

i2010 Annual Report 2007



Finland is among the top nations for most i2010 indicators and is among the leading information society countries in Europe.

Finland Today

In connectivity, Finland shows continued growth and is now among the top three EU countries. Reflecting overall high internet use, conversion from slower lines is still continuing. Digital Subscriber Line (DSL) dominates the market. Notably, Finland has Europe's highest use of public access points, reflecting a trend that the countries with the most citizens online in general are also the most active users of public access points. Finnish citizens are active users of online services. Perhaps reflecting increased take-up of broadband, multimedia and content use has also increased and Finland now performs better here than in utility use. Very high broadband penetration furthermore supports a competitive market for online music with very high use and very low prices – despite the market's limited size and the absence of a major music industry. Commercial music downloads have the highest measured level in Europe. Digital television is well developed, whereas 3G is still in infancy.

eGovernment service levels for enterprises have fallen significantly behind the best performing countries, but enterprise use is now the second highest in the EU. Both citizen service levels and use among citizens are high compared with other countries. ICT availability and use in schools are very good, without reaching the absolute top in Europe.

The Finnish work force is among the most skilled in Europe, both at user and expert level. Finland's investments in ICT-related R&D measured against GDP are unrivalled in Europe, and ICTs' share of overall R&D investments is also the highest. Enterprise connectivity is the second highest in Europe, and eBusiness and eCommerce use is good without being exceptional. **Note:** some of this

year's business figures for Finland are not directly comparable to previous years' figures.

Finnish ICT Policy

ICT is an important part of Finnish programmes, whose implementation in 2006 has yielded positive results:

Infrastructure: Preparations for digital switchover is in a very advanced stage and in 2007 Finland will fully switch to digital television. The broadband strategy has yielded results in the form of high penetration rates, intensive network competition, wide services availability and comparatively low prices.

IT-Security: An IT security strategy is being implemented to boost confidence in electronic services among citizens and business. The regulator's resources for promoting data security would be doubled in 2007.

Research and Skills: In June 2006 a national strategy on technology clusters of excellence was adopted, with one cluster dedicated to ICT industries and services. To promote digital skills, IT training for adults with basic-level education is organised within the "Noste" programme.

Broadband	2003	2004	2005	2006	EU25	Rank
Total DSL coverage (as % of total population)	87.6	89.4	90.4		87.4	12
DSL coverage in rural areas (as % of total population)			78.0		65.9	11
Broadband penetration (as % of population)	6.4	12.4	20.3	26.0	15.7	3
DSL penetration (as % of population)	5.2	9.0	16.0	21.1	12.8	1
Predominant download speed			LE 512kbps			
Households having broadband (as % of those having access to the internet at home)	26.1	41.8	66.7	81.7	62.1	5
% of enterprises with broadband access	65.2	70.9	81.1	88.9	74.5	2
Number of 3G subscribers per 100 inhabitants			1.5		5.0	13
Digital Television in households			42.9		30.6	4
Music: number of single downloads per 100 inhabitants			48.4			1
Internet Usage						
% population who are regular internet users	58.1	63.2	62.2	71.2	46.7	6
Take up of internet services (as % of population)						
Sending emails	54.8	61.9	62.7	67.4	43.8	6
Looking for information about goods and services	53.1	58.8	62.5	67.2	42.9	6
Internet telephoning or videoconferencing	2.3	5.3	9.7	14.2	7.1	4
Playing/downloading games and music	25.0	37.9	22.2	33.5	18.2	5
Listening to the web radio/watching web tv	9.6	11.9	16.7	20.2	11.8	7
Reading online newspapers/magazines	32.2	36.6	40.8	46.3	19.0	5
Internet banking	43.4	50.3	56.3	62.6	22.0	3
Places of access						
% at home	45.0	49.3	56.3	65.5	42.6	6
% at work	35.2	37.3	37.8	38.6	23.0	5
% at educational place	15.8	15.8		18.0	8.0	2
% at PIAP	21.5	23.4		15.7	6.8	1
eGovernment Indicators						
% basic public services for citizens fully available online	50.0	60.0		60.0	36.8	6
% basic public services for enterprises fully available online	75.0	75.0		62.5	67.8	15
% of population using e-Government services	40.1	45.3	47.3	46.9	23.8	4
of which for returning filled in forms	8.8	9.9	11.2	14.9	8.1	7
% of enterprises using e-Government services	88.9	90.8	91.3	92.8	63.7	2
of which for returning filled in forms	55.0	60.9	71.5	77.9	44.8	2
ICT in schools						
Number of computers connected per 100 pupils				16.2	9.9	7
% of schools with broadband access				90.0	67.0	6
% of teachers having used the computer in class during the last 12 months				85.1	74.3	7
e-Commerce						
E-commerce as % of total turnover of enterprises	10.6	12.7	14.2	14.3	11.7	5
% enterprises receiving internet orders	13.7	19.3	18.4	12.3	13.9	14
% enterprises purchasing on the internet		70.8	75.4	55.8	37.9	7
e-business. % enterprises:						
with integrated internal business processes	63.0	60.7	59.6	50.5	37.3	5
with integrated external business processes	17.2	16.0	17.3	12.9	13.5	11
Security: % enterprises using Secure servers	36.9	40.9	34.5	43.4	41.0	8
% using digital signatures for authentication	2.9	2.5	4.4	6.4	14.3	26
Employment and Skills						
% employees using computers connected to the Internet	52.5	53.2	56.0	58.9	36.1	2
% of persons employed with ICT user skills.	19.0	19.8	19.9	20.5	18.5	4
% of persons employed with ICT specialist skills	4.2	4.0	4.3	4.3	3.1	3
Indicators on growth of ICT sector and R&D						
ICT sector share of total GDP	10.0				5.5	2
ICT sector share of total employment	5.4				4.0	3
ICT sector growth (constant prices).	2.6				3.6	11
R&D expenditure in ICT by the business sector, as % of GDP	1.6				0.3	1
=== as % of total R&D expenditure	64.3				25.7	1