



I  OULU

OULU – THE WINTER CYCLING CAPITAL



Timo Perälä, Navico Oy

Green Ways for Green Cities

14.05.2013

Photo: City of Oulu

INDEX



1. INTRODUCTION TO WINTER CYCLING

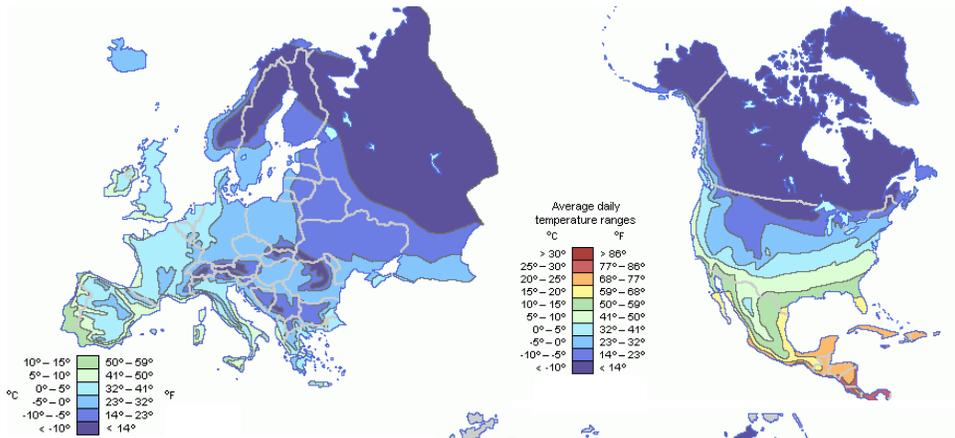
2. TOP TEN WINTER CYCLING CITIES

3. WHY OULU IS THE WINTER CYCLING CAPITAL?





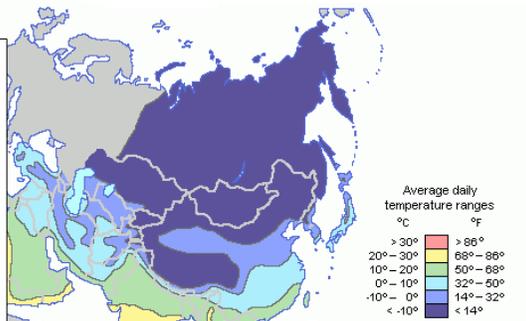
WINTER IN THE WORLD



AVERAGE TEMPERATURES IN JANUARY

"Talking about the weather - a never ending story"

Maps by Grolier online atlas go.grolier.com





HOW WINTER CYCLING IS OFTEN THOUGHT OF...

Photo by Hagbard...



GENERAL ATTITUDES TOWARDS WINTER CYCLING IN THE WORLD

EXTREME!!
DANGEROUS!
ARE YOU NUTS?

Photo: City of Oulu

STATE OF WINTER CYCLING IN THE WORLD



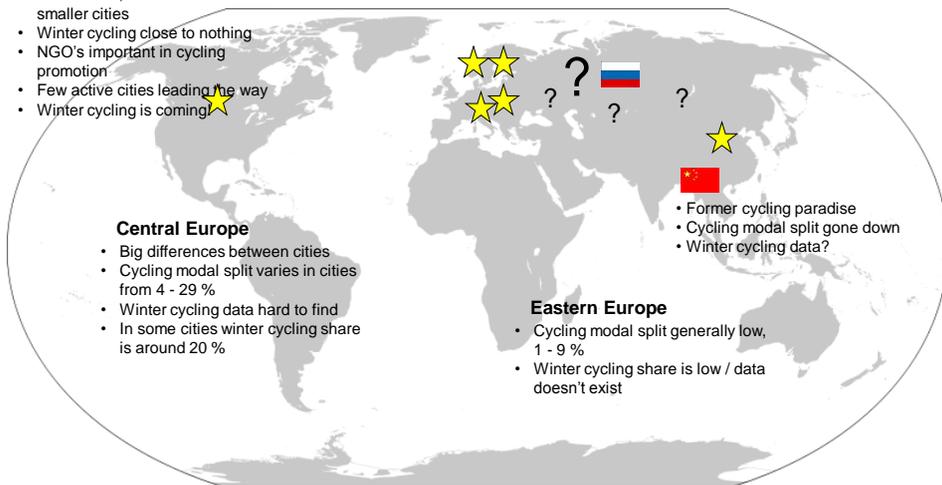
- Car dominant cities
- Cycling modal split low in bigger cities 0-3 %, around 10 % in some smaller cities
- Winter cycling close to nothing
- NGO's important in cycling promotion
- Few active cities leading the way
- Winter cycling is coming



- Cycling modal split less than 10 %
- Winter cycling share around 20 %



- Winter cycling common in some cities
- Long winter maintenance tradition
- Sweden: Cycling modal split ~10-30 %, winter cycling share 30-50 %
- Finland: Cycling modal split ~10-20 % in winter cycling share 20-35 %



STATE OF WINTER CYCLING IN THE WORLD: CONCLUSION



FROM 0 – 50 %

SAME OBSTACLES

SUCCESS STORIES AND PROGRESS

Photo: Timo Perälä

CYCLING DURING WINTER TIME IN CENTRAL EUROPE



WINTER CYCLING IN THE NORTH OF EUROPE



DIFFERENT WINTER CYCLING CULTURES



Toronto

Pictures: www.toronto.ca



Helsinki



Oulu

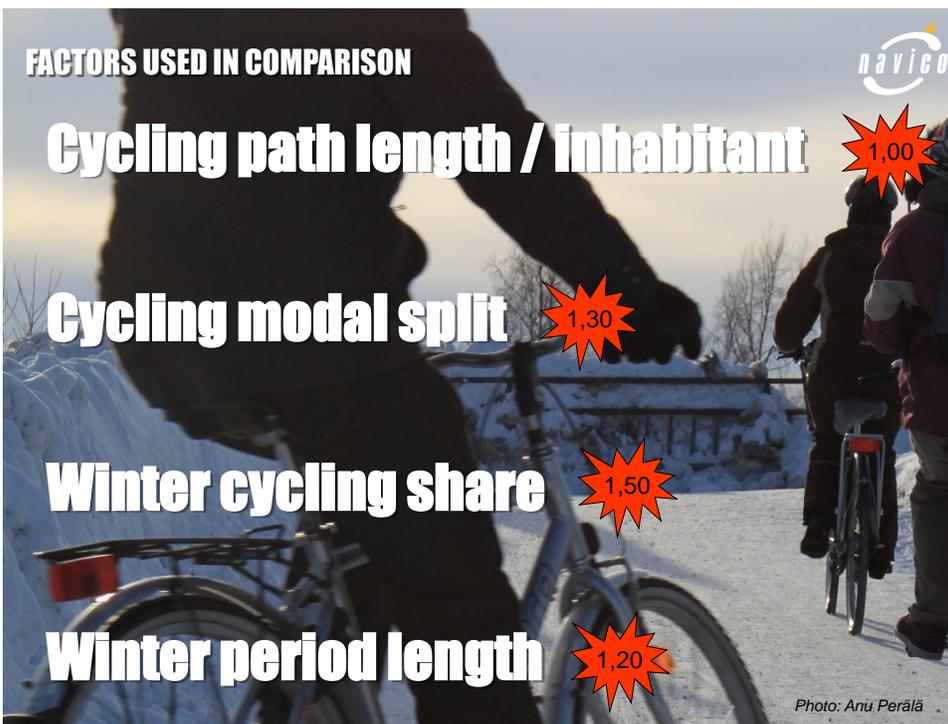
Photo: Anu Perälä

OULU – THE WINTER CYCLING CAPITAL

OULU, NO 1 WINTER CYCLING CITY IN THE WORLD

A literature study
Hundreds of cities studied,
approximately 60 more closely

Photo: Pekka Tahkola

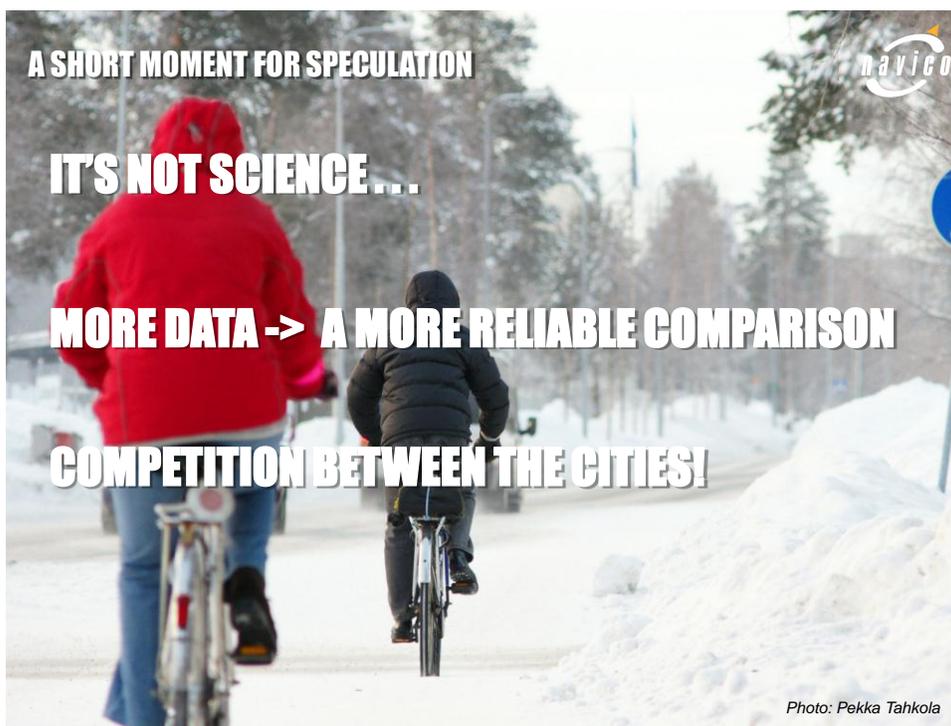


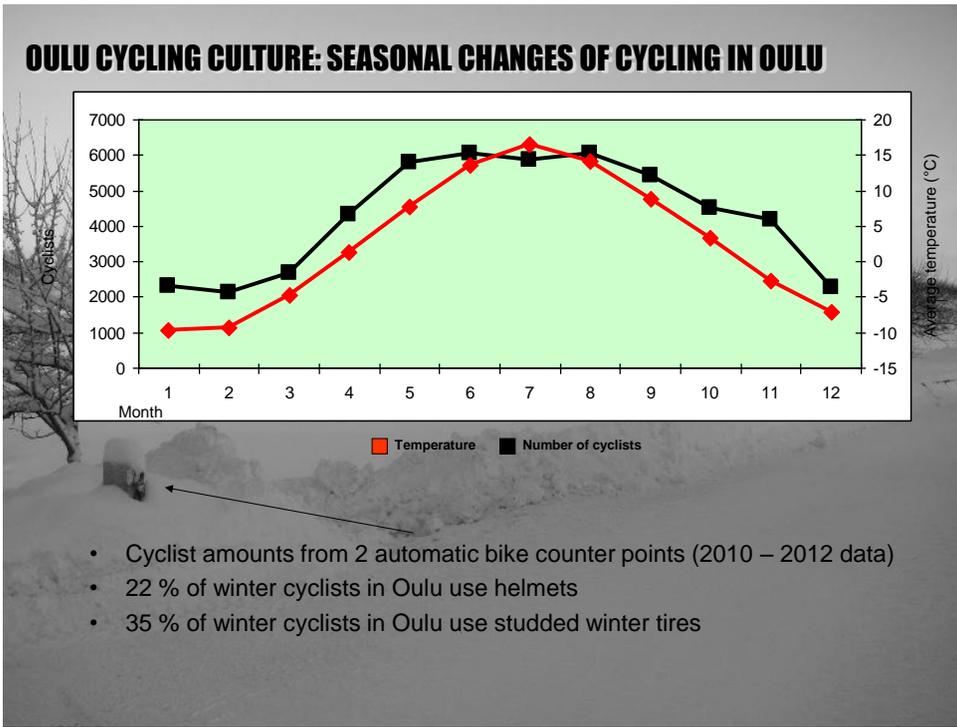
TOP TEN WINTER CYCLING CITIES

- Points were given from 1-7 in each category, then multiplied by the coefficient
- Cities over 50 000 inhabitants were taken into consideration
- Approximately 60 cities from 12 countries studied more closely

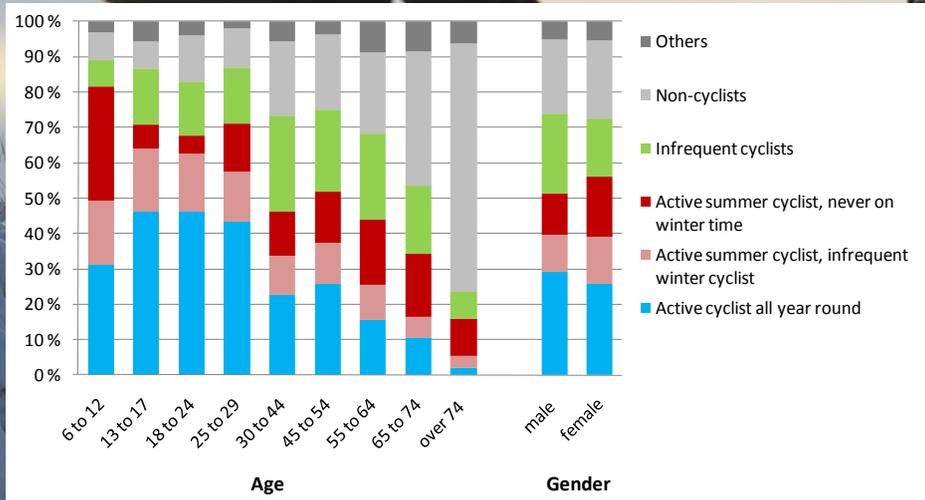
Rank	Country	City	Cycling mode split ^{1,30}	Winter cycling share ^{1,50}	Cycling network / inhab. ^{1,00}	Average thermal winter length + snow days ^{1,20}	Points
1.		Oulu	22 %	33 %**	4,3 m	256	27,5
2.		Linköping	30 %	40 % *	3,4 m	147	27,0
3.		Uppsala	28 %	41 % *	2,7 m	165	25,9
4.		Umeå	22 %	37 % *	2,8 m	225	25,7
5.		Örebro	28 %	51 % **	1,6 m	145	24,9
6.		Joensuu	32 %	19 % **	3,9 m	281	24,6
7.		Karlstad	18 %	50 % *	2,8 m	177	23,3
8.		Rovaniemi	12 %	28 % **	2,0 m	321	22,6
9.		Jyväskylä	13 %	20 % *	3,5 m	270	20,9
10.		Luleå	10 %	24 % *	1,7 m	249	18,9

* Data from city webpages / surveys / questionnaires
 ** Winter cycling share from automatic bike counters





OULU CYCLING CULTURE: CYCLIST PROFILE



OULU CYCLING CULTURE: MOTIVES AND OBSTACLES

Active winter cyclists

➤ BECAUSE IT IS (in order of importance)

- good exercise
- the quickest
- the cheapest
- the feeling of freedom to move
- psychical reasons (feels good!)
- other reasons
- green way of living
- good bicycle connections
- don't own a car
- poor public transport connections
- I enjoy rough, extreme conditions

➤ WHAT REDUCES YOUR CYCLING?

- coldness
- slipperiness
- snowing, sleet, bad weather in general
- too much snow on the path
- nothing is stopping me!
- too many things to carry
- other reasons
- if the distance is too long
- laziness
- bike gets broken



Answers from the Finnish national winter cycling survey in 2001

OULU CYCLING CULTURE: OBSTACLES FOR OULU SUMMER CYCLISTS

Active summer cyclists

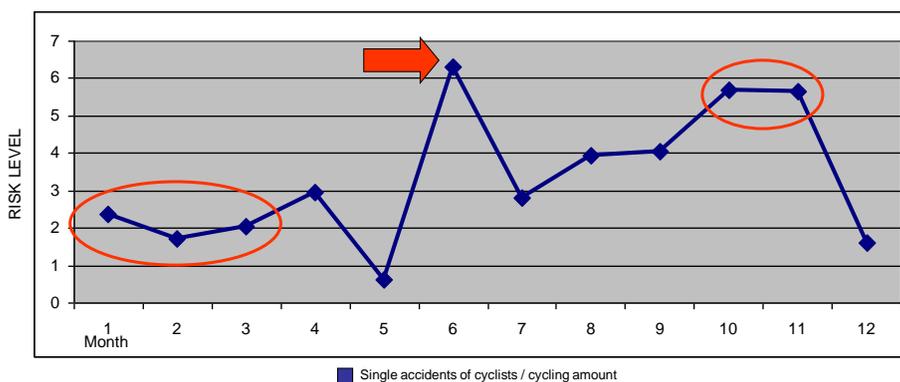


> I STOP, BECAUSE..

- too slippery
- too cold
- too dangerous
- poor level of winter maintenance
- too difficult
- other reasons
- distance is too long (in winter)
- no shower or other utilities at the destination
- health issues preventing
- it takes too long time in winter time
- poor bicycle parking facilities
- too dark

OULU CYCLING CULTURE: WINTER CYCLING SAFETY IN OULU

- Is it dangerous to cycle during the winter?
 - Especially women are more afraid than men of falling down due slippery route conditions
 - 50 % of active women summer cyclists think it's dangerous and they stop cycling when winter arrives
 - According to the statistics winter cycling is safer than cycling during summertime (less speed, less traffic, more clothes, softer surface)







TOP CLASS WINTER MAINTENANCE



WE KNOW THE CRITICAL SPOTS...

AND TIMES!

© Timo Perälä

OULUN SEUDUN LIIKENNETIETO

Autoliikenne Joukkoliikenne Pyöräily ja Kävely OmaLiikenne Muut palvelut

Feedback Instructions FAQ

From (e.g. Arkipolku 6) To (e.g. Hiltomajantie 11)

Mode of transport: Cycling

Routing profile: Shortest route

Consider winter maintenance

SEARCH

Search result

Length: 2,6 km
Speed: 17 km/h
Duration: 9 min

Route: Rapakallontie 1, Oulu
Alppila
Toppila
Taura
Taura
Koskikeskus
Taura
Koskikeskus
Pääsaari
Pursiö 8, Oulu

Hae palveluita

Energy consumption:
276 kJ / 66 kcal = 1 pieces of chocolate
552 kJ / 132 kcal = 3 pieces of chocolate
Walking and cycling do not produce direct greenhouse gas emissions.

Search instructions: Search for a route by clicking on the departure and destination points on the map or by entering street addresses.

Points of Interest: 16

Winter maintenance: Show on map

Routes: Two lakes route (Shortest route)

Winter maintenance
Maintained by the city, class 2
Snow average 3 cm. Snow ploughing as soon as possible after class 1.
Oulun tekninen liiketalous (Tekli)
Ilmari Kytönen 044 703 2232
After office hours 044 703 2208
Firstname.lastname@oulu.fi

Shortest

Winter maintenance considered

TOP CLASS WINTER MAINTENANCE

INNOVATIVE SERVICES



Photo: Mauri Myllylä

THANK YOU! ANY QUESTIONS?