

i2010 Annual Report 2007



Information Space
Innovation & Investment in R&D
Inclusion



Spain performs slightly below Europe's average and is progressing slowly towards the information society. It is being outpaced in several areas but also has some strong points, notably in business connectivity and take-up.

Spain Today

Broadband is widely available and rural coverage is well above average but broadband in households is slightly below average. Narrowband use is quite low and the conversion to broadband is well above average. Citizens online is below average but a little lower than expected from connectivity levels, except for music and games downloads which are highly popular. The digital content market has not yet lived up to its potential. Growth is steady but other countries are growing faster, lowering the relative rank in several indicators. Spanish citizens are still among the most active online outside their own home or work, especially in public places. It does well in uptake of digital television and 3G though this is still in its infancy.

Spain performs well in eGovernment but is being outpaced. Enterprise services are only just behind leading countries but citizen services have fallen below average. Use has grown slower than elsewhere and is now slightly below average. Schools are widely connected to broadband but computers for students and the actual use in teaching are not at the same level.

ICT employee skills are below average. ICT-related R&D as part of GDP is only a third of the EU average and ICT-related R&D is low. Enterprises are mostly connected and Spain is close to the top on enterprise broadband take-up. In eCommerce and eBusiness Spanish enterprises are below average, particularly for e-commerce. Growth in enterprise ICT use has, however, improved its position.

Spanish ICT Policy

To spur Spain's Information Society, there is "Plan Avanz@".

Significant legislation enables public procurement of advanced technologies, issuing of electronic invoices by public administrations, and the exchange of research personnel between universities and industry over five years.

Digital skills are fostered through the "organic law for education". It includes promoting internet access at school and ICT training for up to 5 million pupils.

eGovernment: Programmes include one-stop shops for enterprises and citizens, an electronic identity card and an "eHealth" programme for national healthcare.

Broadband gap: The Government aims to provide all population centres over 250 people broadband access by the end of 2007 through also using EU Structural Funds.

Innovation in the economy, supported by Plan Avanz@, funds ICT adoption by SMEs, evaluation, and monitoring systems to support 7th Framework Research Programme participation, and research and research cooperation.

Coordination: all actions foresee extensive coordination with Spain's regions through territorial agreements made with the respective administrations. Helpdesks assist enterprises and government bodies.

Broadband	2003	2004	2005	2006	EU25	Rank
Total DSL coverage (as % of total population)	85.0	87.0	89.0		87.4	14
DSL coverage in rural areas (as % of total population)			82.0		65.9	8
Broadband penetration (as % of population)	4.6	7.0	10.5	13.9	15.7	12
DSL penetration (as % of population)	3.4	5.3	8.1	11.0	12.8	11
Predominant download speed			0.5-1Mbps			
Households having broadband (as % of those having access to the internet at home)		44.7	58.4	75.0	62.1	9
% of enterprises with broadband access	50.7	71.6	76.2	87.1	74.5	4
Number of 3G subscribers per 100 inhabitants			2.3		5.0	12
Digital Television in households			27.8		30.6	8
Music: number of single downloads per 100 inhabitants			7.0			11
Internet Usage						
% population who are regular internet users	29.5	31.4	35.1	39.5	46.7	18
Take up of internet services (as % of population)						
Sending emails	29.1	30.6	33.8	36.7	43.8	19
Looking for information about goods and services	30.0	29.7	33.1	37.9	42.9	15
Internet telephoning or videoconferencing	3.0	2.9	3.6	6.3	7.1	20
Playing/downloading games and music	17.5	19.4	20.4	23.0	18.2	12
Listening to the web radio/watching web tv			24.3		11.8	
Reading online newspapers/magazines	18.4	21.1			19.0	
Internet banking	9.9	12.0	13.6	15.1	22.0	18
Places of access						
% at home	22.0	25.6	28.2	32.6	42.6	16
% at work	15.5	17.9	20.3	22.0	23.0	15
% at educational place	7.2	7.6	8.3	7.0	8.0	20
% at PIAP	10.4	8.2	10.6	10.1	6.8	5
eGovernment Indicators						
% basic public services for citizens fully available online	33.3	33.3		33.3	36.8	16
% basic public services for enterprises fully available online	75.0	87.5		87.5	67.8	3
% of population using e-Government services				24.7	23.8	15
of which for returning filled in forms	5.7	6.7	6.0	7.0	8.1	14
% of enterprises using e-Government services	43.5	50.4	55.2	58.1	63.7	21
of which for returning filled in forms	25.5	32.3	34.7	38.0	44.8	18
ICT in schools						
Number of computers connected per 100 pupils				8.5	9.9	15
% of schools with broadband access				81.0	67.0	10
% of teachers having used the computer in class during the last 12 months				68.2	74.3	19
e-Commerce						
E-commerce as % of total turnover of enterprises	2.1	2.9	2.7	6.9	11.7	16
% enterprises receiving internet orders	0.8	1.7	2.0	8.0	13.9	18
% enterprises purchasing on the internet		8.9	9.9	16.1	37.9	21
e-business. % enterprises:						
with integrated internal business processes	36.0	13.5	25.5	32.0	37.3	15
with integrated external business processes	8.4	5.0	7.8	12.5	13.5	12
Security: % enterprises using Secure servers	20.2	46.2	32.9	40.7	41.0	11
% using digital signatures for authentication	20.9	24.6	19.2	10.6	14.3	15
Employment and Skills						
% employees using computers connected to the Internet	27.3	29.0	33.5	35.3	36.1	13
% of persons employed with ICT user skills.	15.3	15.7	15.6	15.7	18.5	21
% of persons employed with ICT specialist skills	2.4	2.7	2.6	2.7	3.1	16
Indicators on growth of ICT sector and R&D						
ICT sector share of total GDP	4.5				5.5	17
ICT sector share of total employment	2.3				4.0	17
ICT sector growth (constant prices).	3.3				3.6	7
R&D expenditure in ICT by the business sector, as % of GDP	0.1				0.3	13
=== as % of total R&D expenditure	14.1				25.7	15