

# Tampere Today



# On the banks of the rapids



# City of Tampere

The King of Sweden, Gustav III, founded in 1779 a city in the old marketplace by the Tammerkoski rapids for industry and trade

- Leading industrial city of Finland since the beginning of 19th century
- Biggest inland city of the Nordic countries
- Population:

Year	Number
1779.....	200
1820.....	1,000
1865.....	5,500
1875.....	8,500
1895.....	25,000
1910.....	55,000
1950.....	105,000
1970.....	160,000
2003.....	200,000
2011.....	213,000



# Main industrial areas in the 19th century

## **Textile industry**

- Finlayson cotton mill in 1820
- Wool factory Tampereen Verkatehdas, presently Tamfelt, in 1856
- Tampere cotton and iron industry Pellava- ja Rauta-Teollisuus Oy i.e. Tampella in 1861
- Lapinniemi cotton mill in 1897

## **Paper industry**

- First paper mill of Finland in 1783
- First paper machine of Finland in 1842, J.C. Frenckell & Son
- Second groundwood mill of Finland in 1865, today M-Real Tako paperboard mill

## **Engineering industry**

- Blast furnace Masuuni in 1843
- Tampere cotton and iron industry Pellava- ja Rauta-Teollisuus Oy i.e. Tampella

# Finlayson cotton mill

- Founded by James Finlayson in 1820
- Locomotive of growth of Tampere and Finnish industrial development
- First large-scale industrial enterprise and creator of textile industry
- Factors of success in the 19th century: progressive production technology, tax reliefs and exportation to St-Petersburg
- Capital from Russia, know-how from Europe, labour from Finnish rural areas
- "State in a city"
- In 1837 "Kuusvooninkinen", the most modern industrial building of Nordic countries
- In 1882 the electric lights of weaving mill Plevna were the first in the Nordic countries and the fifth in Europe
- At the beginning of the 19th century the weaving mill had 1,200 weaving machines
- In 1840 the number of workers was 200, in 1870 over 2,300, and in 1900 over 3,000 (biggest in the Nordic countries)
- Valuable buildings restored to shelter offices, exhibitions and business premises
- Transformation of the Finlayson plant area into multifunctional and living city bloc was rewarded in 2004 with International DIFA Award

# The first in the world

- 1974 NMT-call
- 1984 Biodegradable implant (Bioscience/Bionx)
- 1985 Electromechanical film
- 1991 GSM-call
- 1995 Walking forestry engine (Timberjack, now John Deere Forestry Oy)
- 1996 Personal Digital Assistant (Nokia)
- 2001 Game and videophones (Nokia)
- 2002 eCard (eTampere/Infocity)
- 2003 FogScreen
- 2003 Automatic container terminal
- 2006 Antibiotic biodegradable implant

# Attractive growth centre



# Attractive Tampere

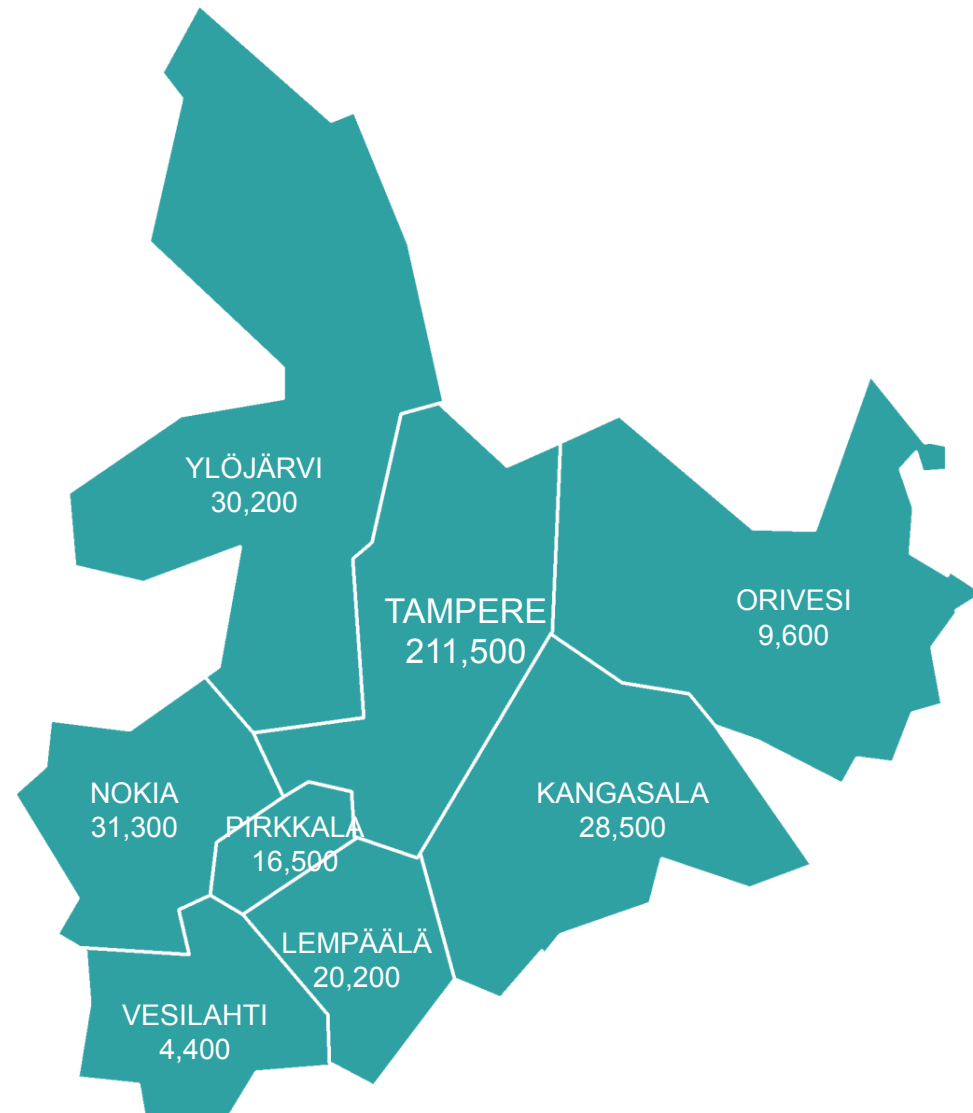
- The most inviting city for living  
*Survey 2010 on willingness to move ,  
Taloustutkimus Oy*
- Among the two best in imago comparison  
between the biggest cities of Finland since  
2000  
*Taloustutkimus Oy*
- In comparison of European middle-sized cities  
in 2007 ranked 6th (European Smart Cities, 70  
cities in total)  
*Vienna University of Tecnology in cooperation with  
Ljubljana University and Delft University of  
Technology*





# Tampere and Tampere Central Region in figures (2010)

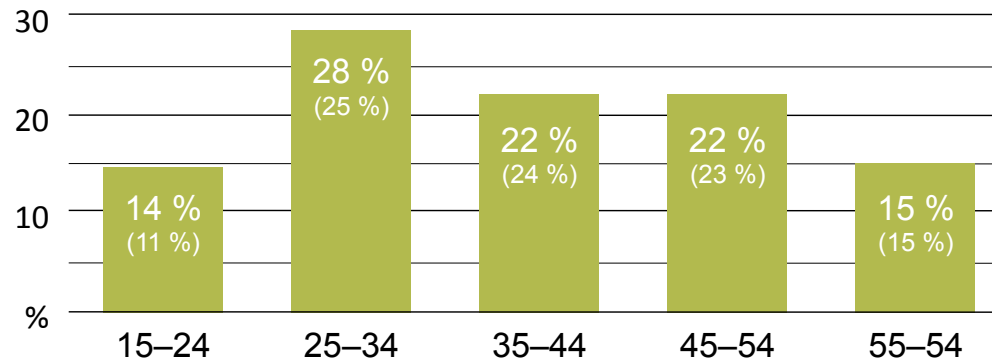
- Tampere has 213,345 inhabitants, 3rd biggest city of Finland
- Tampere Central Region has 356,826 inhabitants, 2nd biggest growth centre of Finland
- Net migration into Tampere Central Region 2,100 inhabitants
- 2/3 of the Finns live within 200 km range from Tampere
- In Tampere Central Region GDP/inhabitant over 35,000 Euros (anticipated information 2009), GDP-index 108 (Finland=100)



# Labour

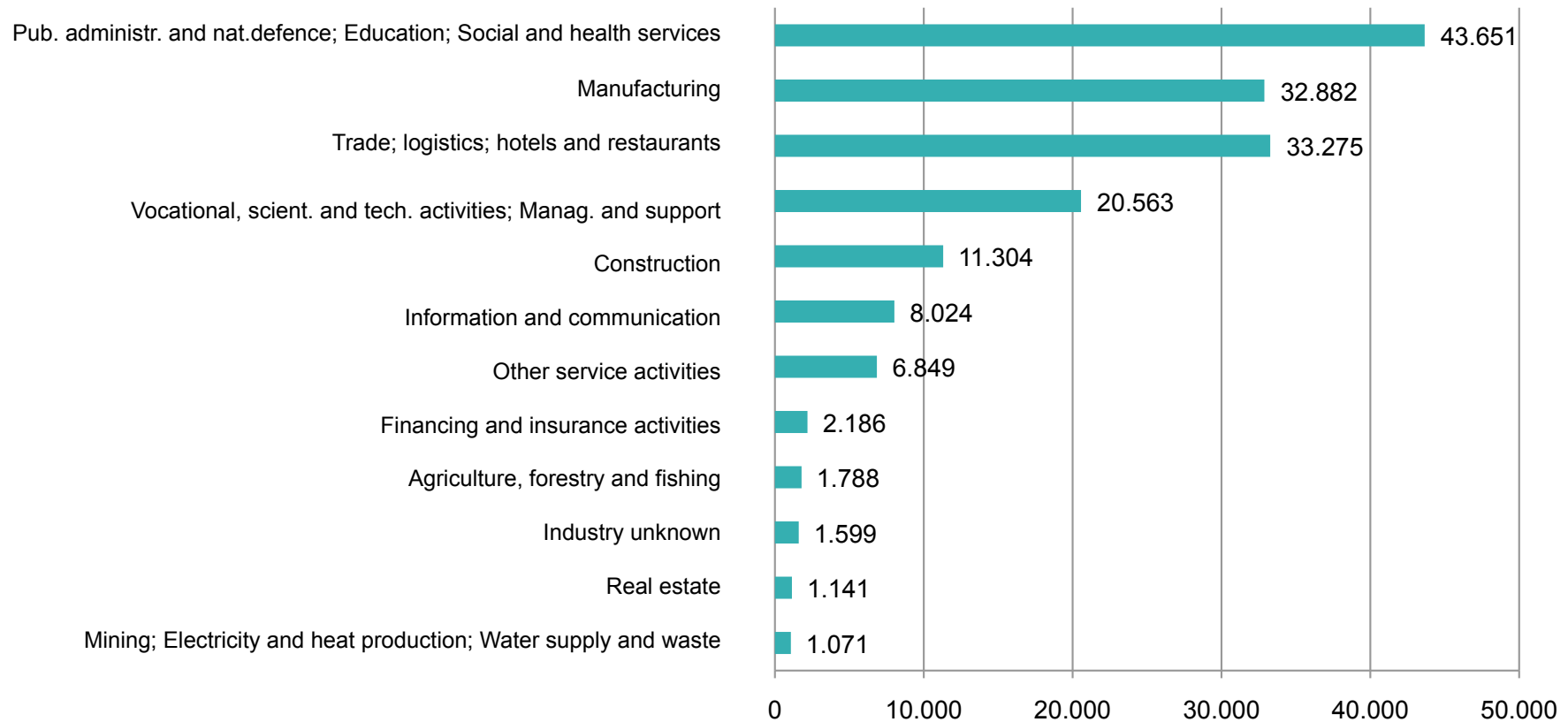
## In Tampere (and Tampere Central Region)

- Employed work-force in 2008 about 97,000 (161,000), unemployed 12,400 (17,700)
- Outside work-force in 2008 about 100,000 (170,000) persons: 0-14 year-old 29 % (34 %), students 20 % (17 %), and the retired 44 % (42 %)
- Demographic maintenance relationship in 2009 42 % (46 %) (under 15- and over 64-year-old / 100 in work age)
- In March 2011 the unemployment rate of Tampere was 13.0 % (whole Finland 9.3 %)
- Age distribution of the employed:



# Jobs

## In Tampere Central Region by Industry (31.12.2008, Statistics Finland)



# Biggest employers in Tampere (2009)

## Public and private, according to the number of personnel

City of Tampere	15,050
Tampere University Hospital	4,450
Nokia Corporation	2,850
University of Tampere	2,350
Tampere University of Technology	2,150
Defence Administration	1,300
Pirkanmaan Osuuskauppa	1,150
Nokia Siemens Networks	1,050
Metso Minerals	1,000
Itella Oyj	850

# Biggest employers in municipalities of Tampere Central Region (2008)

## Private according to the number of personnel

Nokian Tyres	1,050
Ruoka-Saarioinen	850
Agco Sisu Power	650
Pilkington Automotive Finland	450
Pirkanmaan Osuuskauppa	350
Georgia-Pacific Nordic	300
Nanso Group	300
Nokian Heavy Tyres	250
Itella	200
Patria Aviation	150

# The operational model of the city of Tampere

- The city of Tampere is a forerunner in developing municipal operational models
  - Renewal of political leadership by means of mayoral model
  - Purchaser-provider-model
  - Customer orientation
- Mayoral model gives recognizable face to the political leadership of the city, and the preparation of issues is democratically managed
- Services are arranged with the needs of the residents in mind, through purchaser-provider co-operation aiming at effectiveness, variety and economy
- City residents are heard during the preparation of issues and the planning of services

# Tampere City economic parameters

<b>Economic parameters</b>	<b>2010</b>
Number of inhabitants	213 345
Number of personnel	14 441
Tax rate	19
Annual margin/mill €	104,5
Annual margin/depreciation of fixed assets, %	130
Result, mill €	38,6
Profit/loss, mill €	35,6
Investments (net), mill €	150,4
Internal financing of investments, %	70,0
Final balance, mill €	1 977,6
Loans, mill €	312,1

# Tampere Group economic parameters

- Tampere Group comprised a total of 64 Group companies: 47 subsidiaries, 5 joint authorities and 12 associated companies and corporations relevant for the Group

<b>Economic parameters</b>	<b>2010</b>
Annual margin, mill €	233,0
Annual margin/depreciation of fixed assets, %	155
Result, mill €	97,2
Profit/Loss, mill €	68,0
Investments (net), mill €	226,1
Internal financing of investments, %	103
Final balance, mill €	2 549,9
Loans, mill €	751,8
Loans, mill € /inhabitant	3 527



# Learning and studying



# City of students

Tampere is after Helsinki the biggest "student city" in Finland.

Tampere (Tampere Central Region) has

- 47 comprehensive schools (130) with 16,700 (33,200) basic level students
- 4 specialized schools, in which basic teaching is in Finnish, Swedish, English, French, and German
- 13 upper secondary schools (20) and 1 upper secondary school for the adults with 6,500 students (7,000)
- over 30 technical and vocational schools and institutes
- 2 universities, 2 universities of technology; a total of 38,000 students
- 8 open and adult education institutes

Nearly three out of four over 15-year-old residents of Tampere (71.7 %) have passed further examinations after having completed comprehensive school studies. The persons having achieved intermediate grades totalize 40.3 %, and high school graduated 31.4 %.

# Universities of Applied Sciences

## **Tampere University of Applied Sciences**

- University with various vocational programmes serving work life
- Focus on technology, social sciences, business, tourism, and culture
- 45 educational programmes; 8 of them are taught in English
- 10,000 students
- School of Vocational Teacher Education
- Research, Development and Innovation Activities
- University offices also in Ikaalinen, Mänttä-Vilppula and Virrat

## **Police College of Finland**

- Espoo Police College and Tampere Police College were united on 1.1.2008 to become one single college. Along with their unification training in investigation and research were transferred to Tampere.
- Office premises in Hervanta
- 800 students

# Tampere University of Technology

- Founded in 1965
- The second largest university of Technology in Finland and the only one focusing solely on technology
- 11,600 students; 900 of them are foreigners
- 14 Bachelors Degree Programmes in Finnish; among others Architecture, Automation Engineering, Biotechnology, Signal Processing and Communications Engineering, Environmental and Energy Technology, Industrial Engineering and Management, Information Technology, Mechanical Engineering
- Offers eight International Master's Degree Programmes in the following fields: Architecture, Biomedical Engineering, Business and Technology, Information Technology, Machine Automation, Materials Science, Radio Frequency Electronics and Science and Bioengineering.
- Campus in Hervanta

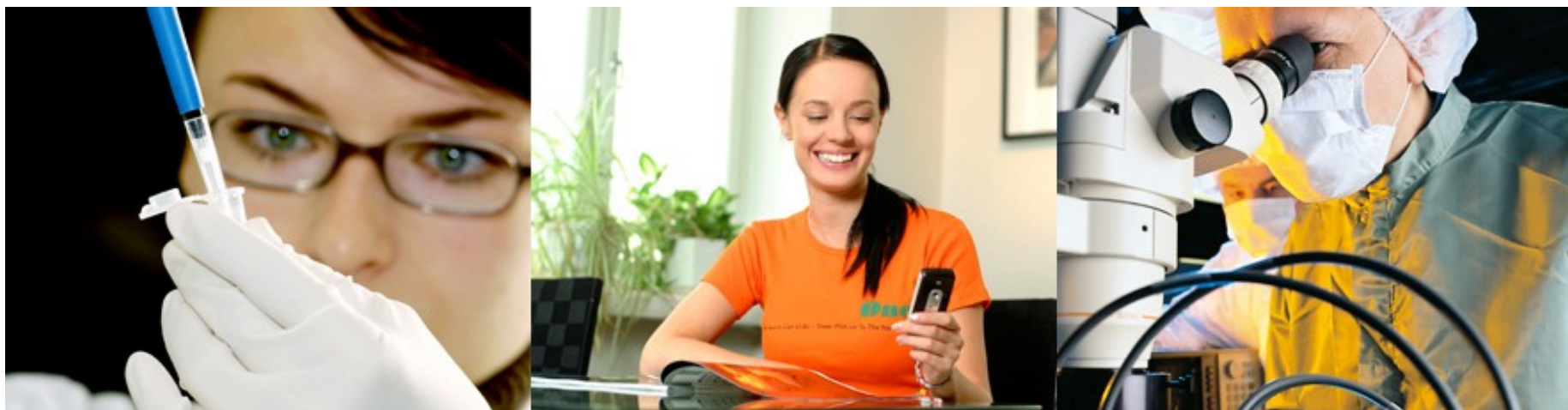


# University of Tampere

- The Civic College moved from Helsinki to Tampere in 1960; it became the University of Tampere in 1966
- Over 15,000 grade students; some 600 of them are foreigners
- 9 Schools: School of Education, Information, Management, Medicine, Medical Biotechnology, Language and Literature, Media and Communication, Society and Culture, and Health Sciences
- Open University having some 6,500 students annually
- The Institute for Extension Studies having some 1,600 students annually
- Activities also in Hämeenlinna, Pori, Seinäjoki, Valkeakoski, and Virrat



# Top position in research



# Tampere University of Technology

## **Leading-edge fields of research**

- Signal processing based technologies
- Nanophotonics
- Biotechnology
- Intelligent mobile machines

## **Academy of Finland's Centre of Excellence**

- Signal Processing Algorithm Group (SPAG)
- The Generic Intelligent Machines Research (GIM)

# University of Tampere

## **Academy of Finland's Centre of Excellence**

- FinMIT, Research on mitochondrial disease and ageing

## **Research units such as**

- Tampere Unit for Computer Human Interaction (TAUCHI)
- Journalism Research and Development Centre
- Institute of Medical Technology (IMT)
- Tampere Peace Research Institute (TAPRI)
- The Research and Education Centre Synergos
- Work Research Centre (WRC)
- Research Unit for Urban and Regional Development Studies (Sente)



# Nokia in Tampere

## Technology Platforms

- Particularly the development of smartphones

## Multimedia Business Area

- Picture- and videophones, for instance

## Enterprise Solutions

- Product development activities in terminal unit

## Nokia-Siemens Networks

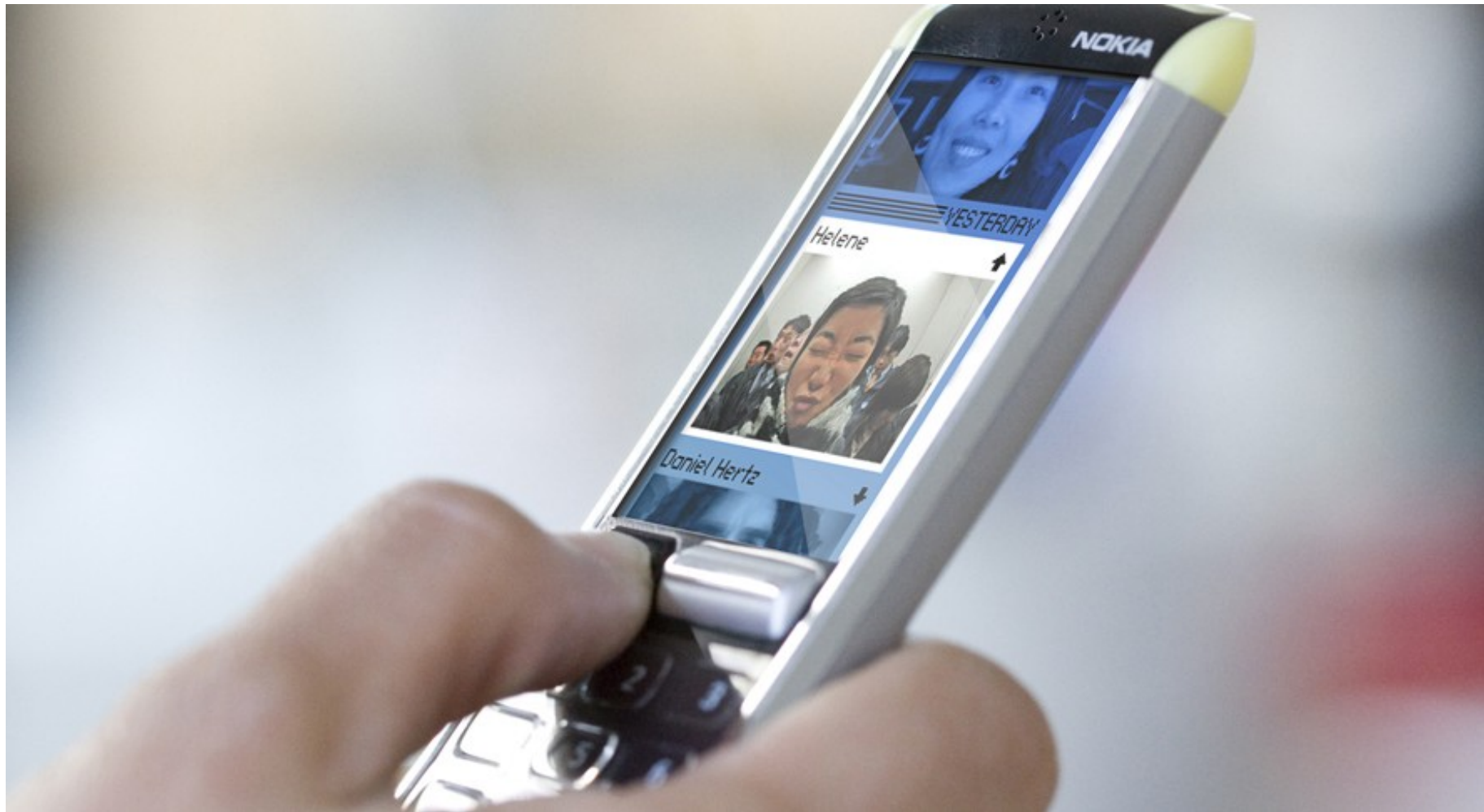
- Particularly the development of network control systems and mobile phone nets

## Nokia Research Center

- Wireless multimedia and usability, for example



# Active developer



# BioneXt Tampere

- Development and investment programme in biotechnology (2003–2010)
- Enhance top-level research, clinical application, and international marketing in biotechnology

## **Focus areas in matter of contents:**

- Development and utilization of ICT applications
- Implants and tissue technology
- Immunology and vaccines

# Creative Tampere

- City of Tampere's business development policy programme, Finnish largest regional creative economy development programme
- A facilitator of new business, services and creativity
- Develops creative industries, enhances innovative initiatives and entrepreneurship and increases the attractiveness of Tampere

## **Projects on the way of realization, for instance**

- The HUB
- The centre for creative industries
- Pirkanmaa Festivals
- Tampere Architecture Week 2010 and 2011
- YLÖS - UP – audience development work of professional theaters
- Cartoon Finlandia award

# ECO2 - Eco-efficient Tampere 2020

- City of Tampere's strategic project
- Objectives
  - Implementing Tampere's climate commitments
  - Developing operation methods in urban development
  - Supporting the growth of the environment business
  - Assuming the role of a forerunner in environmental matters

## **Projects supported by ECO2, for instance**

- Ecoefficiency in the construction of new buildings
- Complementary construction in city's districts
- Koukkujärvi ecologic detached houses area
- Eco-efficient housing fair area in Vuores
- Nurmi-Sorila Sun City
- Development of public transport; planning of tram and local train traffic
- Development of bicycle and pedestrian traffic, city bikes

# Lively and green



# Lively and green Tampere

- City of tourism
- City of congresses
- City of fairs
- City of culture
- City of physical activities
- City of events
- City of nature
- City of sustainable development



# City of tourism

- Strategic focus on family tourism, cultural tourism, and meeting and congress tourism
- On the basis of hotel nights, the second most popular tourist city in Finland
- Number of foreign tourists (about 600,000 annually) has increased four times in the Tampere airport in the 2000's
- Särkänniemi Adventure Park is the second most favoured family tourism target in Finland receiving some 700,000 visitors every year





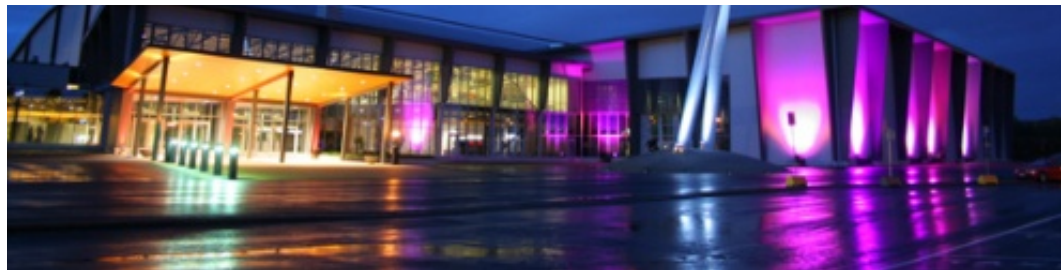
# City of congresses

- Leading congress city of Finland
- Every year about 20 international congresses with 5,000–15,000 congress participants
- Tampere Hall provedly the number one of the Finnish congress centers
- Tampere Convention Bureau is responsible for coordination of the national meeting and congress know-how center



# City of fairs

- Every year some 20 fairs are organized; they receive 4,000 exhibitors and 150,000 visitors
- International professional fairs such as Subcontracting, Safety and Security, Electricity, and Networking Fairs
- Consumer fairs which are popular on national level: Construction and Housing Fair, Finnish Handicrafts Fair, Tampere Book Fair, and Antiques Fair
- Tampere Exhibition and Sports Centre is one of the biggest event centers of Finland. About 60 big public events and some 250 meetings and private events are annually organized in it. In 2010, the number of visitors totalled 760,000.



# City of culture

- Some ten professional theatres, a total of 25 theatres
- Tampere Philharmonic Orchestra is the only complete symphony orchestra of Finland outside the capital
- Tampere Opera
- Tampere Hall is the largest concert and congress center of the Nordic countries
- Museum Centre Vapriikki, Tampere Art Museum, Sara Hildén Art Museum, Moominvalley of the Tampere Art Museum, Finnish Labour Museum Werstas, Lenin Museum, Rupriikki Media Museum, TR1 Exhibition Centre, National Police Museum, Spy Museum, Amuri Museum of Workers' Housing...
- Verkaranta Centre for Arts, Photographic Centre Nykyaika, Mältinranta Art Centre, Haihara Art Centre...



# City of physical activities

- 4 indoor swimming pools, 6 ice hockey halls, 9 places for winter swimming
- 80 km lighted hiking paths
- First artificial ice rink of Finland in 1956
- First ice hockey hall of Finland in 1965
- Tampere stadium Ratina in 1965
- Tammela football stadium
- Tampere swimming centre
- Pynnikki Sports Hall
- Kaukajärvi rowing and canoeing stadium
- Annual international championships such as Tammer-championship and Delfin Basket Tournament
- Over 20 teams playing in the first division
- European Youth Olympic Festival in Tampere in 2009



# City of events

- Tampere Film Festival
- Tampere Theatre Festival
- Pispala Schottische – International Folklore Festival
- Tampere Biennale
- Tampere Vocal Music Festival
- Tampere Jazz Happening
- MindTrek – Nordic digital media and business conference
- Tampere Floral Festival
- Tammerfest city-festival
- Tampere Flamenco Festival
- Tampere Architecture Week
- Tampere International Salsa Festival



# City of nature

- Parks and green areas covering 2,623 hectares i.e. about 124 m<sup>2</sup> / inhabitant
- 200 lakes and ponds, one quarter of the city area is water
- 15 nature reserves, for example Pyynikki and Viikinsaari
- Pyynikinharju is the highest gravel ridge of the world, 80 metres above the Pyhäjärvi-lake surface
- Fall of the Tammerkoski rapids crossing the city totals 18 metres



# City of sustainable development

- The climate strategy of the Tampere urban area was completed at the beginning of 2010
- According to the strategy, ecologic, social, cultural and economic sustainability is a part of the city's operating principles
- First city in Finland to take environmental accounting in use
- Tampere has approved the Aalborg commitments of sustainable development
- Since the beginning of 2009 involved in the EU mayors' climate commitment
- In spring 2009 Tampere signed Eurocities climate declaration
- The city has made an agreement on energy efficiency with the Ministry of Labour and Trade
- First Finnish Fairtrade City in 2008

