Tools for: Healthy People – Safe Roads – Vibrant Economy

Transportation and Health Tool: A New Tool to Drive Policy Decisions

New Partners for Smart Growth Conference

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Clackamas County, Oregon

- 1839 sq. miles/385,000 people
- 1,400 miles of County maintained roads
- Over 2,200 total miles
- 17 cities
- Summit of Cascade Mountains to fertile Willamette Valley
Crashes In Clackamas County

- Each Year - All Roads
  - 26 deaths average
  - 128 serious injury crashes
- One death every 13 days
- One serious injury every 3 days
Top Health Indicator’s

- Reduce
  - Non-transport deaths
  - Incidence of Chlamydia
  - Number of suicide deaths
  - Incidence of cancer
  - Heart disease deaths
  - Drug-related deaths
Clackamas County Crash Cause Diagram

<table>
<thead>
<tr>
<th>Crash Cause Factor</th>
<th>%</th>
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<tbody>
<tr>
<td>Person</td>
<td>&gt;99</td>
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<tr>
<td>Roadway</td>
<td>24</td>
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<tr>
<td>Vehicle</td>
<td>8</td>
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<table>
<thead>
<tr>
<th>Sole Crash Cause Factor</th>
<th>%</th>
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<tbody>
<tr>
<td>Person</td>
<td>70</td>
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<tr>
<td>Roadway</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Vehicle</td>
<td>&lt;1</td>
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</table>

<table>
<thead>
<tr>
<th>Combination Crash Cause Factors</th>
<th>%</th>
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<tbody>
<tr>
<td>Person &amp; Roadway</td>
<td>22</td>
</tr>
<tr>
<td>Person &amp; Vehicle</td>
<td>6</td>
</tr>
<tr>
<td>Roadway &amp; Vehicle</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Roadway &amp; Vehicle &amp; Person</td>
<td>1</td>
</tr>
</tbody>
</table>

Source: Oregon DOT crash data, 2009-2013
Organizational Elements

- At some point – need transportation and health professionals talking to each other
Organizational Structure

County Commissioners

- Engineering/Planning
- Health, Housing, Human Services
- Law Enforcement
County Strategic Priorities

- Build public trust through good government
- Grow a vibrant economy
- Build a strong infrastructure
- Ensure safe, healthy and secure communities
- Honor, utilize, promote and invest in our natural resources
Only County in US with locally adopted Transportation Safety Action Plan

- Adopted in late 2012
- Safety focus
- Broad Approach
- Culture change!
Transportation System Plan

- **Goal 4:** Promote a transportation system that maintains or improves our safety, health, and security
- Had County Health Officer on project team
Community Health Assessment

- Update in progress
- Better understand how transportation fits in with
  - Community health
  - Sense of community
Community Health Improvement Plan
Priorities

• **Decrease**
  – Obesity
  – Youth tobacco use
  – Falls – older adults
  – Prescription drug Misuse

• **Increase**
  – Breastfeeding

2016-17 Update
Two Worlds Combine!

Transportation:
- Capacity
- Level of Service
- Crash rate
- Av. Daily Traffic

Health:
- Obesity
- Asthma rates
- Access to services
- Heart disease

Keep people safe

Discipline barrier
And ... Out of the Toolbox!

• A new way to help us improve our communities!
14 Key Indicators

**Transportation**
1. Commute Mode Share
2. Housing and Transportation Affordability
3. Land Use Mix
4. Person Miles Traveled by Mode
5. Proximity to Major Roadways
6. Public Transportation Trips per Capita
7. VMT Per Capita

**Health**
8. Alcohol-Impaired Fatalities
9. Physical Activity from Transportation
10. Road Traffic Fatalities by Mode
11. Road Traffic Fatalities Exposure Rate

**Policy**
12. Complete Streets Policies
13. Seat Belt Use
14. Use of Federal Funds for Bicycle and Pedestrian Efforts
Lessons from Road Safety Audit – Health Impact Assessment

Proximity To Major Roadways

Indicator Description

Proximity to major roadways estimates the percentage of people who live within 200 meters, or approximately 650 feet, of a high traffic roadway that carries over 125,000 vehicles per day. Data on the location of roads and traffic levels come from the 2011 National Transportation Atlas Database; data on population come from the 2010 Census.

Transportation and Health Connection

According to CDC, more than 11 million people in the United States live within 150 meters (or approximately 500 feet) from a major highway (Boehmer et al., 2013). The vehicle traffic on these roadways is a major
Click and Learn!

Proximity to major roadways

**Related Strategies**

- Clean freight
- Complete Streets
- Expand bicycle and pedestrian infrastructure
- Health impact assessment (HIA)
- Health performance metrics
- Improve vehicles and fuels
- Integrate health and transportation planning
Look More at ...

Proximity to major roadways
- People living near roads

Health impact assessments
- Asthma rates
- Exposure to noise
- Exposure to air pollution
- Drive alone to work
- Long commutes

Cross-sector collaboration
- Improve outcomes
Guide us to Solutions

- Encouragement and access to transit
- Good tree canopy for air purification
- Planning and zoning considerations
- Sidewalks – places to exercise
How the THT Tool Helps

For the Engineer
• Simple terms
• Information in one place
• Quickly view list to see relationships
• Can get super numbers geeky too!

For the Public Health Professional
• Foundational and broad perspective around community health
• Guidance for
  – Health Policy and Planning
  – Suggested data sets - epidemiology
  – Partnerships
  – Equity and culture issues
Inspiration from THT!
Organizational Integration of Health, Transportation and Safety

Health & Safety in All Policies

A Collaborative Framework & Review Process in Partnership with Clackamas County DTD and H3S to Implement Performance Clackamas

Summary of Recommendations

Policy Brief No. 3 | Fall 2015

"All county employees play a role in ensuring safe, healthy & secure communities" —Performance Clackamas, 2015

Health, Housing & Human Services

National Strategy On Highway Safety
Proud Partner
TowardZeroDeaths.org
Most Policy Decisions Have Health Impact

• County Commission decisions in 2014
  – 527 policy decisions
  – 78% - impact to health and safety
Health and Safety in All Policies

- Pilot project FY 2016/17
  - Select several policy proposals
  - Assess health and safety consequences of options within policy development process
  - Promote cross-sector collaboration and policy conversations
Many Puzzle Pieces!
Growing and Learning Together!

- Building relationships
- Opening minds
- Change our lens
- Creating positive impact
- Always considering how we can help our customers
SAFE and HEALTHY COMMUNITIES START WITH YOU!

Thank You

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