/healthy\_communities\_desc.asp</u>
  - Statewide Transportation and Healthy Communities," report to be posted at: <u>http://www.fhwa.dot.gov/planning/health in transportation/resources/</u>
  - FHWA Webinar on white papers, with MPO case studies <u>https://connectdot.connectsolutions.com/p7zv88li7jx/</u>
- FHWA Nonmotorized Transportation Pilot Program
  - Gabe Rousseau, FHWA Project Manager: <u>Gabriel.Rousseau@dot.gov</u>
  - William Lyons, Volpe Project Manager: William.Lyons@dot.gov
  - "2012 Report to Congress" <u>https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/ntpp/2012\_report/</u>
  - 2014 Report
  - https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/ntpp/

