

# The Geodetic Infrastructure in Europe - today and tomorrow



26-27 May 2011 • Umeå • Sweden

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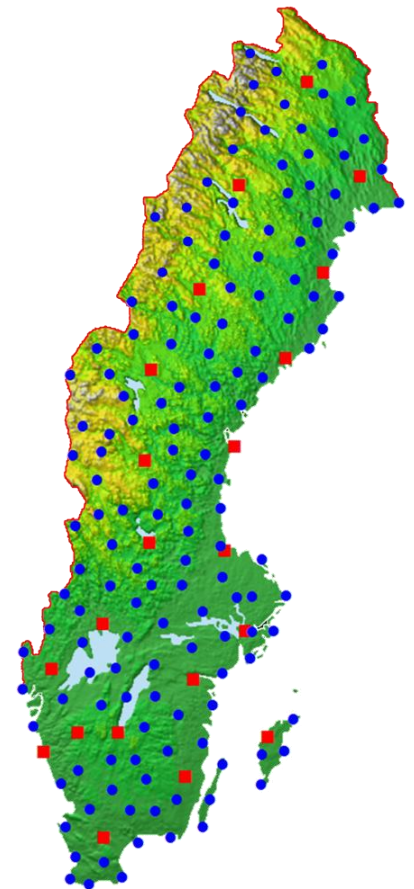
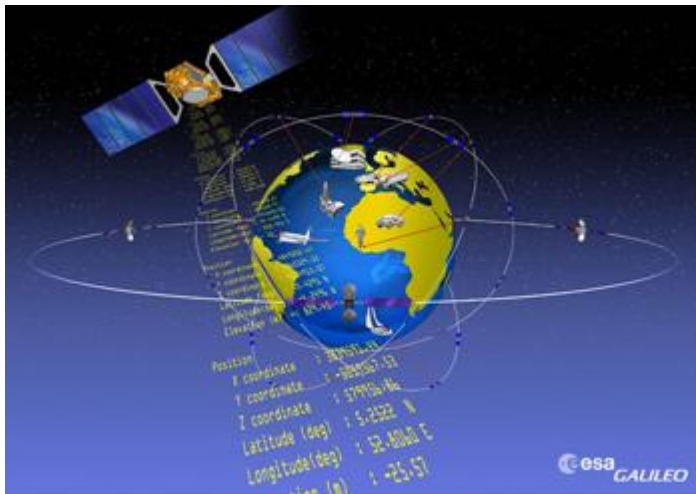


TYRÉNS

# The Geodetic Infrastructure in Europe – today and tomorrow

## • Technical developments

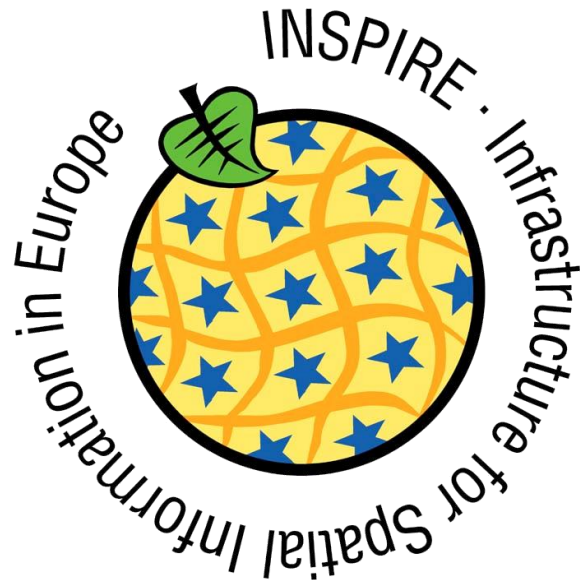
- GNSS – GPS, GLONASS, Galileo etc.
- CORS – networks within Europe.



# The Geodetic Infrastructure in Europe – today and tomorrow

## •Initiatives and trends

- on the European level
- on the National level



geodatastrategi 2009

# The Geodetic Infrastructure in Europe – today and tomorrow

## •The future users of our geodetic infrastructure

- Cadastre
- Navigation
- Construction
- Agriculture
- Recreational activities
- ...





# Europe – Sweden – Västerbotten – Umeå

## Umeå in figures <sup>x</sup>

Umeå was founded: 1622  
Inhabitants: 113 000  
Average age: 38  
Students: 30 000  
Associations: 600  
Birches in the city: 3000  
Hours of sun p.a.: 1800  
Sunrise on 21 June: 02.21  
Sunset on 21 June: 22.59



Zoom in



# City of Birches grew from the ashes

x

## History of Umeå

- 3000 B.C.** Rock carvings prove existence of the first "people of Umeå".
- 1000 B.C.** Settlements appear along the shores.
- 1622** Umeå is founded by King Gustav Adolf II.
- 18th c.** The city burns, a bit at a time.
- 1888** Huge fire in the city, 77 % of inhabitants homeless.
- 1901** The first Umeå regiment.
- 1929** Nyströms Karosseri was founded (now Volvo Truck Corporation).
- 1957** Umeå Hospital, regional hospital for upper Norrland.
- 1965** Umeå University opens.
- 1995** 100 000 inhabitants, increased from 50 000 in 1966.



# Communications

## UMEÅ – ARLANDA 60 minutes

### Air, rail, road and sea

x

Fly Umeå–Stockholm, 50 minutes.

Night trains to Stockholm and Gothenburg, every day.

The Bothnia Line to be commissioned in 2010.

European motorways 4 and 12 pass through Umeå.

Ferry to Vaasa in Finland.



# Capital of Culture



## Umeå 2014

x

Umeå has been appointed European Capital of Culture in 2014.

Umeå will be sharing its place as European Capital of Culture with Riga, Latvia.



# Cultural heritage of the Sami people

## Ubmejen Biejvieh

Sami Week in Umeå, approx.  
20 000 visitors.

Umeå was and continues to be  
reindeer pastureland.

x





# Umeå – Growth

Umeå Culture Sport Commerce **Growth** Education Leisure Future



# Umeå growth

## Skilled workforce

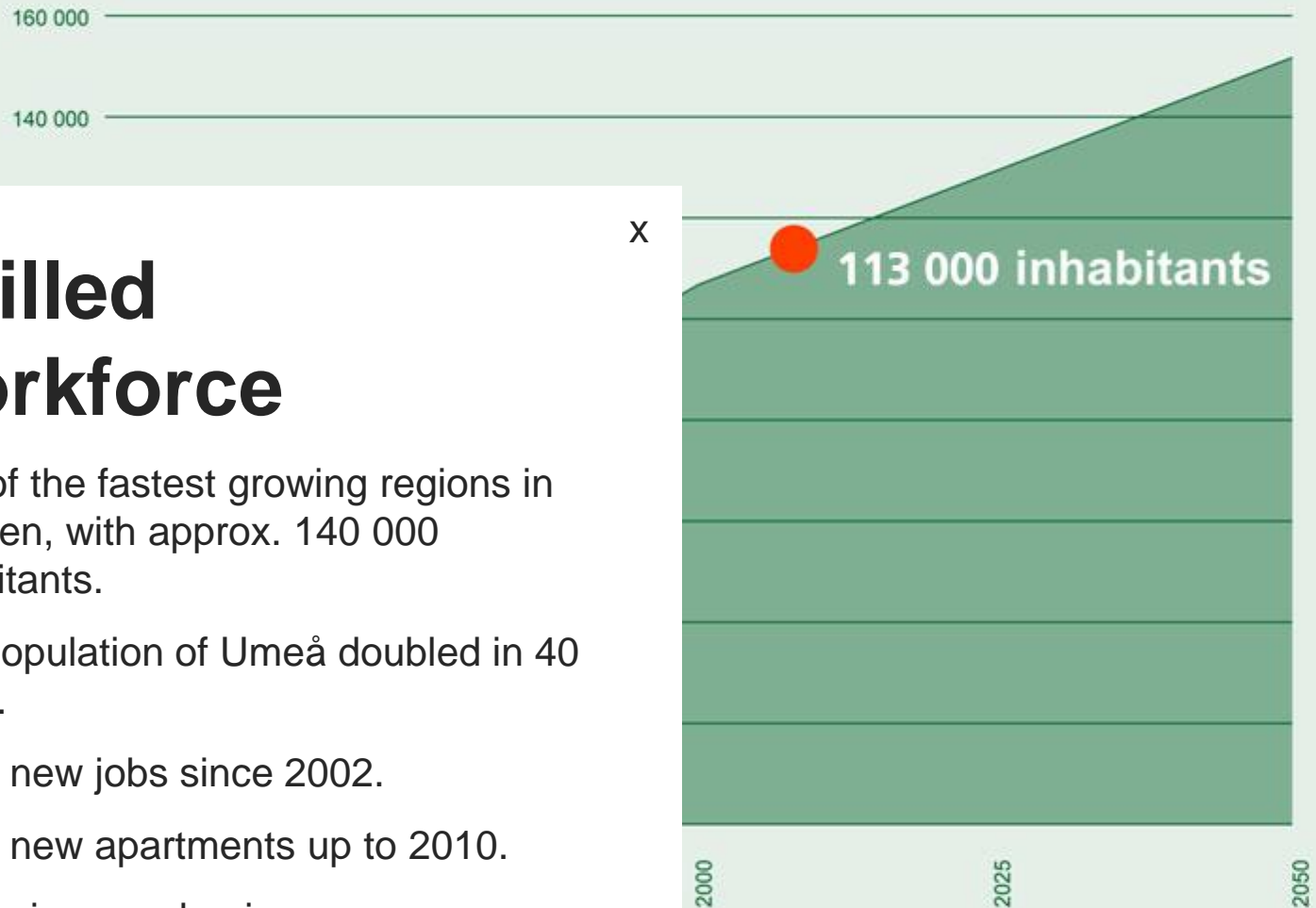
One of the fastest growing regions in Sweden, with approx. 140 000 inhabitants.

The population of Umeå doubled in 40 years.

3 000 new jobs since 2002.

3 500 new apartments up to 2010.

Increasing new business.



# Best student city in Sweden 2006

x

## Two universities – one campus

Umeå University: 33 000 students,  
4 000 staff.

Swedish University of Agricultural  
Sciences: 600 students, 450 staff.

There are shops, pubs, cafés, the  
students' union and IKSU – the  
biggest exercise and sports facility in  
Europe – on campus.



# Six colleges at Umeå University

## From aesthetics<sup>x</sup> to economics

Institute of Design  
Academy of Fine Arts  
School of Environmental Studies  
School of Restaurant and Culinary  
Arts  
Institute of Technology  
School of Business and Economics



# Welcome to Umeå 26-27 May 2011

Umeå

