

OPORTUNIDADES DE I+D EN COMPUTACIÓN EN LAS EMPRESAS ESPAÑOLAS

Victor Canivell

“Fronteras de la Computación”



22 Julio 2011

Prioridades actuales

Tabla 5.1 Comparación de la visión de los proveedores y los CIO sobre las iniciativas TIC a corto plazo de las empresas españolas

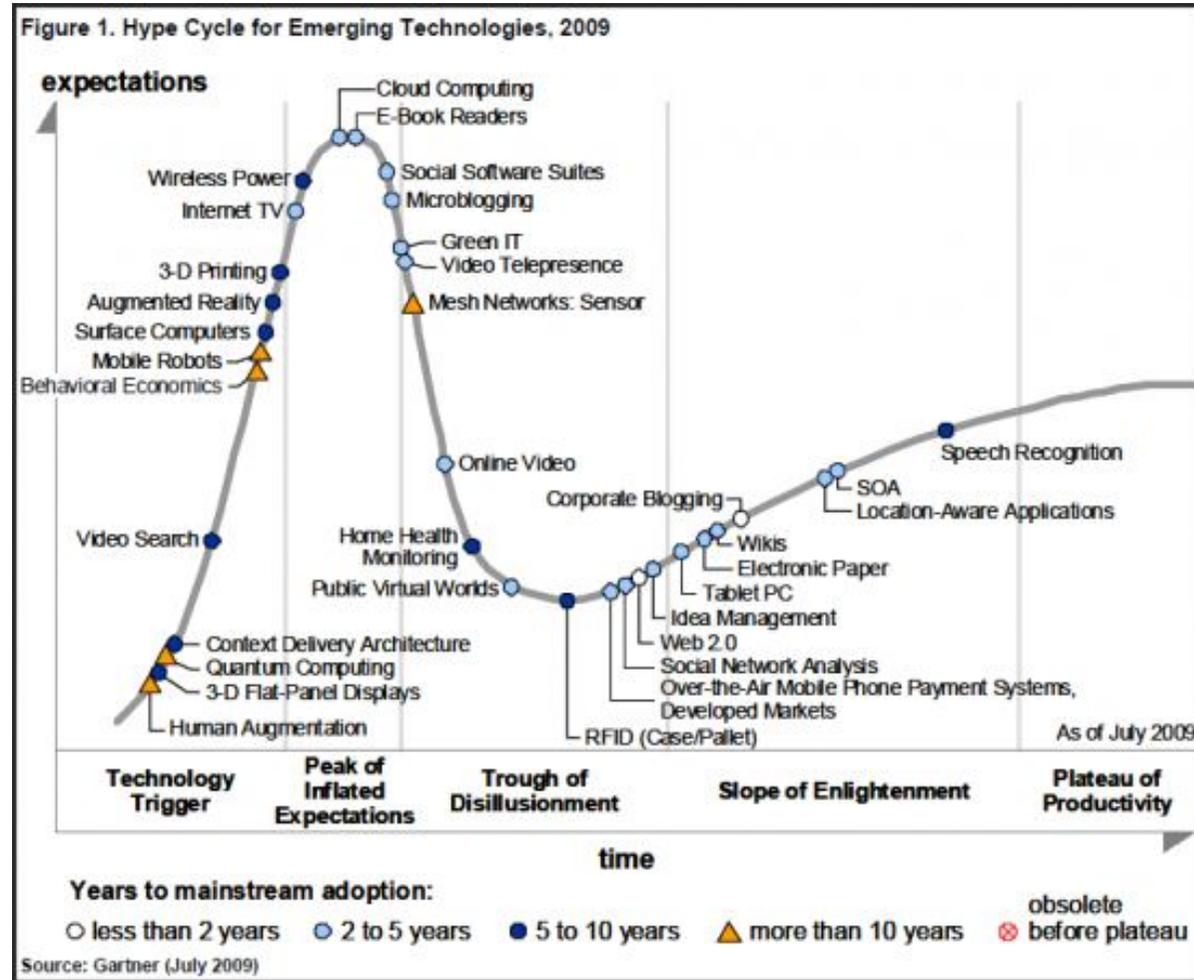


Prioridad	PROVEEDORES	CIOs
1	Business Intelligence	Business Intelligence
2	Seguridad	Seguridad
3	Outsourcing	CRM
4	CLOUD Computing	Gobierno TIC
5	Movilidad	Desktop
6	Gobierno TIC	Consolidar
7	Virtualización	Cloud Computing
8	Consolidación	Reorganización
9	CRM	Redes Sociales
10	Redes Sociales	Software as a Service

Informe ESADE - PENTEO
Las Tecnologías de la Información en la Empresa Española 2011

Informes
Junio 2011

Lo que viene



Dónde trabajar & por qué



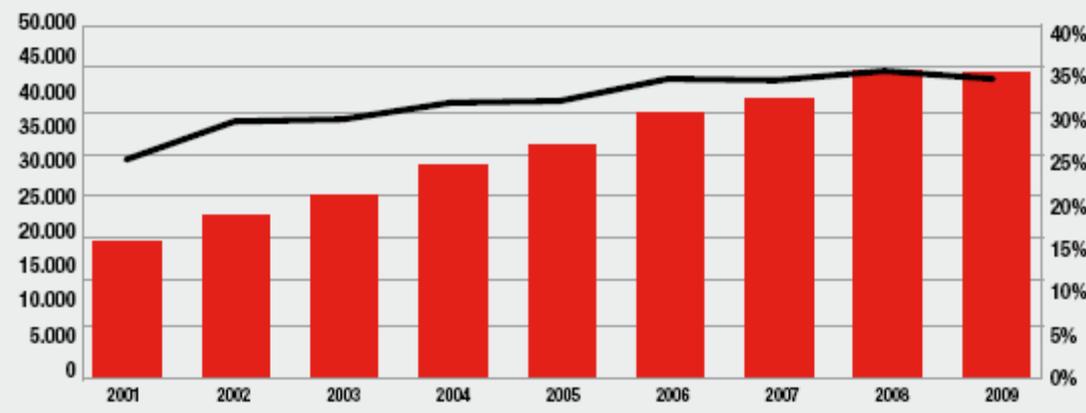
El 35% de investigadores en empresas

INFORME CYD 2010

Fundación C Y D



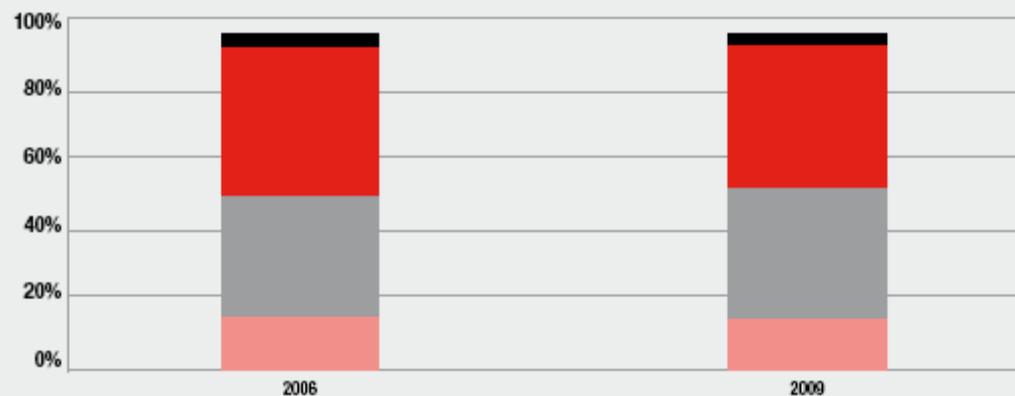
Gráfico 35. Número de investigadores empleados en el sector privado y porcentaje sobre el total de investigadores en España. Periodo 2001-2009



● Investigadores ● % sobre el total

Fuente: Encuesta de actividades sobre I+D. INE.

Gráfico 36. Distribución porcentual de los doctores en España según el sector en que se hallaban empleados. Años 2006 y 2009



● Empresas ● Administraciones públicas ● Enseñanza superior ● IPSFL

Fuente: Encuesta sobre recursos humanos en ciencia y tecnología. INE. Años 2006 y 2009.

Agenda

1. ¿Qué empresas, y por qué, hacen I&D?
La competitividad, la innovación y la I&D
2. Época de grandes cambios
3. El mundo de las start-ups

1. Las empresas y la I+D

- Competitividad, innovación e I+D
- Las TIC y la innovación
- Rankings y el caso español

¿Qué buscan las empresas?

Las empresas buscan
generar valor económico añadido*
ofertando al mercado productos y servicios
que responden a necesidades reales y/o latentes
de sus clientes

* "Añadido" :

más allá de la suma del uso de sus recursos y
de sus contribuciones fiscales y de responsabilidad social,
con un punto de equilibrio del aprox 10%

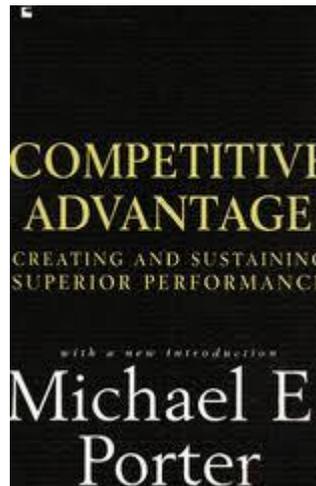
Valor añadido & ventaja competitiva

El valor añadido se fundamenta en disponer de ventajas competitivas sostenibles

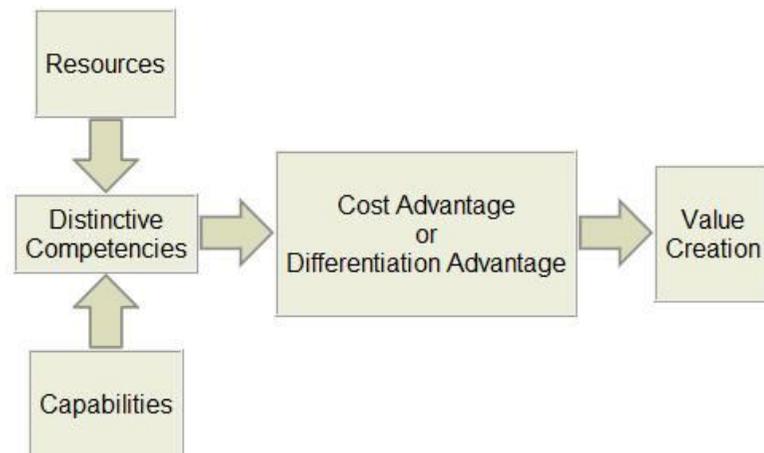
Dos estrategias de ventaja competitiva

Estrategias de diferenciación:

- menores costes/ más eficiencia
- nuevos productos/ más eficacia



A Model of Competitive Advantage



La innovación empresarial

Desarrolla nuevas formas
de responder a las necesidades de los clientes
aportando valor económico

COMPETITIVIDAD > DIFERENCIACION > INNOVACION > I&D

Definición de la innovación empresarial

La introducción
de un producto (bien o servicio)
o de un proceso,
nuevo o significativamente mejorado,
o la introducción
de un método de comercialización o de organización nuevo,
aplicado
a las prácticas de negocio,
a la organización del trabajo
o a las relaciones externas

(OCDE y CM, 2007, 49)

Objetos de innovación

- Productos y servicios a ofrecer al cliente

- Market Pull:
producir lo que se vende
- Technology Push:
vender lo que se produce



- Procesos internos en la cadena de valor

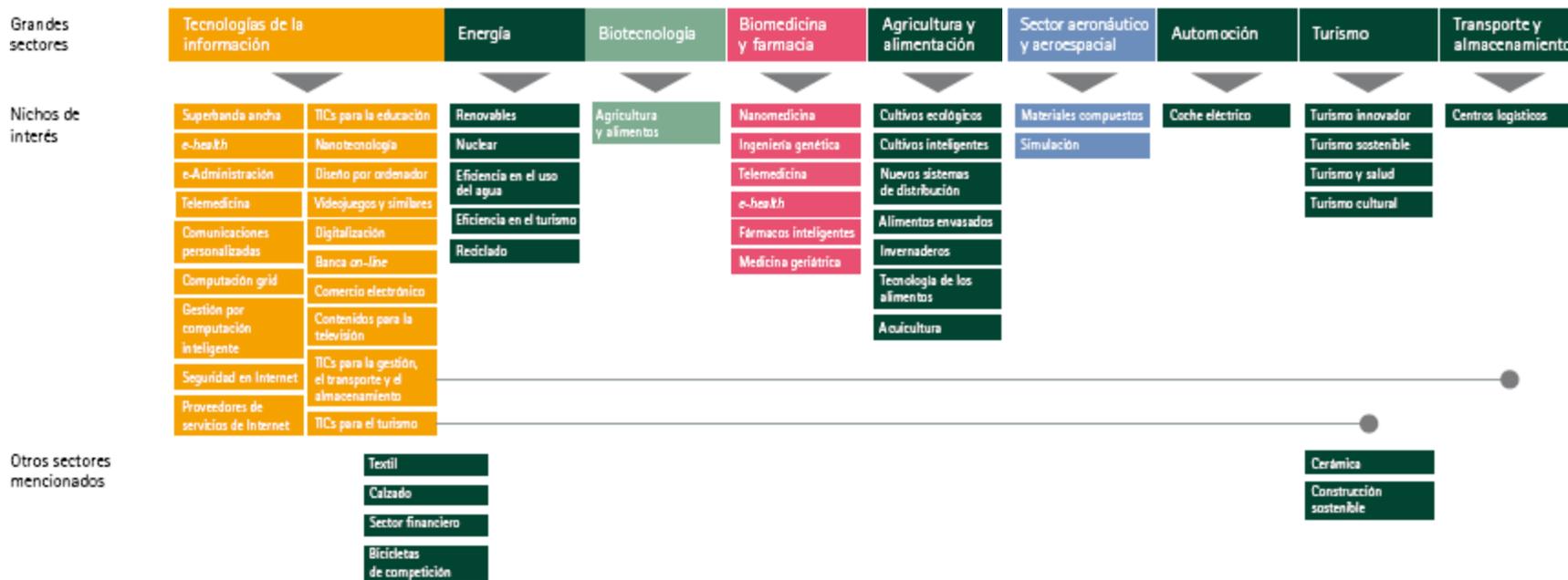
- Procesos de negocio
- Organización
- Infraestructuras



Sectores con potencial innovador

Cómo: con más cualificación y más TIC

Gráfico 2
Principales sectores y subsectores con potencial innovador



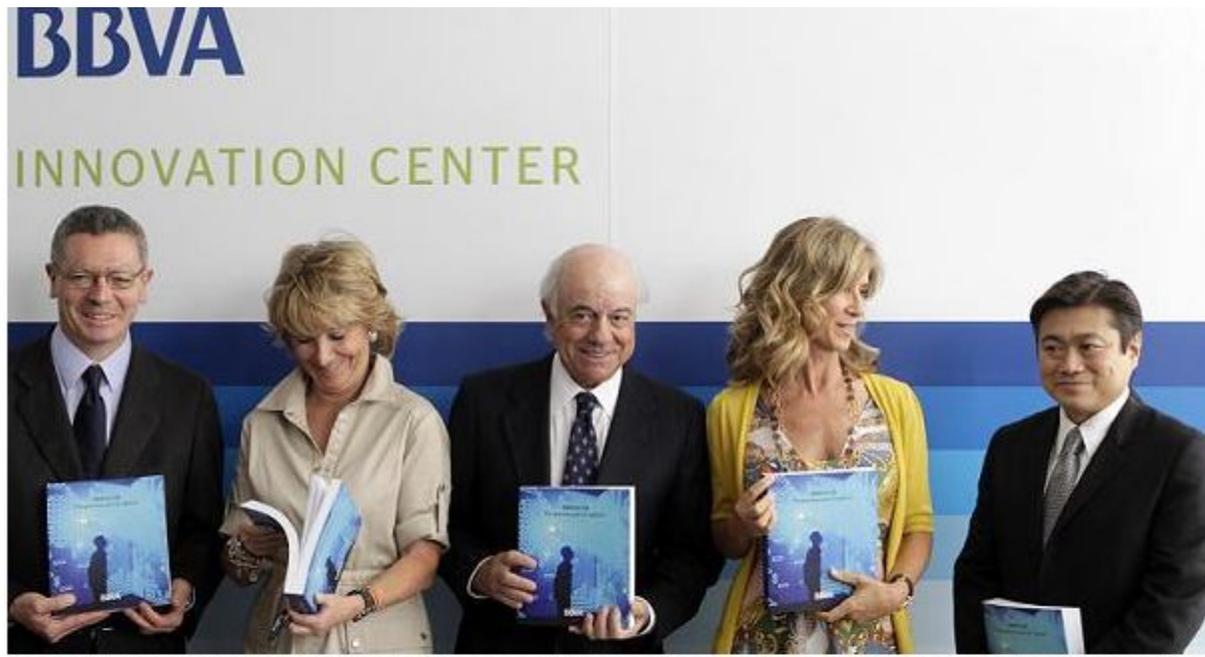
A efectos de simplificar el análisis y partiendo de la clasificación de la OCDE (2005), se distinguen solo dos tipos de sectores o áreas de actividad: los de alto contenido tecnológico y los de medio o bajo contenido tecnológico (áreas en verde oscuro). Los primeros son áreas también denominadas «de tecnología punta», mientras que los segundos reciben el nombre de «sectores tradicionales».

10 www.accenture.es

TIC & innovación

La era de los ingenieros o cómo Facebook es un competidor para el BBVA

7 julio 2011 - 17:59 - Autor: Luz Fernández



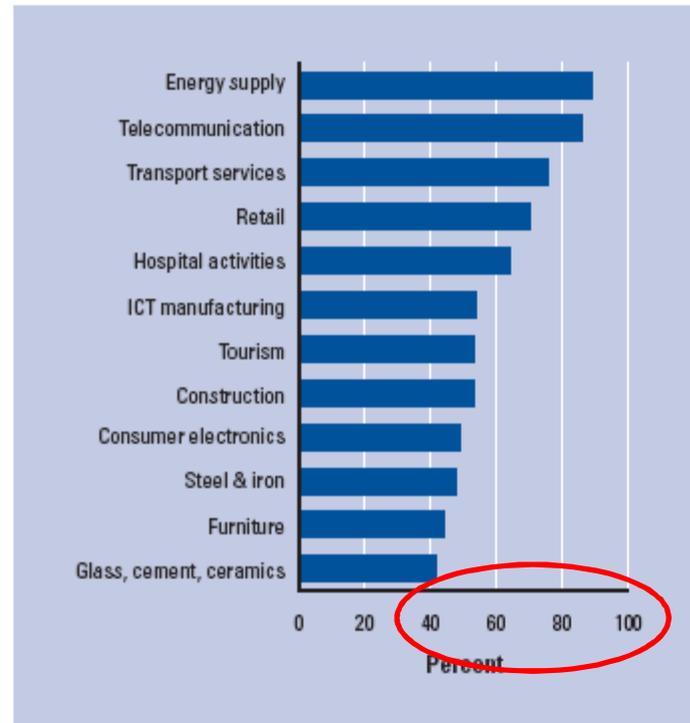
Facebook es un competidor más peligroso para el BBVA que cualquier banco del mundo. Así lo cree su presidente **Francisco González**, que ha hecho estas confesiones a un grupo de periodistas reunidos con el director del **MIT Media Lab** Joichi Ito con motivo de la inauguración oficial del Centro de Innovación del BBVA.

Influencia de las TIC en la innovación

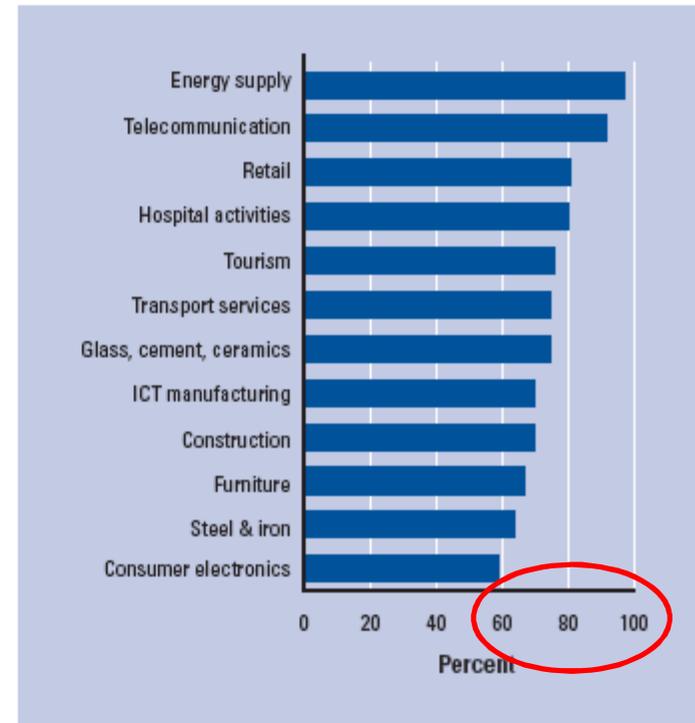
1.3: Building Communities around Digital Highways

Figure 1: The role of ICT in innovation by industry, 2006–09

1a: Product and service innovation



1b: Process innovation



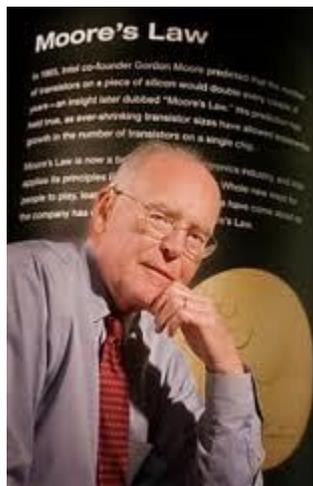
Source: e-Business W@tch, 2010.

Note: The percentage is of the product and process innovation that is enabled by ICT in each sector. The methodology and metrics to assess both innovation and ICT contribution are defined by the e-Business W@tch study.

Impacto de las TIC

- Ha automatizado y cambiado los procesos de negocio en todos los sectores
 - ERP, CRM, email, web
 - CAD-CAM-CAE, diseño, JIT, BPM, BI
- Ha cambiado la estructura de varios sectores
 - Generación, manipulación, producción y distribución de contenidos digitales
 - Prensa, libros, música, fotografía, cine, TV, software
 - Telecomunicaciones

La Ley de Moore



2000

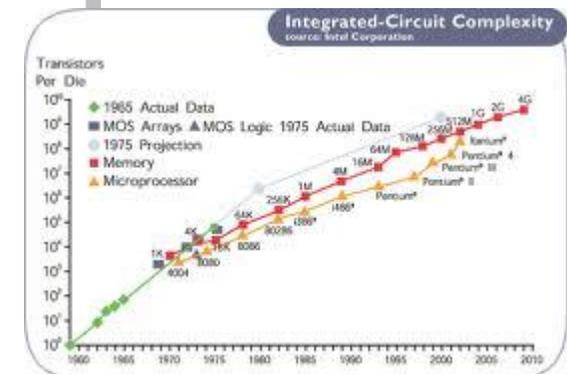


Height: 381mm
 Width: 381mm
 Depth: 435mm
 Weight: 15,800g
 Price: £1,500
 CPU: 500MHz
 RAM: 128MB
 Display: 1024 x 768
 Storage: 30GB

2010



Height: 115.2mm
 Width: 58.6mm
 Depth: 9.3mm
 Weight: 137g
 Price: £599
 CPU: 1GHz
 RAM: 512MB
 Display: 960 x 640
 Storage: 32GB



Las TIC = un nuevo sector



Microsoft®



amazon.com®

twitter



Google

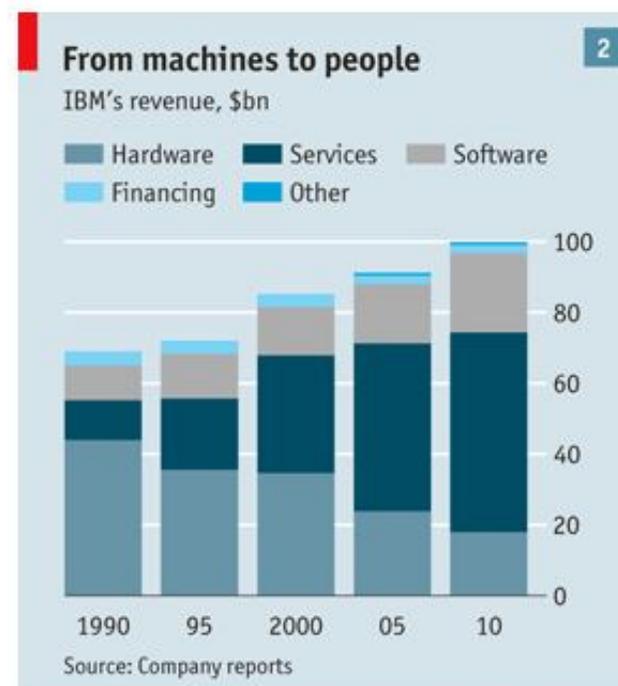


facebook



Broadcast Yourself™

El centenario de IBM



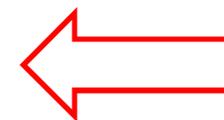
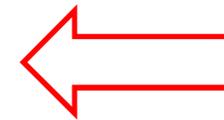
Un sector de peso

Publicly traded companies

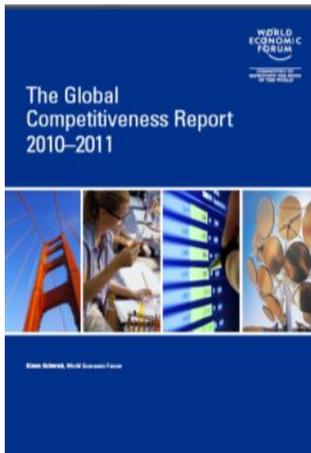
2010

This Financial Times Global 500 based list is up to date as of December 31, 2010. Indicated changes in market value are relative to the previous quarter.

Rank	First quarter ^[1]	Second quarter ^[2]	Third quarter ^[3]	Fourth quarter ^[4]
1	 PetroChina ▼329,259.7	 Exxon Mobil ▼291,789.1	 Exxon Mobil ▲314,622.5	 Exxon Mobil ▲368,711.5
2	 Exxon Mobil ▼316,230.8	 PetroChina ▼268,504.8	 PetroChina ▲270,889.9	 PetroChina ▲303,273.6
3	 Microsoft ▼256,864.7	 Apple Inc. ▲228,876.8	 Apple Inc. ▲259,223.4	 Apple Inc. ▲295,886.3
4	 Industrial and Commercial Bank of China ▼246,419.8	 Industrial and Commercial Bank of China ▼211,258.7	 Petrobras ▲220,616.5	 BHP Billiton ▲243,540.3
5	 Apple Inc. ▲213,096.7	 Microsoft ▲201,655.8	 Industrial and Commercial Bank of China ▲213,364.1	 Microsoft ▲238,784.5
6	 BHP Billiton ▲209,935.1	 China Mobile ▲201,471.2	 Microsoft ▲210,876.4	 Industrial and Commercial Bank of China ▲233,369.1
7	 Wal-mart ▲209,000.7	 Berkshire Hathaway ▼197,356.8	 China Mobile ▲205,339.6	 Petrobras ▲229,066.6
8	 Berkshire Hathaway ▲200,620.5	 China Construction Bank ▲189,170.7	 Berkshire Hathaway ▲204,792.0	 China Construction Bank ▲222,245.1
9	 General Electric ▲194,246.2	 Wal-mart ▼178,322.7	 China Construction Bank ▲202,998.4	 Royal Dutch Shell ▲208,593.7
10	 China Mobile ▲192,998.6	 Procter & Gamble 172,736.5	 BHP Billiton ▲196,866.0	 Nestlé ▲203,534.3



¿Quién es competitivo?

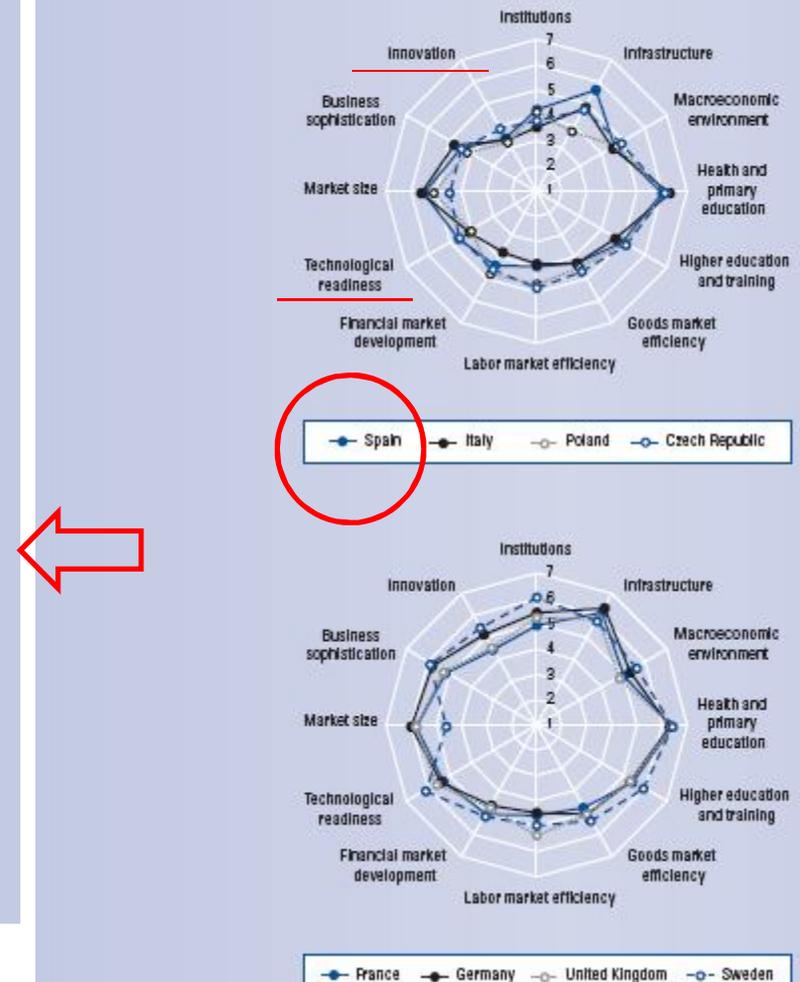


Fuente: WEF

Table 1: Rankings of the EU27 in the Global Competitiveness Index 2010-2011

Economy	Rank	Score
Sweden	2	5.56
Germany	5	5.39
Finland	7	5.37
Netherlands	8	5.33
Denmark	9	5.32
United Kingdom	12	5.25
France	15	5.13
Austria	18	5.09
Belgium	19	5.07
Luxembourg	20	5.05
Ireland	29	4.74
Estonia	33	4.61
Czech Republic	36	4.57
Poland	39	4.51
Cyprus	40	4.50
Spain	42	4.49
Slovenia	45	4.42
Portugal	46	4.38
Lithuania	47	4.38
Italy	48	4.37
Malta	50	4.34
Hungary	52	4.33
Slovak Republic	60	4.25
Romania	67	4.16
Latvia	70	4.14
Bulgaria	71	4.13
Greece	83	3.99

Figure 1: Comparative performance of selected EU countries

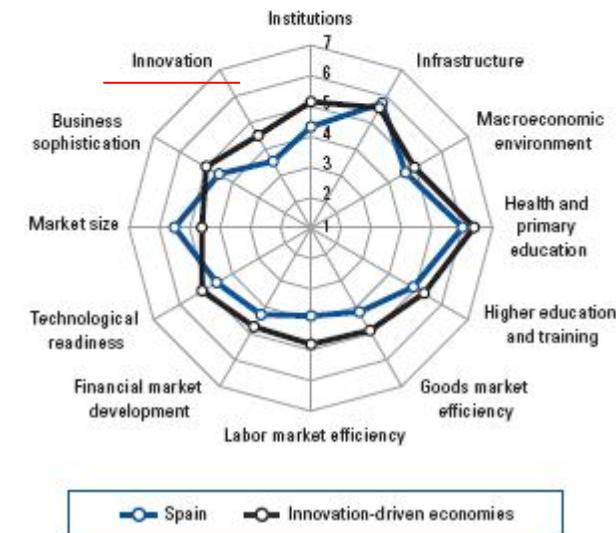


España = 42º GCI... y 9º GDP (!)

Global Competitiveness Index

	Rank (out of 139)	Score (1-7)
GCI 2010-2011	42	4.5
GCI 2009-2010 (out of 133).....	33	4.6
GCI 2008-2009 (out of 134).....	29	4.7
Basic requirements	38	5.1
1st pillar: Institutions	53	4.3
2nd pillar: Infrastructure.....	14	5.7
3rd pillar: Macroeconomic environment.....	66	4.6
4th pillar: Health and primary education.....	49	6.0
Efficiency enhancers	32	4.6
5th pillar: Higher education and training.....	31	4.9
6th pillar: Goods market efficiency.....	62	4.2
7th pillar: Labor market efficiency.....	115	3.9
8th pillar: Financial market development.....	56	4.3
9th pillar: Technological readiness.....	30	4.6
10th pillar: Market size.....	13	5.5
Innovation and sophistication factors	41	4.0
11th pillar: Business sophistication.....	35	4.5
12th pillar: Innovation.....	46	3.5

Stage of development



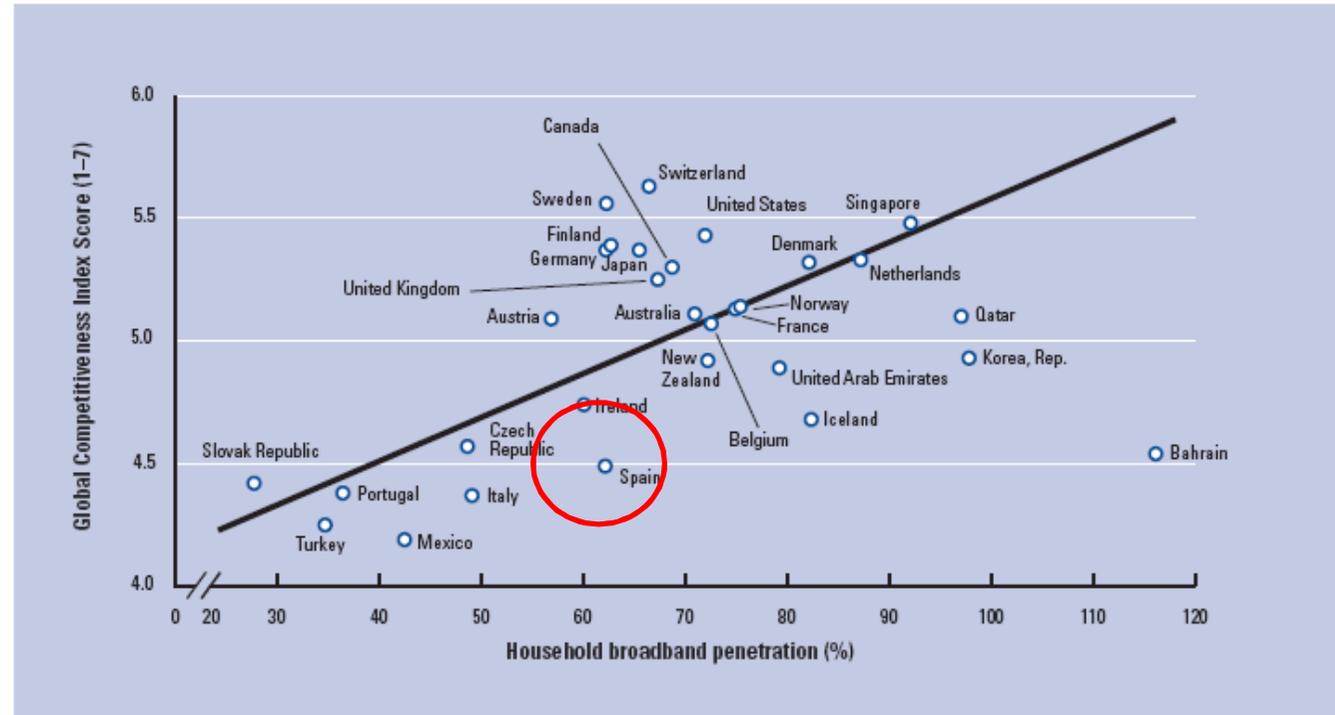
Competitividad & ancho de banda

NEGATIVO:

Hogares con acceso a internet a la cola en UE 59%
vs 70% de media & 90% NL, L, S

“eEspaña 2011”
Fund. Orange

Figure 3: Competitiveness vs. broadband penetration, 2010



Sources: World Economic Forum, 2010; ITU, 2010; Booz & Company analysis.

Note: *Competitiveness* is defined by the World Economic Forum as the set of institutions, policies, and factors that determine the level of productivity of a country.

POSITIVO: Acceso móvil a internet 3G = 20% (nº 3 en UE, vs 10% media)

“eEspaña 2011” Fund. Orange

Costes

INCLUYENDO EL COSTE DE LÍNEA

El precio de la banda ancha en España es el más alto de los países de la OCDE

Directorio [Japón](#) [España](#) [Reino Unido](#) [Turquía](#)

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COMPARTE ESTA NOTICIA

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MADRID, 27 Jun. (EUROPA PRESS)

Foto: NRKBETA FLICKR CC

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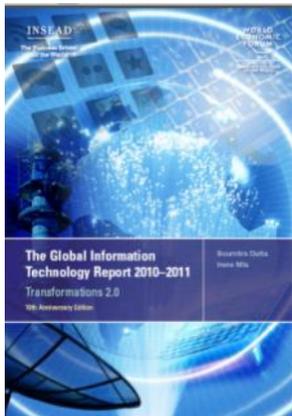
Los precios de la banda ancha en España son los más altos de los países de la OCDE si se incluye el coste de línea y los séptimos más caros sin tener en cuenta esta carga, según consta en el último estudio de "Perspectivas de la Comunicación" de la OCDE.

En concreto, la oferta más barata (entry price) de banda ancha en España asciende a 28,29 dólares (19,91 euros), sin la cuota de línea, y a 44,48 dólares (31,3 euros) incluyendo este coste.

De esta forma, España encabeza, junto a Chile, Corea y Nueva Zelanda, el ranking de países más caros en lo que a banda ancha se refiere, con precios que rebasan hasta en 30,96 dólares (21,79 euros) el precio más bajo 13,52 dólares (9,51 euros) que se cobra por estos servicios en Estonia.

Así, además de Estonia, Turquía, con un precio de 14,31 dólares (10,07 euros), Eslovenia, con 14,5 dólares (10,2 euros) y Japón, con 14,82 dólares (10,43 euros) son los países con los precios más asequibles

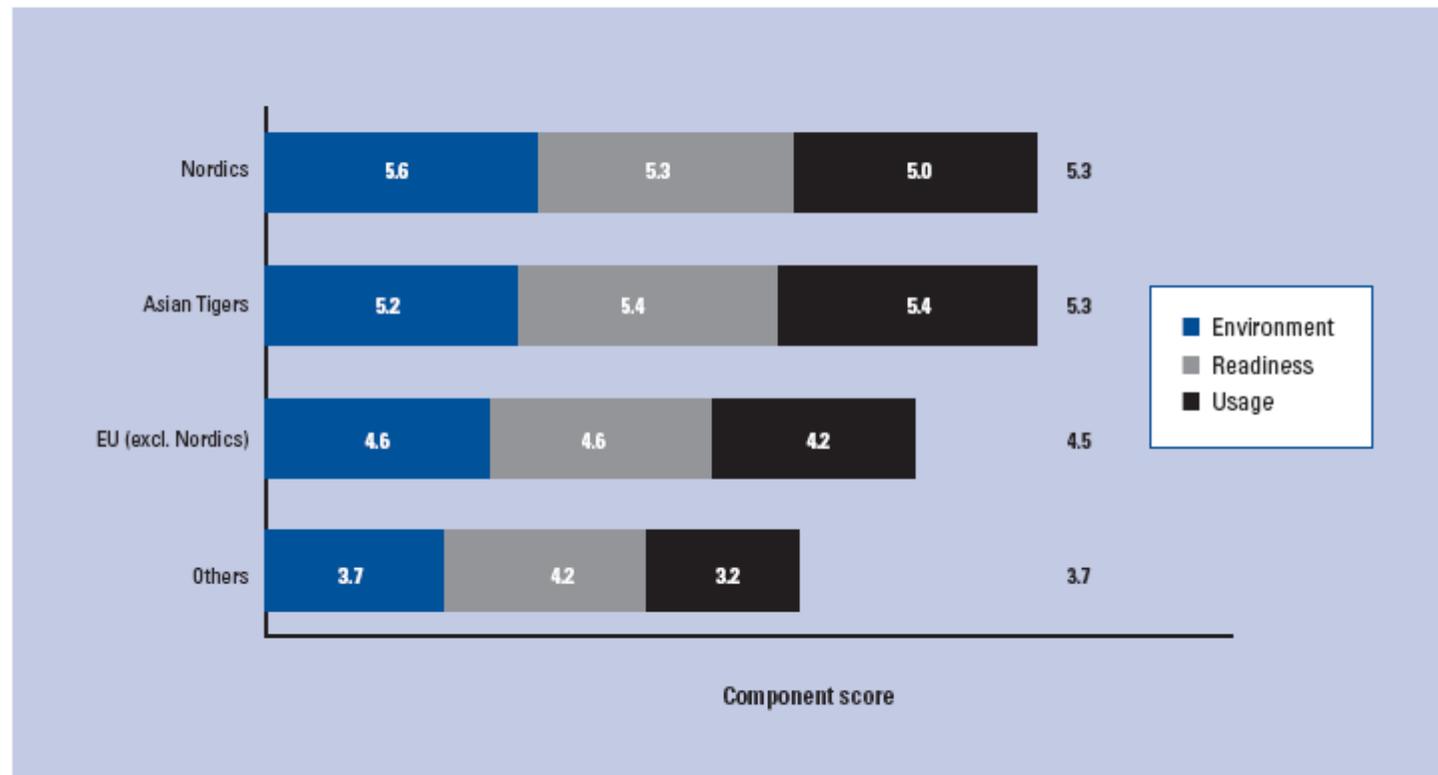
Network Readiness Index



1.1: The Networked Readiness Index 2010-2011

Fuente:
WEF + INSEAD

Figure 3: Average NRI score for selected country groups



Note: The contribution of each component to the overall NRI is depicted by the length of each respective solid bar. The number at the end of each bar is the overall NRI score. *Nordics* comprise Denmark, Finland, Iceland, Norway, and Sweden; *Asian Tigers* refers to Hong Kong, Korea, Singapore, and Taiwan. *EU (excl. Nordics)* corresponds to the EU27 less Denmark, Finland, and Sweden. *Others* refers to all other economies covered by the study.

España = 37° NRI

Spain

Key indicators

Population (millions), 2009.....	45.8
GDP (PPP) per capita (PPP \$), 2009	29,625
GDP (US\$ billions), 2009	1,467.9

Global Competitiveness Index 2010–2011 rank (out of 139) 42

Networked Readiness Index

Edition (No. of economies)	Score	Rank
2010–2011 (138)	4.3	37
2009–2010 (133).....	4.4	34
2008–2009 (134).....	4.5	34
2007–2008 (127).....	4.5	31
2006–2007 (122).....	4.4	32

276

Environment component 4.5 37

Market environment	Score	Rank
1.01 Venture capital availability*	2.6	58
1.02 Financial market sophistication*	5.7	24
1.03 Availability of latest technologies*	5.8	32
1.04 State of cluster development*	4.1	36
1.05 Burden of government regulation*	2.8	109
1.06 Extent & effect of taxation*	3.0	111
1.07 Total tax rate, % profits.....	56.5	114
1.08 No. days to start a business	47	118

Readiness component 4.2 70

Individual readiness 4.2 109

4.01 Quality of math & science education*	3.1	113
4.02 Quality of educational system*	3.1	106
4.03 Adult literacy rate, %	97.6	52
4.04 Residential phone installation (PPP \$).....	137.8	110
4.05 Residential monthly phone subscription (PPP \$).....	23.1	118
4.06 Fixed phone tariffs (PPP \$)	0.21	92
4.07 Mobile cellular tariffs (PPP \$)	0.63	123
4.08 Fixed broadband Internet tariffs (PPP \$).....	28.3	40
4.09 Buyer sophistication*	3.8	47

Business readiness 4.6 31

5.01 Extent of staff training*	3.7	68
5.02 Quality of management schools*	5.6	8
5.03 Company spending on R&D*	3.2	47
5.04 University-industry collaboration in R&D*	4.0	46
5.05 Business phone installation (PPP \$).....	96.2	72
5.06 Business monthly phone subscription (PPP \$).....	23.1	95
5.07 Local supplier quality*	5.2	26
5.08 Computer, communications, & other services imports, % services imports	52.5	11

Government readiness 3.7 93

6.01 Gov't prioritization of ICT*	4.2	100
6.02 Gov't procurement of advanced tech.*	3.4	87
6.03 Importance of ICT to gov't vision*	3.6	96

Usage component 4.4 28

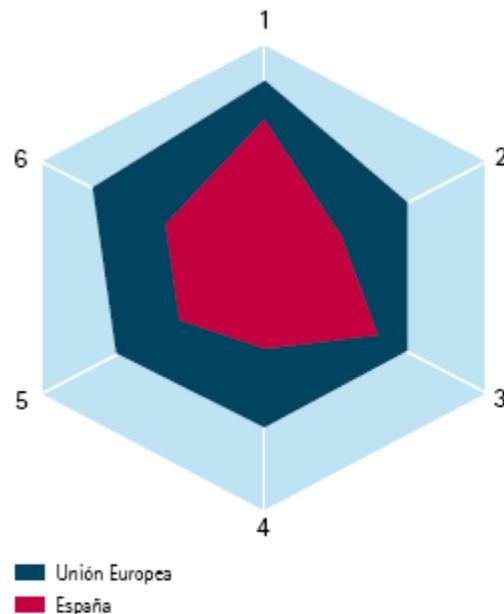
Individual usage 4.8 32

7.01 Mobile phone subscriptions/100 pop.....	113.8	44
7.02 Cellular subscriptions w/data, % total	45.2	15

Innovación: España y la UE



Gráfico 1
La situación española



Nota: los seis primeros puntos reflejan la comparativa España-Unión Europea (gráfico); los cuatro restantes hacen referencia exclusivamente a España.

1. El 74 % de la población española se gradúa en educación secundaria, frente al 85 % en la Unión Europea.
2. El 68 % de las personas de entre 18 y 24 años que terminan la educación secundaria continúa estudiando, frente al 83 % en la Unión Europea.
3. El 54 % de las personas ha accedido a Internet al menos una vez por semana, frente al 64 % en la Unión Europea.
4. El 16 % de las personas ha comprado bienes o servicios para uso privado en Internet, frente al 33 % en la Unión Europea.
5. El gasto empresarial en I+D representa en España el 0,71 % del PIB, frente al 1,25 % en la Unión Europea.
6. El 6,1 % de las empresas españolas lanza al mercado productos nuevos o significativamente mejorados, frente al 12,7 % en la Unión Europea.
7. Solo el 9,6 % de la población española manifiesta tener interés por la ciencia y la tecnología. Entre aquellos que tienen educación universitaria, el porcentaje se eleva al 17 %.
8. España es el 6.º país con más trabas a la actividad empresarial, de los 19 que analiza el Banco Mundial.
9. España ocupa el 12.º lugar en nivel de cooperación para la innovación, de los 14 países que estudia la Unión Europea.
10. En España hay unas 12.000 empresas que hacen I+D y unas 42.000 que innovan.

Innovación: ranking EIU

Economist Intelligence Unit

The Economist

A new ranking of the world's most innovative countries

An Economist Intelligence Unit report
Sponsored by Cisco



How the Economist Intelligence Unit ranks countries

To rank countries, the Economist Intelligence Unit distinguishes between “innovation output” (performance) and “innovation inputs” (enablers).

Innovation output is measured by the sum of patents granted by three major government patent offices: the European Patent Office (EPO), the Japanese Patent Office (JPO) and the US Patent and Trademark Office (USPTO). The data are averaged over four-year periods, and normalised as number of patents per million to create an index on a 1-10 scale. The 2007 index is based on data from the 2002-05 period; the 2009 index uses data from 2004 to 2007.

Innovation inputs include both direct drivers and the broad economic, social and political context, or innovation environment. They are based on the scores from the Economist Intelligence Unit’s Business Environment Ranking (BER) model averaged

over five-year periods: 2002-06 for the original ranking and 2004-08 for the update.

The five-year forecasts (2007-11 and 2009-13, respectively) are based on the BER model. The model itself is based on historical conditions and expectations of conditions

over the next five years. (For a detailed description of the methodology used in developing the ranking and the Economist Intelligence Unit’s BER model that underlies our forecasts, please go to www.eiu.com/sponsor/cisco/innovationindex09).

Innovation inputs

Direct innovation inputs (0.75 weight)

Research and development (R&D) as % of gross domestic product (GDP)

Quality of local research infrastructure

Education of workforce

Technical skills of workforce

Quality of information technology (IT) and communications infrastructure

Broadband penetration

Innovation environment (0.25 weight)

Political environment

Market opportunities

Policy towards free enterprise and competition

Policy towards foreign investment

Foreign trade and exchange controls

Taxes

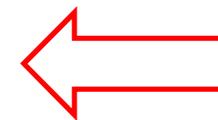
Financing

The labour market

Infrastructure

España = 26º

2009-2013	Innovation performance				Innovation enablers					
	Expected innovation performance index	Rank	Growth expected during the next 5 years (%)	Expected change in rank	Expected direct inputs index	Rank	Expected innovation environment index	Rank	Expected aggregate innovation enablers index	Rank
Japan	10.00	1	0.0	0	9.94	9	6.97	28	9.20	11
Switzerland	9.70	2	-0.2	0	10.00	1	8.28	7	9.57	4
Finland	9.53	3	0.3	0	10.00	1	8.52	3	9.63	1
USA	9.44	5	-0.6	-1	10.00	1	7.86	14	9.47	6
Sweden	9.42	7	-0.2	-2	10.00	1	8.41	6	9.60	3
Germany	9.49	4	1.0	2	10.00	1	8.25	8	9.56	5
Taiwan	9.44	6	0.7	1	9.63	10	7.34	21	9.05	14
Netherlands	9.16	9	-0.1	-1	9.63	10	8.22	10	9.27	8
Israel	9.20	8	0.8	1	10.00	1	6.93	31	9.23	9
Denmark	9.06	10	-0.2	0	10.00	1	8.44	4	9.61	2
South Korea	9.05	11	1.2	0	9.50	13	6.73	35	8.81	17
Austria	8.98	12	0.6	0	9.19	18	7.39	20	8.74	19
France	8.96	13	0.9	0	10.00	1	7.66	17	9.42	7
Canada	8.83	15	-0.4	-1	9.50	13	8.10	11	9.15	12
Belgium	8.89	14	1.2	1	9.25	15	7.73	16	8.87	16
Singapore	8.75	16	-0.1	0	8.88	19	8.43	5	8.76	18
Norway	8.75	17	0.2	0	8.88	19	7.82	15	8.61	20
UK	8.58	19	-1.6	-1	9.25	15	7.93	13	8.92	15
Ireland	8.57	20	0.9	-1	9.25	15	8.74	1	9.12	13
Australia	8.61	18	1.4	2	9.63	10	8.05	12	9.23	10
Hong Kong	8.46	22	0.2	-1	8.06	23	8.57	2	8.19	22
Italy	8.46	21	0.3	1	7.94	26	6.31	45	7.53	28
New Zealand	8.40	23	2.0	0	8.44	21	8.22	9	8.38	21
Slovenia	7.80	24	0.9	0	8.25	22	6.58	37	7.83	24
Cyprus	7.72	25	1.4	0	6.13	43	7.21	23	6.40	38
Spain	7.50	26	-0.1	0	8.00	24	7.28	22	7.82	25
Hungary	7.28	27	1.5	0	7.81	28	6.86	33	7.57	27
Czech Republic	6.79	31	-1.0	-3	7.94	26	6.98	26	7.70	26
Croatia	7.16	28	5.1	1	6.75	32	6.07	54	6.58	34
Estonia	6.82	30	0.9	0	8.00	24	7.64	18	7.91	23
Malaysia	6.57	35	-1.9	-4	6.38	37	6.22	48	6.34	40
Greece	6.75	33	1.7	-1	6.00	45	6.26	46	6.06	45
Portugal	6.79	32	2.9	1	7.25	29	6.98	27	7.18	30
South Africa	6.94	29	5.5	5	5.94	47	6.39	44	6.05	48
Costa Rica	6.69	34	5.4	1	6.19	42	6.94	30	6.37	39
Slovakia	6.19	38	0.3	-2	7.19	31	7.20	24	7.19	29
Kuwait	6.25	36	1.6	1	4.81	60	6.15	52	5.15	58
Lithuania	6.14	40	1.1	-2	6.63	35	6.50	40	6.59	33
Russia	6.14	39	1.9	0	7.25	29	4.74	69	6.62	32
UAE	6.07	44	1.7	-4	6.06	44	6.79	34	6.25	42
Argentina	6.08	42	2.0	-1	6.31	40	5.86	58	6.20	44



I&D empresarial: España y la UE

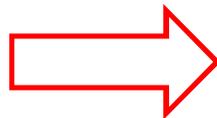
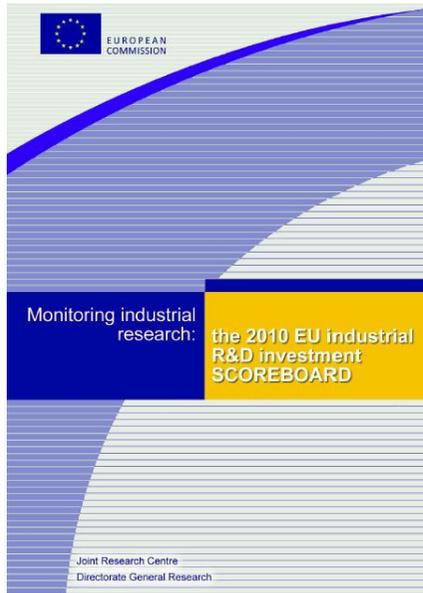


Table 11. R&D trends of companies based in the top 10 EU Member States*

Country	No. of companies	R&D Share within EU	One year growth, %	CAGR 3 yr, %
Germany	206 (209)	33.8	-3.2	3.1
France	116 (125)	18.9	-4.3	2.1
UK	246 (247)	15.4	-0.6	6.3
The Netherlands	52 (53)	7.3	-3.3	1.2
Sweden	76 (70)	5.0	-6.6	4.0
Italy	53 (57)	4.9	-2.2	7.4
Finland	56 (58)	4.9	-6.0	8.5
Denmark	46 (47)	2.9	1.8	11.1
Spain	27 (21)	2.2	15.4	16.3
Belgium	40 (39)	1.8	-5.2	3.3
Total EU-10	918 (926)	97.2	-2.9	4.1

* Figures of the 2009 Scoreboard in brackets.

Source: The 2010 EU Industrial R&D Investment Scoreboard.

European Commission, JRC/DG RTD.

Empresas Españolas en el Top-1k I&D UE

	<u>Nº</u>	<u>Empresa</u>	<u>M€</u>	<u>I+D/Ventas</u>			
	31	SANTANDER	856	2.1%			
	34	TELEFONICA	777	1.4%			
	103	INDRA	175	7.9%		462	OBRASCON 21 0.5%
	141	ALMIRALL	133	14.4%		629	AMPER 12 4.4%
	184	ACCIONA	92	1.2%		636	CAF 12 1.0%
	187	IBERDROLA	90	0.4%		715	EBRO PULEVA 9 0.4%
	189	ABENGOA	89	2.2%		717	LABS ROVI 9 6.8%
	222	REPSOL	75	2.2%		754	Corp IBV 8 0.8%
	233	FAGOR	69	4.9%		773	GRIFOLS 8 0.9%
	274	ZELTIA	54	43.9%		823	FAES FARMA 7 3.6%
	284	ITP	50	10.3%		823	REE 7 0.6%
	314	GAMESA	41	1.3%		866	CIE AUTOM'VE 6 0.5%
	324	ACS	40	0.2%		923	PESCANOVA 5 0.4%
						961	ERCROS 5 0.8%
						987	NIC. CORREA 4 9.3%

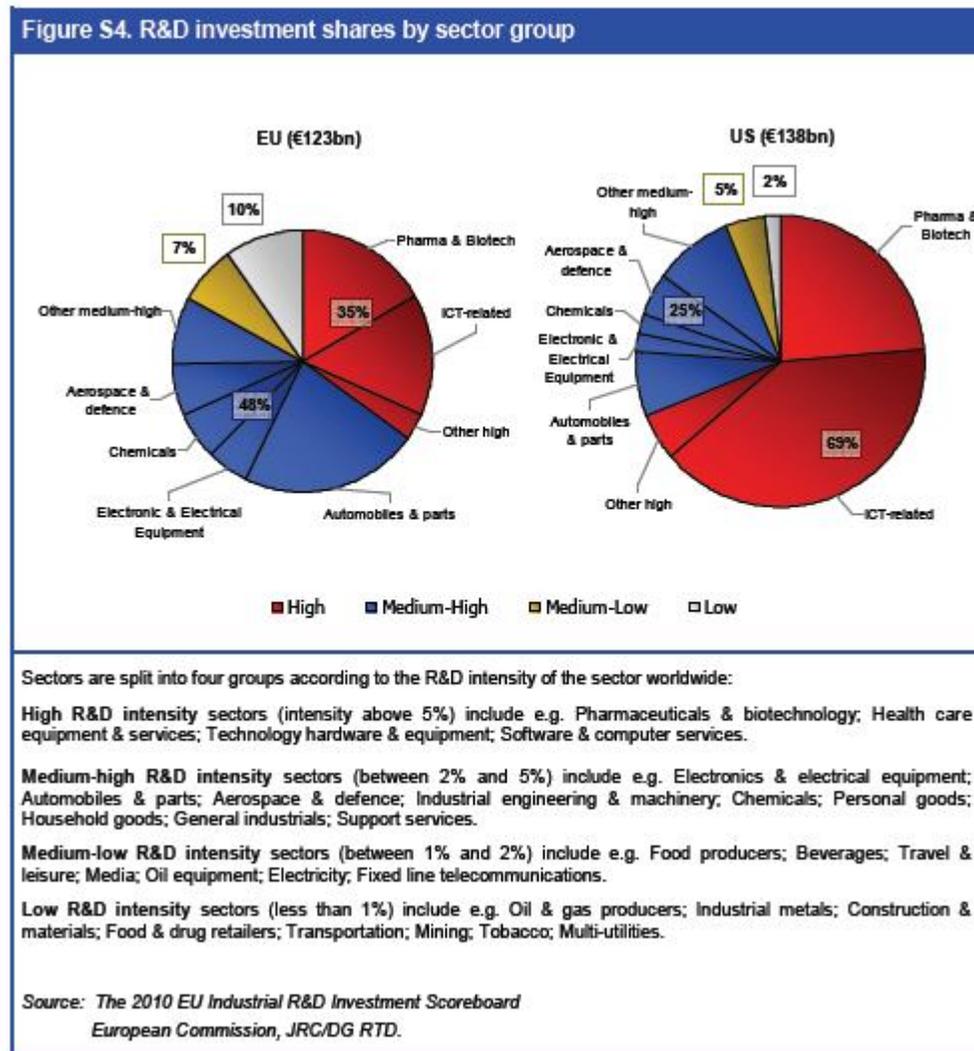
Fuente: EC Scorecard

Telefónica I&D: Carlos Domingo Consejero Delegado

<http://www.tertuliadigital.tv/#>

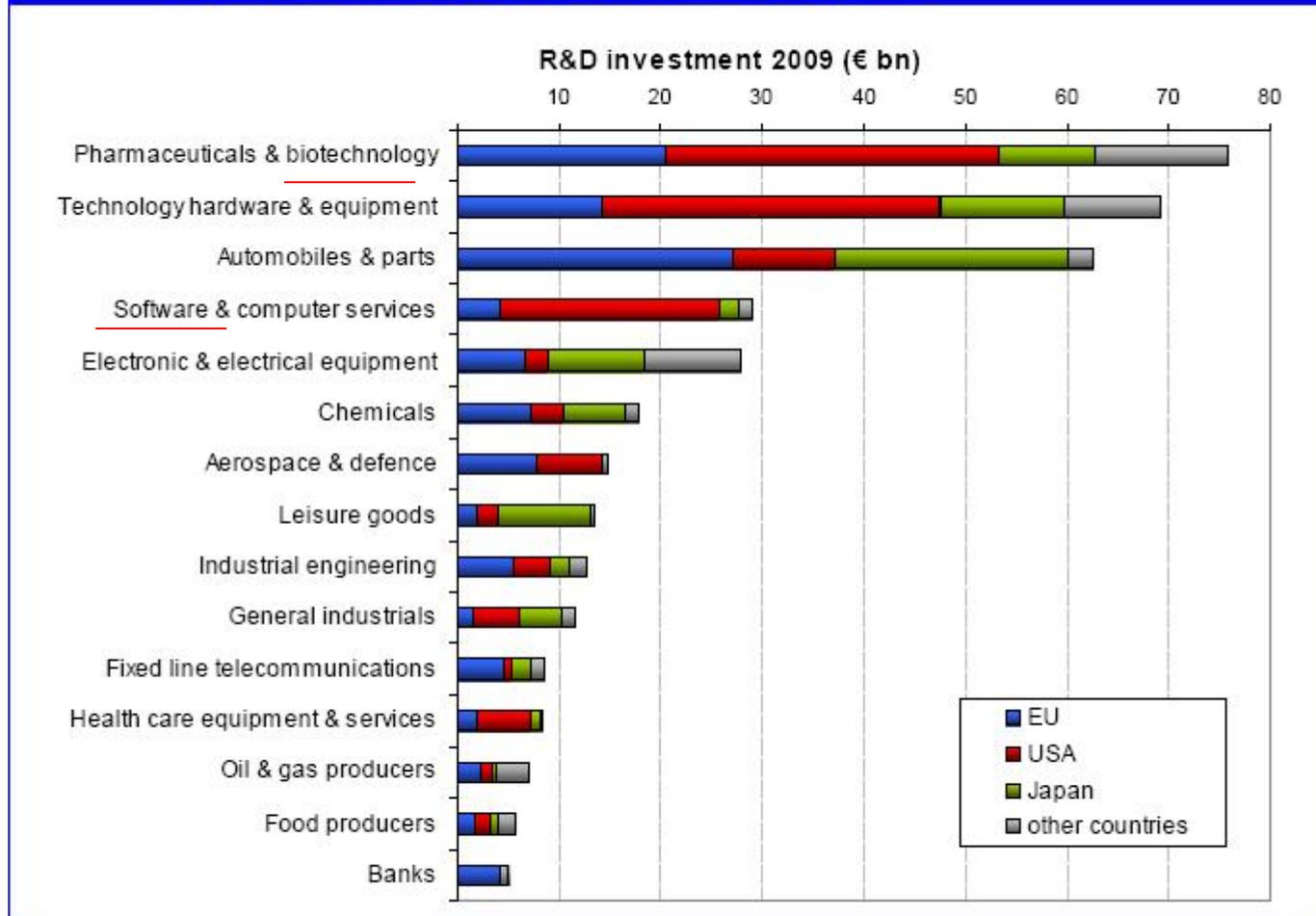


I&D empresarial: UE vs EEUU



I&D empresarial por sectores

Figure 3. R&D ranking of industrial sectors and share of main world regions for the world's top 1400 companies in the 2010 Scoreboard

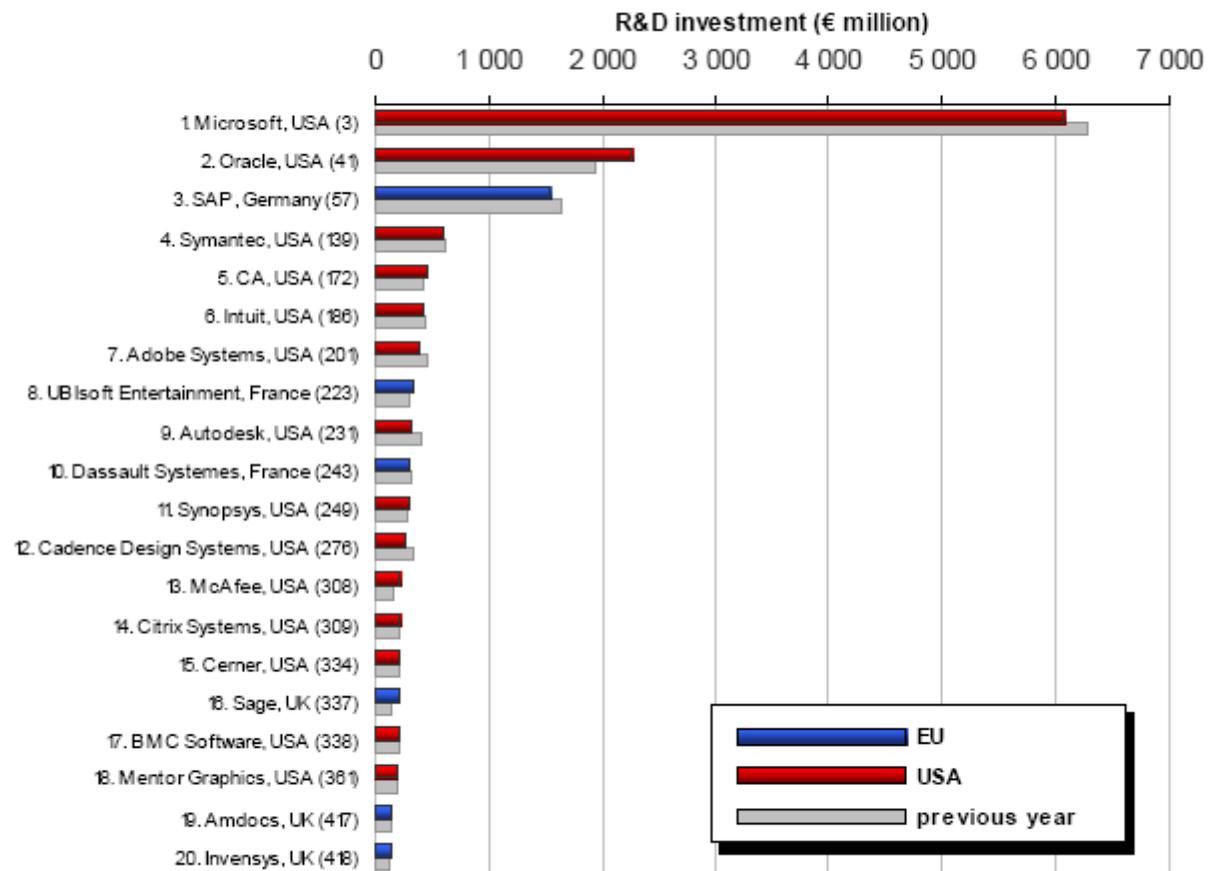


Note: Ranked by total worldwide R&D investment of the sector.

Source: The 2010 EU Industrial R&D Investment Scoreboard
European Commission, JRC/DG RTD.

I&D: empresas de software

Figure 6. Ranking of the top 20 R&D companies in the software sector by their total R&D investment in the 2010 Scoreboard

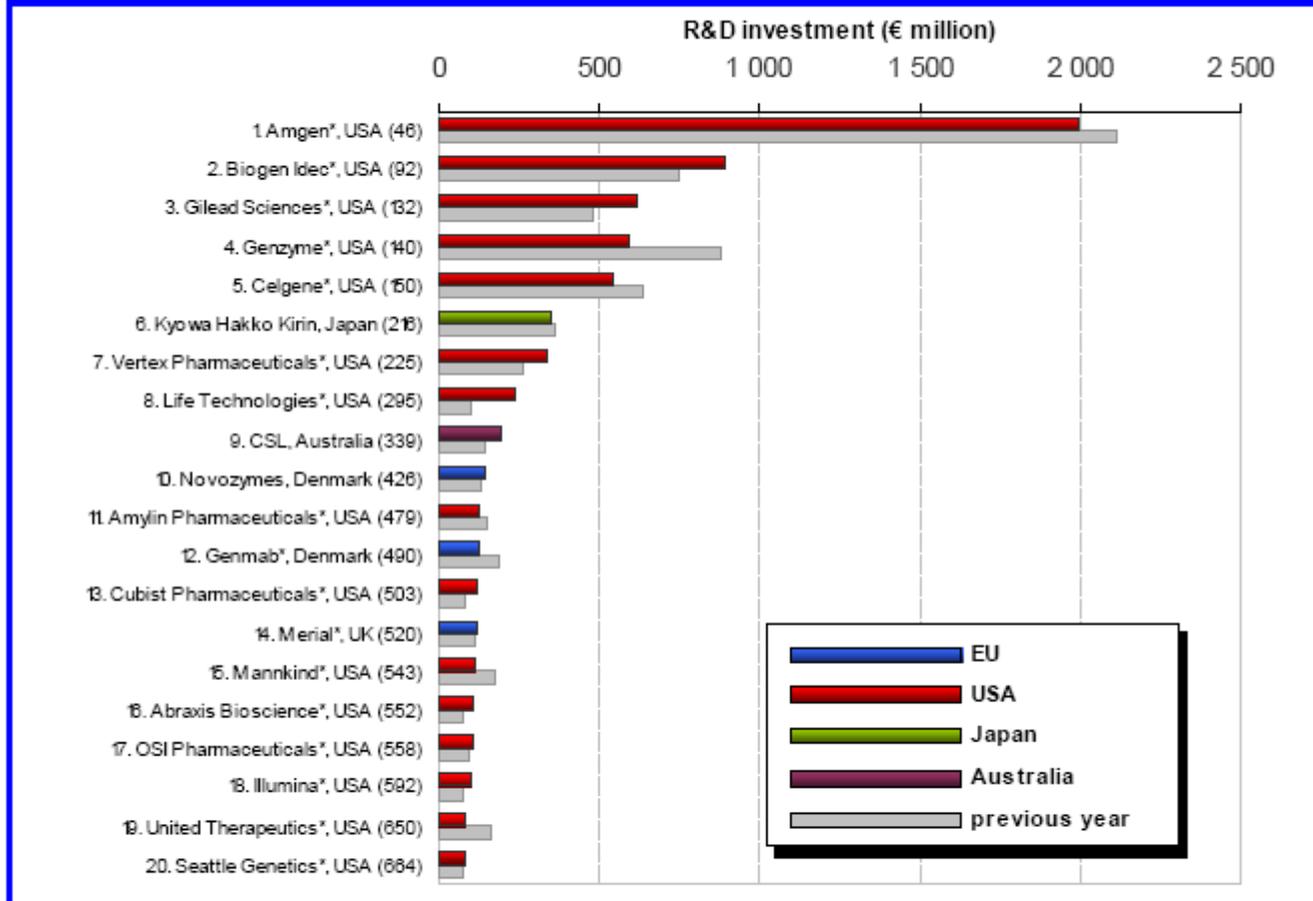


Note: The number in brackets after the names of the companies indicate the position in the general Scoreboard ranking. Sector groups as in figure S3 of the Summary. For companies with data available for the whole period.

*Source: The 2010 EU Industrial R&D Investment Scoreboard
European Commission, JRC/DG RTD.*

I&D: empresas de biotech

Figure 7. Ranking of the top 20 R&D companies in the biotechnology sector by their total R&D investment in the 2010 Scoreboard



Note: The number in brackets after the names of the companies indicate the position in the general Scoreboard ranking. Sector groups as in figure S3 of the Summary. For companies with data available for the whole period.

*Source: The 2010 EU Industrial R&D Investment Scoreboard
European Commission, JRC/DG RTD.*

Las empresas jóvenes & I+D



Table 14. Young firms and their presence by sector

Sector (ICB)	Number of firms	Share of young firms	R&D by young firms	R&D intensity of young firms	R&D intensity of old firms	Share of sector in total R&D
Internet	7	100.0	100.0	13.3	0.0	0.8
Biotechnology	41	87.8	90.4	22.7	9.3	2.1
Software	53	90.6	89.3	14.8	12.7	4.5
Food & drug retailers, & General retailers	9	35.3	66.1	7.0	0.3	0.7
Semiconductors	78	69.2	50.4	17.6	16.4	5.9
Telecom equipment	37	70.3	45.2	13.3	12.4	6.2
Travel & leisure	10	50.0	44.8	1.6	13.4	0.3
Computer hardware	30	70.0	40.9	3.4	4.3	3.8
Health care	40	25.0	27.4	8.3	5.8	2.0
Support services	11	45.5	23.3	1.7	2.7	0.3
Total	1000	32.6	19.2	6.1	3.3	100.0
Computer services	14	57.1	17.4	9.3	5.2	1.8
Leisure goods	25	32.0	13.5	13.1	6.1	3.4
Oil & gas	31	9.7	12.9	0.7	0.5	2.2
Electronics	61	27.9	10.7	2.6	5.5	5.6
Telecom services	21	33.3	10.5	0.9	1.8	2.4
Media	8	25.0	7.2	2.4	2.8	0.6
Industrial machinery	46	8.7	6.9	4.1	2.8	1.3
Electrical hardware	25	24.0	6.6	5.1	4.3	2.7
Construction & materials	23	4.3	5.4	0.8	1.1	0.8
Commercial vehicles	17	11.8	5.0	3.3	3.8	1.6
Other sectors	74	12.2	4.7	3.3	1.2	3.5
Personal goods	13	7.7	4.7	3.2	2.6	0.6
Pharmaceuticals	71	28.2	3.9	15.5	15.5	17.0
General industrials	34	8.8	3.8	1.1	2.8	2.9
Aerospace & defence	33	18.2	2.9	5.2	4.0	3.8
Chemicals	69	7.2	2.7	0.9	3.8	4.4
Automobiles & parts	72	12.5	2.4	2.7	4.8	16.0
Electricity	13	0.0	0.0	0.0	0.7	0.6
Food & Beverages	27	0.0	0.0	0.0	1.7	1.8
Gas, water & multiutilities	7	0.0	0.0	0.0	0.3	0.2

*Source: The 2010 EU Industrial R&D Investment Scoreboard
European Commission, JRC/DG RTD.*

Nuestro caso

- Del “que inventen ellos” de Unamuno, de los múltiples casos de cierre y/o de venta a empresas extranjeras...
- ...a casos de éxito internacional



De BuyVIP a Home24x7

Alice.com llega a España

La tienda de venta directa se instala en nuestro país de la mano de Home 24x7

ADRIÁN SEGOVIA - Madrid - 15/07/2011

No es un supermercado online, pero en [Alice.com](#) podrás hacer la compra por Internet ahorrando dinero, tras aprovechar ofertas especiales que reduzca precio del producto, y sin perder tiempo en desplazamientos, colas o atascos. ¿Cómo? Comprando directamente a las marcas. Así de sencillo. De alguna manera, las grandes productoras de bienes de gran consumo se unen para almacenar sus productos en un punto único y Alice.com hace posible que estas firmas te los vendan directamente. El fenómeno está siendo un éxito en Estados Unidos, con 700.000 cuentas de usuarios y unas tasa de repetición de compra elevadas. Pero no solo, ya que son las propias marcas las que están viendo en este nuevo canal tres atractivos contundentes: desintermediación (llegan al consumidor directamente), aprendizaje (al estar en contacto con el cliente final, detectan sus intereses y pueden ajustar las mejores promociones en el punto de venta físico una vez contrastado su éxito en la red) y ventas (una nueva ventana de explotación y ganar dinero).

Alice.com se ha fusionado con la española Home 24x7 con miras a expandirse por Europa. Nacho Somalo, fundador y CEO de Home 24x7, asumirá la presidencia europea de Alice.com, que comenzará su expansión desde España. Algunas de las compañías que ya cuentan con una zona para ofrecer sus productos directamente al consumidor son General Mills, Bic, Kellogg's, Unilever, Johnson & Johnson, Bayer, LG y 3M.

La operación ha sido capitaneada por el propio Somalo y por [el empresario Gustavo García Brusilovsky, fundador de BuyVip](#) cuya compañía fue adquirida el gigante del comercio electrónico [Amazon.com](#), por 70 millones de euros en octubre de 2010. Alice.com será la marca resultante de la fusión que ha costado con una inversión de 5 millones de euros por parte de varios inversores, más otros 14 millones aportados por la empresa americana para acometer su presencia en Europa. "La empresa no solo generará trabajo directo, ya contamos con 20 empleados, sino que moverá muchísimo empleo indirecto, en distribución, logística, marketing", apunta el nuevo presidente europeo de Alice.com, Nacho Somalo.

Grifols \$3B\$ merger

- MedCity News - <http://www.medcitynews.com> -

Grifols and Talecris get FTC approval to merge

Posted By [Frank Vinluan](#) On June 1, 2011 @ 12:17 pm In [Featured Story](#), [MedCity News eNewsletter](#), [Top Story](#) | [No Comments](#)

[1]

[Grifols](#) [2] (MCE:GRF [3]) \$4 billion acquisition of [Talecris Biotherapeutics](#) [4] (NASDAQ:TLCR [5]) now has the regulatory clearance to close.

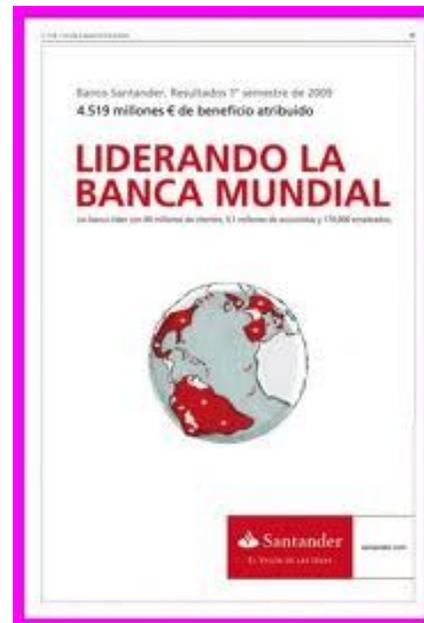


Barcelona, Spain-based Grifols said Wednesday that the U.S. Federal Trade Commission has [accepted a consent agreement](#) [6] that outlines the conditions for merger of the blood therapeutics companies. Last month, the FTC and the companies reached a preliminary agreement that identified which assets the companies must sell in order to win the agency's blessing. Within 10 days of the sale, Research Triangle Park, North Carolina-based Talecris must divest to Italian biopharmaceutical company [Kedrion](#) [7] the Talecris fractionation facility in Melville, New York, as well as the Talecris hemophilia product Koate. The companies must also sell to Kedrion two Talecris plasma collection centers, one in Mobile, Alabama and the other in Winston-Salem, North Carolina.

The FTC had been concerned that a merger of two of the top companies in the specialized blood therapeutics space would [hurt competition and lead to higher drug costs for patients](#) [8]. The FTC raised antitrust concerns in 2009 when it blocked a proposed \$3.1 billion acquisition of Talecris by [CSL Ltd.](#) [9], the No. 2 company in the blood therapeutics space behind [Baxter International](#) [10] (NYSE:BAX [11]). While Kedrion also develops plasma-derived therapies, it is a much smaller player in this space. The agreement with the FTC also calls for Grifols to enter into a contract manufacturing agreement that will support certain Kedrion products to be sold in the United States.

Grifols is now clear to close the transaction without any further FTC action and the company said it expects to complete the deal today or shortly thereafter. When the deal closes, the combined Grifols-Talecris will remain the No. 3 player in the blood therapeutics space, but it will be better positioned to compete against Baxter and CSL. Talecris gives Grifols a better presence in the U.S. market, as well as a slate of established blood therapy products.

Liderazgo



Contribución de los centros de excelencia



Nuestros centros son de calidad

Table 2. Output Indicators²²

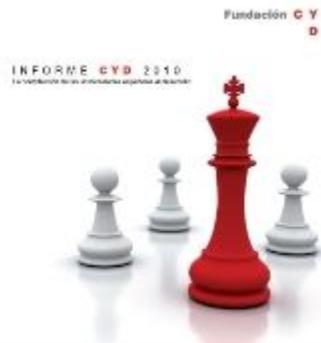
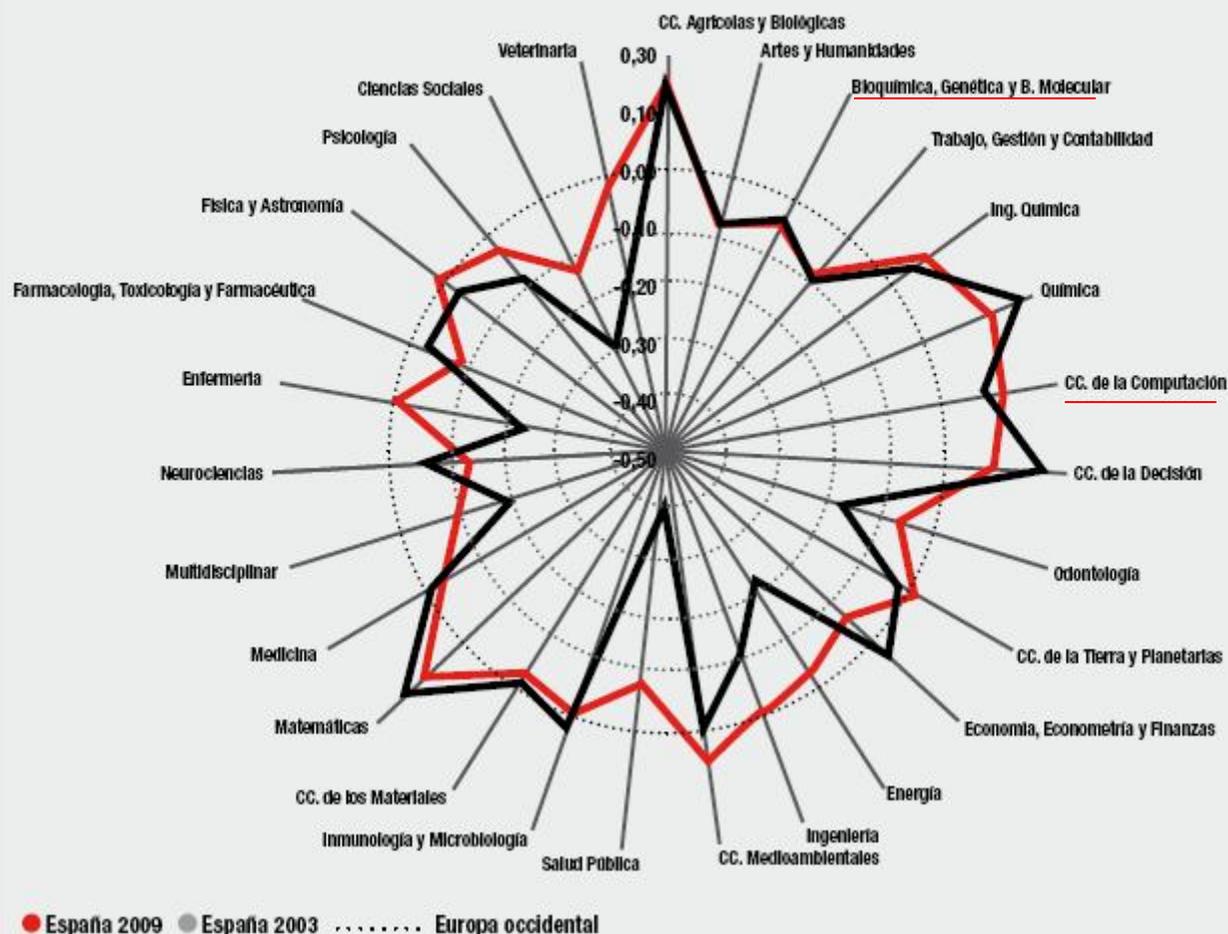
	CSIC	CNRS	MPG
Publications ISI (2002-08)	43,305	156,204	59,620
Citations ISI (2002-08)	442,590	1,540,966	947,874
Citations per document ISI (2002-08)	10.22	9.87	15.89
H-Index ISI (2002-08)	136	222	227
High IF (2002-08)	148	860	823
Patents (2002-08)	451	913	330
Publications ISI (2008)	7,925	27,020	9,191
Citations ISI (2008)	19,725	60,813	33,820
High IF (2008)	25	143	120
Patents (2008)	69	95	46
Publications Scopus 2003-2007	34,828	120,269	43,118
Citations per document Scopus 2003-2007	7.77	7.45	11.97

MENTOS CYD · 12/2010



I+D académica: España vs UE

Gráfico 8. Especialización de España con relación a Europa Occidental por áreas temáticas de la producción científica y tecnológica (índice Europa Occidental=1), 2003 y 2009



Pioneros

EN 2010

España entre los diez países europeos más avanzados en gobierno electrónico

[Directorio](#) [Bélgica](#) [Rumanía](#) [Hungría](#) [Reino Unido](#)

2 Deja tu comentario

COMPARTE ESTA NOTICIA

 89  30

 menealogo  tuenti

 +1  1



Foto: EUROPA PRESS

[Ampliar foto](#)

MADRID, 3 Jun. (EUROPA PRESS)

España se situó entre los diez primeros países europeos más avanzados en cuanto a disponibilidad de servicios públicos a través de Internet, por delante de países como Dinamarca, Alemania o los Países Bajos, según señala un informe realizado

por el Instituto de Estudios Económicos (IEE).

En concreto, España ocupa el octavo lugar, tras haber logrado un avance entre 2009 y 2010, puesto que el pasado año los organismos públicos nacionales ofrecían un 95% de los servicios básicos mediante acceso 'online', frente al 80% de los ofertados en 2009.

El ranking pone de manifiesto que seis países ya ofrecen el 100% de estos servicios básicos. Así, Irlanda, Italia, Malta, Austria, Portugal y Suecia ya han logrado este importante desarrollo, mientras que otros países como Reino Unido están cerca de conseguirlo, con un 98% de

¡No sólo en deportes tenemos n°s 1!



La bicefalia

Spain's economy

Split personality

How vulnerable is Spain? The answer depends on which Spain you mean

Jul 7th 2011 | from the print edition

[Tweet](#)

2

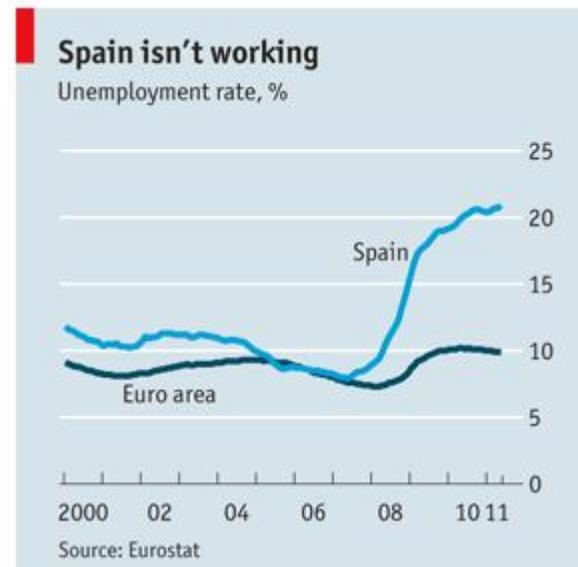
[Like](#)

EUROPE'S sovereign-debt crisis has already engulfed Greece, Ireland and Portugal. But the real fear is that it might spread to a large economy. Spain, whose GDP is almost double that of the three rescued countries put together, has long been a source of concern. Although it entered the crisis with relatively low public debt, at just 36% of GDP in 2007, that figure will rise to an estimated 68% by the end of 2011 because of big deficits. Worse, Spain shared several of the smaller economies' weaknesses, like a loss of competitiveness and big current-account deficits.

The immediate threat of contagion from Greece receded on June 29th when the Greek parliament passed a plan for more austerity, opening the way for the country to get another chunk of bail-out money. But just as Greece's problems have not really gone away, nor has Spain's



El quid de la cuestión



Agenda

1. ¿Qué empresas, y por qué, hacen I&D?
La competitividad, la innovación y la I&D
2. Época de grandes cambios
3. El mundo de las start-ups

2. Época de grandes cambios

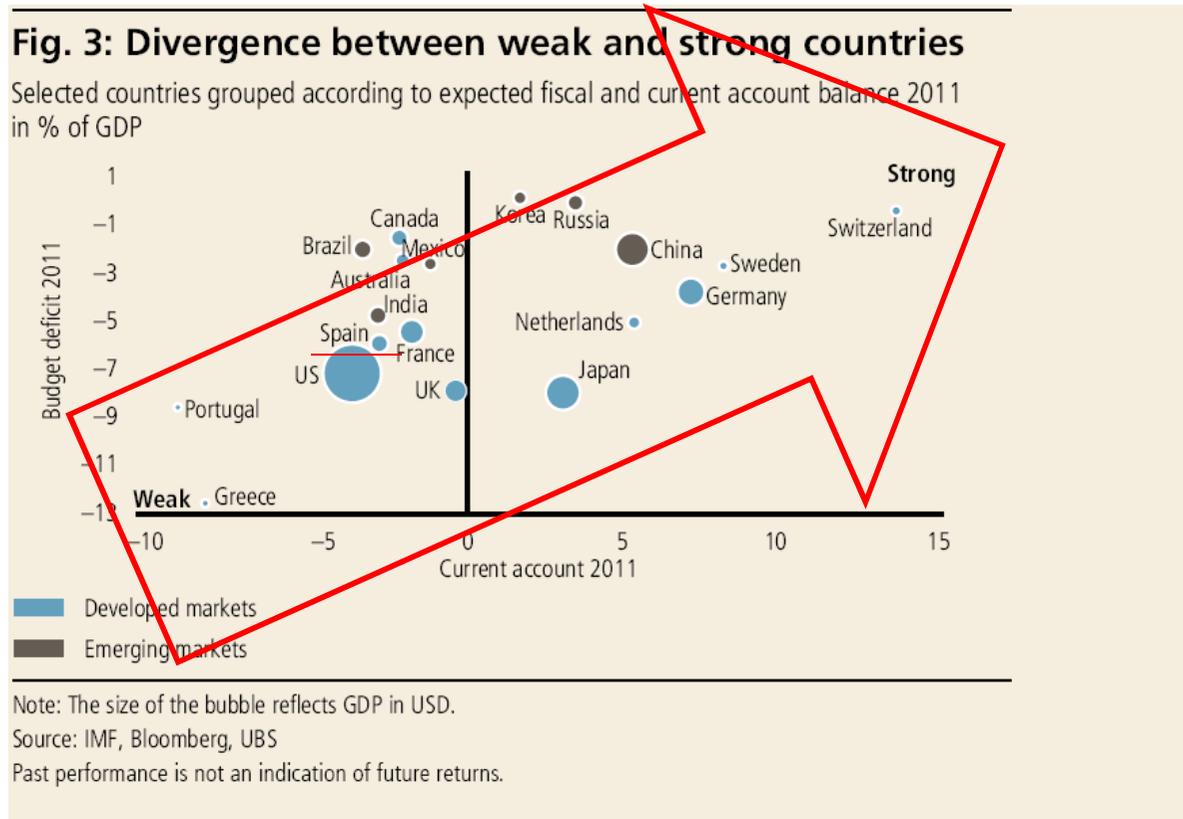
- Las presiones macro-económicas
- El siglo "bio"
- La presión hacia la externalización:
Open Innovation

Las presiones macro-económicas

- Crisis económicas
 - nacional
 - internacional
- Globalización
- Desarrollo sostenible
- Cambios demográficos
- Centralidad del Pacífico



Crisis: hay que innovar, crecer & exportar



La globalización

- Apertura arancelaria
- Facilidad de transporte
- Acceso inmediato y universal a la información



La inmediatez de la información

Google Reaches 1 Billion Global Visitors

– JUNE 22, 2011

POSTED IN: AFRICA/MIDDLE EAST, ASIA/PACIFIC, EUROPE, LATIN AMERICA, NORTH AMERICA, U.S., WORLDWIDE

In May 2011, Google Sites became the first web property to surpass 1 billion unique visitors globally. In the past year, Google Sites has seen its audience grow 8% to eclipse the 1 billion threshold. Microsoft Sites was the second largest global web property in May reaching more than 905 million visitors, followed by Facebook.com with 713.6 million visitors.

148

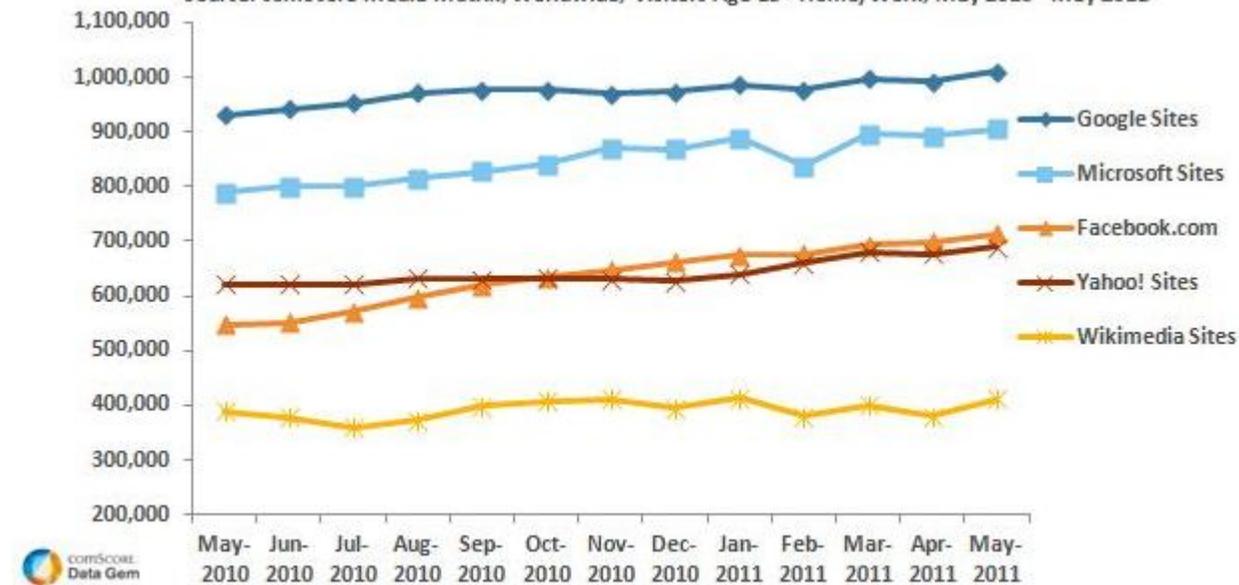
32

Tweet

Share

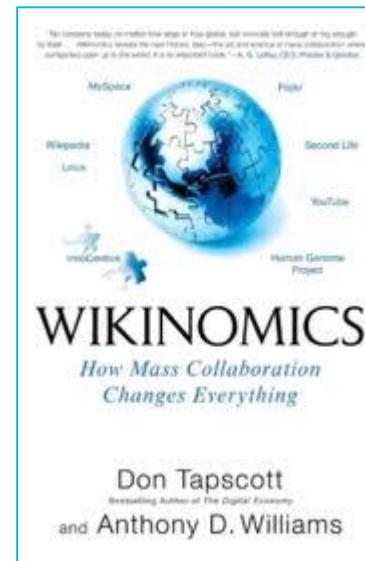
Top 5 Global Web Properties by Total Unique Visitors (000)

Source: comScore Media Metrix, Worldwide, Visitors Age 15+ Home/Work, May 2010 - May 2011

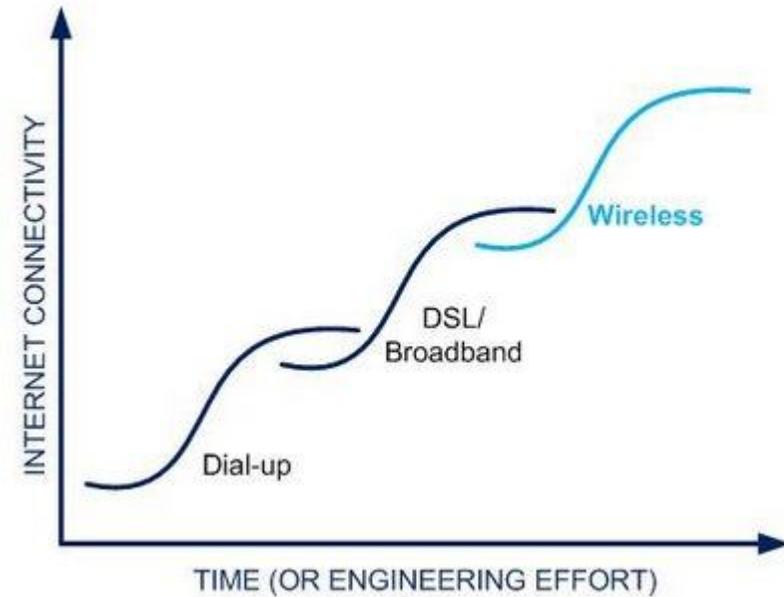
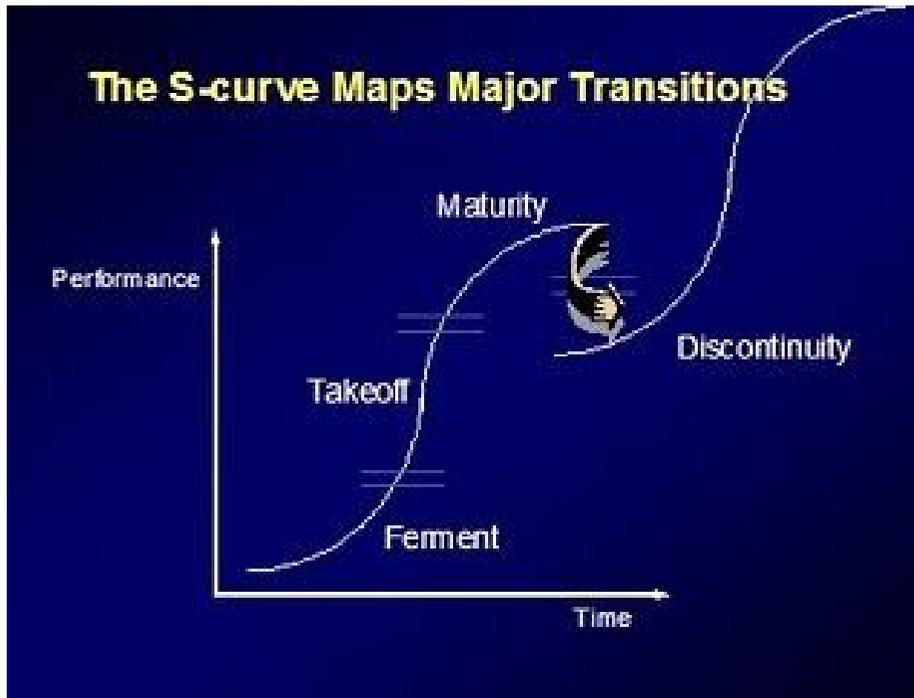


Crowd sourcing

- Contribuciones voluntarias y gratuitas
- ¡Desde hace 10 años!
 - MIT OpenCourseWare en abierto
 - Wikipedia
- Soluciones “open source”
 - ¿Dónde está el negocio?
 - Publicidad
 - “Freemium”



Ciclos de vida: se acortan



Desarrollo sostenible

- El calentamiento global está influido por la actividad humana, especialmente a través de los gases de efecto invernadero
- El “carbon footprint”:
medida, gestión, minimización y mercadeo



Pushing for a carbon tax in Australia An expensive gamble

The prime minister stakes her future on a divisive scheme

Jul 14th 2011 | SYDNEY | from the print edition



Cambios demográficos

- China
1.300 millones
+ 10M en edad de trabajo en 2030
- India
1.200 millones
+ 240M en edad de trabajo en 2030
- BRIC
40% de la población
25% de la geografía
Entre las 4 economías más importantes en 2050



Del Mediterráneo al Atlántico al Pacífico

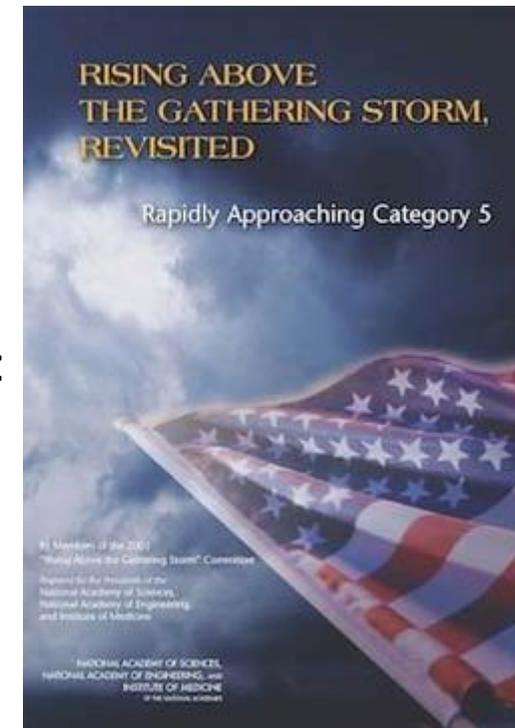
- Exportaciones hi-tech (en % mundial):

	<u>2005</u>	<u>2010</u>
USA	21%	14%
China	7%	20%

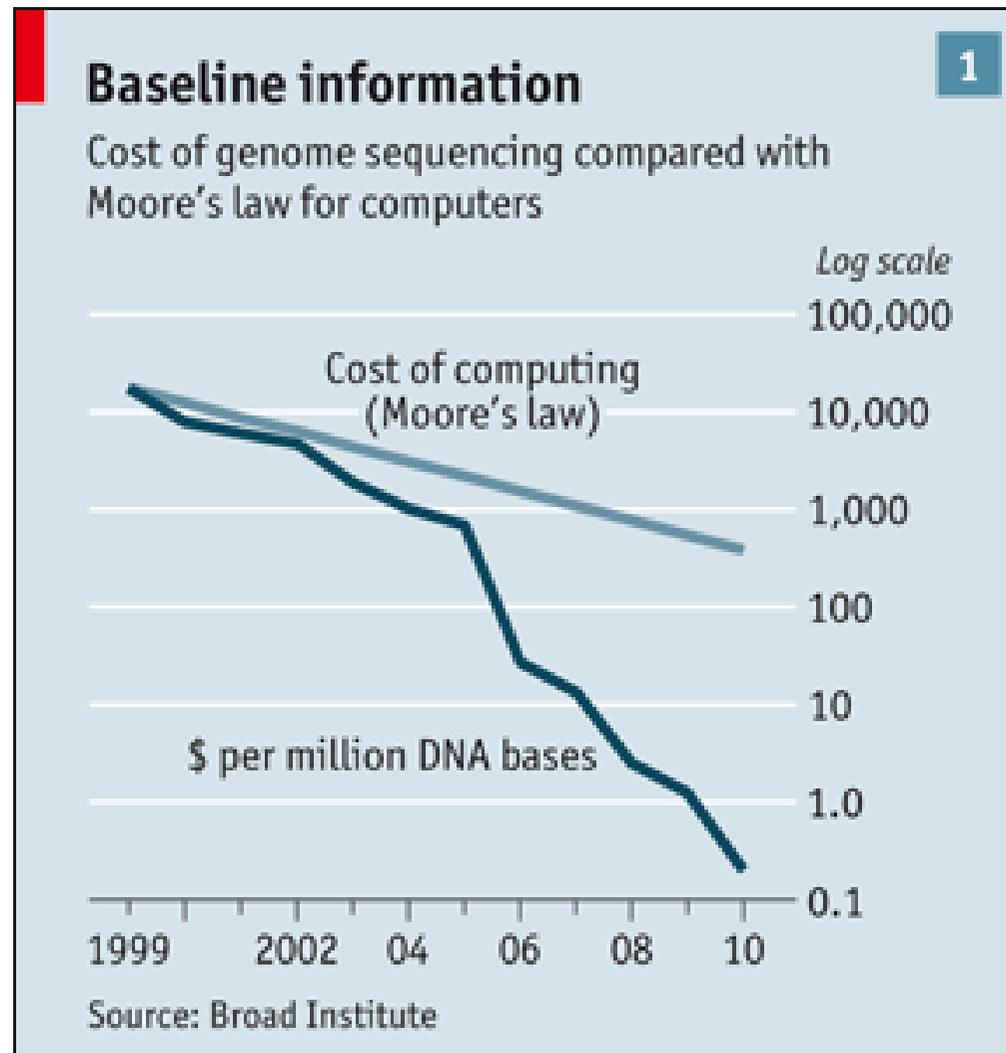
- Origen de los candidatos PhD en ciencias en USA en 2010:

USA	30%
No USA (mayoría asiática)	70%

- Número de licenciados en ingenierías con inglés en 2010: China > USA



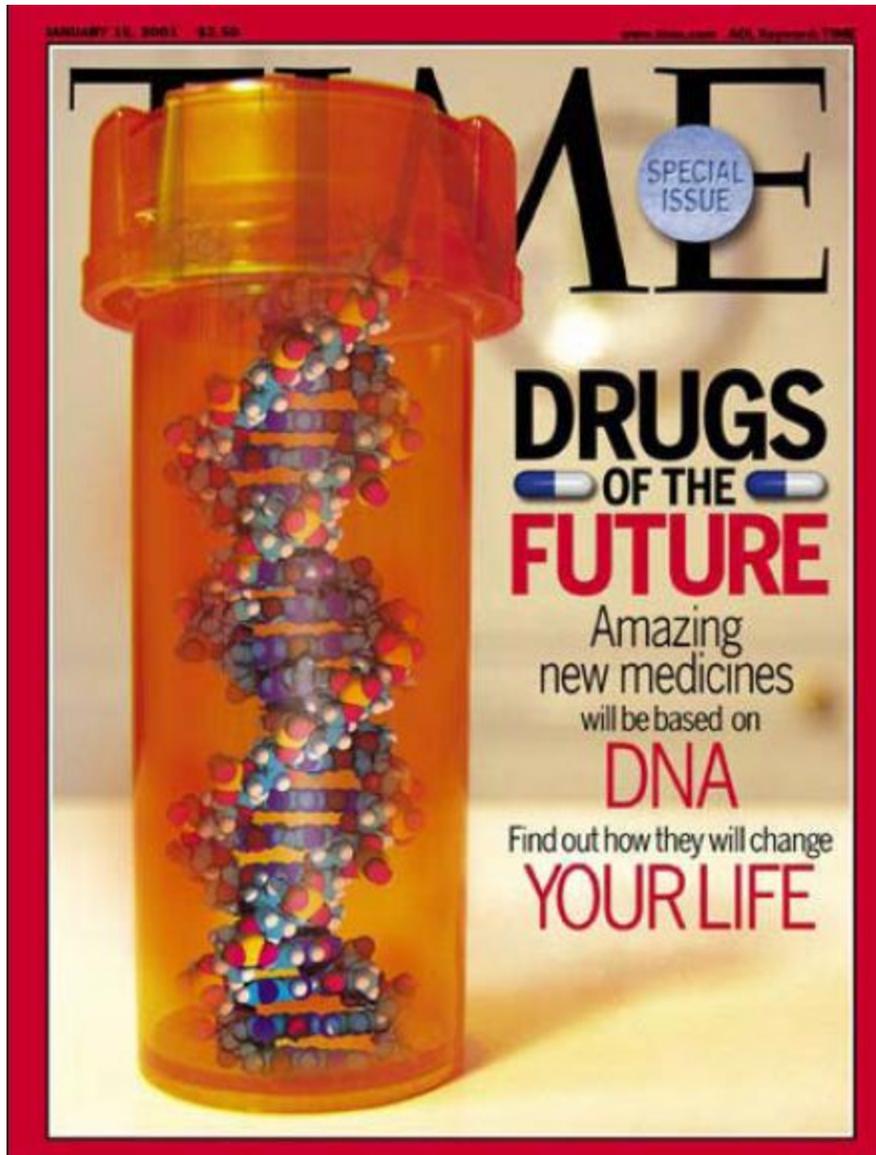
El siglo "bio": Ley de Carlson



MEDICINE GOES DIGITAL
How the Coming Information Tsunami in
Biotech will Transform Medicine

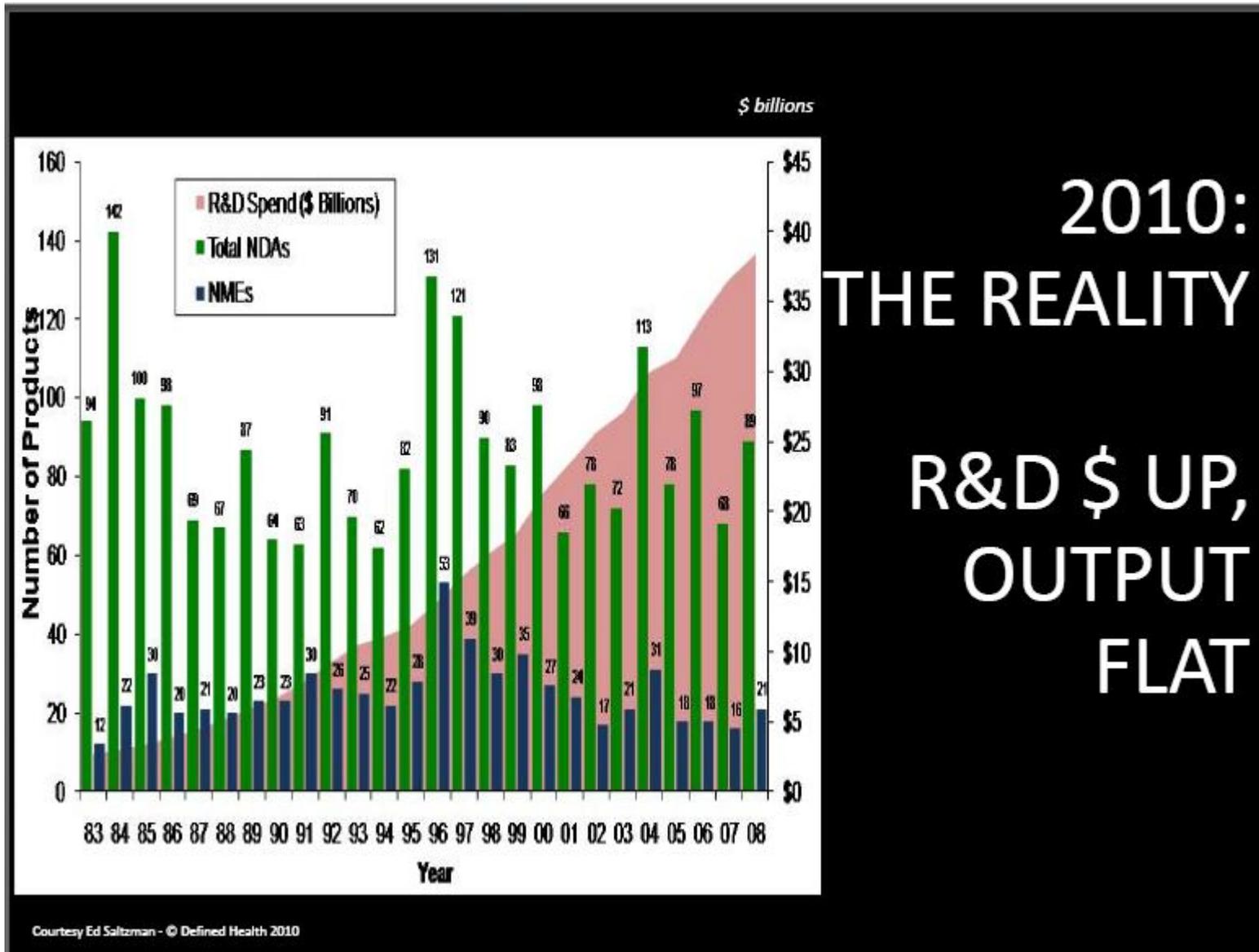
WHAT IS IT
TO BE HUMAN
IN A BIOTECH AGE?
GREGORY
STOCK

Gregory Stock *Barcelona* *June 2011*



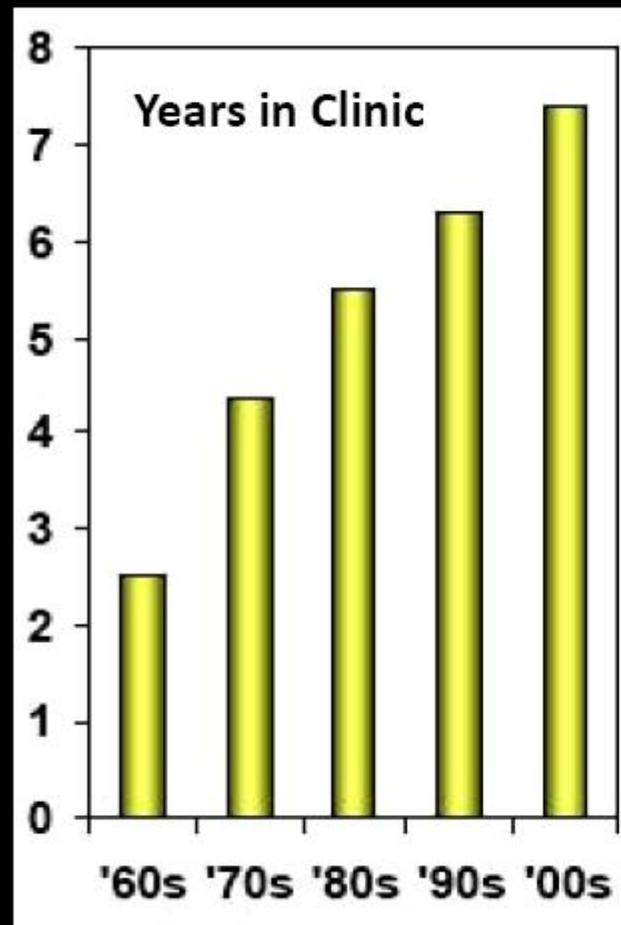
2000: THE VISION

Fuente: G.Stock , BDigital 2011, 1 Junio 2011



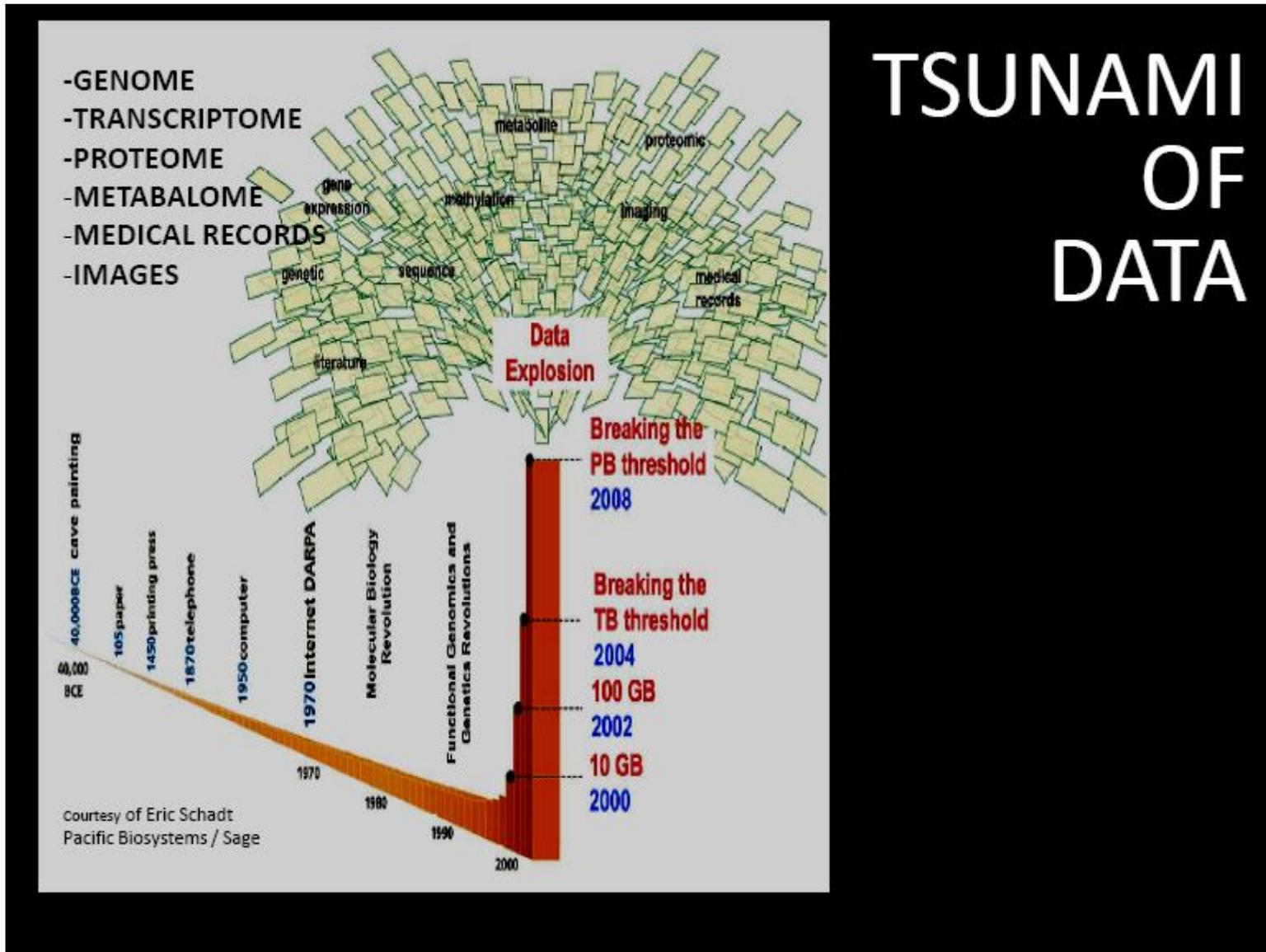
Fuente: G.Stock , BDigital 2011, 1 Junio 2011

LONGER CLINICAL PROCESS



Fuente: G.Stock , BDigital 2011, 1 Junio 2011

TSUNAMI OF DATA



Fuente: G.Stock , BDigital 2011, 1 Junio 2011

La crisis del E.coli

Industry braced for information deluge

Data management

The challenge is to make sense of the facts pouring in, says Clive Cookson

The coming data deluge – an exponentially increasing volume of computer information and analysis – presents a challenge and an opportunity for almost every sector of the economy and society.

But potential risks and rewards may be particularly great for healthcare and medical science, a field that has so far played a relatively small role in the development of information and communications technology.

ICT innovation has until now been driven mainly by a broad spectrum of commercial applications such as entertainment and business processing and by “big science” projects such as

sources, to launch a project called IT Future of Medicine (ITFoM). It is one of six shortlisted candidates, from which two will be chosen next year as flagship projects under the EU Future and Emerging Technologies programme.

The ultimate aim of ITFoM is to enable doctors to give their patients the power to have their DNA analysed at each stage of disease management – diagnosis, treatment and follow-up – and to integrate this information with a host of data generated by other medical technologies such as clinical imaging.

Of all diseases, cancer will be the project's biggest challenge, says Prof Lehrach. “The system will need to deal with 12m new cancer cases a year. That is about one genome per second.”

Bear in mind that a whole human genome, which new sequencing technologies will soon be capable of reading within a few hours at a

ment director at Washington University's Genome Institute, pointed out in a recent paper titled *The \$1,000 Genome, the \$100,000 Analysis?* In the *Journal of Genome Medicine*.

Last month's deadly outbreak of E. coli food poisoning in Germany illustrates the growing gap between fast genome sequencing and slow subsequent analysis.

Within three days of it becoming clear there was a serious public health emergency, researchers had obtained the full DNA sequence of the O104 bacterial strain responsible, analysing samples from patients with Ion Torrent sequencers from Life Technologies.

While the cost of DNA sequencing is plunging, follow-up analysis is not keeping pace



E. coli: genome of new strain was sequenced rapidly Getty

For the individual scientist faced with a data deluge, a growing number of bioinformatics companies – such as Spain's Integromics and Sweden's Qiucore – are developing software to help analyse and visualise data.

“Researchers have begun to use powerful software engines that enable them to visualise their data as full-colour 3D images that can be easily manipulated on a computer screen,” says Carl-Johan Ivarsson, chief executive of Qiucore.

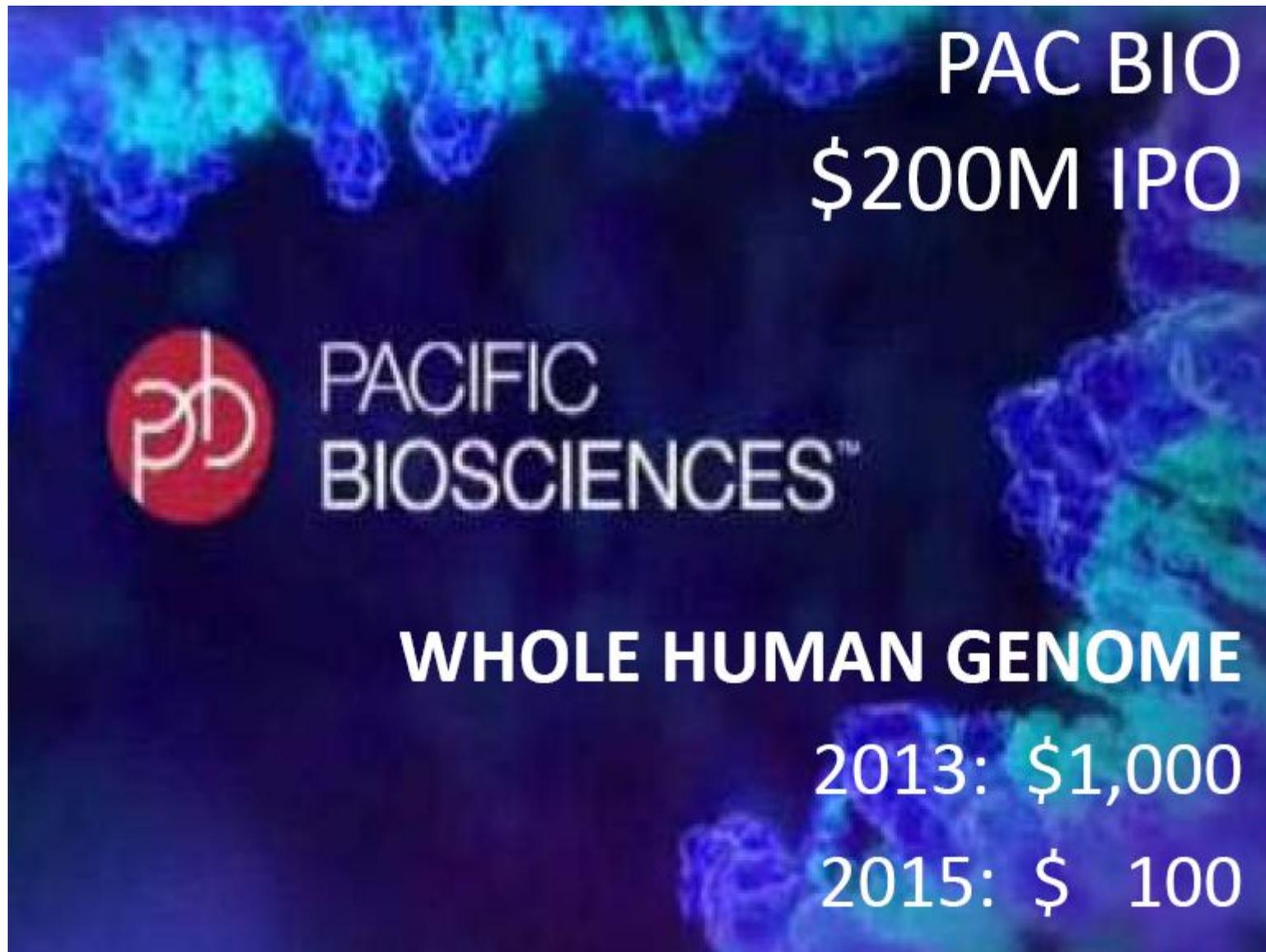
“With this approach, not only can scientists identify hidden structures and patterns more easily, but they can also identify any interesting and/or significant results by themselves, with-

bursement,” says Dr Yadi. “New business and reimbursement models which recognise the importance of biomarkers and other effectiveness measures will be at the centre of whether new technologies and drugs achieve the market access required by their manufacturers,” he adds.

His colleague Jasveen Chugh, PA life sciences expert, also maintains that the healthcare industry needs more fresh data – and the challenge, she says, is where to find them.

“The rise of social media may offer an answer,” Dr Chugh believes. “Patients all over the world are using websites to learn about new medication, treatment

Fuente: FT 27 junio 11



PAC BIO
\$200M IPO



PACIFIC
BIOSCIENCES™

WHOLE HUMAN GENOME

2013: \$1,000
2015: \$ 100

The graphic features a dark blue background with glowing, colorful DNA-like structures. The text is in white, with the company name and IPO amount at the top, the logo and name in the middle, and the genome cost reduction at the bottom.

Fuente: G.Stock , BDigital 2011, 1 Junio 2011

Sector farmacéutico USA 2009

	Announcement Day	Who	Activity	Target	Activity	Bid amount (\$ Billion)
1	January, 26	Pfizer	Drug Manufacturer	Wyeth	Drug Manufacturer	68
2	February, 9	Lundbeck	Drug Manufacturer	Ovation Pharmaceuticals Inc.	Drug Manufacturer	0.9
3	March, 9	Merck	Drug Manufacturer	Schering-Plough	Drug Manufacturer	41
4	March, 26	Roche	Drug Manufacturer	<u>Genentech</u>	Drug Manufacturer	43
5	April, 9	Sanofi-Aventis	Drug Manufacturer	Medley	Drug Manufacturer	0.66
6	May, 22	J&J	Drug Manufacturer	Cougar	Drug Manufacturer	0.894
7	July, 23	Bristol-Myers Squibb	Drug Manufacturer	Medarex	Drug Manufacturer	2.1
8	July, 30	Sanofi-Aventis	Drug Manufacturer	Merial	Drug Manufacturer	4
9	August, 24	Warner Chilcott	Drug Manufacturer	P&G	Drug Manufacturer	3
10	September, 28	Abbott	Drug Manufacturer	Solvay	Drug Manufacturer	6.6

Cierre de centros propios...



Pfizer to close UK R&D site

Published on 01/02/11 at 02:52pm



Viagra was discovered at the site in Sandwich, Kent

Pfizer has announced that it is to close its UK research site at Sandwich in Kent, with the loss of around 2,400 jobs.

...y la expansión de su red externa

JUNE 13, 2011 | VOLUME 89, NUMBER 24 | P. 8

Pfizer Expands R&D Network

Partnership: Eight Boston research institutions will form a third regional hub

[Rick Mullin](#)



Pfizer executive Sally Susman announces the new research hub at a press conference with Boston Mayor Thomas M. Menino (left) and Massachusetts Gov. Deval Patrick.

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- Email the editor
- Share...

Related Stories

- [Pfizer Reveals More R&D Cuts](#)
- [Pfizer Launches Academic Network](#)
- [Pfizer Adds NYC To Academic Network](#)

Topics Covered

[industry-academic alliances](#), [Pfizer](#), [CTI](#)

Latest News

July 4, 2011

[Pfizer Rethinks Plan For U.K. Site](#)
Pharmaceuticals: Firm keeps some U.K. R&D staff while advancing plans for research park.

[BIO Goes To Washington](#)
Biopharmaceuticals: Annual conference focuses on need for regulatory and policy reform.

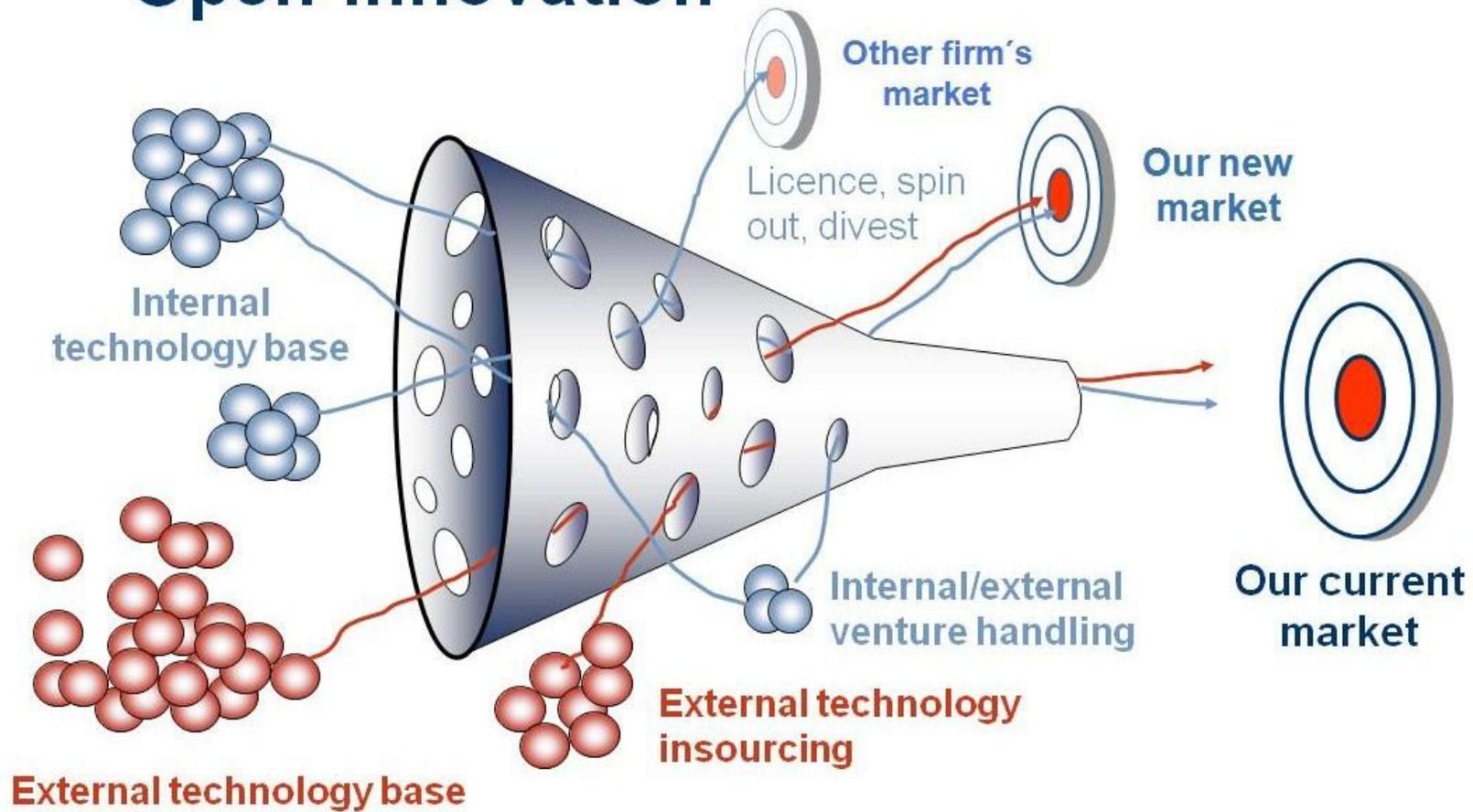
[Manufacturing Rebirth](#)

Open Innovation

- Ampliar el abanico de opciones y variabilizar los costes con recursos externos
 - Sector público
 - Sector privado
- Contemplar diferentes formatos
 - Licenciar
 - Externalizar
 - Alianzas
 - Joint Ventures
 - Fusiones y Adquisiciones



Open innovation

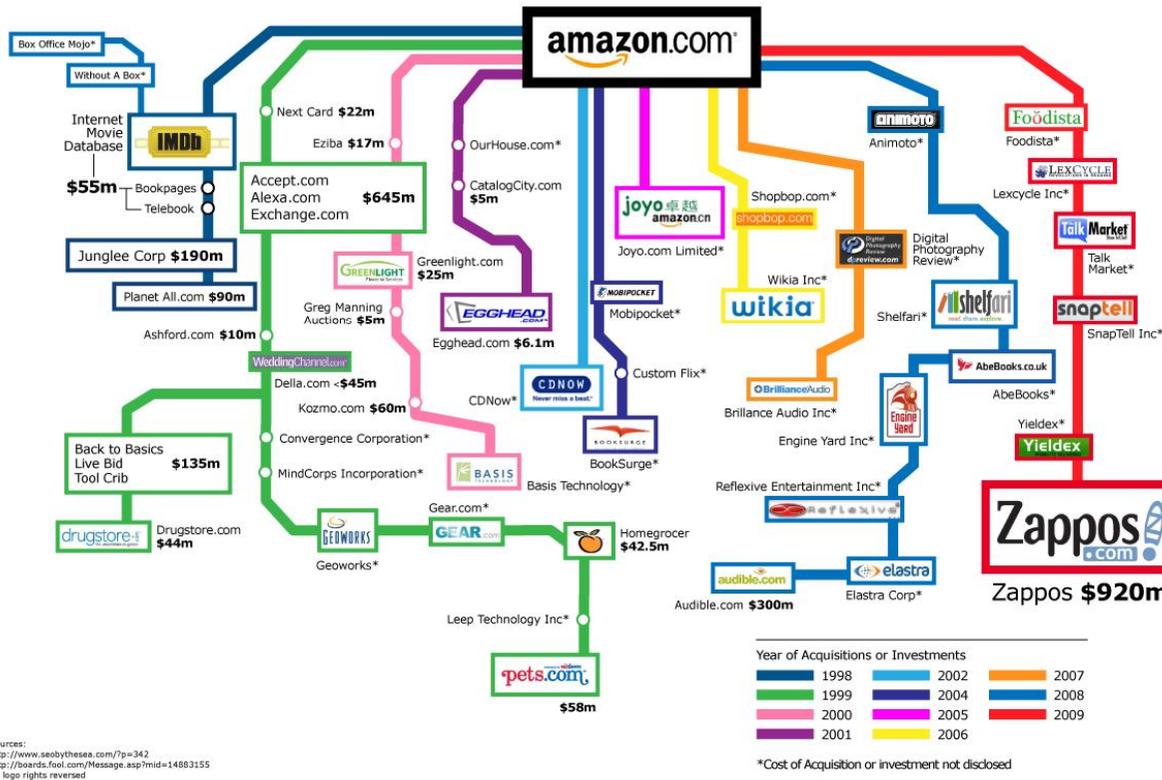


Amazon Julio 2009

www.meettheboss.com

Meet the Boss

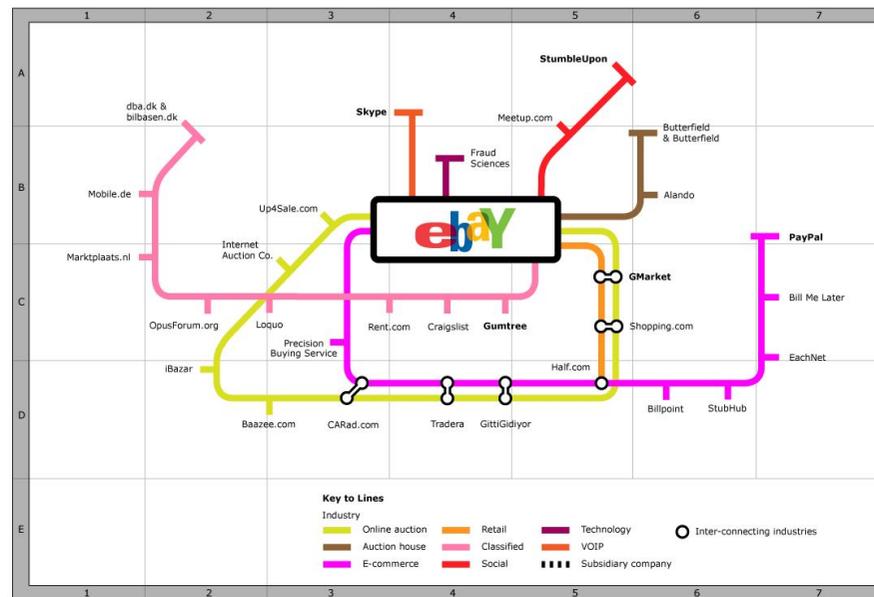
Amazon Acquisitions and Investments



Sources:
<http://www.seobythesea.com/?p=342>
<http://boards.fool.com/Message.asp?mid=14883155>
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eBay Sept 2009

Ebay Acquisitions and Investments



Acquisitions

Up4Sale.com	B3	*	Mobile.de	B2	\$149m	StubHub	D6	\$310m
Butterfield & Butterfield	B6	\$260m	Baazee.com	D3	\$50m	GittiGidiyor	D4	*
Billpoint	D6	*	Marktplaats.nl	C2	\$290m	StumbleUpon	A5	\$75m
Alando	B6	\$43m	Rent.com	C3	\$415m	Bill Me Later	C7	\$820m
Half.com	D6	\$313m	Loquo	C3	*	dba.dk & bilbasen.dk	A2	\$380m
Internet Auction Co.	C3	\$120m	Gumtree	C4	*	Fraud Scences	B4	\$196m
iBazar	D2	\$66m	Shopping.com	C5	\$620m	Gmarket	C5	\$1.2bn
PayPal	B7	\$1.5bn	OpusForum.org	C2	*			
CARad.com	D3	*	Skype	A4	\$2.6bn			
EachNet	C7	\$150m	Tradera	D4	\$48m			

Investments

Precision Buying Service	C3	*
Craigslist	C4	\$13.5m
Meetup.com	B5	\$2m

Year of Acquisitions or Investments

1998	1999	2000	2001
2002	2003	2004	2005
2006	2007	2008	2009

* Cost of Acquisition or investment not disclosed

Source: <http://en.wikipedia.org>
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eBay Buys Zong For \$240 Million In Cash To Boost PayPal's Mobile Payments Technology

14Comments



Leena Rao

17 hours ago

eBay has **acquired** mobile payments company **Zong** for \$240 million in cash. The transaction is expected to close in the third quarter of 2011.



Zong has been one of the pioneers in the mobile payments space, adding a compelling new way for consumers to pay for items online. Simply put, it lets you pay for things, particularly virtual goods online, via direct billing to your mobile phone. Consumers simply enter their mobile phone numbers in the payments process.

When a user wants to purchase an item, he can enter his cell phone number on a site, the site sends a text message to the phone, the user confirms the transaction with a short reply, and all the charges show up on his phone bill. Zong powers this entire transaction. The company has partnered with over 250 carriers worldwide to offer the technology to mobile phone users.



Agenda

1. ¿Qué empresas, y por qué, hacen I&D?
La competitividad, la innovación y la I&D
2. Época de grandes cambios
3. El mundo de las start-ups

El mundo de las startups

- Desarrollan innovaciones fuera del ámbito de actuación habitual de las empresas establecidas
 - Spinoffs de centros académicos
 - Spinoffs de empresas
 - Startups de nuevo cuño
- Florecen mejor cuando hay una masa crítica
 - Emprendedores formación, actitud
 - Infraestructura información, proveedores
 - Financiación VCs, BAs (+ sector público)
 - Centros académicos ideas, personal, proyectos
 - Clusters experiencia, necesidades
- De masas críticas a “mafias”

Cómo emprender & no morir en el empeño

http://www.anella.cat/web/portal/experiencias/-/custom_publisher/yB90/27400122/Com-muntar-una-start-up-i-no-morir-en-l-intent

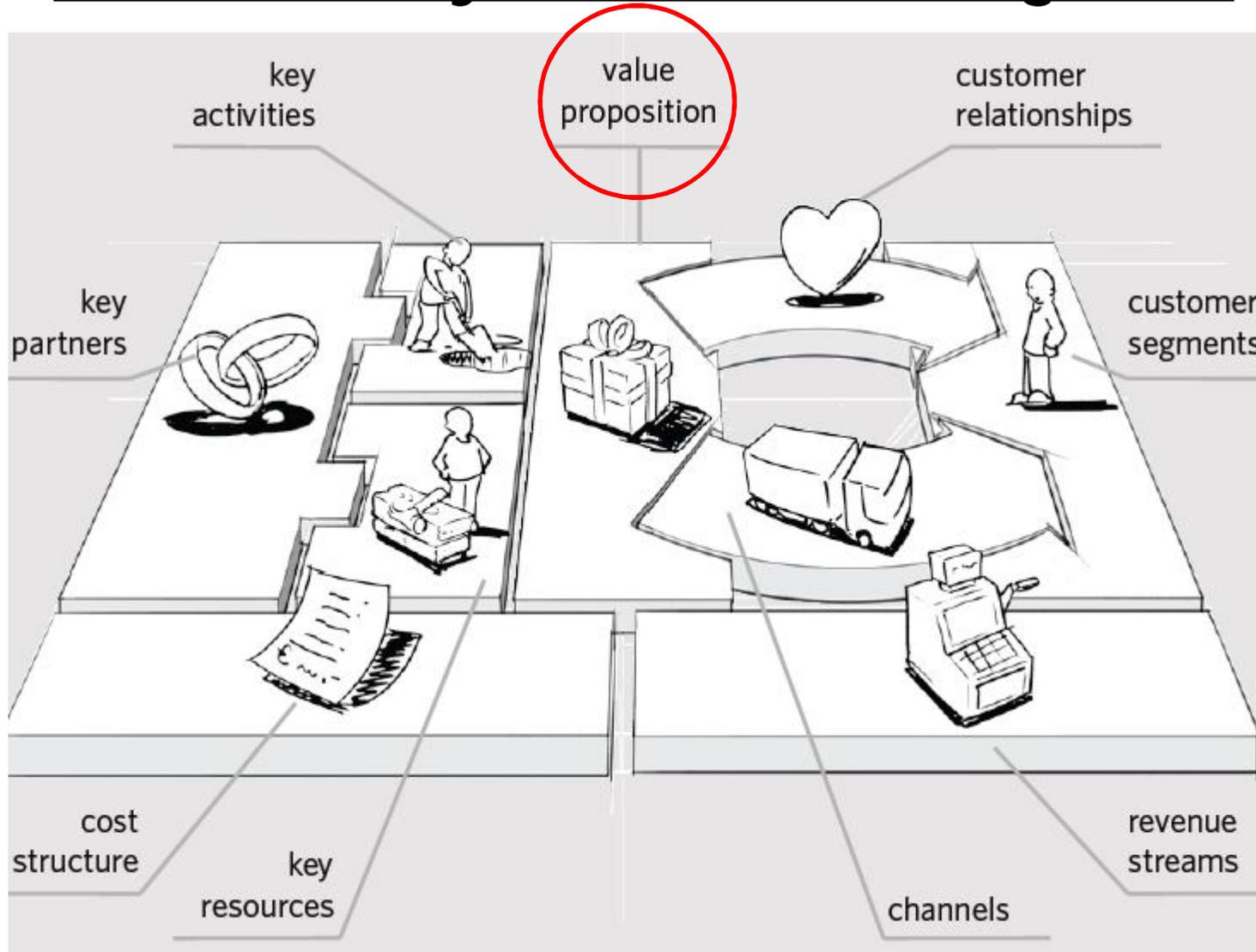


Steve Blank: serial entrepreneur, now at U.Stanford & UC Berkeley Haas
Bizbarcelona 2011, 15 Junio 2011

Conceptos útiles

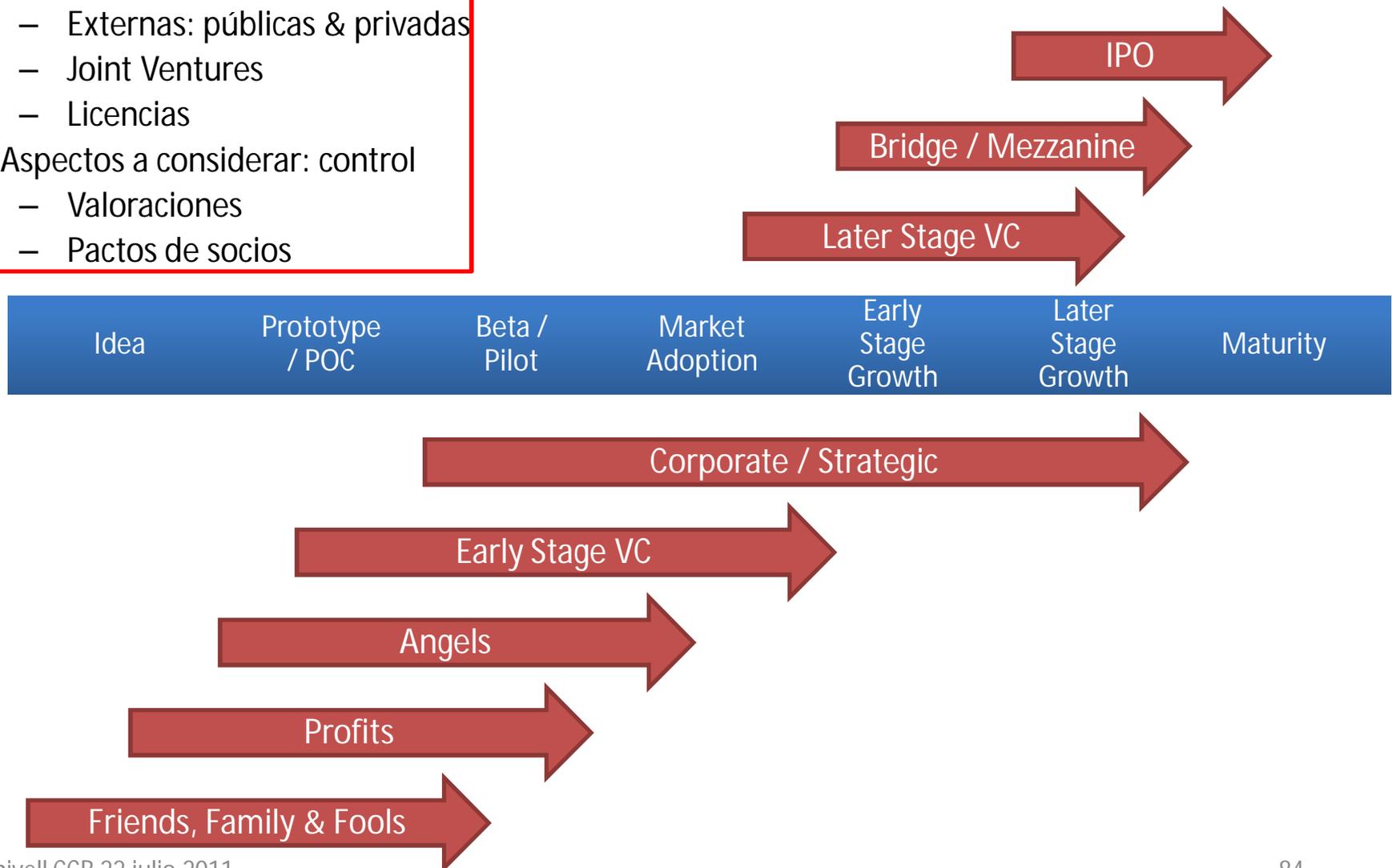
- Una startup es una organización provisional que busca un modelo de negocio repetible y escalable
- Modelo de negocio
 - “Business Model Canvas”
 - Proceso iterativo de chequeo
 - Identificación del “minimum viable feature set”

Entender y validar el negocio



Financiación

- Fuentes:
 - Externas: públicas & privadas
 - Joint Ventures
 - Licencias
- Aspectos a considerar: control
 - Valoraciones
 - Pactos de socios



Los inversores...

- ...invierten en (aprox <1%) proyectos en base a:
 - Equipos humanos
 - Mercados de tamaño importante
 - Propuestas disruptivas: tecnologías, productos o modelos de negocio
 - Diferenciaciones que se puedan mantener en el tiempo
- ... calculando que tendrán éxito:
 - 1 de 10 startups en fases iniciales
 - 4 de 10 startups consolidadas en fases posteriores

Cómo presentar

Preparation

- 10/20/30 = Slides/Minutes/Font
- 3 most important things for VC?
- Why did VC give us a meeting?
- Special questions, issues, landmines?
- VC organizational and people background?
- VC's current efforts?
- Pitch 10 times to friendlies & refine
- Qualified introduction to the VC
- Goal of 1st meeting -> To get 2nd meeting

Fuente: D.Cahill, PlugandPlayTechCenter

VCanivell CCB 22 julio 2011

Elements

1. Title
 - Elevator-pitch
2. Problem
 - Real & Urgent
3. Solution
 - Clear value-prop & ROI
4. Business Model
 - Validation
5. Underlying Magic
 - Sustainable, Measurable, Disruptive
6. Sales & Marketing
 - Bottom-up TAM
 - Strong Strategy, Sound Tactics, Realistic Plan
7. Competition
 - Defensible, Asymmetric
8. Finance
 - 5 year Bottom-up Forecast, Key-Metrics
9. Team
 - Track-record, Cohesive, Differential Insight
10. Status
 - Use-of-Funds, Traction, Invest Now!

Los Business Angels

ELPAÍS.COM | Versión para imprimir

Imprimir

REPORTAJE: Empresas & sectores

Los 'business angels' dan alas a la Red

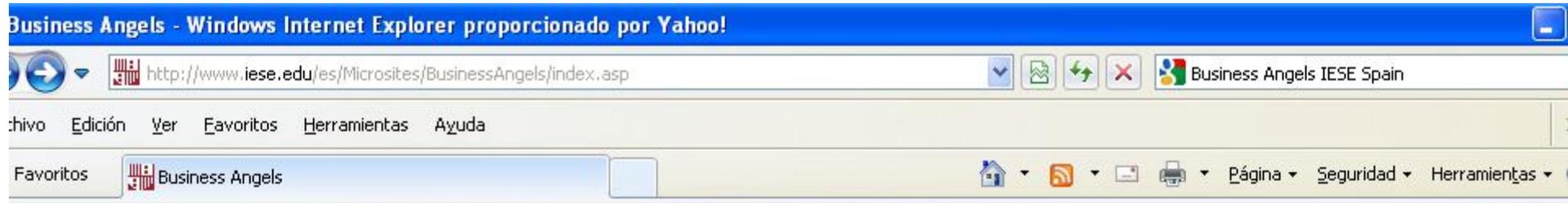
La crisis multiplica inversiones en un sector que solo financia proyectos en Internet

MIGUEL ÁNGEL GARCÍA VEGA 21/11/2010

Los *business angels* extienden sus alas, pues el suyo es un negocio que aprovecha los vientos económicos adversos para crecer. Hay ganas de invertir, hay dinero, tal vez no demasiado, pero hay, y, sobre todo, hay ideas que financiar. Y algunas muy buenas. Eso sí, Internet impone su peculiar dictadura. "El inversor busca proyectos en la Red, que sean fácilmente replicables, es decir, que se puedan implantar en otros países, y que exijan una inversión inicial limitada y que, a la vez, generen ingresos con rapidez", resume Ángel San Segundo, director de alumnos de la Escuela de Organización Industrial (EOI). Y precisa: "La gestión de la caja es vital".

Ver: www.esban.com
www.wbaa.biz





Red de
Inversores Privados
y *Family Offices*

[English](#) - [Contactar](#)

La Red

Inversores

Emprendedores

Agenda

¿Necesitas ayuda?
Nuestros proyectos
¿Cómo participar?
Presenta tu Business Plan

Campus IESE
Barcelona/ IESE
Madrid
4 octubre, 2010
16 noviembre, 2010
13 diciembre, 2010
24 enero, 2011
14 abril, 2011
9 mayo, 2011
6 junio, 2011
11 julio, 2011

Novedades

▷ **RESERVA EL 11 DE JULIO EN TU AGENDA**

55º Foro de la Red de Inversores Privados y *Family Offices* del IESE

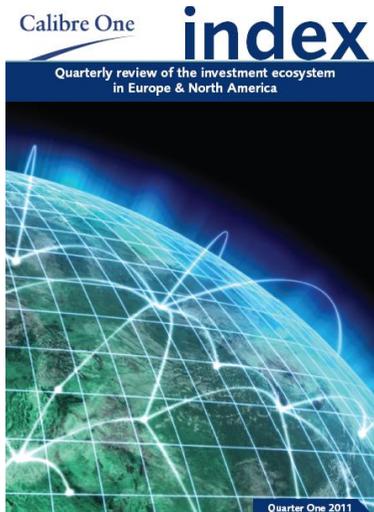
▷ **El Día del Emprendedor y Hit Barcelona se fusionan en Bizbarcelona Salón Emprendedor**

Bizbarcelona Saló Emprendedor, 15 y 16 de Junio del 2011

Únete a la red ▶▶

Presenta tu proyecto ▶▶

Inversiones de VC



VCanivell CCB 22 julio 2011

Investment Analysis

Value of Technology Investments – Analysis

Total Capital Invested (\$US Millions)	2010					2011
	Q1	Q2	Q3	Q4	Q1	
North America	4,810	4,137	2,890	4,158	5,573	
Europe	832	740	847	802	890	
UK	175	262	285	165	115	
France	100	125	147	106	23	
DACH	36	118	24	55	50	
BENELUX	106	48	45	31	113	
N Europe	66	117	104	18	83	
Ireland	30	21	7	13	12	
S Europe	26	13	34	150	146	
E Europe	26	-	133	45	-	
Israel	36	35	67	60	30	

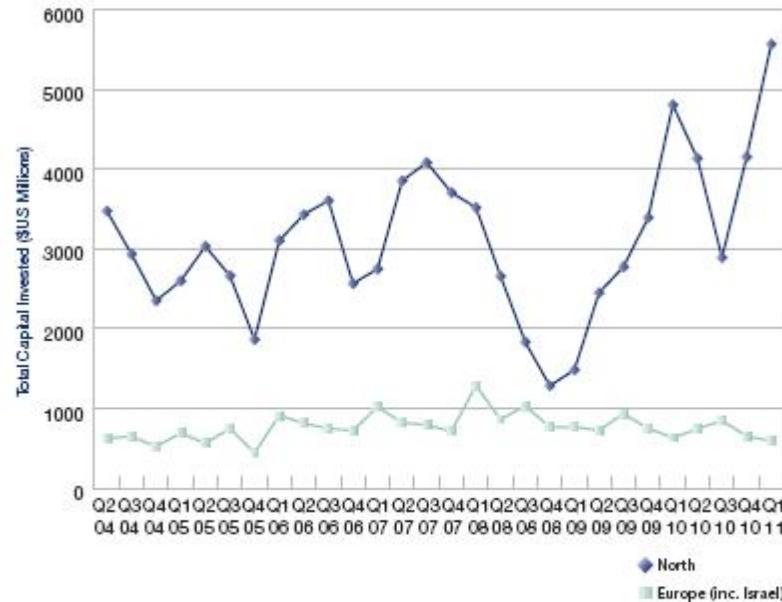
Richard Brennan
Partner – Europe



The US has surged ahead with c. 50% more capital invested than last quarter. Europe meanwhile is down 10% with particularly poor quarters in the UK and France, down c. 30% and 80% respectively.

History shows that Q1 is rarely a strong quarter in the Europe, where we seem to be unusually slow in 'coming out of the blocks' in the New Year. In the US conversely, the first quarter of the year is consistently the strongest quarter.

As is noted in the Foreword, the picture is distorted somewhat by the fact that some significant funding rounds have been closed by UK based companies such as Plastic Logic and Appense, moving to the US. The UK market remains tough from a fund-raising perspective – both for VCs and their companies.



Inversiones de Q1 en España

Calibre One

Ireland

Date	Company	Total (\$US)	Investors
14-Mar	Altobridge	12,000,000	Intel Capital, IFC
Total capital invested		12,000,000	Total number of investments for the quarter (including undisclosed investments) 1
Average investment		12,000,000	Total number of undisclosed investments 0

Southern Europe

Date	Company	Total (\$US)	Investors	Country
26-Jan	eToro	8,300,000	Spark Capital, Social Leverage, Cubit Investments, BRM Capital, Private investors	Cyprus
16-Feb	Fon	14,097,900	Atomico, Coral Group	Spain
7-Mar	Privala	124,061,520	General Atlantic, Highland Capital Partners, Index Ventures, Insight Venture Partners	Spain
14-Mar	Softco-Internet	Undisclosed	Centabria Capital	Spain
Total capital invested		146,459,420	Total number of investments for the quarter (including undisclosed investments) 4	
Average investment		48,819,807	Total number of undisclosed investments 1	

Las claves

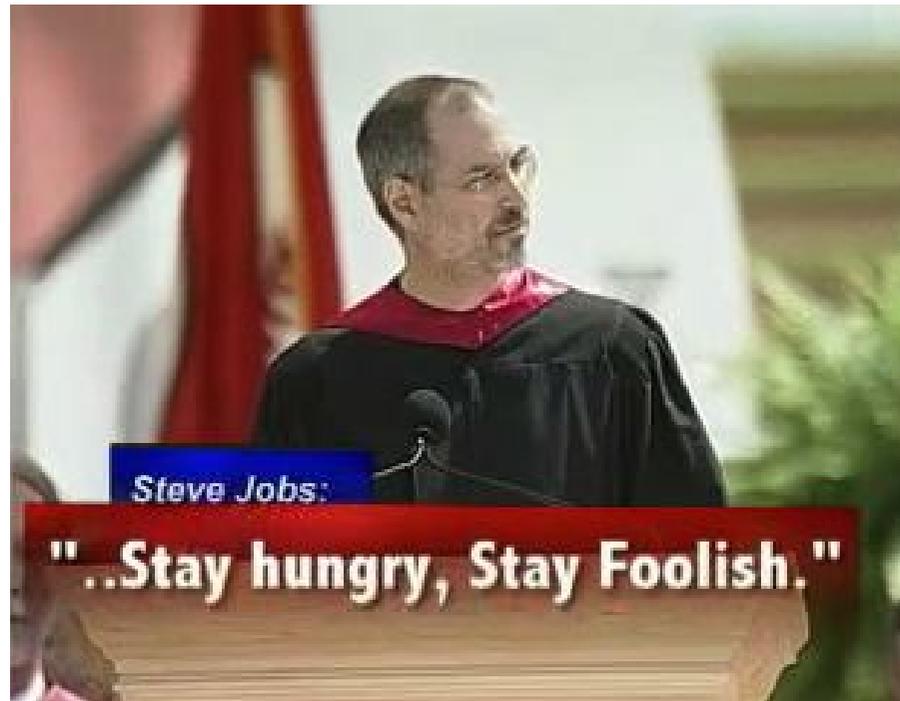
- El equipo
- La visión & la pasión
- La tesorería
- Aceptar las implicaciones de los cambios de estructura & roles en las diferentes fases de desarrollo
- Visualizar las salidas
 - Crecimiento independiente
 - M&A
 - IPO



¡Buena suerte!

- Las TIC son fundamentales para el desarrollo de todos los sectores empresariales
- Es crucial y gratificante conocer y vivir la innovación en:
 - Centros académicos de élite
 - Empresas en sectores de evolución rápida
 - Las ubicaciones que respiran la I&D y la emprendeduría
- Las startups seguirán multiplicándose como alternativas y/o proveedores de las empresas establecidas

Steve Jobs: University of California Commencement Speech 2005



<http://news.stanford.edu/news/2005/june15/videos/53.html>

¿Comentarios?



Gracias por vuestra atención