# Health and Transportation: Working Together to Improve the Lives of Oregonians

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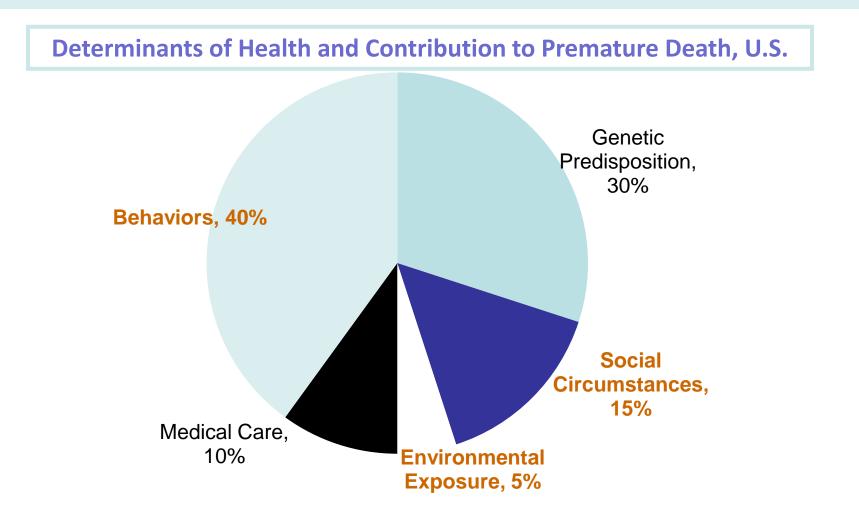
Health Promotion and Chronic Disease Prevention Section



Center for Prevention & Health Promotion

**Public Health Division** 

# **Built Environment: A Determinant of Health**



Adapted from McGinnis JM, Foege WH. Actual causes of death in the United States.. JAMA 1993; 270:2207-2212.



#### **Top 10 Risk Factors for Poor Health and** Number of Attributable Deaths, U.S.

**Dietary risks** 678,282 Smoking **High blood pressure High body mass index Physical inactivity High blood sugar High total cholesterol Ambient air pollution Alcohol use** 88,587 25,430 Drug use

465,651 442,656 363,991 234,022 213,669 158,431 103,027

**Deaths Attributable to Physical Inactivity as an Independent** Risk Factor:

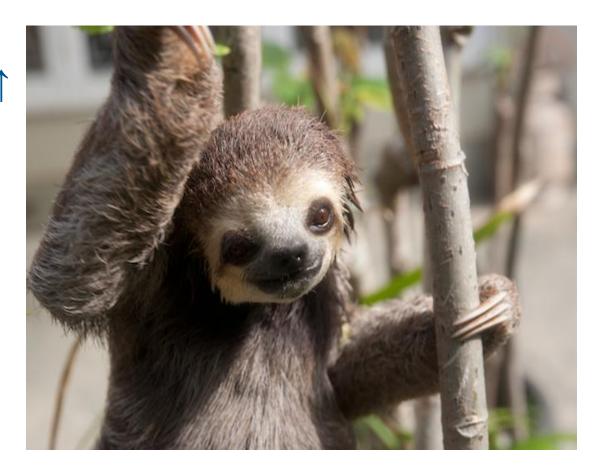
6% of heart disease 8.3% of type 2 diabetes 12.4% of breast cancer 12.0% of colon cancer **10.8% ALL CAUSE** MORTALITY

Journal of the American Medical Association "The State of US Health, 1990-2010: Burden of Diseases, Injuries, and Risk Factors"

#### Physical inactivity cited in >10% (\$100 billion) of health care costs

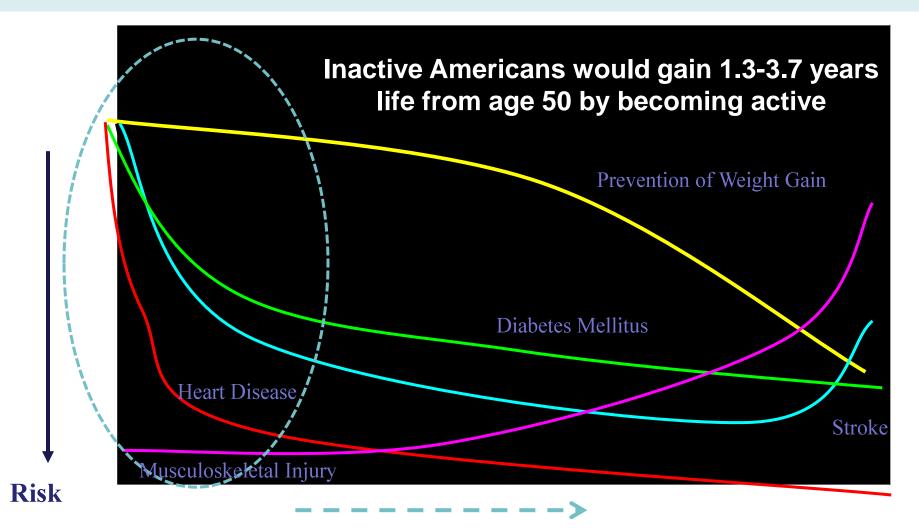
# **Physical Activity Trends**

Sedentary Time  $\uparrow$ Leisure Time  $\leftrightarrow$ Occupation  $\downarrow$ Transportation  $\downarrow$ Home  $\downarrow$ 





# **Transportation to Meet Activity Guidelines**

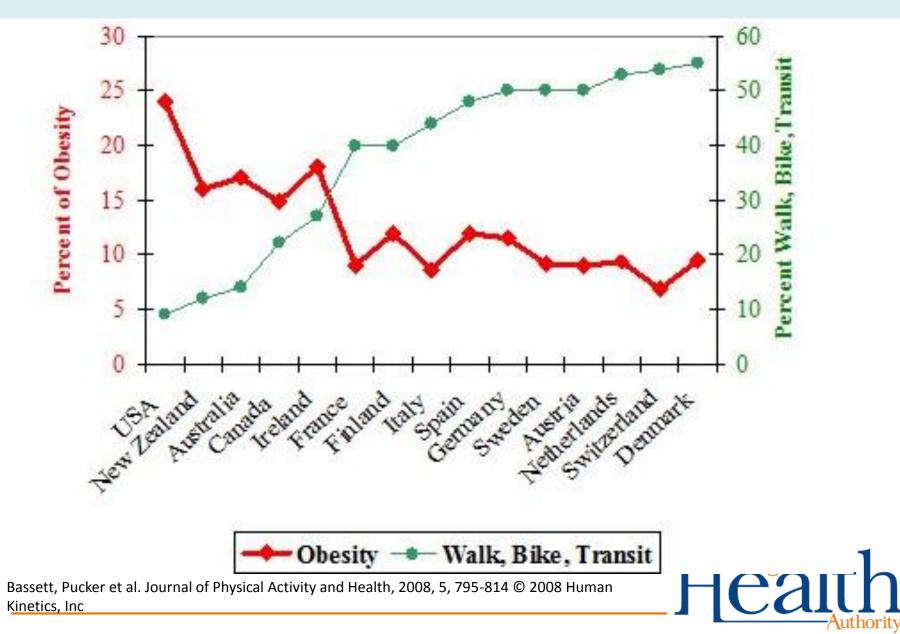


#### **Modest Change in PA Here = Big Reduction in Risk**

*N Engl J Med* 1986; **314**: 605-613. <u>CrossRef</u> | <u>PubMed</u> *Arch Intern Med* 2005; **165**: 2355-2360. <u>CrossRef</u> | <u>PubMed</u>



### Active Transportation and Obesity: US vs Others



# Why Focus on Transportation? Evidence:

The CDC Guide to Strategies to Increase Physical Activity in the Community

- 1. Individually adapted health behavior change programs
- 2. Social support interventions in community settings
- 3. School-based physical education (with minimum minutes)
- 4. Point-of decision prompts for using stairs
- 5. Community-wide awareness and education campaigns
- 6. Access to places for physical activity, combined with outreach
- 7. Street-scale urban design and land use policies
- 8. Community-scale urban design and land use policies
- 9. Active transport to school

10.Transportation and travel policies and practices



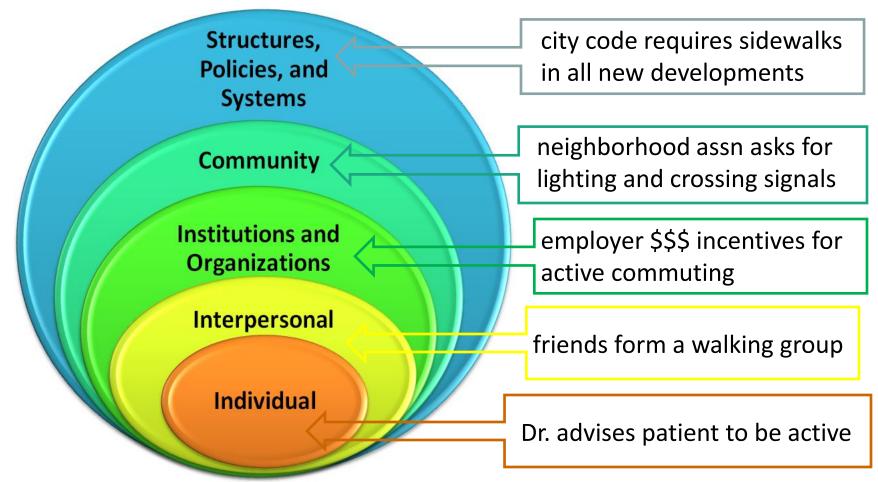
# **Physical Activity & Transportation Takeaways**

- Powerful effect on chronic disease (30-50% morbidity; 10% mortality)
- Independent of food intake or weight status
- **Priority** is to get sedentary people active
- At least 150 minutes a week
- Brisk walking a great choice
- Active transportation is one of the best ways





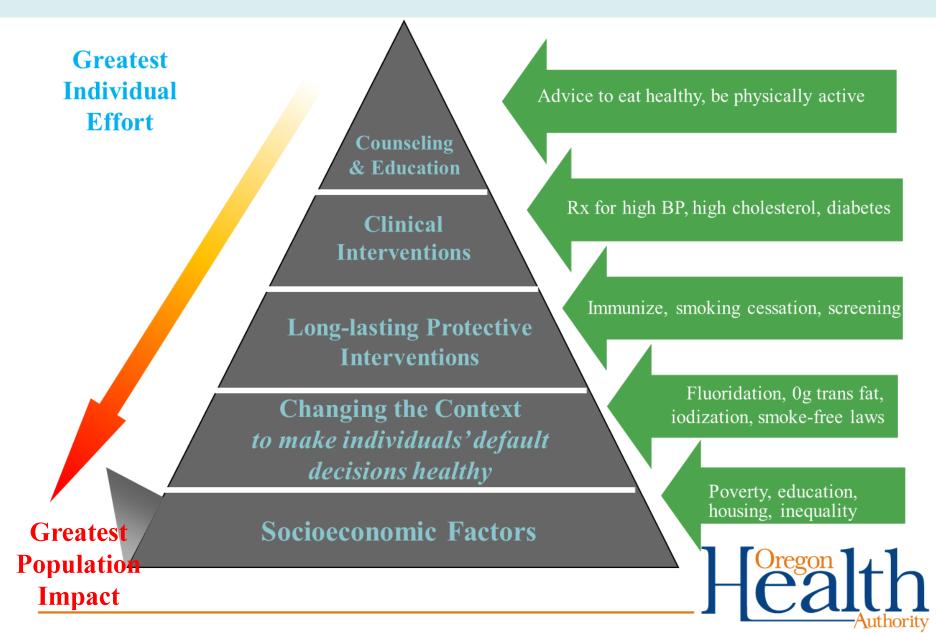
# **Socio-ecological Model for Physical Activity**



CDC DNPAO, adapted from Bronfenbrenner, U. (1977). Toward an experimental ecology of human development." American Psychologist, 32: 513-531.



## **Transportation as a PSE Strategy**





# **Policy Frameworks and Tools**

#### STATEWIDE TRANSPORTATION PLANNING FOR HEALTHY COMMUNITIES Oregon Pedestrian Safety Policy and Systems Change Strategies 2012-2015 -lealt Changel and Solutions Incorporating Safe Routes to School into Local School Wellness Policies April 2014 Making Prepared fo U.S. Department U.S. Department of Transportation Office of Planning, Environment, and Realty Federal Highway Administration of Transportation Neighborhoods More Walkable Federal Highway and Bikeal State Indicator Report on Physical Activity Urban Getting the Wheels Rolling A Guide to Using Policy to Create Bicycle Friendly Communities Street BIK Design ChangeLab Sol Guide Partie and and it LE CDC ritv ChangeLabSolution National Association of City Transportation Officials

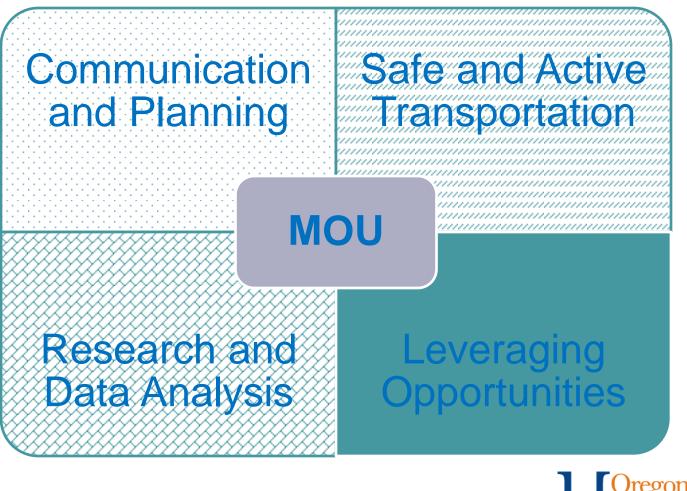
# **ODOT and OHA Partnership**

- Build mutual understanding
- Identify joint policy and program objectives
- Build supportive framework to promote connection between transportation and public health, statewide





# **Key Areas of Work: ODOT and OHA-PHD**





# **Roles for Local Public Health Partners**

- Amplify critical health issues: asthma, chronic disease, injury
- Bring awareness of a population-level approach
- Bring a health in all policies perspective
- Provide evidence, surveillance, data
- Engage community, health experts
- Apply equity lens to address disparities
- Broaden focus beyond built environment, where relevant (e.g., incentives, campaigns for behavior norm change)

Vision walking, biking and transit are default choices for meeting everyday needs



### **Emphasize: One Health Lens, Multiple Benefits**

- Cut air pollution to reduce respiratory and heart illnesses;
- Make streets safe to reduce the number of fatalities and serious injuries from crashes;
- Provide access to places to be physically active, to reduce rates of chronic diseases;
- Reduce greenhouse gasses
- Alleviate the transportation cost burden for the public, by offering low-cost alternatives.





## **Other Wins!**

"People out walking make our towns livelier, safer and more attractive places to live, work, play, shop and invest."

"Is a step toward social equity, since walking can be made accessible to all ages, races, incomes, and abilities."



"Walking is not just about health. It's about **joyfulness** and fun." -- WalkBoston

"It is hard to get people to eat healthier. But we can get them to walk. All they need are shoes." – KP CEO "Walking is safe, simple, and doesn't require practice, or any fancy gear." -- U.S. S.G.

It connects us to the places where we live, it makes us healthier, and it's cheap. -- Oregon Walks



## **Thank you!**



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Photo of the signing of the Bicycle Bill in 1971, which started the Bike and Ped program and all that has come after.

