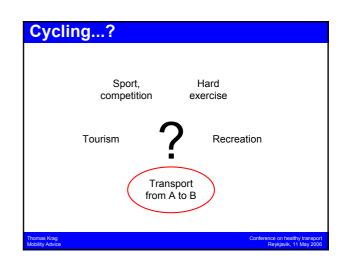
# The potential role of cycling in Iceland

An introduction to cycling in Europe and European cycle policies.

Cycling opportunities in Iceland on the short and long term.

Thomas Krag Mobility Advice Conference on healthy transport Reykjavik, 11 May 2006











# **Contents**

- · Cycling in Europe
- · Cycling strategies
- · Concerns
- · Possibilities for cycling in Iceland



# **Cycling in Europe**



### High levels of cycling

- · The Netherlands
- Denmark
- · Flanders, Belgium

### Medium levels of cycling

- · Germany
- · Switzerland, Austria
- · Sweden (south)
- · Finland (parts)
- · Some cities in Italy and France

# **Cycling in Europe**



### National cycling strategies

- Norway (2012-perspective, significant spendings)
- · Great Britain
- Germany
- Finland
- · Czech Republic

(The Netherlands, Denmark)

# **Cycling in Europe**



### Regional cycling strategies

- · North Rhine Westphalia. Germany (25 years, 50 mill. Euro spent per year)
- · Flanders, Belgium (4 years, 75 mill. Euro spent per year)

# Cycling in Europe



### Urban cycling strategies

- · Paris, Strasbourg, Nantes, ...
- · Geneva, Basel, Winterthur, ...
- · Vienna, Graz, Innsbruck, ...
- · Brussels, Gent, Antverp, ...
- Venice (Mestre), Bosen, Ferrara...
- · Stockholm, Malmo, Orebro...
- · Helsinki, Tampere, Oulu...
- · Cologne, Munster, Troisdorf, ...
- · Kristiansand, Sandnes, Drammen...
- · Odense, Copenhagen, Arhus ...

# Cycling in Europe Cycling at the EU level • Moderate ambitions in the Common Transport Policy • Research and development projects on cycling and mobility management, e.g.: - BYPAD; WALCYNG; TAPESTRY; INPHORMM • Publications on cycling: - Cycling – the way ahead for towns and cities; Kids on the move

# **Elements of a cycling strategy**

- Targets for cycle use (from NN to MM% in Y years)
- Targets for cycle safety (XX% less injuries in Z years)
- Other targets (e.g. cycle theft reduction, improved competitiveness, improved average cycling speed)
- · Measures to achieve the targets

Thomas Krag

Revkiavik, 11 May 2006

# Measures in a cycling strategy

- Communication
  - improvement of the image of cycling
  - information on concrete actions
  - cycle maps and other sorts of route guidance
  - signs and road marking
  - advice on relevant behaviour
  - various (other) campaign activities
- Infrastructure
  - redesign of intersections
  - provision of shortcuts for cyclists
  - provision of cycle parking facilities
  - provision of cycle tracks, cycle lanes, cycleways
- · Gimmicks to support the strategy

homas Krag

Reykjavik, 11 May 2

# Arguments for a cycling strategy • Environment • Health • Mobility, access, equity • Congestion \*\*Page of the property of

### A behavioural approach Stages of change -model: "I cycle regularly' "I tried, and cycle now would like and then" to try "Cycling cycling' might be an "Cycling is option" not relevant for me" More cycling will in any case be the result of a voluntary behavioral change, and represents a change of the transport culture.

# Is a cultural change possible here?

The Icelandic transport culture is already undergoing rapid changes. But is increased cycling a realistic option?

### Several concerns:

- weather
- · topography
- safety
- pollution
- · current transport distances

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# Concerns - general note

The basic question is, if *some* trips can be replaced by cycling trips.

It is not relevant, whether any trip is replaceable.

(The intention is not to replace cars with bicycles.)

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onference on healthy transport Reykjavik, 11 May 2006

# Concern 1: Weather

- Cycling tends to be more popular in countries with cold and even rainy weather than in hot countries.
- Rain will seldom occur during a cycling trip (less than 1:20).



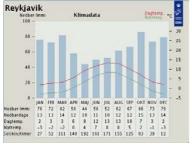
- It is usually much more pleasant to cycle in given weather conditions than what one would expect.
- It is possible to dress against being cold but not (yet) against being warm.
- You seldom experience temperatures below minus 5 degrees centigrade in Iceland (in contrast to e.g. Oulu in Finland, where many are cycling through the cold winter).
- High wind speeds occur in Iceland, but far from daily.

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# Concern 1: Weather

The weather in Reykjavik



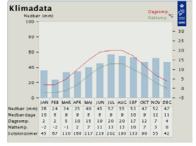
Source: Danish Meteorological Instit

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# **Concern 1: Weather**

The weather in Copenhagen



Source: Danish Meteorological Institute

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# **Concern 2: Topography**

- Cycling is generally more popular in flat than in hilly areas.
- Some hillyness can however be overcome especially with modern bicycles.
- Several examples of successful bicycle promotion schemes are known from mountaneous countries.
- Greater Reykjavik is, for the major parts, not especially hilly.

# **Concern 3: Cycling safety**

The short version

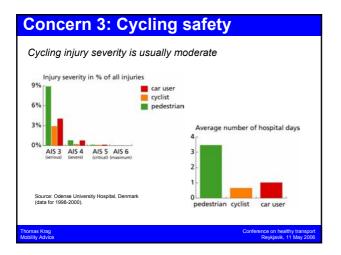
Cycling give rise to many cycling injuries – but:

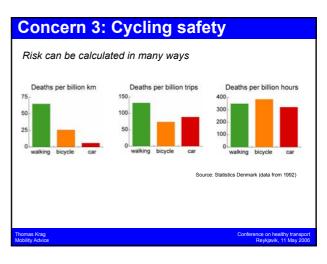
- · Most cycling injuries are minor injuries.
- Non-transport activities like off-road cycling and children playing with bicycles are usually included in the figures.
- · Skilled cyclists experience only few crashes.
- The perceived danger is less the more people are used to bike
- · Cycling becomes safer the more people who cycle.

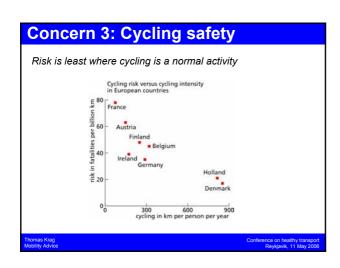
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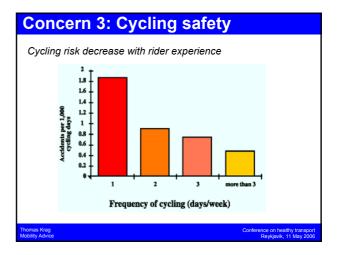
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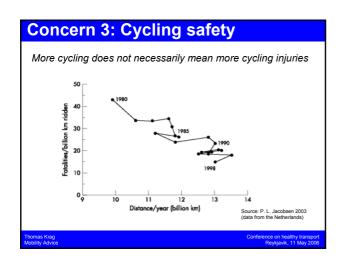
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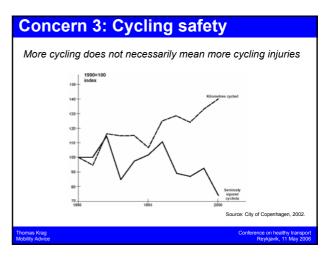


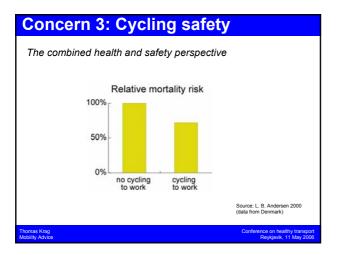


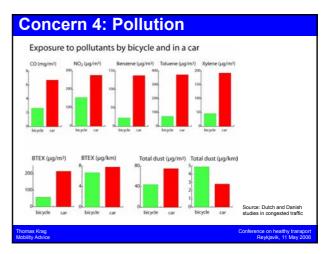












## **Concern 4: Pollution**

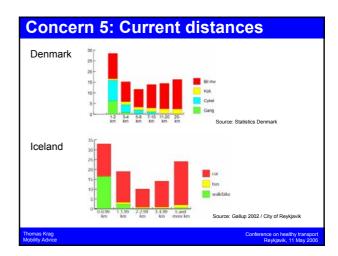
Pollution *is* a problem – especially ultrafine particles are found to threathen health.

Cyclists don't emit any dangerous substances, so from this point of view cycling is desirable.

Studies usually show that cyclists are not more – and sometimes even less – exposed to pollutants than car users or users of public transport.

For the individual, cycling will thus not be a 'sacrifice' for the common good. There is no rational reason not to cycle.

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# Transport in Reykjavik - % of all trips Transport in Reykjavik - % of all trips Ource: Gallup 2002 / City of Reykjavik Worth noting: 52% of all trips are less than 2 km 76% of all trips are less than 5 km - a huge cycling potential exist Conference on healthy transport Reykjavik, 11 May 2008

## **Concerns in conclusion**

Icelandic conditions are special - yes.

But it is difficult to find reasons not to promote cycling as a means of transport in Iceland.

Several trips currently undertaken by car (and several walking trips) can be replaced by bicycle trips.

It is rather a question on how than of why not.

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## How to promote cycling in Iceland

### Short term:

- Increase cycle use at current facilities by marketing (communication) activities
- · Initiate long term planning

### Long term:

- · Realise plans for improved conditions
- Continue marketing (communication) activities towards more cycle use

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### A few words on facilities

- A network should be in place enabling cycling from A to B.
- Special on route facilities for cycling are not generally necessary:
  - Cycling in mixed traffic together with cars is safe and convenient at moderate car speeds and moderate and even high car traffic levels.
  - High car speeds and high car traffic levels make separate facilities necessary (a full separation of motorised and non-motorised traffic is however not desirable).
- Use of pedestrian space is a fair starting point but shared road space is actually more natural.
- · Several shortcuts can be introduced.

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