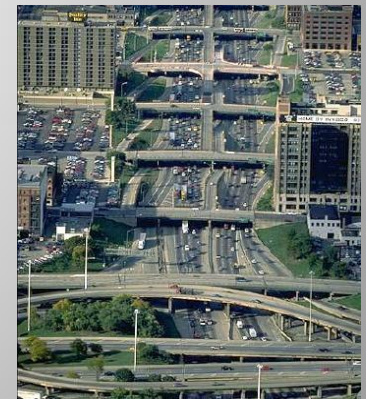
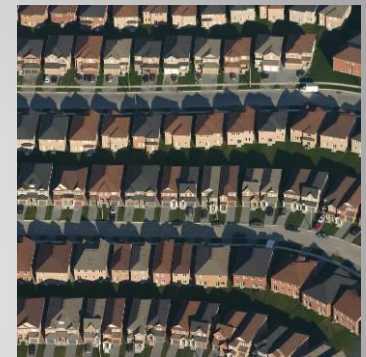




# **Health 201: Five Things That Planners and Design Professionals need to know about Health and the Built Environment**

# Key message: Good planning and design can help build healthy places

- The planning sector and local government already play an important role in creating healthy built environments.
- Chronic illness and injury are a risk to both public health and our universal health care system.
- Promoting healthy lifestyles alone is not enough. Effects of the built environment must also be addressed.
- Professionals working in health, planning and design share a responsibility to promote active living and to modify the built environment.
- Good planning and design can help people avoid or change unhealthy physical environments.



# Five Things about Health and the Built Environment

1. The impact of chronic illness and injury is immense; much is preventable.
2. Some people are healthy while others are not.
3. Many sectors of society influence population health.
4. The Built Environment affects health.
5. Collaborative action works.



# 1. The impact of chronic illness and injury is immense

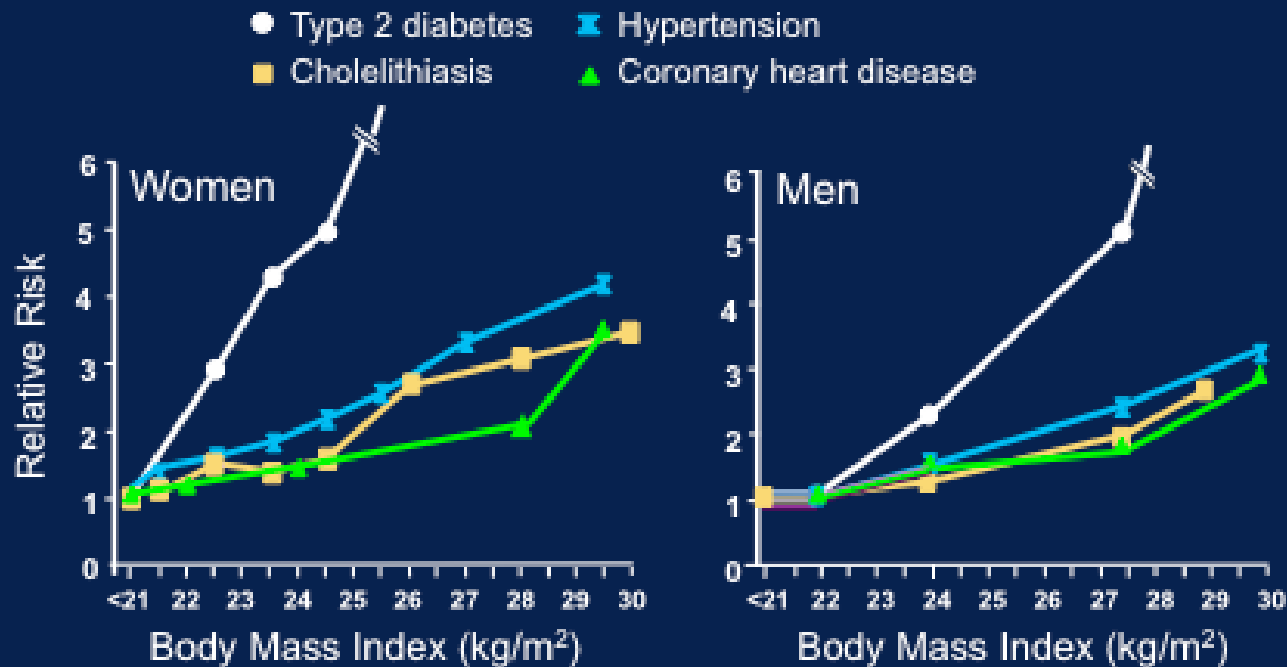
- Chronic diseases are diseases of long duration and generally slow progression.
- Preventable chronic illness and injury cost provincial health care systems billions of dollars every year
- Money spent on hospital care affects what we can spend on things that keep people healthy , like parks, active transportation and disease prevention
- Planners and design professionals play an important role in preventing illness and injury



# Obesity increases the risk for many chronic diseases

## Lesson:

Overweight increases risk for a number of chronic diseases, but risk for diabetes most pronounced



Willett WC, et al. *N Engl J Med*. 1999; 341: 427-434.

# Injuries : Activity may be risky if the built environment is not supportive

- 2004 over half the total costs of injury in NL attributable to falls (37%) and transport incidents
- 2008-09 NL 7295 hospital separations for injury/poisoning, 3255 were fractures
- NL has the highest cost of unintentional injury in children 1-14 years of age

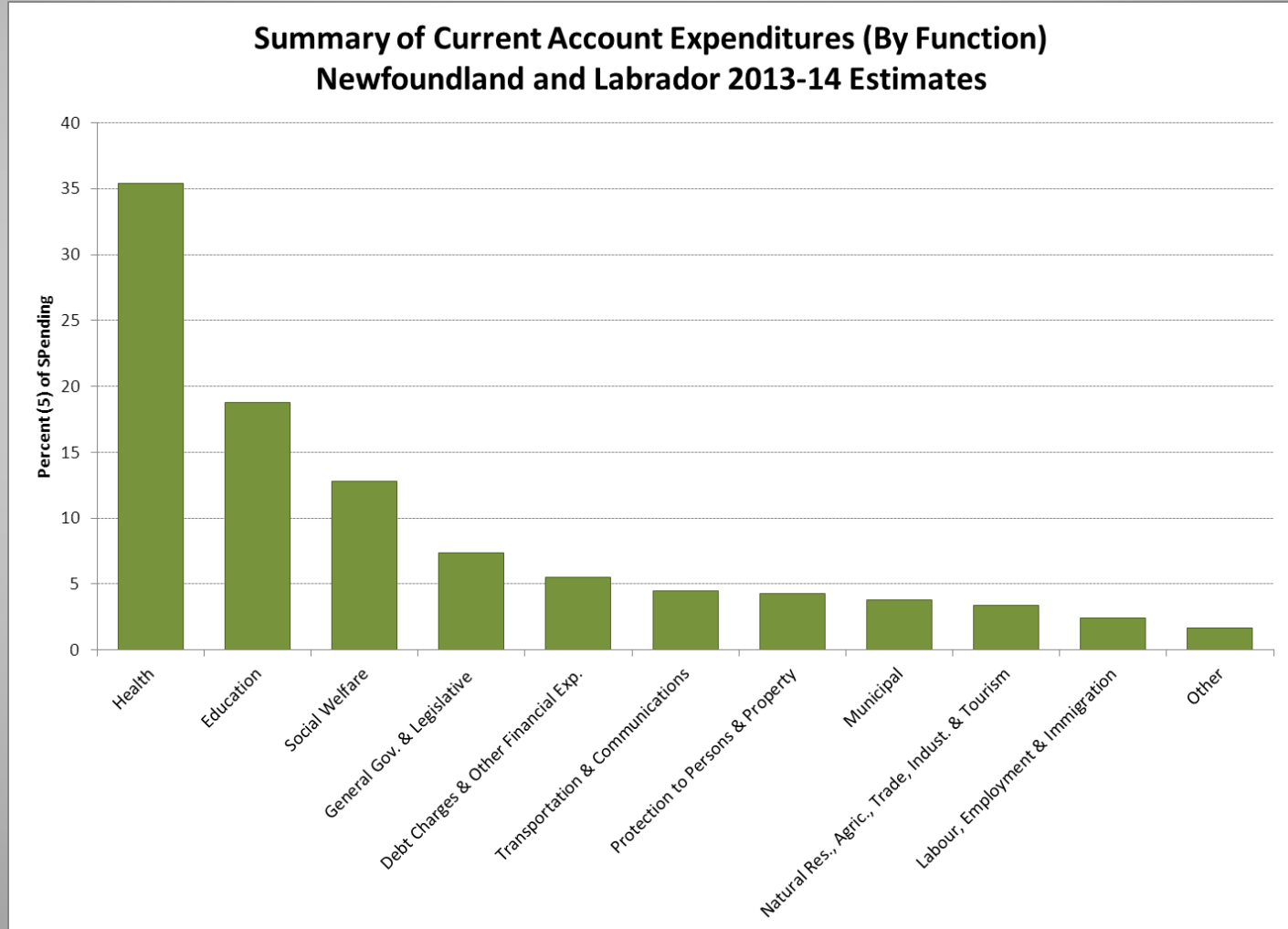


# Many injuries could be prevented by good design

- Pedestrian fatalities higher than driving
- Seniors and kids are the most vulnerable
- Road design – wide arterials in suburban areas most dangerous
- Traffic calming – reducing vehicle speed reduces risk of pedestrian injury
- Public transit – decreases the number of automobile miles traveled



# The NL Health Care system makes up 35% of government expenditure





# Why should planners care about runaway health care costs?

Money spent on hospital care affects what we can spend on things that keep people healthy

Resources spent on health care take away from other public benefits:

- Early childhood development
- Affordable housing
- Education at all levels
- Regional economic development
- Clean air and water
- Support for research and innovation
- Transportation and recreation infrastructure



## 2. Some people are healthy and others are not

- People's choices to adopt a healthy lifestyle are limited by their income, social status, education, occupation, neighbourhood environment, social environment, etc
- Social disadvantage create circumstances which can adversely impact health
- Good planning and design can help reduce the inequities in people's choices



# 3.Many sectors of society influence population health

‘Population health’ is an approach that aims to improve the health of the entire population and to reduce health inequities among population groups... It looks at and acts upon the broad range of [influencing] factors: social, economic and environmental health determinants”

Source: Public Health Agency of Canada

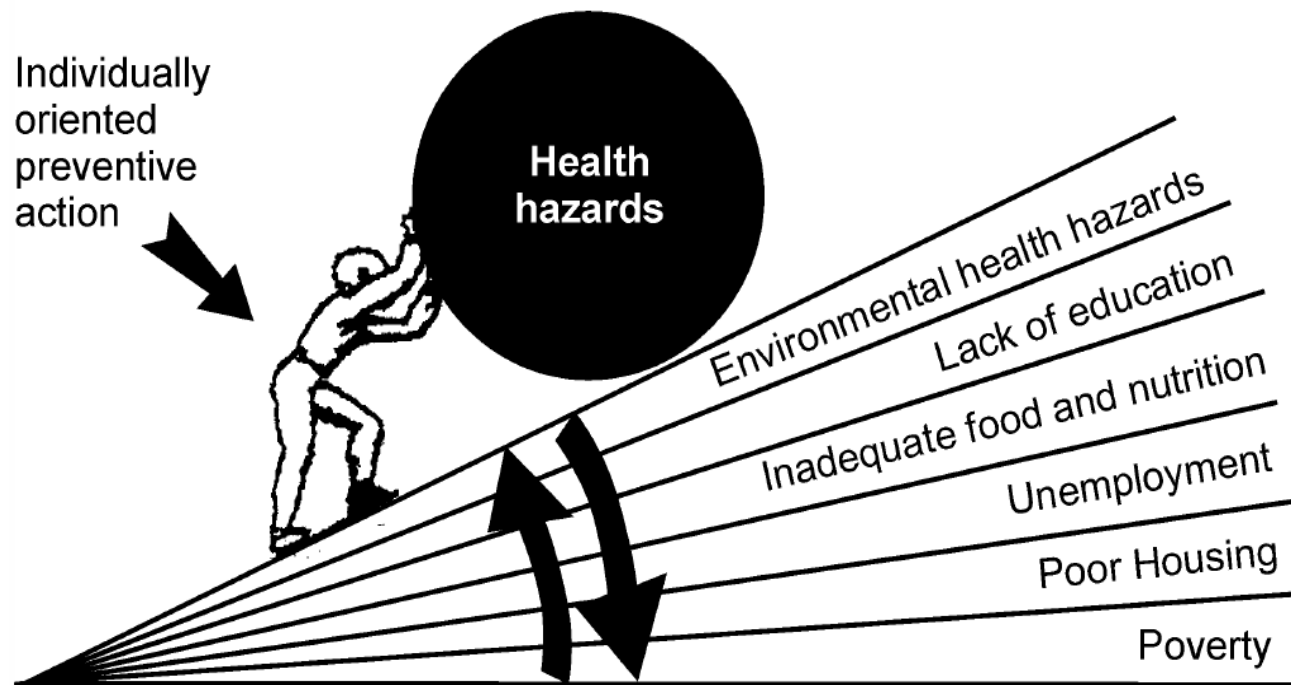
Speaks not only just to overall health of a population but also includes the distribution of health throughout

# Improving population health

- Usually requires multidisciplinary approaches (educational, environmental, behavioral and legal) and involvement of communities to address root or underlying causes of disease
- Many early gains in improving the health of populations came from engineering efforts clean water, waste disposal, safer roads
- Involving a mix of individual and population responses from a number of stakeholders in and outside of the health system

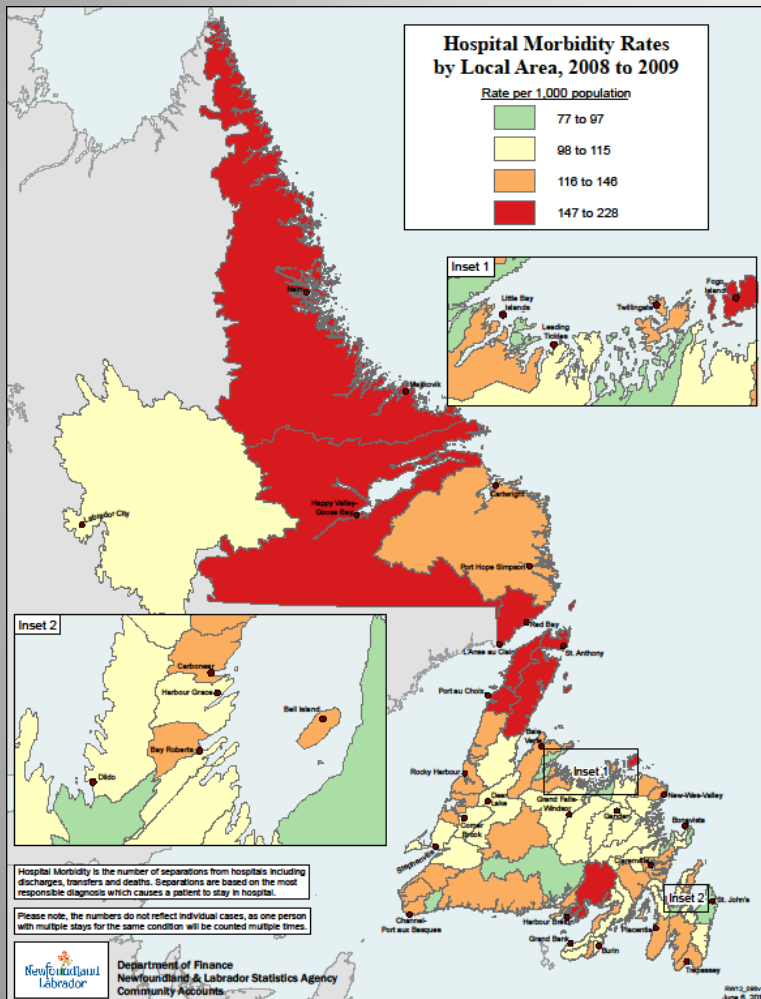
Individual action can reduce the impact of health hazards.  
But socio-economic factors make the job harder.

## The Health Gradient



Source: adapted from Making Partners: intersectoral action for health.

# What does population health look like in our community?



- 2011 census population in NL: 514,535 (+1.8%)
- 27% of population 55+ years
- 2011 4,465 births (-1.8%)
- Percentage of NL population with excellent or very good self-assessed health status (12+ years): 60.1%
- 51% of NL population report being physically inactive during leisure time
- 65% of NL population (18+ years) were overweight or obese
- Approximately 61% of eastern region residents over 12 yrs report having at least one chronic disease

Source: Community Accounts and CCHS



# 4. The Built Environment has an impact on health

Community design can impact:

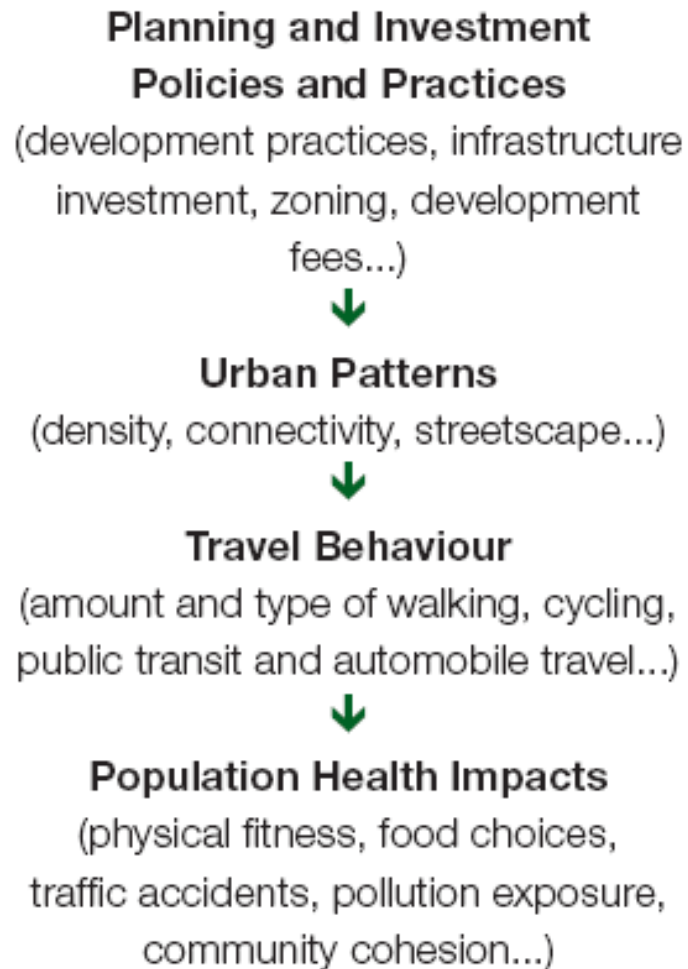
- Traffic safety and injury prevention
- Neighbourhood walkability
- Access to public transit
- Mental health affects of noise
- Air and water quality
- Access to healthy foods
- Social inclusion
- Disability access
- Access to affordable and safe housing







**Figure 2. From Land Use to Travel Behaviour to Health**

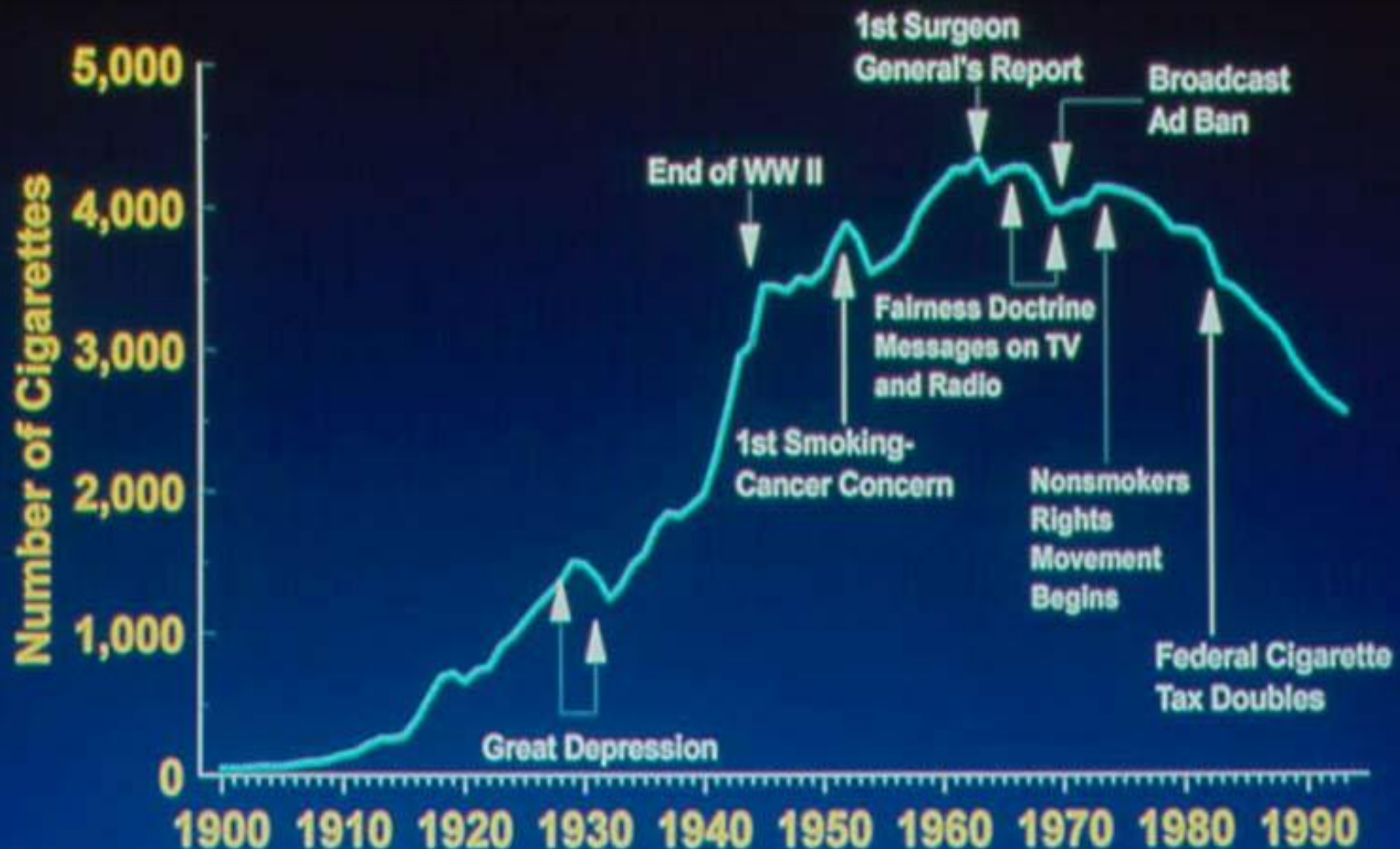


# 5. Collaboration is necessary to create Healthy Built Environments

- Complex problems require solutions from many sectors...
- ... and leadership by community groups, planners, the development industry, engineers, design professionals, health professionals and elected officials.
- Tobacco control is a successful example of cross sector collaboration



# Tobacco Control – an example of successful cross-sectoral collaboration

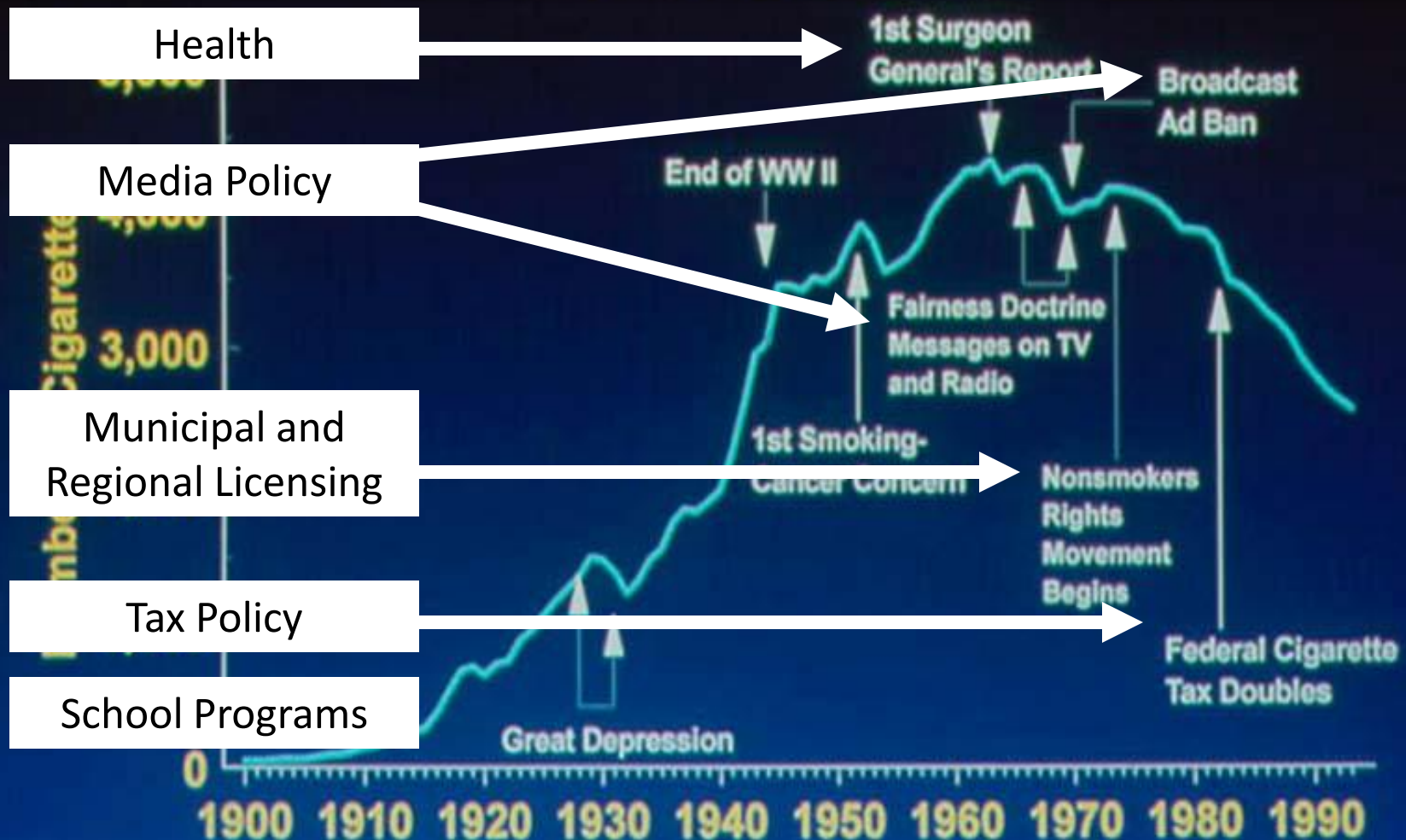


□ HEALTH 201: FIVE THINGS THAT PLANNERS AND DESIGN PROFESSIONALS NEED TO KNOW ABOUT HEALTH AND THE BUILT ENVIRONMENT

Source: USDA; 1989 Surgeon General's Report



# Tobacco Control – an example of successful cross-sectoral collaboration



□ HEALTH 201: FIVE THINGS THAT PLANNERS AND DESIGN PROFESSIONALS NEED TO KNOW ABOUT HEALTH AND THE BUILT ENVIRONMENT

Source: USDA; 1989 Surgeon General's Report



# The health sector and planners have many opportunities for collaboration

- **Environmental factors** air and water quality, noise, heat
- **Housing** quality, affordability
- **Access and inclusion** mental health and disability, arts and culture
- **Injury prevention**
- **Physical activity** transportation, recreation, connectivity
- **Nutrition and food security**



# Summing Up

- The planning sector and local government already play an important role in creating healthy built environments.
- Chronic illness and injury are a risk to both public health and our universal health care system.
- Promoting healthy lifestyles alone is not enough. Effects of the built environment must also be addressed.
- Professionals working in health, planning and design share a responsibility to promote active living and to modify the built environment.
- Good planning and design can help people avoid or change unhealthy physical environments.



# Image sources

Page 1: [www.wikipedia.com](http://www.wikipedia.com); [www.eps-newswire.com](http://www.eps-newswire.com)

Page 2: Dan Burden ([www.pedbikeimages.org](http://www.pedbikeimages.org))

Page 8: [www.allianz.com](http://www.allianz.com)

Page 14: City of Peterborough; LEES + Associates

Page 17: LEES + Associates

Page 20: Co-operative Housing Federation of BC; Lower Trinity  
South Regional Development Association

Page 21: LEES + Associates