



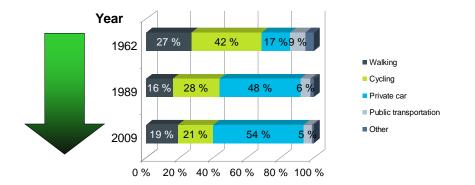


Rotuaari





MODAL SPLIT DEVELOPMENT





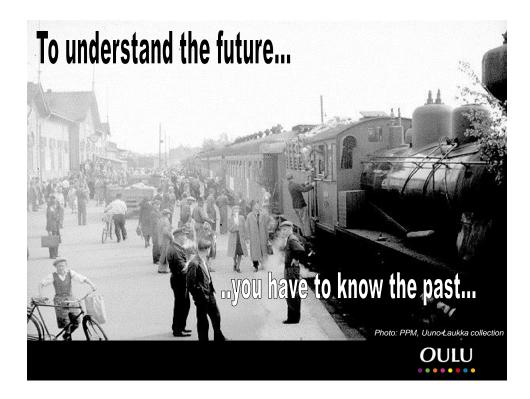
MODAL SPLIT IN FINNISH CITIES

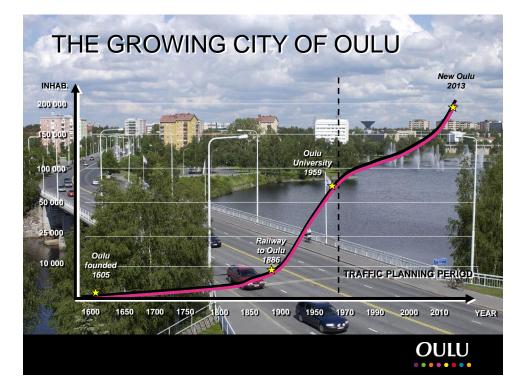
	Oulu	Helsinki	Tampere	Jyväskylä	Turku	Lahti
Walking Cycling	19 21	26 7	28 4	22 14	30 13	26 14
TOTAL	40	33	32	36	43	40
Public transportation	5 ★	26	16	6	9	5
GREEN CITIES?	45	59	48	42	52	45
Private car	54*	39	50	58	48	55

🛨 = a major challenge

Source: EPOMM Modal Split Tool

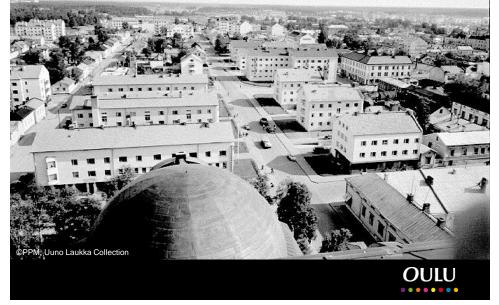


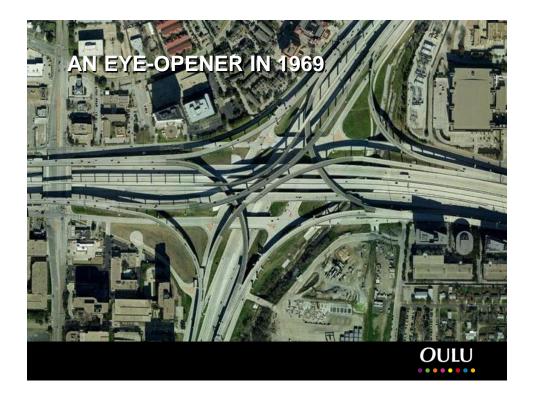






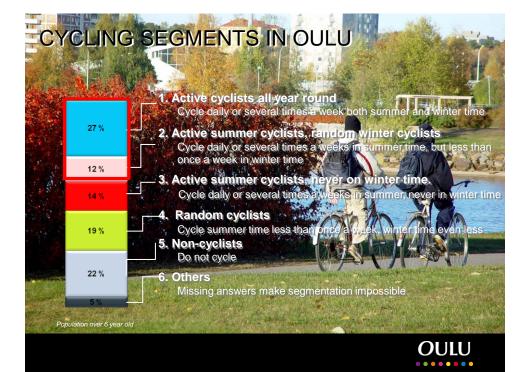
TRAFFIC PLANNING PROCEDURES WERE CREATED, FIRST STEPS TAKEN











CYCLING MILESTONES IN OULU

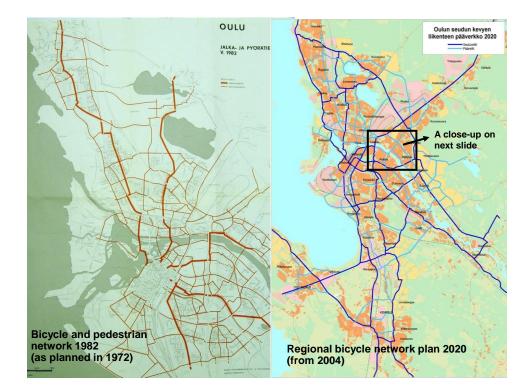
1969 Transport System Plan

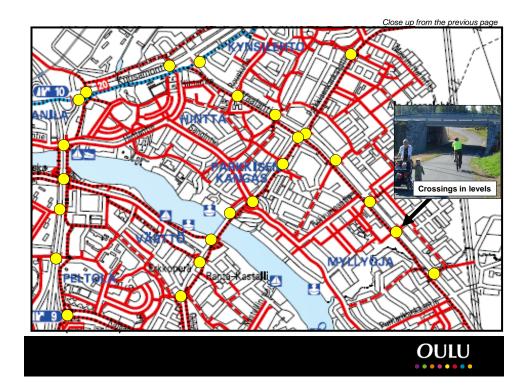
- walking and cycling were included for the first time

- 1972 Development Plan of Bicycle and Pedestrian Traffic
 - extensive network separated from car traffic covering the whole city
 - separate funding for bicycle and pedestrian projects (also a lot of construction using other funding sources)
 - since then cycling and pedestrian planning have been a "part of the system"
- 1981 Development Plan of Bicycle and Pedestrian Traffic in City Center
- 1987 Pedestrian zone Rotuaari opens in the city centre
- 1993 Rotuaari extensions were made
- 2007 Strategy for Bicycle and Pedestrian traffic
 For the whole Oulu Region (Oulu + 12 municipalities + Road Authority)
- 2010 Development Plan of Bicycle and Pedestrian traffic
- 2011 2013 Rotuaari extensions, heating
- 2012 Cycling trip planner service









KEY FACTORS FOR CYCLING SUCCES IN OULU

Human factors

- Cycling was understood to be an equal mode of transportation right from the beginning
- Became an essential tool in traffic and area planning
- Conflict of interests between traffic modes were found nonexistent

Political factors

- Extensive political unity was achieved in 1980's
- Political support has been an essential tool for the success
- Residents are proud of the cycling network
- Economical factors
 - A separated funding from the year 1972
 - Though mainly the network is funded trough larger traffic infrastructure investments







KEY FACTORS FOR CYCLING SUCCESS IN OULU

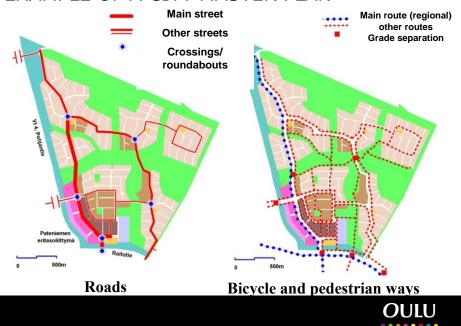
Technical factors

- Regional accessibility as the baseline
- Quality demand: paved, street lights, winter maintenance
- Cycling routes planned to go inside the city structure
- Continuation important -> expensive solutions were needed
- Crossings with busy streets and roads in levels
- Shared space with cars on low trafficked residential streets
- Car free city centre





EXAMPLE OF A CITY MASTER PLAN





ROTUAARI – PEDESTRIAN ZONE IN THE HEARTH OF OULU

- 1967 the first try
- 1976 the second
- Third time succeeded in 1986
- Extensions in 1993 and 2011
- Heating 2011 2013





24.5.2013







