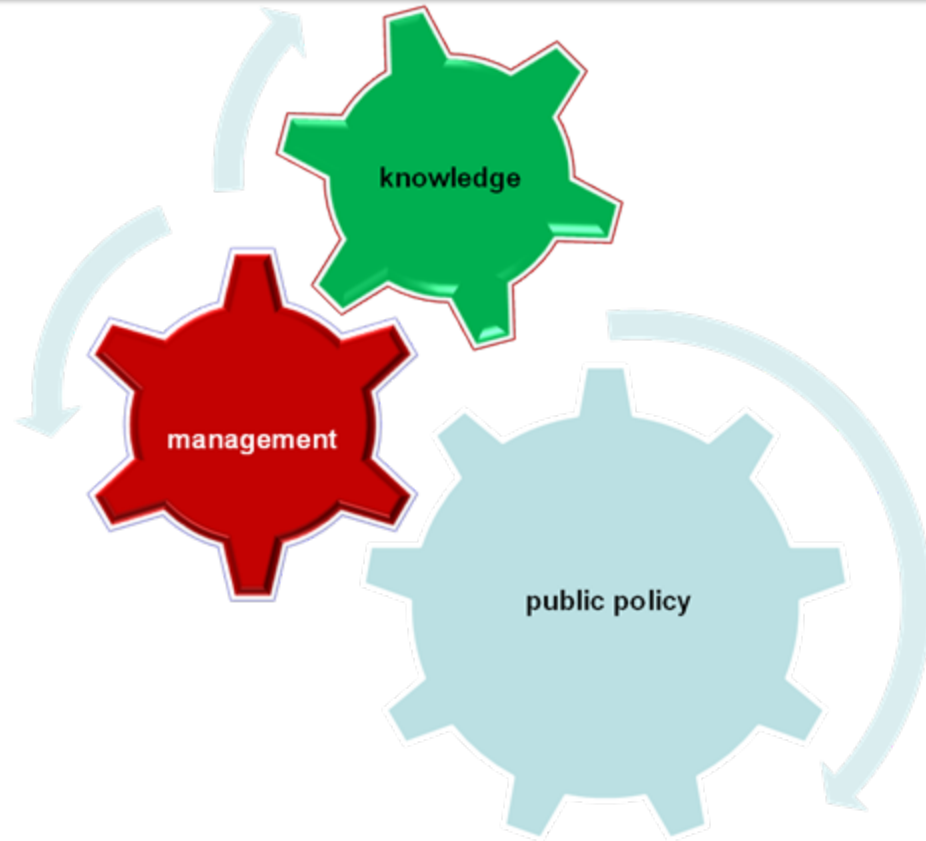


People mobility...the bottom line of transport system



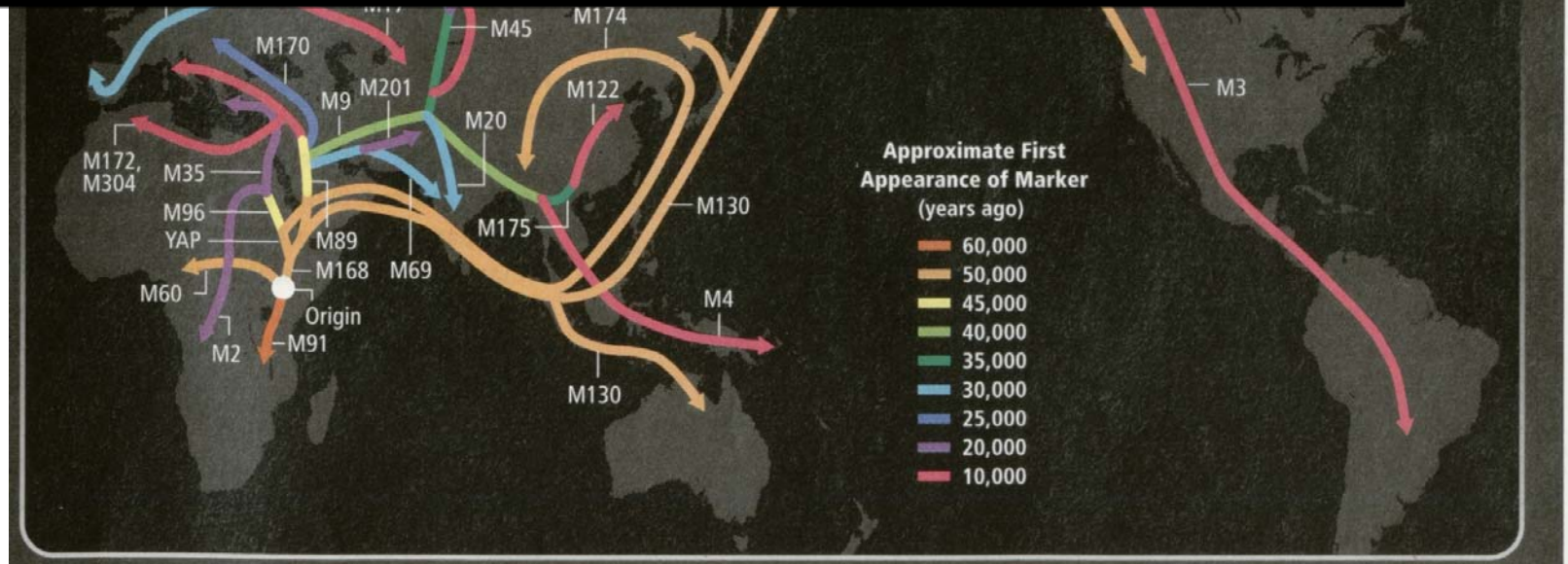
Paibul Suriyawongpaisal



TRACKING Y CHROMOSOMES THROUGH TIME

Geneticists can track the path of ancient migrations by examining genetic markers in Y chromosomes from men who hail from different parts of the world. Each marker, such as M168 or M89, identifies a lineage of men and where the lineage originated. By building an evolutionary tree based on observing many living people with the markers, investigators can determine the approximate ages of the lineages.

Mobility = survival



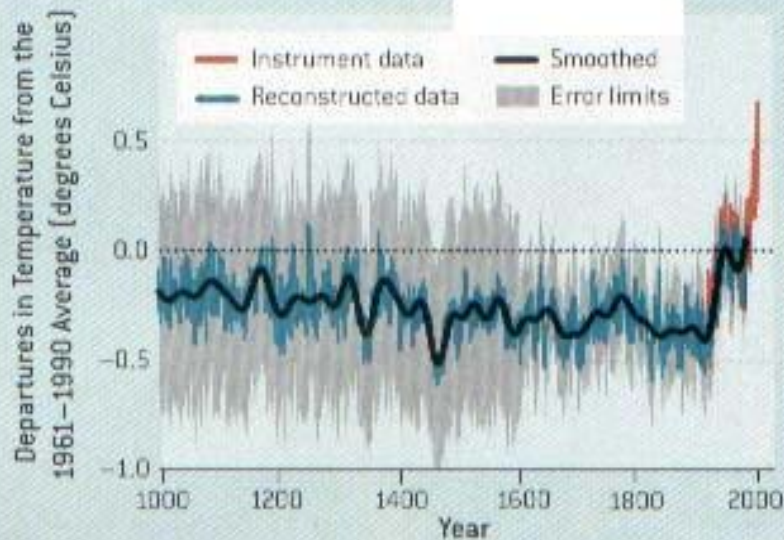
Scientific American
Jul 08 :38-45

Paibul Suriyawongpaisal

THE HEAT IS ON

A U.S. senator has called global warming the "greatest hoax" ever foisted on the American people. But despite persistently strident rhetoric, skeptics are having an ever harder time making their arguments: scientific support for warming continues to grow.

sciam sep 06



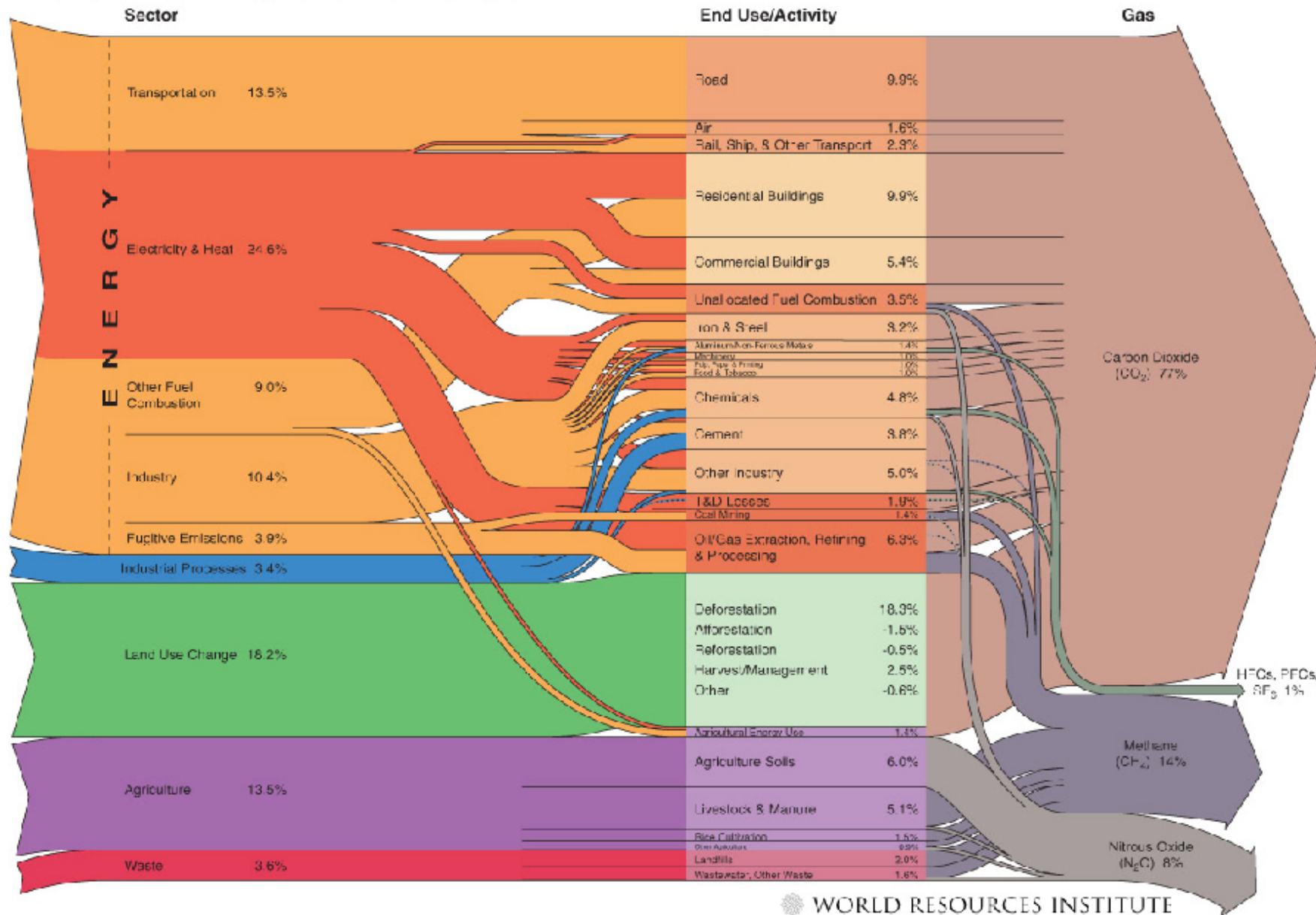
This "hockey stick graph," from one of many studies showing a recent sharp increase in average temperatures, received criticism from warming skeptics, who questioned the underlying data. A report released in June by the National Research Council lends new credence to the sticklike trend line that traces an upward path of temperatures during the 20th century.



A line of SUVs symbolizes high per-capita U.S. energy consumption. But rising expectations pervade the developing world. Many Chinese dream of trading a bicycle for a car.



World GHG Emissions Flow Chart



WORLD RESOURCES INSTITUTE

Foot prints ...no more bearable



ศ.นพ.ไฟบูลย์ สุริยะวงศ์ไพศาล

The residential sois of Bangkok are jammed with traffic and there are few places to walk or ride safely



The residential sois of Bangkok are jammed with traffic and there are few places to walk or ride safely



Source: Kenworthy JR, 1995

Profile: top 10 mortality, Thailand 2004

Total deaths 390,285

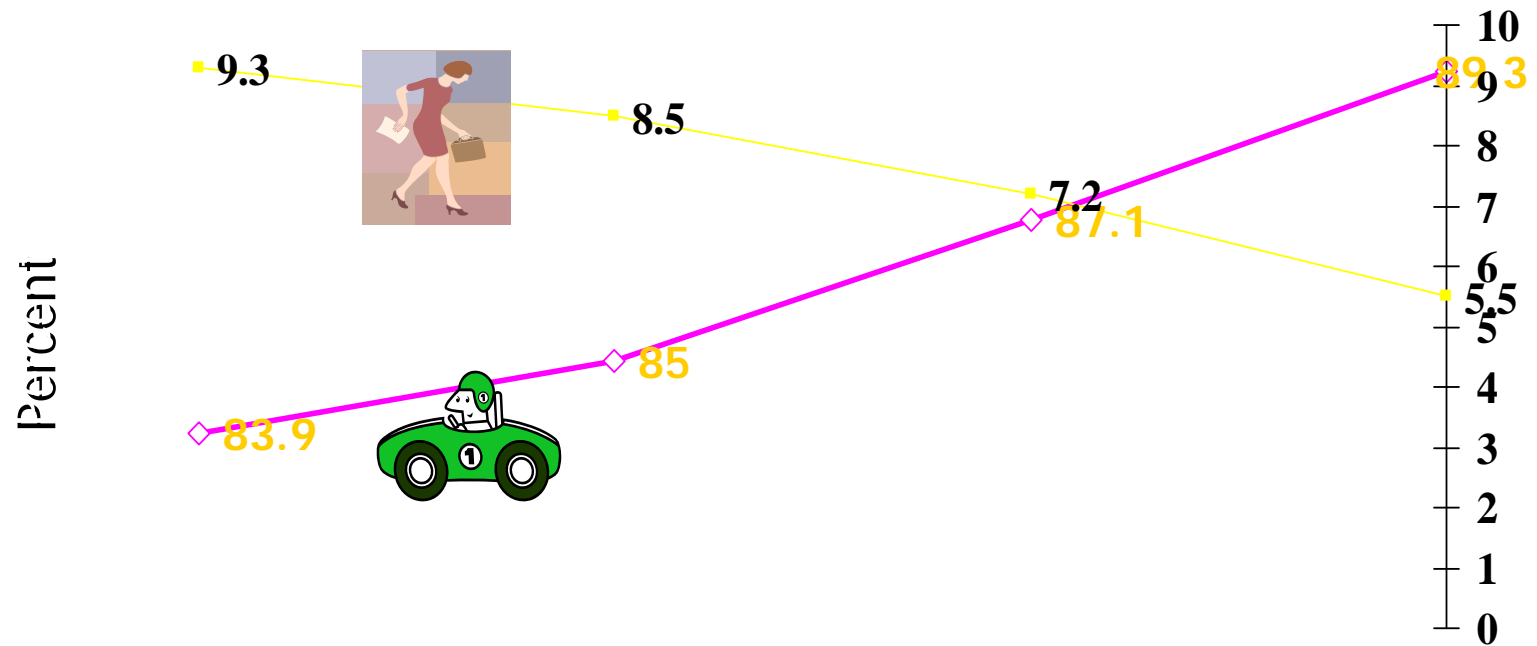
Deaths

Rank	Male				Female	
	Disease	Deaths ('000)	%	%	Deaths ('000)	Disease
1	HIV/AIDS	26	11.7	14.4	24	Stroke
2	Traffic accidents	24	10.7	8.3	14	Diabetes
3	Stroke	22	9.7	6.5	11	HIV/AIDS
4	Liver and bile duct cancer	20	8.9	5.9	10	Ischaemic heart disease
5	COPD	13	5.7	5.9	10	Liver and bile duct cancer
6	Ischaemic heart disease	13	5.6	3.5	6	Lower respiratory tract infections
7	Bronchus and lung cancer	9	3.9	3.5	6	Other infectious diseases
8	Diabetes	8	3.5	3.5	6	COPD
9	Cirrhosis	8	3.4	3.4	6	Nephritis & nephrosis
10	Lower respiratory tract infections	6	2.7	3.3	5	Traffic accidents

Top 10 deaths share 63% of total national deaths

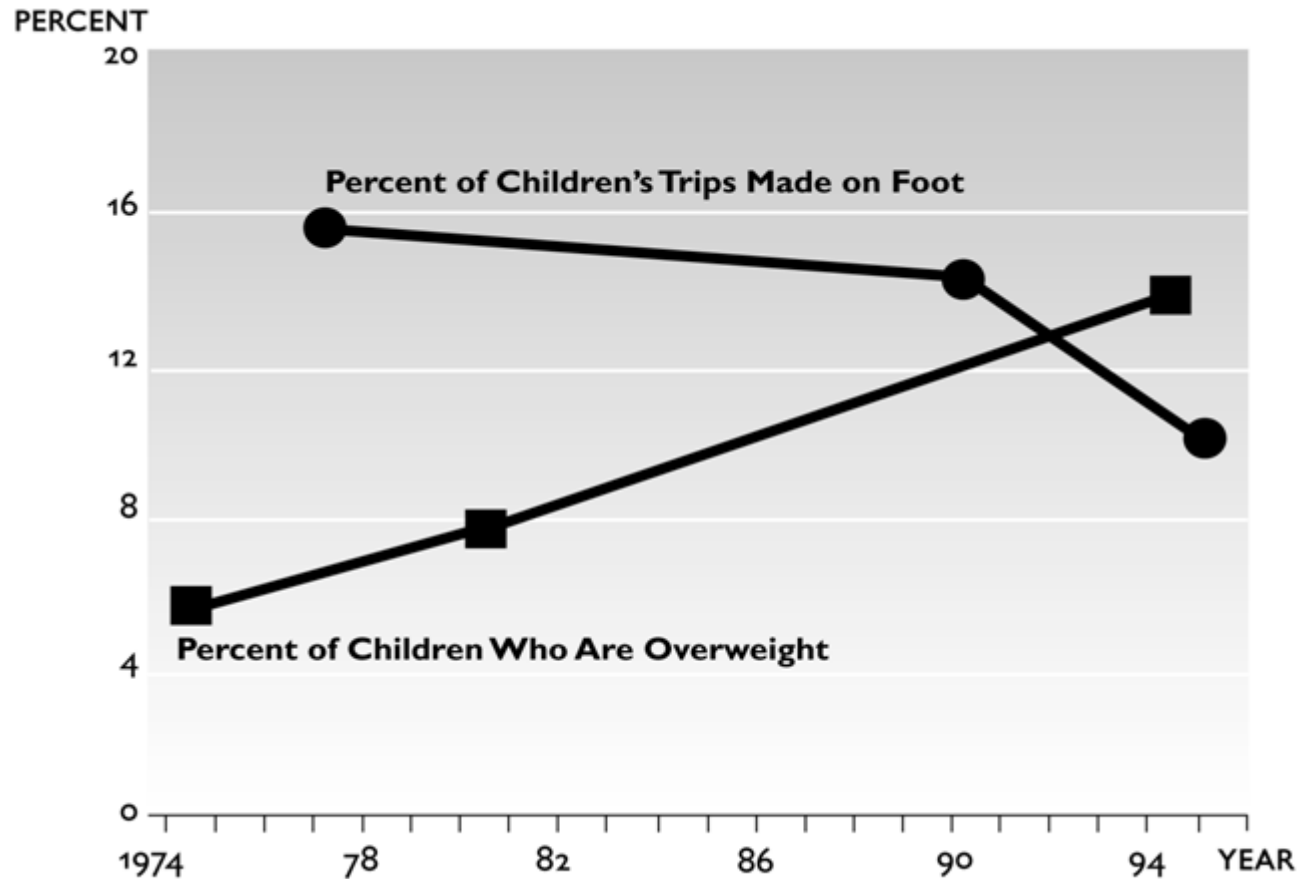
ศ.นพ.ไพฑูลย์ สิริยวงศ์ไพศาล

Auto vs Walk Trips 1977-1995



Source: Nationwide Personal Transportation Survey, 1995

Children Are Walking Less and Becoming Increasingly Overweight



Trend of Major Risk Factor in Thailand

Obesity, FBG & Cholesterol

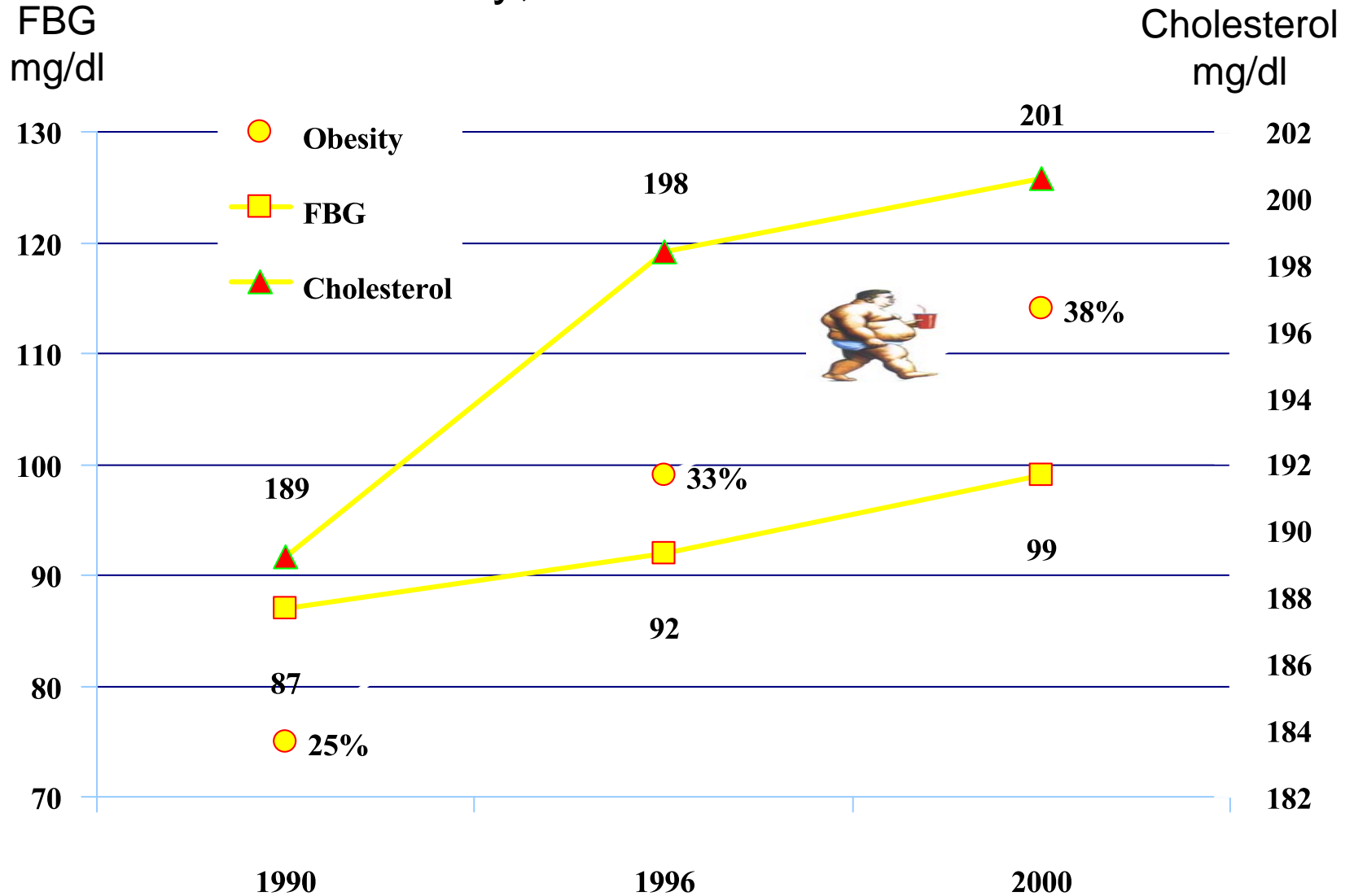


Table 8.2

Approximate relative risk of physical health problems associated with obesity

Relative risk greater than 3

Relative risk 2–3

Relative risk 1–2

Type 2 diabetes

Gallbladder disease

Dyslipidaemia

Insulin resistance

Breathlessness

Sleep apnoea

Coronary heart disease

Hypertension

Osteoarthritis (knees)

Hyperuricaemia
and gout

Cancer

Reproductive
hormone
abnormalities

Polycystic ovary
syndrome

Impaired fertility

Low back pain

Increased risk of
anaesthesia
complications

Fetal defects
(associated with
maternal obesity)

Adapted with permission from WHO¹

PHYSICAL ACTIVITY, AND THE RISK OF CANCER

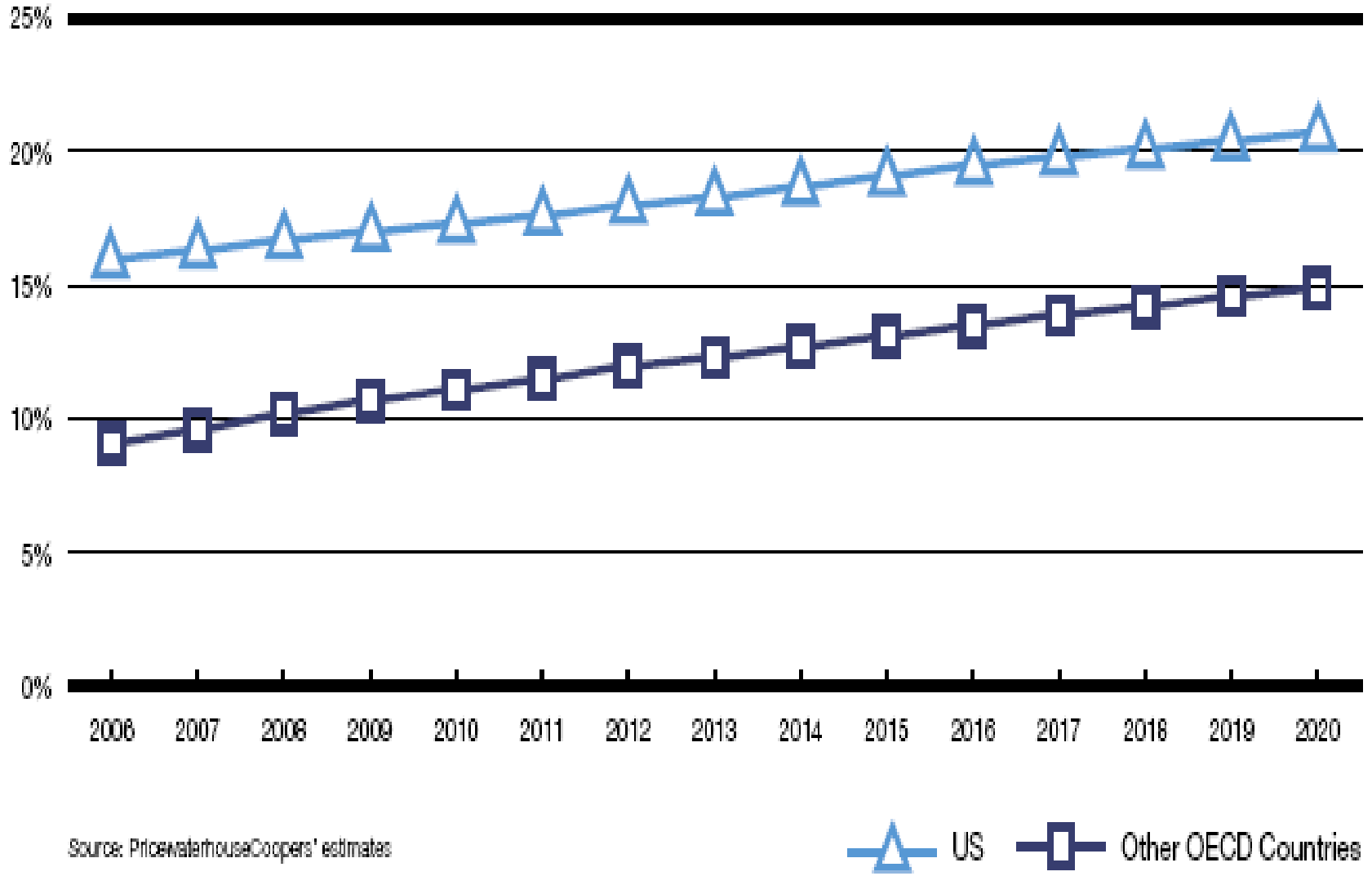
In the judgement of the Panel, physical activity¹ modifies the risk of the following cancers. Judgements are graded according to the strength of the evidence.

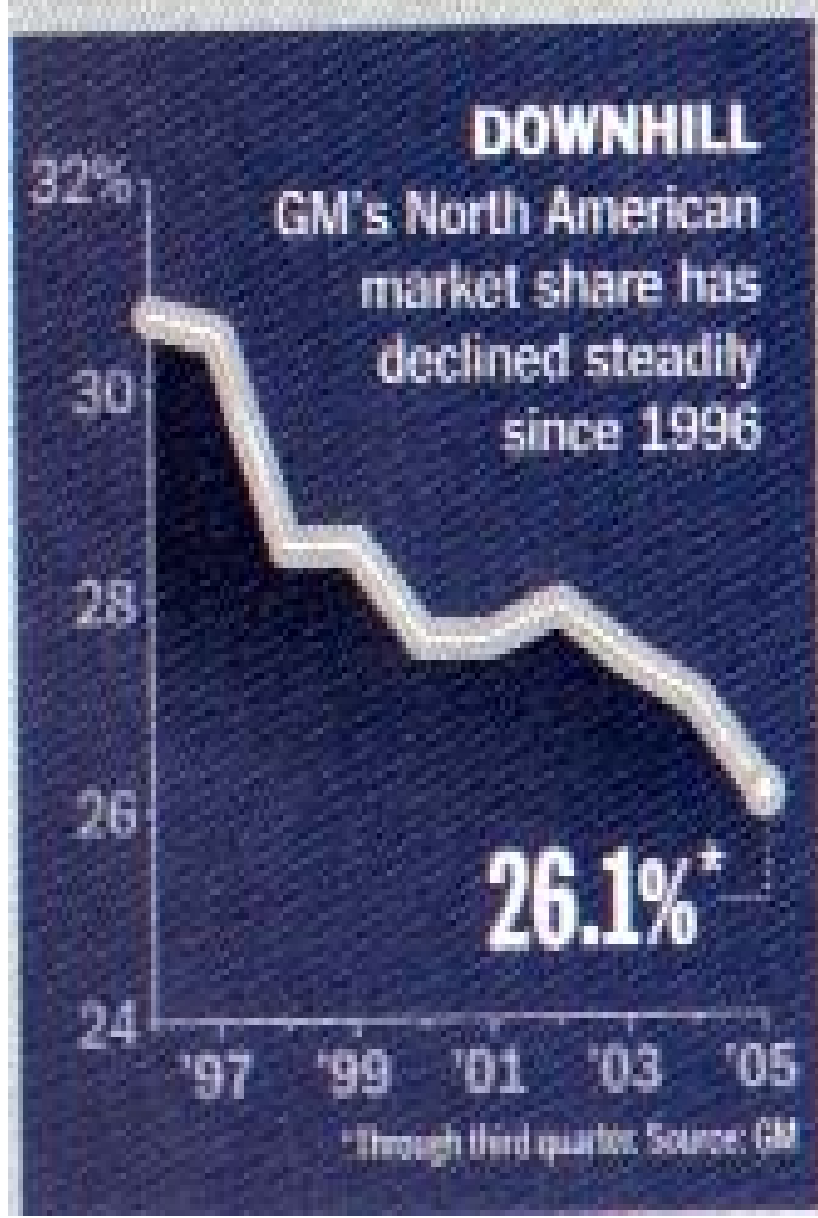
	DECREASES RISK	INCREASES RISK
Convincing	Colon ²	
Probable	Breast (postmenopause) Endometrium	
Limited — suggestive	Lung Pancreas Breast (premenopause)	
Substantial effect on risk unlikely	None identified	

1 Physical activity of all types: occupational, household, transport, and recreational.

2 Much of the evidence reviewed grouped colon cancer and rectal cancer together as 'colorectal' cancer. *The Panel judges* that the evidence is stronger for colon than for rectum.

FIGURE 4: Projected Health Spending as Percent of GDP





The Legacy Effect

Burdened by health-care and pension costs, GM is losing share to nimbler foreign makers

\$2,200

\$1,525 on health care per vehicle
\$675 on pensions per vehicle

Source: Center for Automotive Research

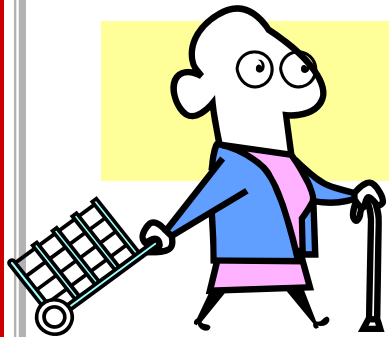
Isn't it automobile dependent syndrome?

A black SUV is parked on a grassy area. A dog is on a leash, standing to the right of the vehicle. The scene is outdoors with trees in the background.

Men...victimized by their own
(non harmonized) inventions

Automobile favors residential areas





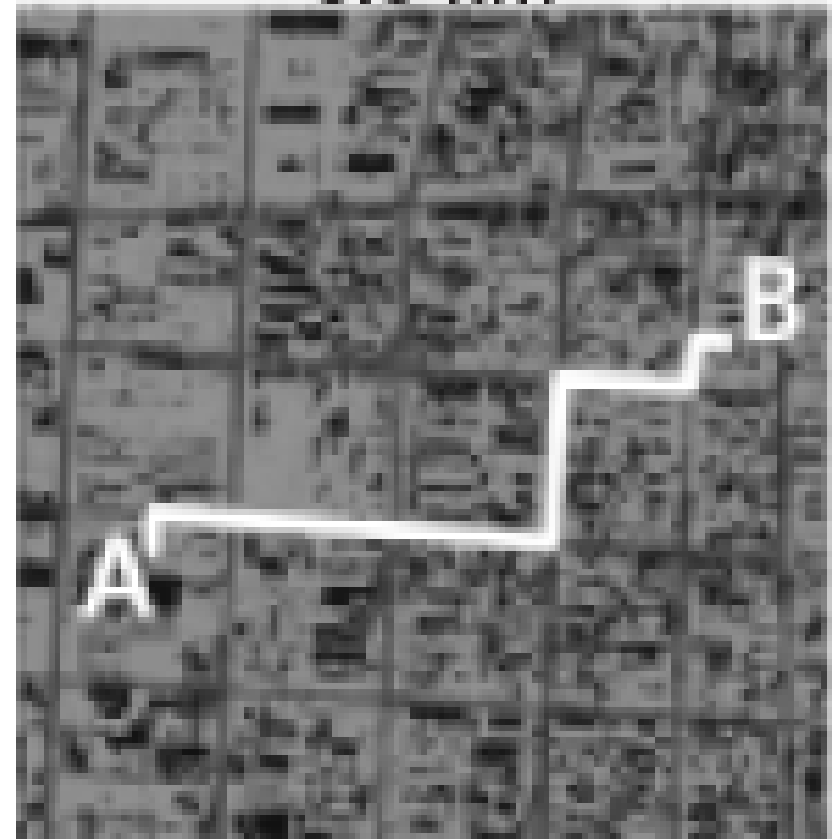
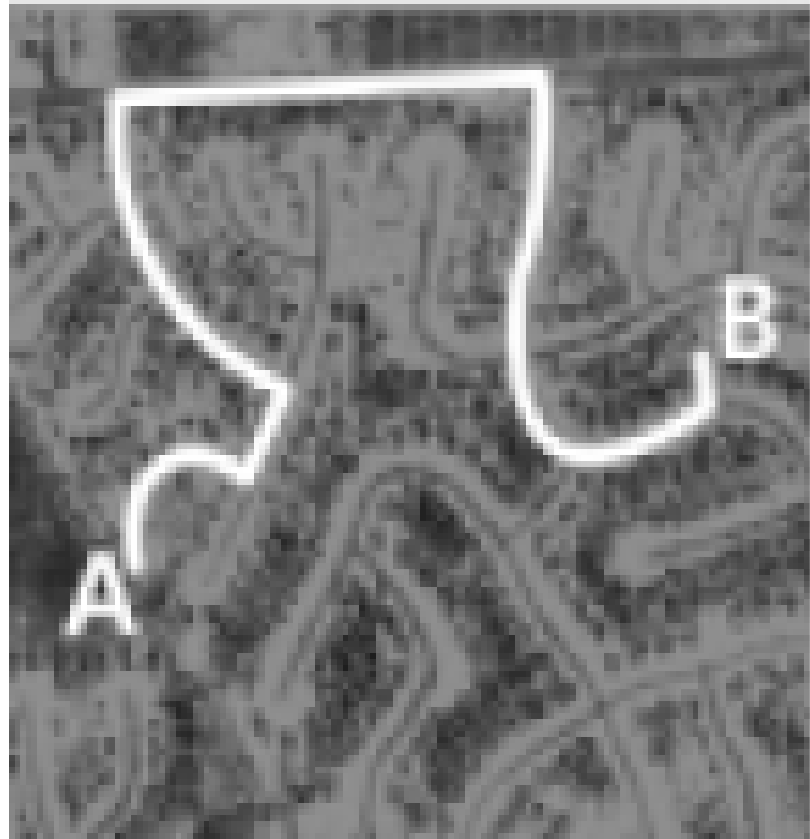
Walking distances

Comparing Distances

2 km

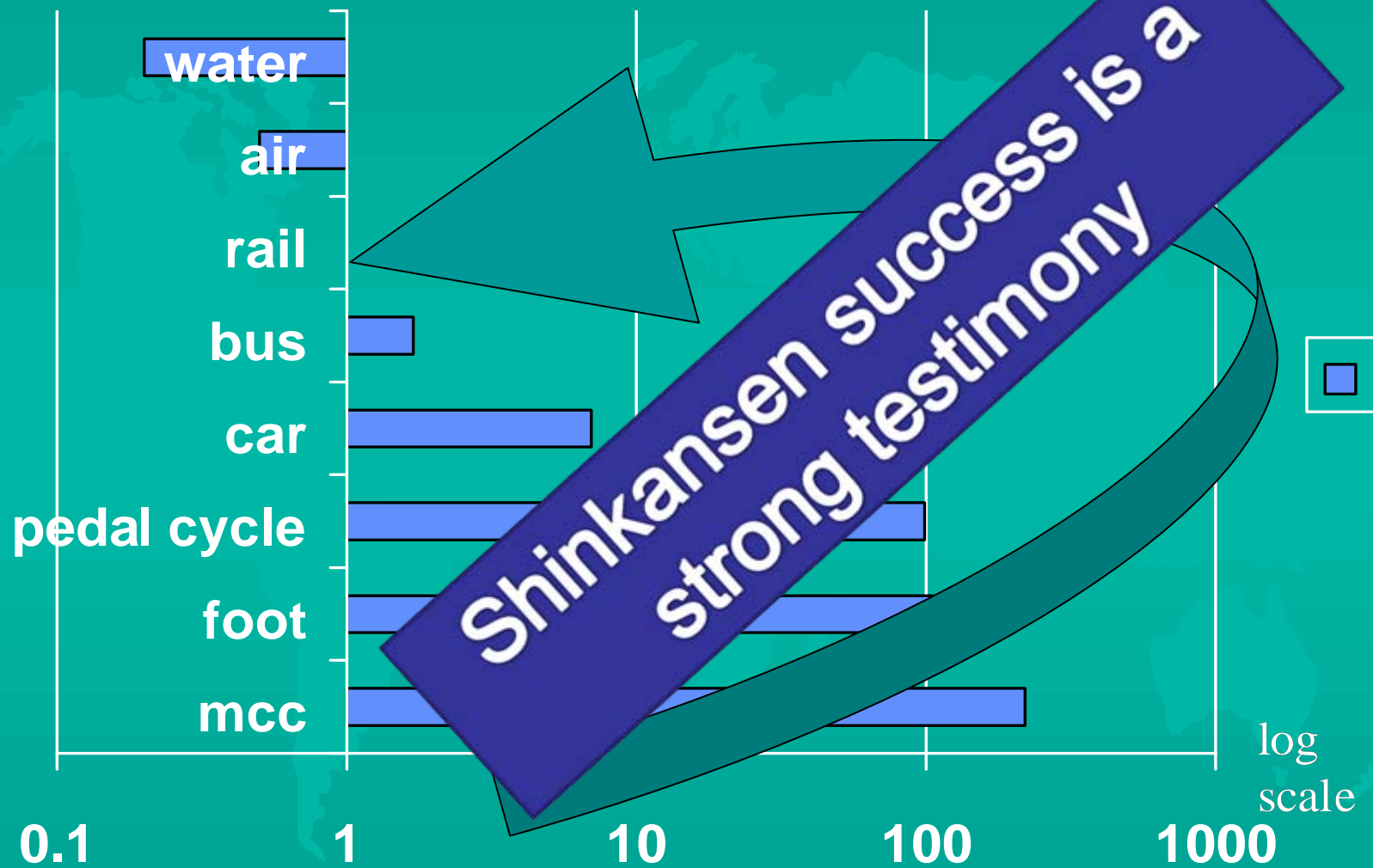
vs

0.8 km



Images are same scale, approximately 1.6 sq km

Risk of death by distance travelled, 1995



UK Dept Transport/the Economist Feb 21-27, 1998



Modal shift...the key

BRT



Fig. 10
Taipei travel.



More harmonized city planning



strolling, and taking in the

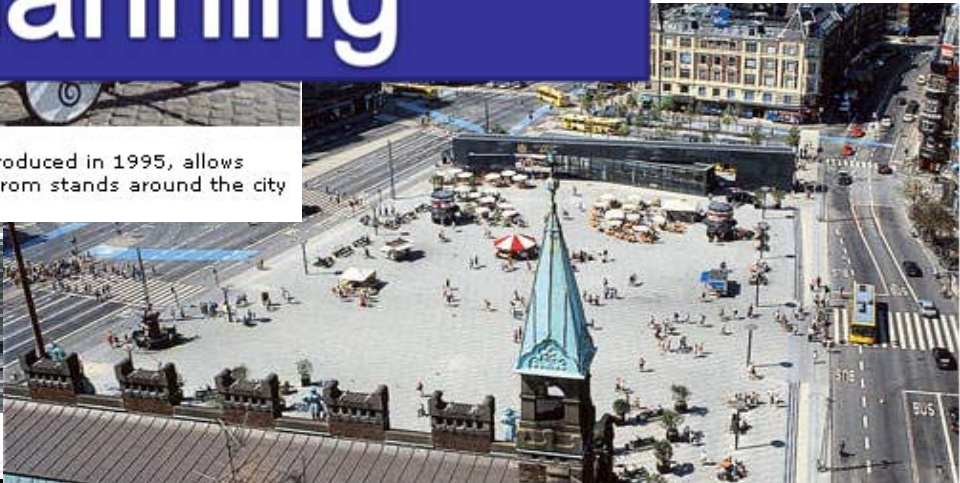
CITY BIKE

The City Bike system, introduced in 1995, allows anyone to borrow a bike from stands around the city for small coin deposit.

STRØGET

In 1962 Copenhagen's old main street became its first car-free street. It's now the central artery of the city's pedestrian street system.

Photo by Bob Kyst for the Danish National Tourist Office

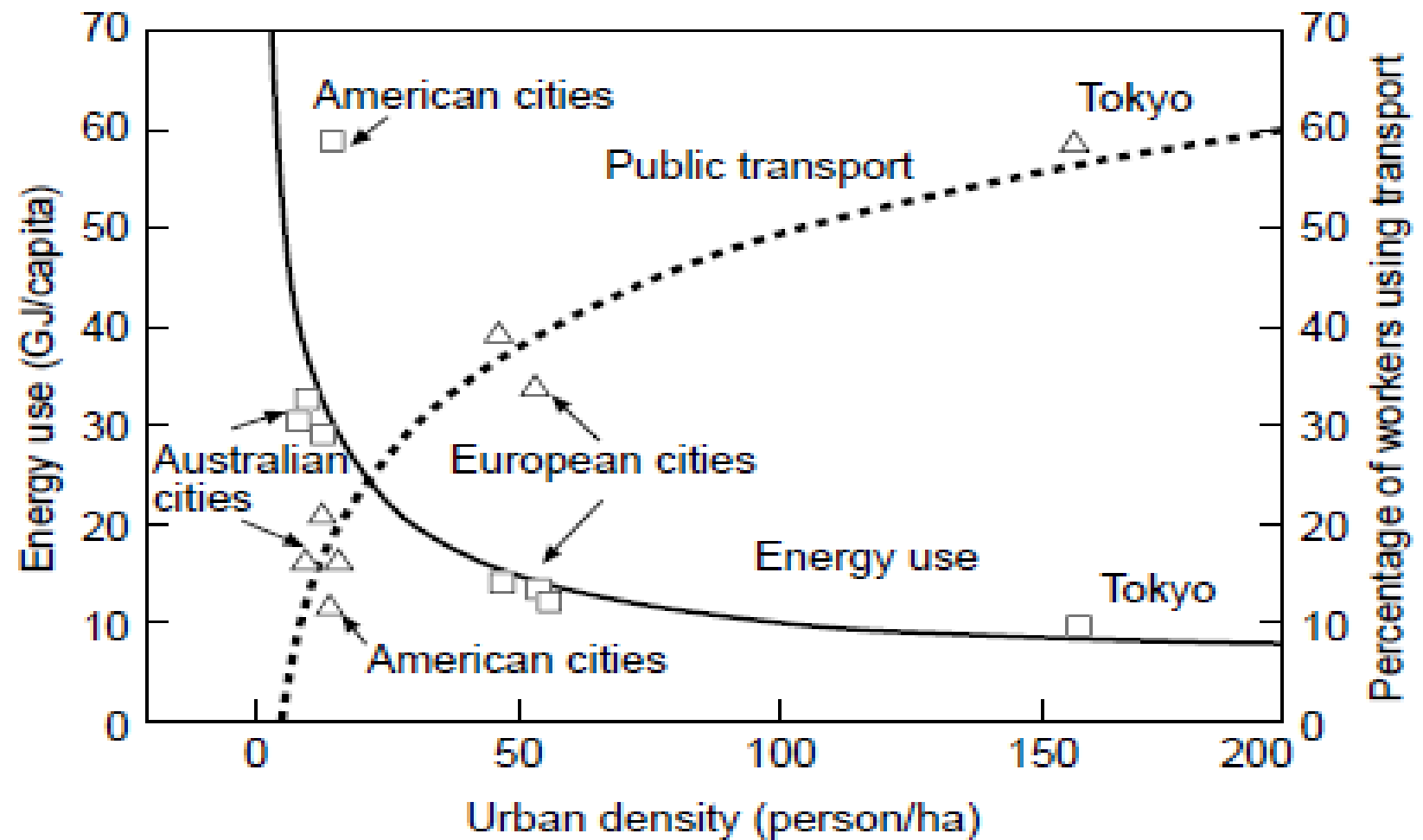


RÅDHASPLADSEN

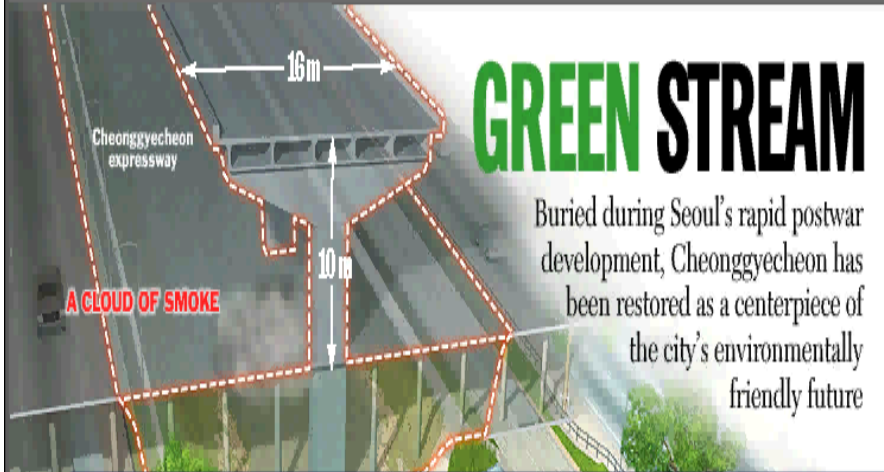
The central traffic artery was removed from Town Hall Square (above) in 1996 and given back to pedestrians.

Photo by Jan Gehl and Lars Gemzøe/Public Spaces-Public Life

Figure 1. *Urban density, energy use and public transport for the journey to work in a global sample of cities*

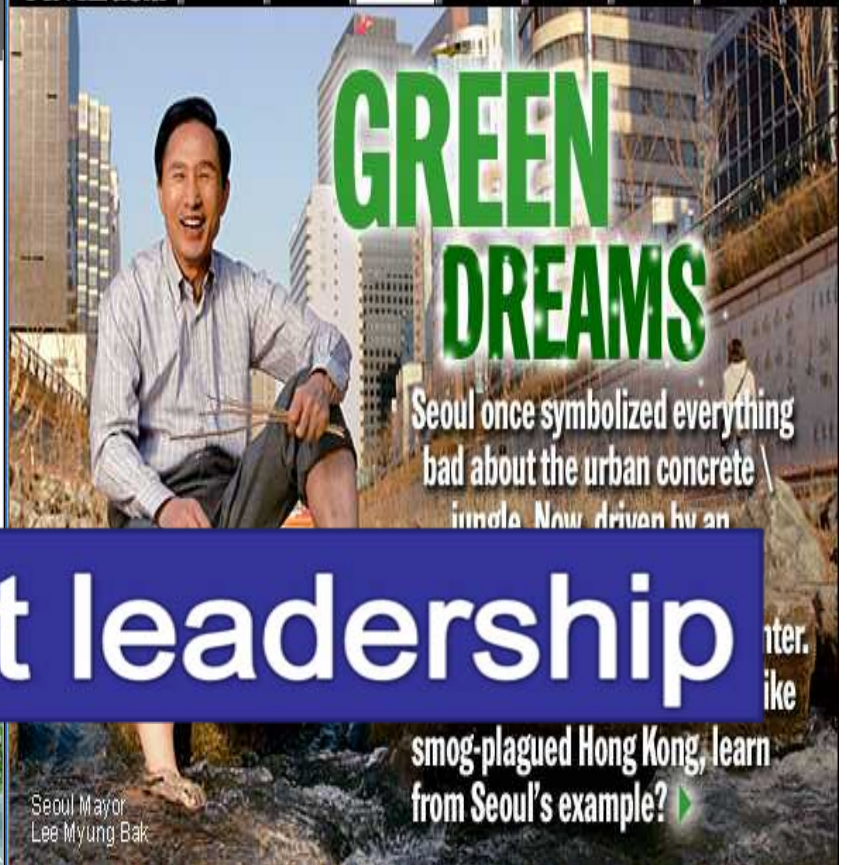


GREEN DREAMS



GREEN STREAM

Buried during Seoul's rapid postwar development, Cheonggyecheon has been restored as a centerpiece of the city's environmentally friendly future



GREEN DREAMS

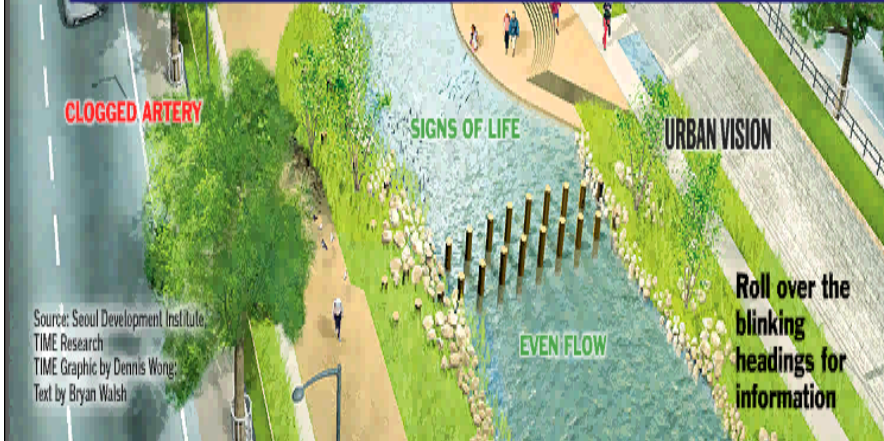
Seoul once symbolized everything bad about the urban concrete jungle. Now, driven by an

Strong smart leadership

ter. like

smog-plagued Hong Kong, learn from Seoul's example? ▶

Seoul Mayor Lee Myung Bak



Roll over the blinking headings for information

Source: Seoul Development Institute
TIME Research
TIME Graphic by Dennis Wong
Text by Bryan Walsh

greendreams.avi

Potential research areas

1. Externalities of BTS and MRT

2. Political-economy of

-city planning & implementation

-Transport planning & implementation

3. Alternative models of railway reforms