

Empresa i entorn econòmic

UNIVERSITAT POLITÈCNICA DE CATALUNYA
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Feb 2021

Part 1:

Economia?



Economia



“Why Not”
is a slogan for an
interesting life.

• Mason Cooley

Equació fonamental

(Victor Küppers)

<https://www.youtube.com/watch?v=nWeclwtN2ho>

$$V = (c+h) \times a$$

V = Valor d'una persona

c = Coneixements

h = Habilitats/experiència

a = Actitud (agraïment, il·lusions, passió)

Manual per ser un bon ministre d'economia



Programa de sessions

- . Conceptes econòmics bàsics
- . El perquè dels diners
- . Mercat o Estat . Impostos
- . Comptabilitat nacional
- . Introducció Clàssics-keynesians
- . Pensament Keynesià. Política fiscal
- . 7bis. Keynes tenia raó?
- . Pensament monetarista. Política monetària

TEMA 1. CONCEPTES ECONÒMICS BÀSICS

OBJECTIUS D'AQUESTA LLIÇÓ

- Què es l'economia?
- Què es la macroeconomia?

- Definir els conceptes i els objectius macroeconòmics



Què és l'economia?



Economia



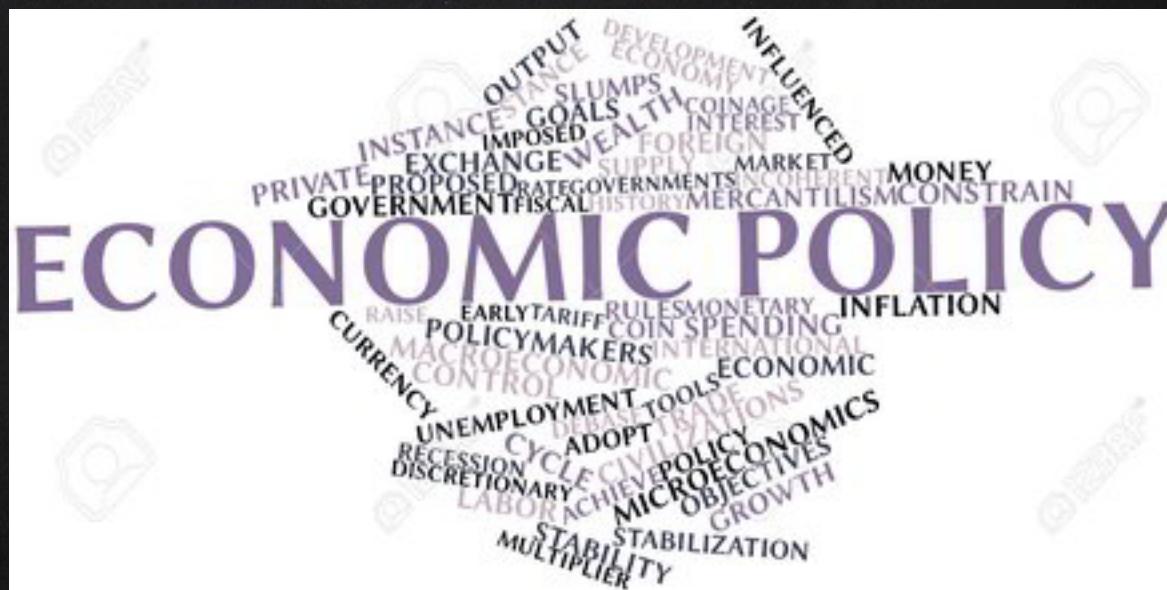
Com vivim?

Política Econòmica



Com hauriem de viure?

Objectius de Política Econòmica?



CRACK DE 1929

1929. Crack del sistema bancario y financiero (USA entre 1929 y 1933)

- El índice Dow Jones de la Bolsa de Nueva York cae de 381 puntos en 1929 a 41 puntos en 1932.
- ↓ Valor de la producción real (descontada la inflación) en un 30%.
- ↑ Desempleo de un 25% (14 millones de parados).
- ↓ Precios en un 25%.
- ↓ Precios agrícolas en un 60%.
- ↓ Gastos en maquinaria y bienes de equipo en un 80%.
- 9.000 bancos se ven obligados a cerrar sus puertas.
- Quiebra de muchísimas empresas.
- El mundo vive aún hoy obsesionado por la Gran Depresión de los años 30 (recuérdense las crisis financieras de 1987 y 1997–98)



The future is
better than you
think

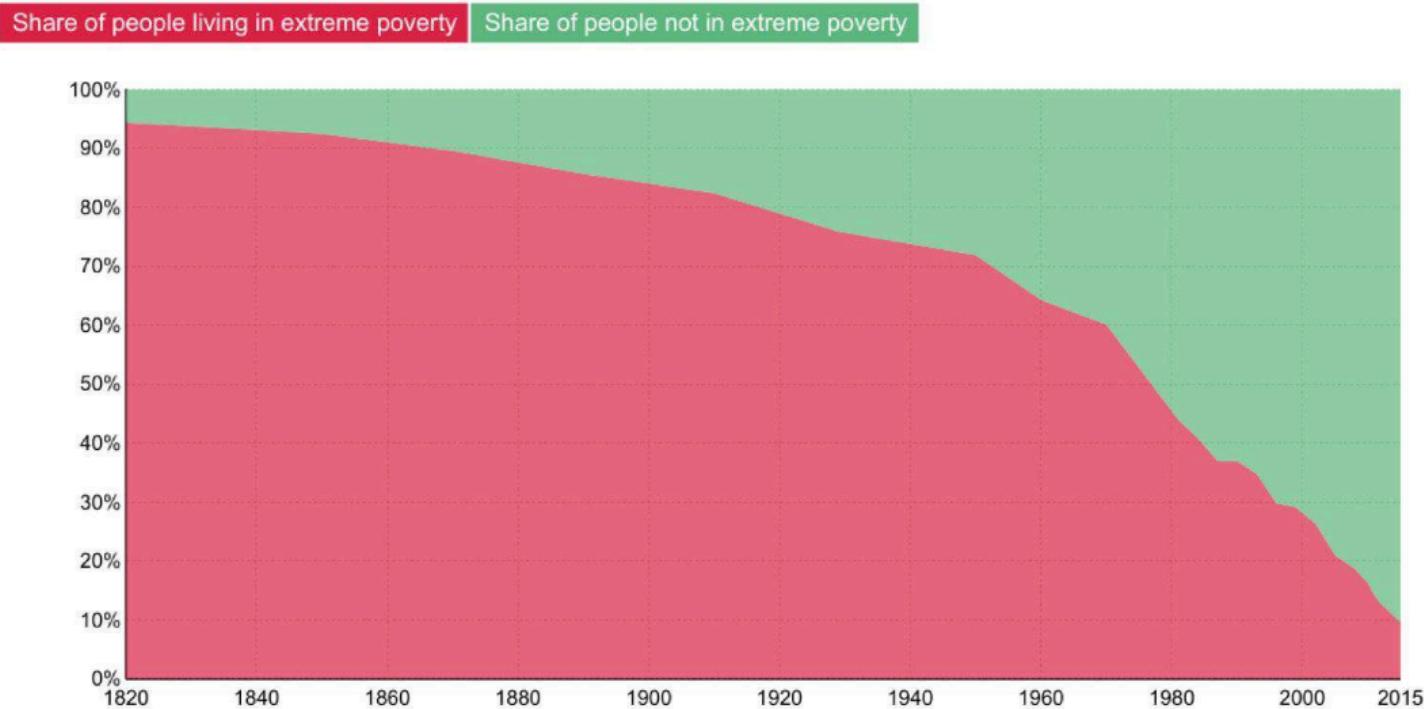


Peter Diamandis



Reducing Poverty

Share of world population living in extreme poverty, 1820-2015



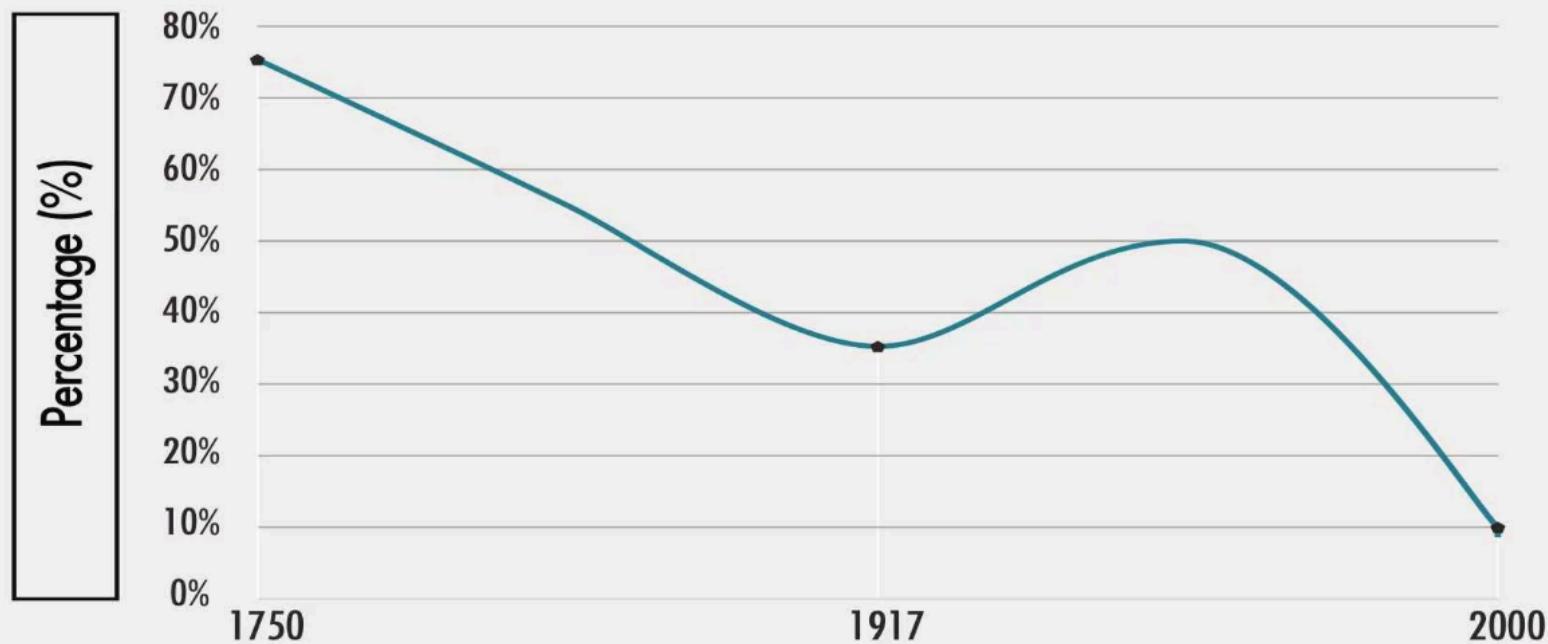
Data source: [World Poverty in absolute numbers \(Max Roser based on World Bank and Bourguignon and Morrisson \(2002\)\)](#)

OurWorldInData.org/a-history-of-global-living-conditions-in-5-charts/ • CC BY-SA



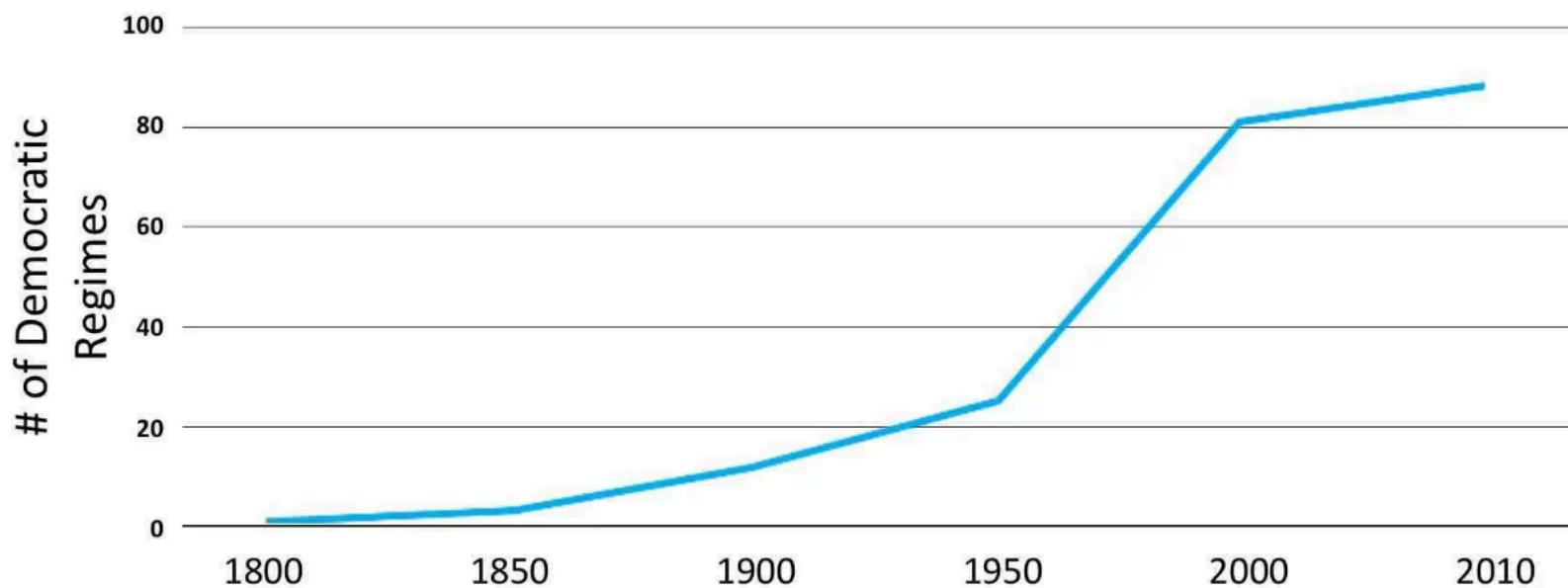
Increasing Happiness &
Increasing Equality

Percentage of Slaves or Serfs in the World

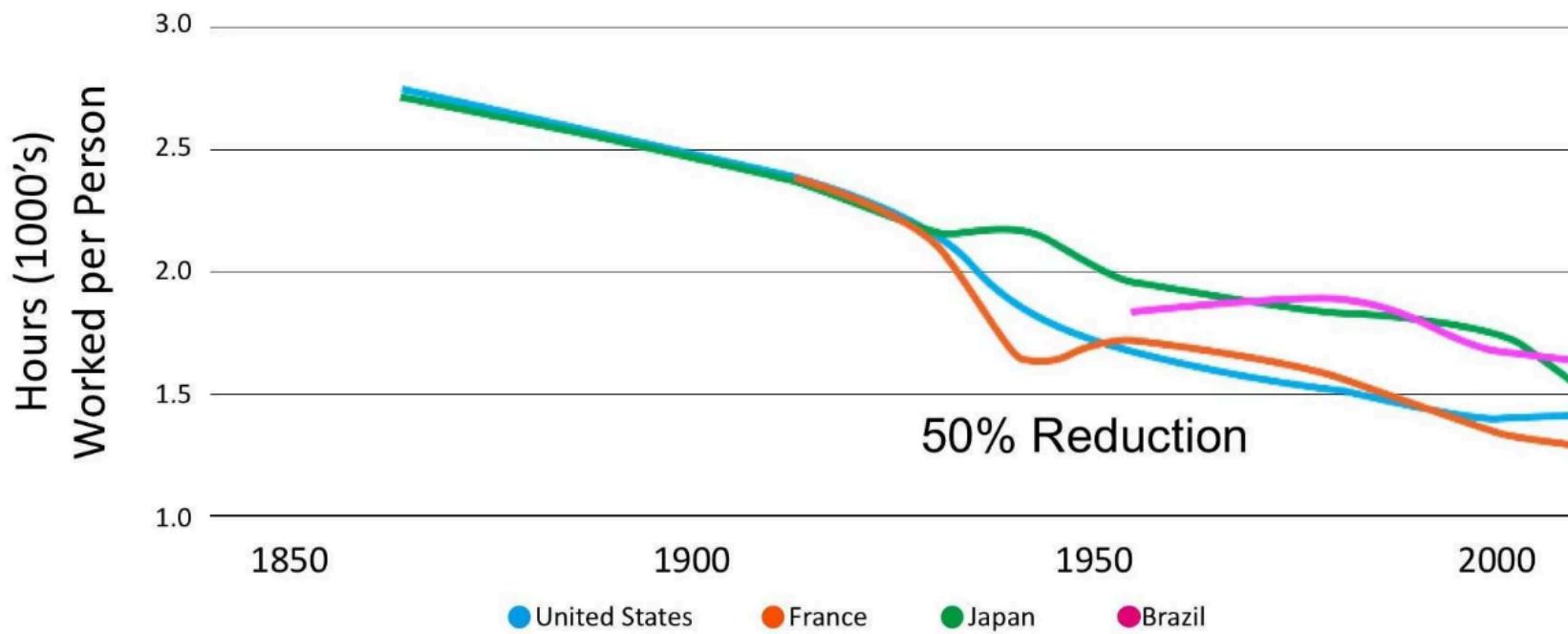


Source: Simon, pp. 171-177

Number of Democracies

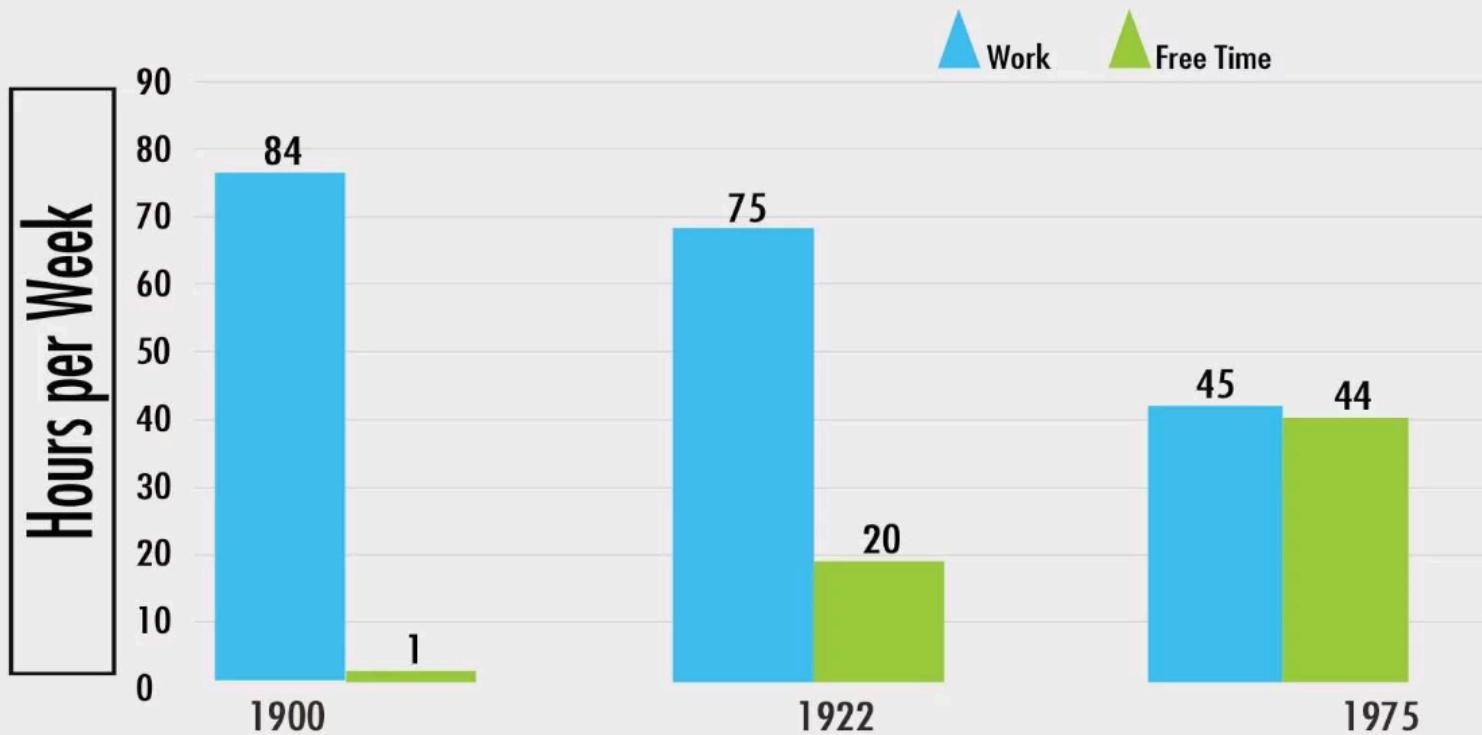


Annual Hours Worked per Person (1870-1978)



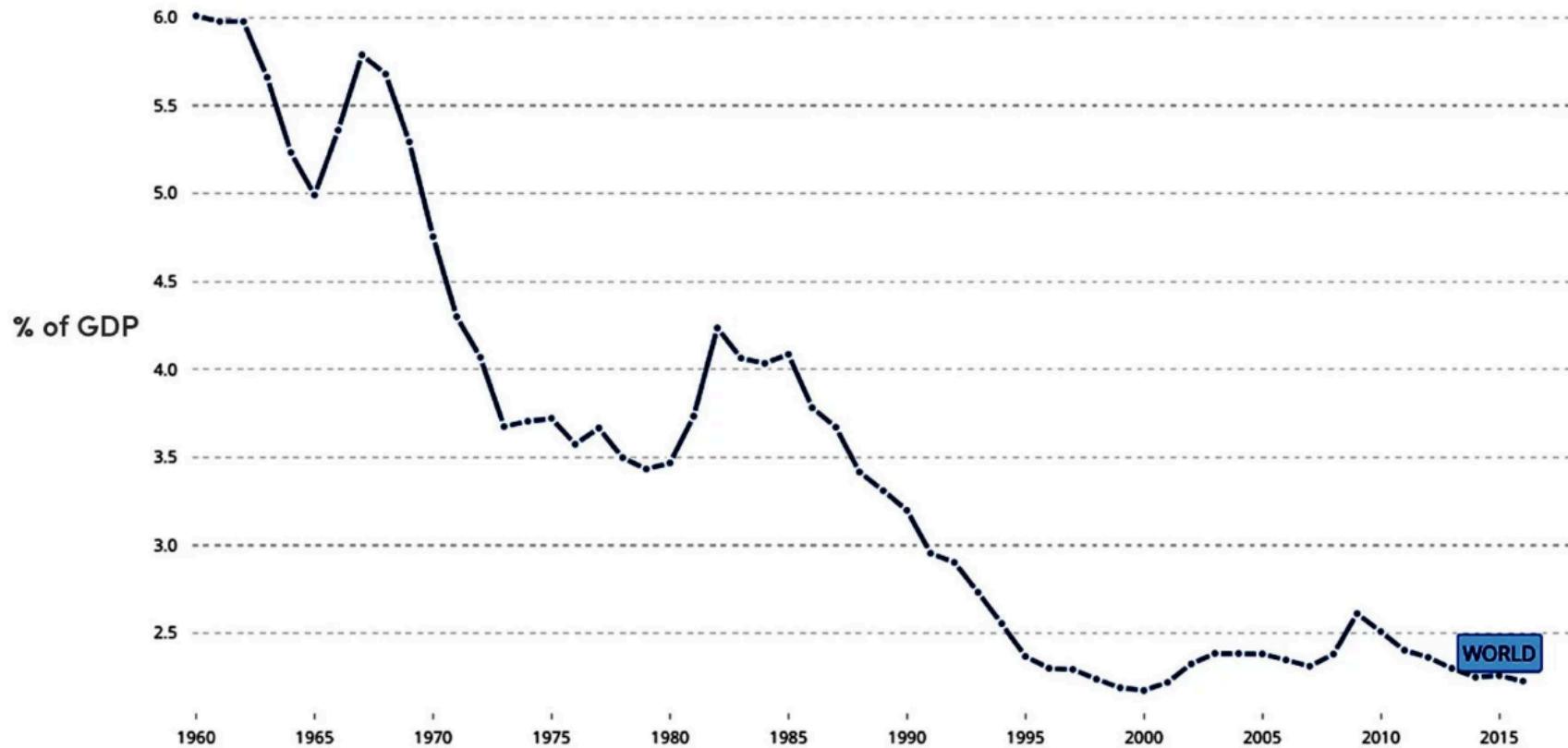
Source: Angus Maddison, The World Economy: A Millennial Perspective (Paris: OECD, 2001).

Homemakers' Use of Time



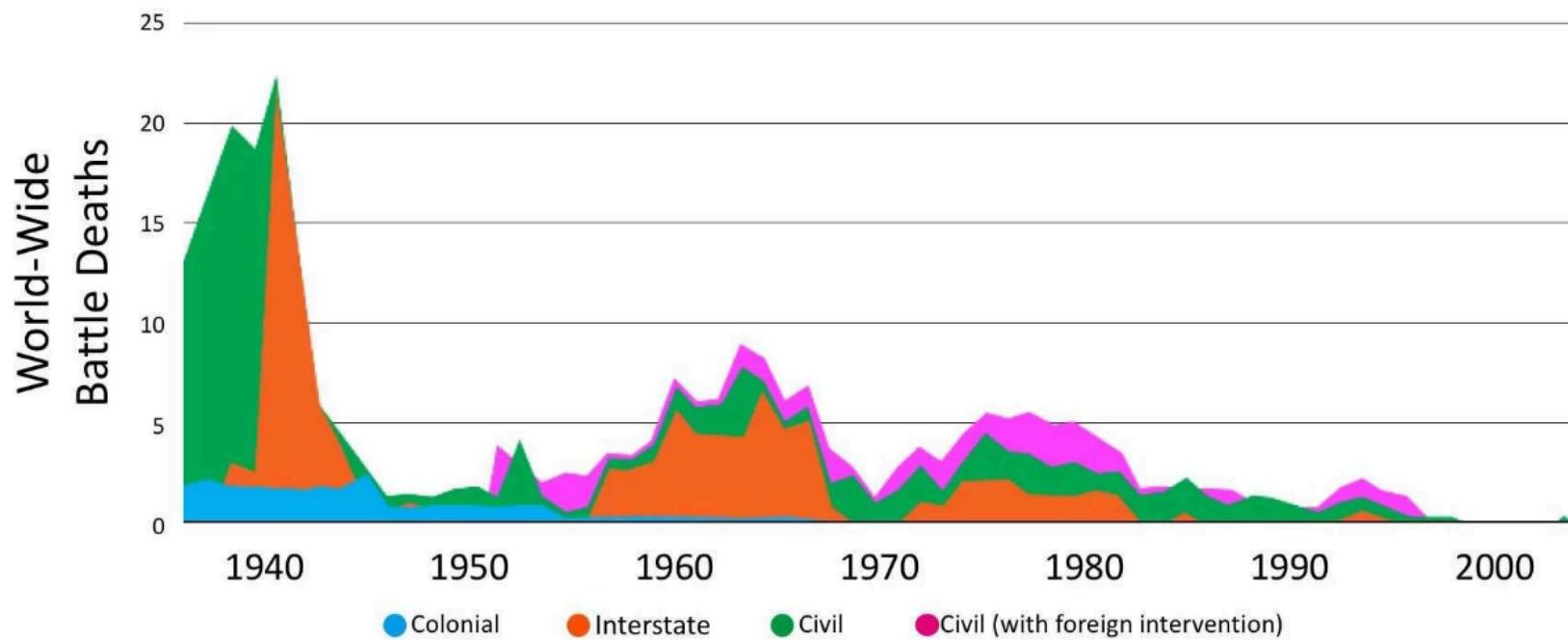
Source: Stanley Lebergott, *The Americans : An Economic Record*

Military Expenditure



Source: <https://data.worldbank.org>

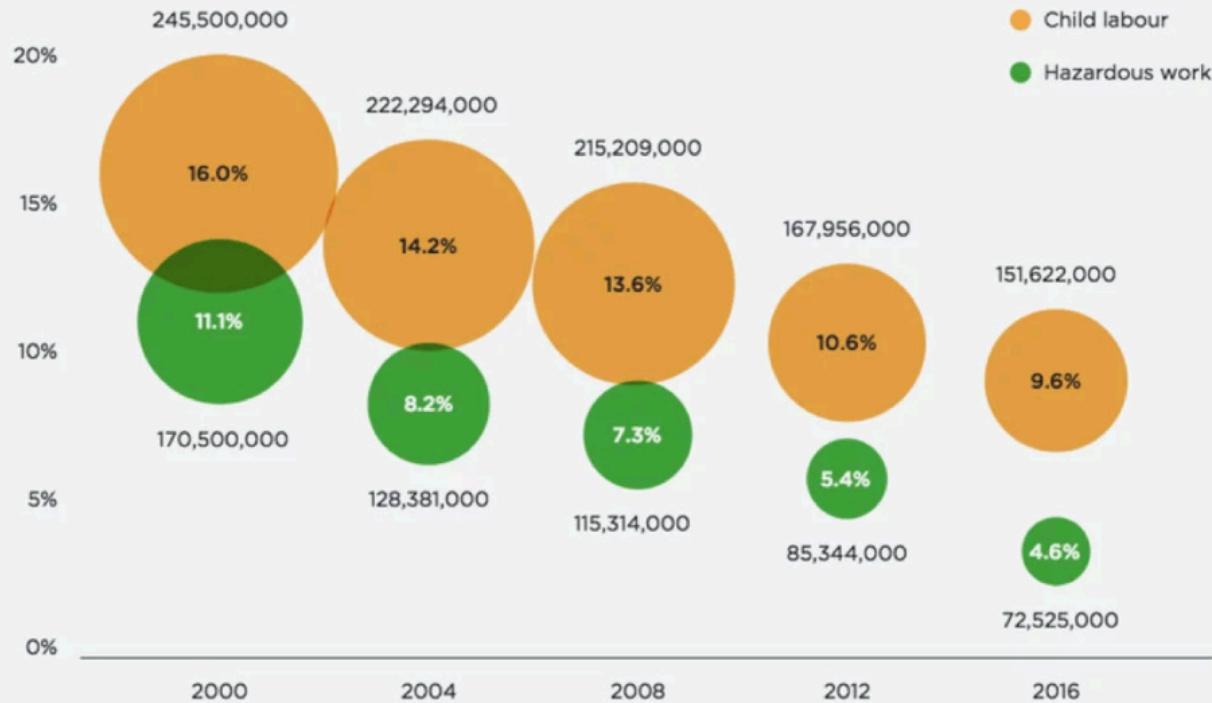
The Waning of War



Source: Human Security Report Project, The Peace Research Institute of Oslo

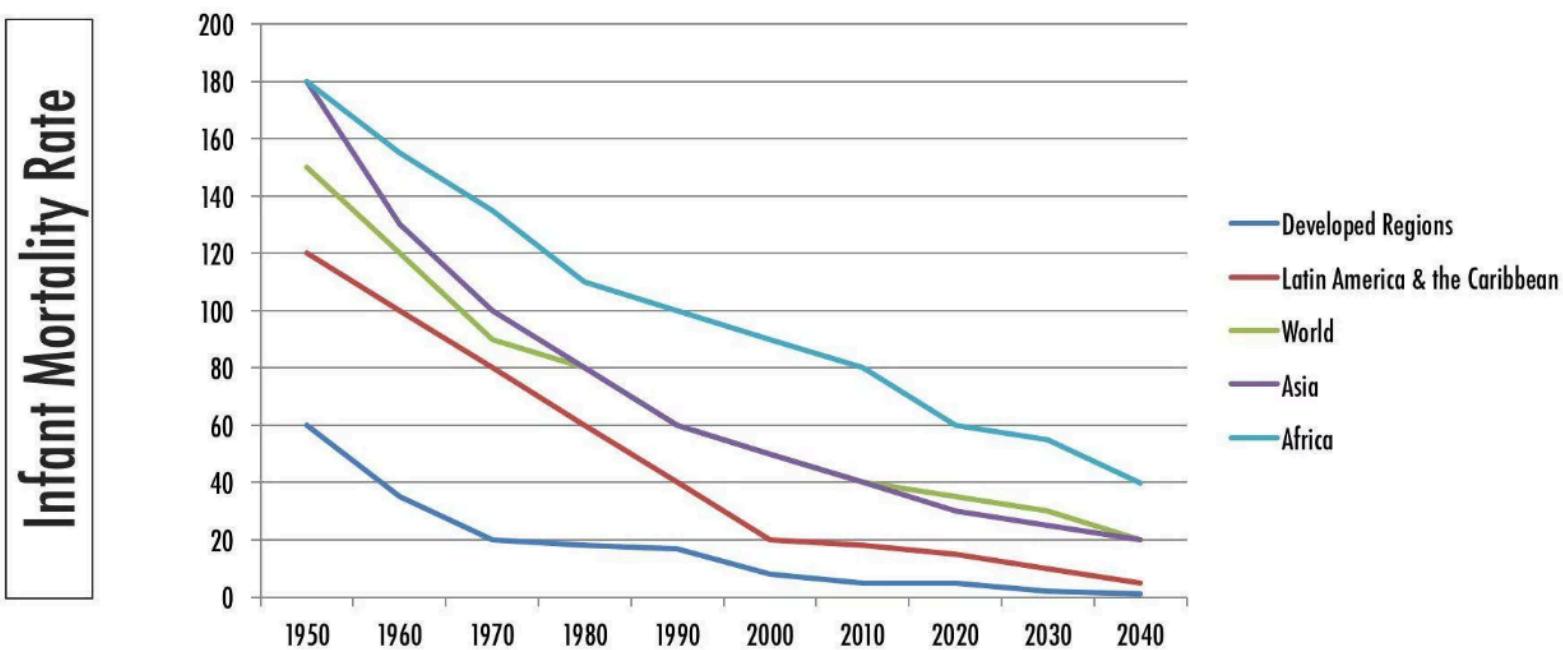
Children's involvement in child labour and hazardous work, 2000-16

Percentage and absolute number of children in child labour and hazardous work, 5-17 years age range,
2000 to 2016^(b)

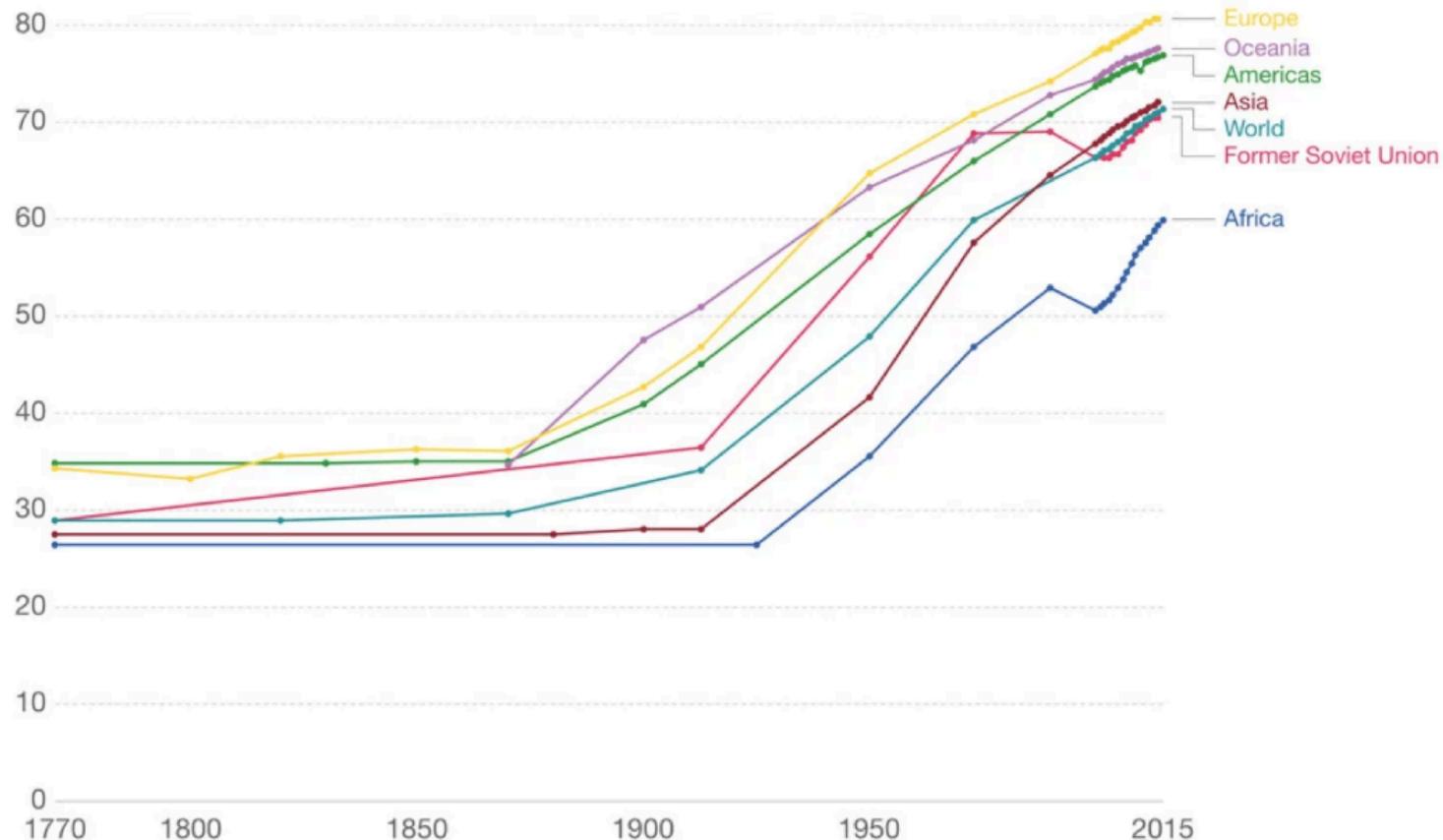


Note: (b) Bubbles are proportionate to the absolute number of children in child labour and hazardous work.

Decreasing Infant Mortality

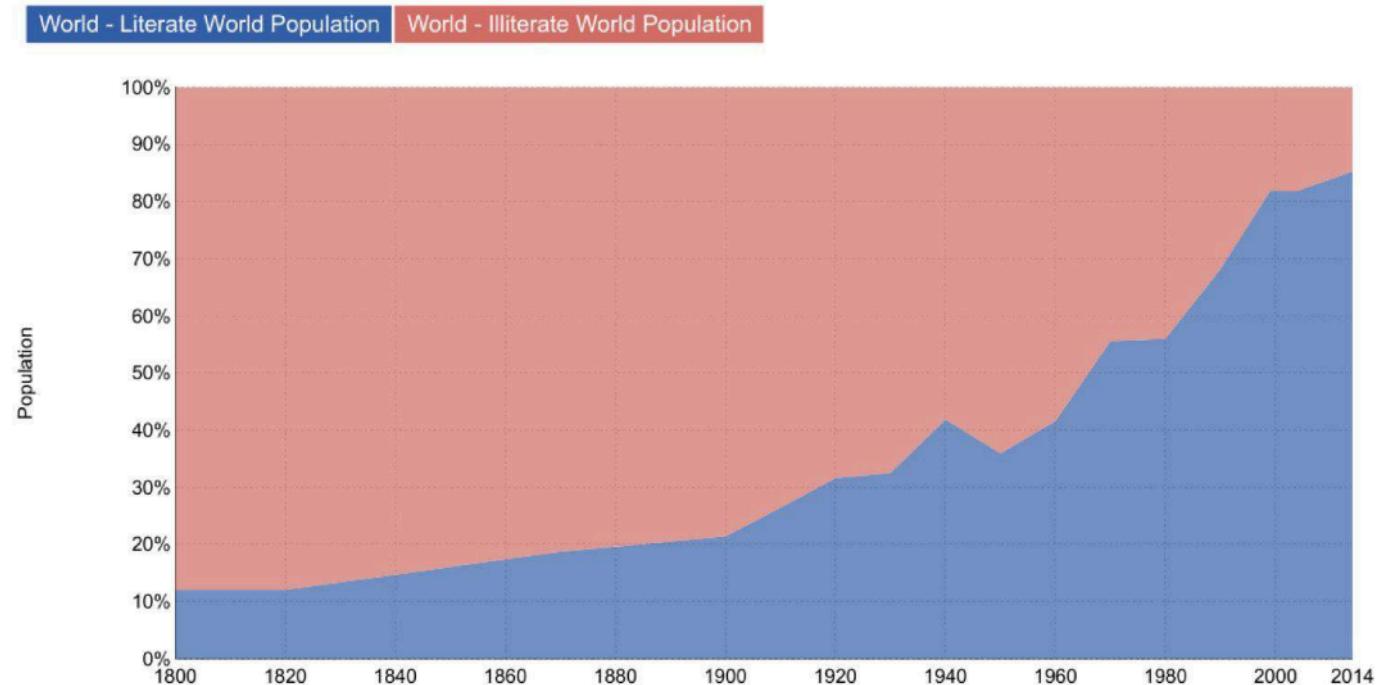


Life expectancy globally and by world regions since 1770



Source: Life expectancy – James Riley for data 1990 and earlier; WHO and World Bank for later data (by Max Roser)
OurWorldInData.org/life-expectancy/ • CC BY-SA

Literate and illiterate world population, 1800 to 2014



Data source: Literate World Population (Our World In Data based on OECD and UNESCO)

OurWorldInData.org/literacy/ • CC BY-SA

Dematerialization

>\$900,000 worth of applications in a smart phone today

Application	\$ (2011)	Original Device Name	Year*	MSRP	2011's \$
1. Video conferencing	<i>free</i>	Compression Labs VC	1982	\$250,000	\$586,904
2. GPS	<i>free</i>	TI NAVASTAR	1982	\$119,900	\$279,366
3. Digital voice recorder	<i>free</i>	SONY PCM	1978	\$2,500	\$8,687
4. Digital watch	<i>free</i>	Seiko 35SQ Astron	1969	\$1,250	\$7,716
5. 5 Mpixel camera	<i>free</i>	Canon RC-701	1986	\$3,000	\$6,201
6. Medical library	<i>free</i>	e.g. CONSULTANT	1987	Up to \$2,000	\$3,988
7. Video player	<i>free</i>	Toshiba V-8000	1981	\$1,245	\$3,103
8. Video camera	<i>free</i>	RCA CC010	1981	\$1,050	\$2,617
9. Music player	<i>free</i>	Sony CDP-101 CD player	1982	\$900	\$2,113
10. Encyclopedia	<i>free</i>	Compton's CD Encyclopedia	1989	\$750	\$1,370
11. Videogame console	<i>free</i>	Atari 2600	1977	\$199	\$744
Total	<i>free</i>				\$902,065

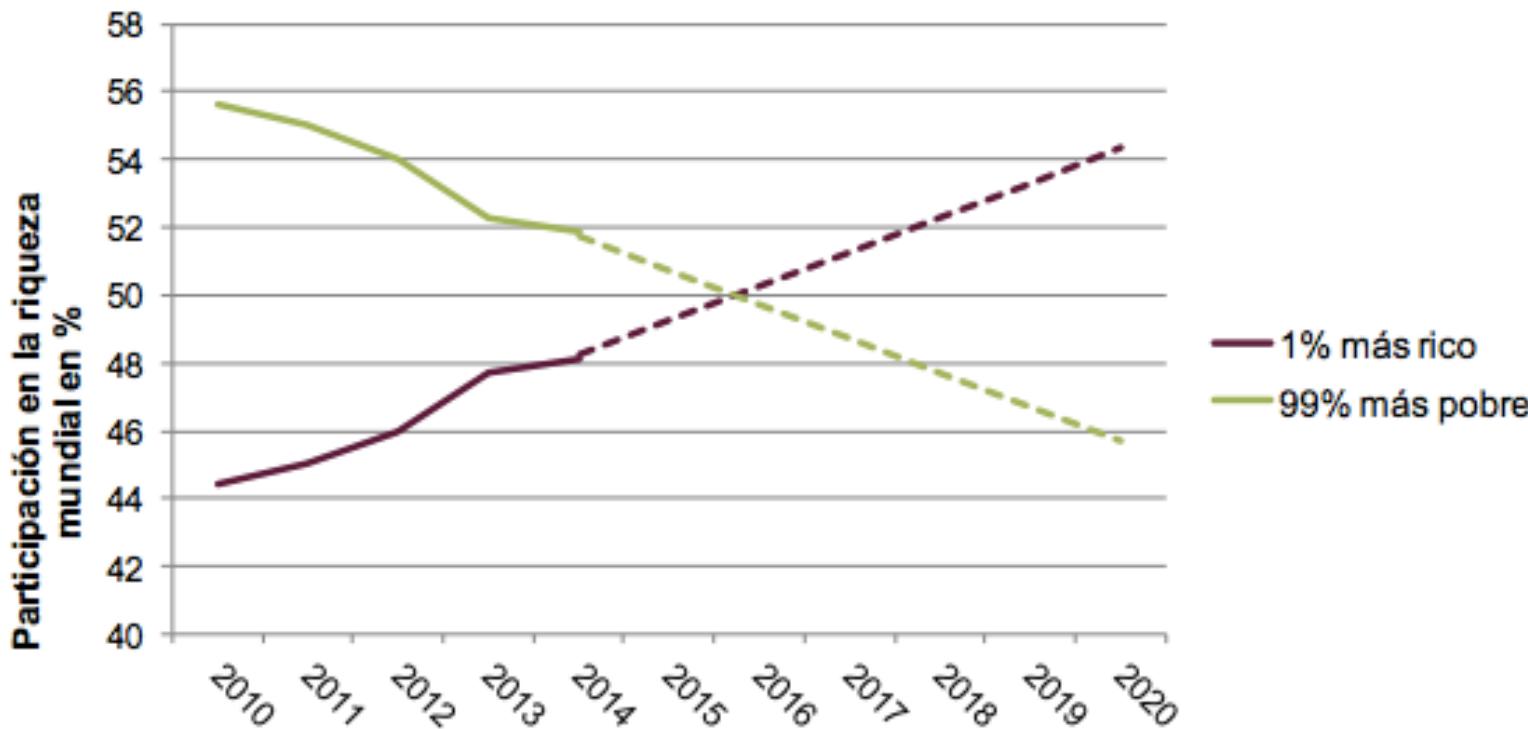
*Year of Launch

But



La riquesa mundial es concentra cada vegada més en mans d'una petita elit

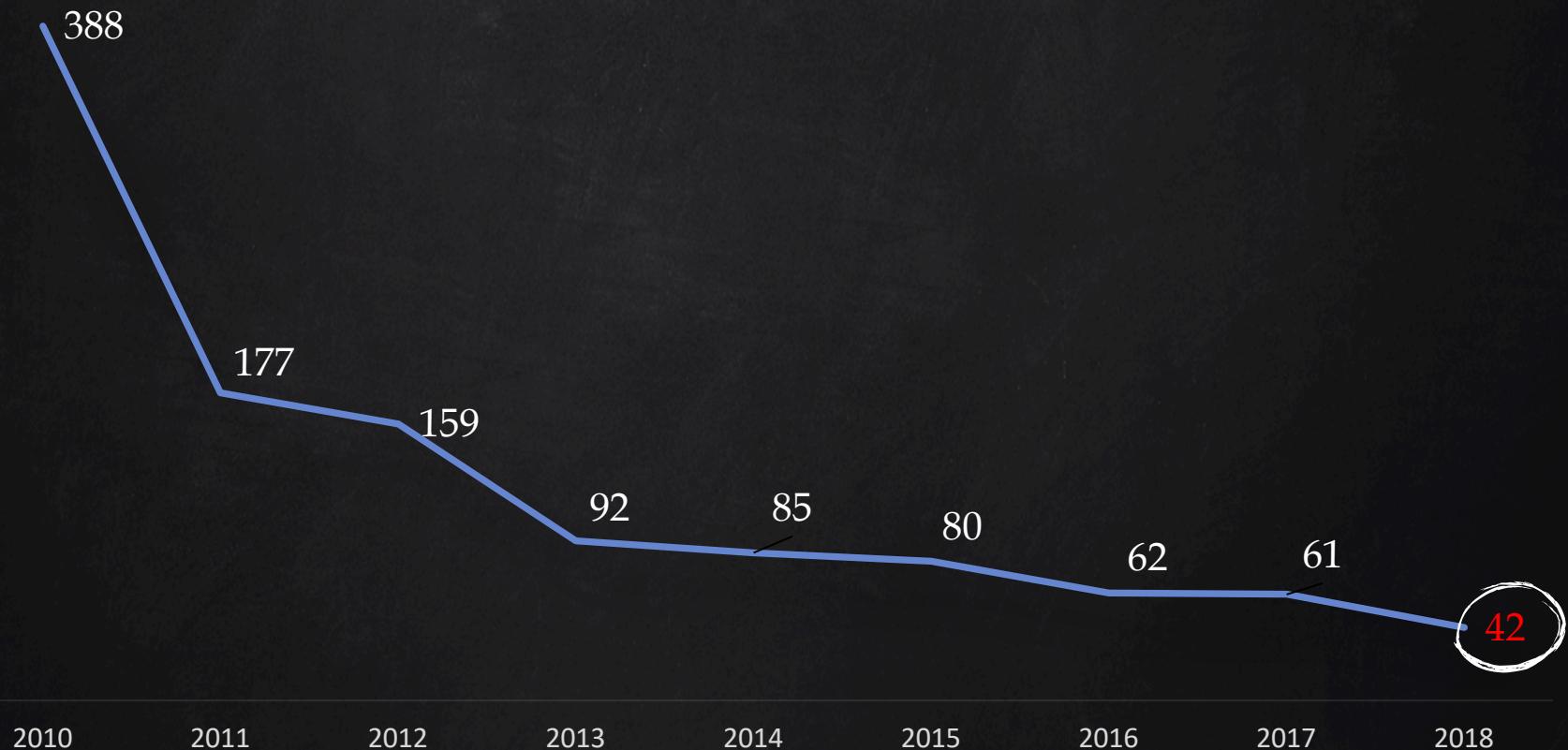
Gráfico 2: Participación en la riqueza mundial del 1% más rico y del 99% más pobre de la población, respectivamente; las líneas discontinuas reflejan las previsiones basadas en la tendencia observada entre 2010 y 2014. En 2016 el 1% más rico de la población poseerá más del 50% de la riqueza mundial total.



Source: <https://www.oxfam.org/...oxfam.../bp-economy-for-99-perce...>

The world's wealth is increasingly concentrated in the hands of a small elite (Oxfam)

Number of billionaires that concentrated the 50% of world wealthness



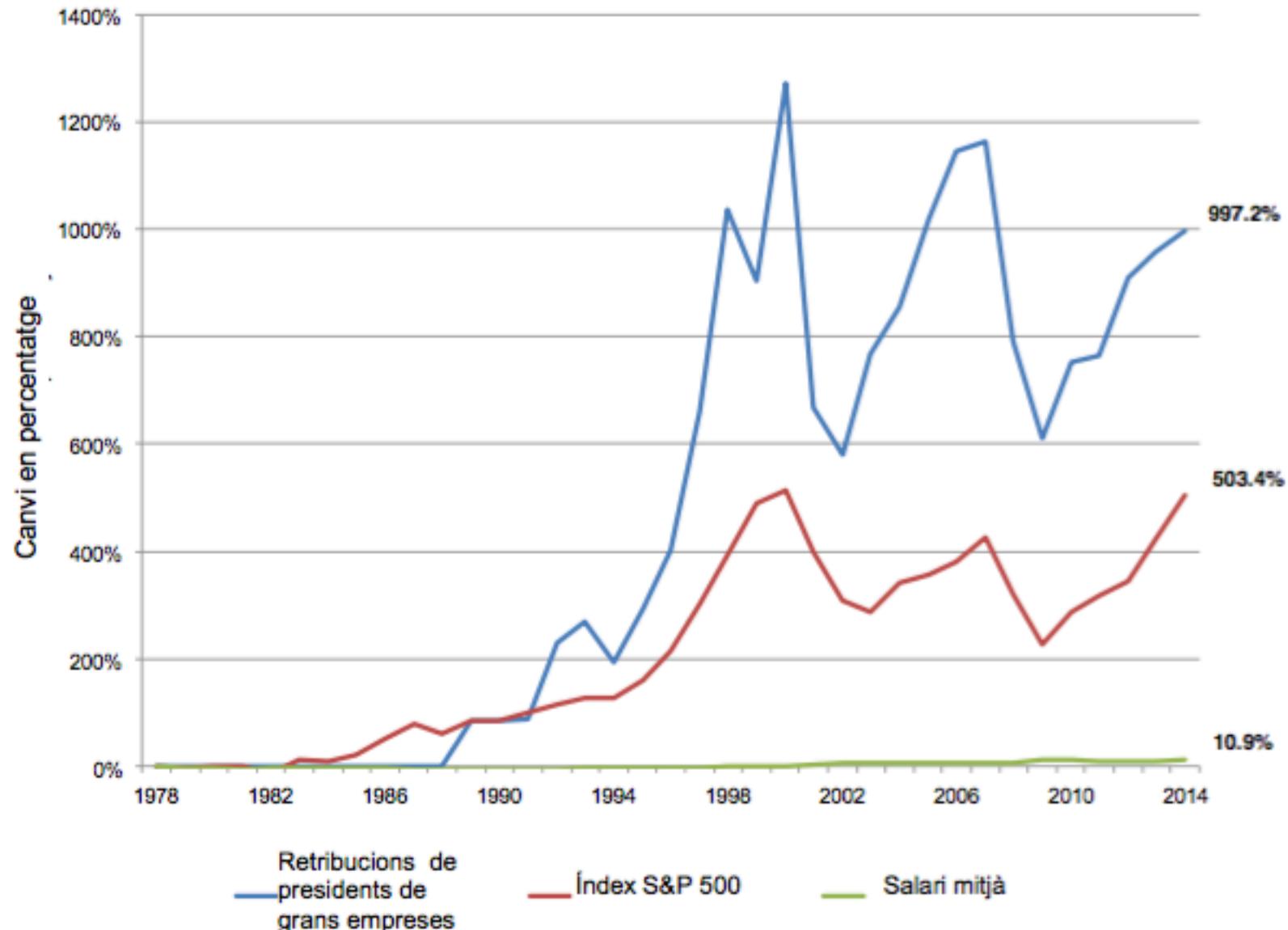
Source: <https://www.oxfam.org/...oxfam.../bp-economy-for-99-perce...>

Tax reduction for large fortunes and companies (2019)

CARRERA A LA BAJA EN LA FISCALIDAD DE LAS GRANDES FORTUNAS Y EMPRESAS¹²⁷

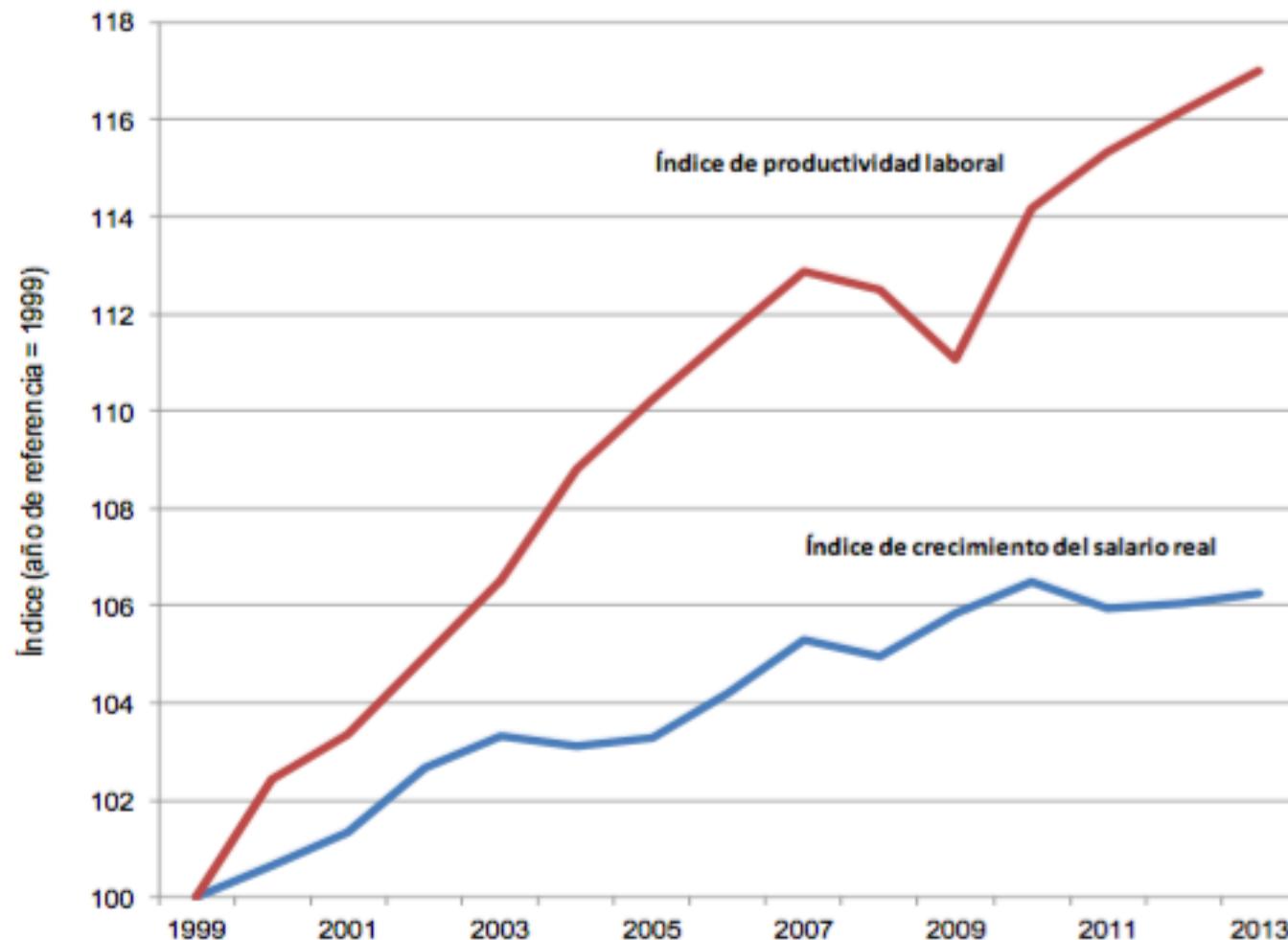


Gràfic 5: Als Estats Units, els increments salarials dels presidents de grans empreses superen de molt els del salari mitjà



Font: Copiat de L. Mishel i A. Davis (2015) "CEO Pay Has Grown 90 Times Faster than Typical Worker Pay Since 1978" EPI. <http://www.epi.org/publication/ceo-pay-has-grown-90-times-faster-than-typical-worker-pay-since-1978/>⁰²

Gràfic 6: Als països desenvolupats, la productivitat dels treballadors ha augmentat, però els seus salaris no han mantingut el mateix ritme.



Font: Reproducció del gràfic 7, Informe mundial sobre salariis de l'OIT 2014-15. Base de dades sobre salariis mundials de l'OIT; Tendència dels models econòmètrics de l'OIT, abril de 2014.

Food oligopolies

4 companies (Dow-Dupont, Bayer-Monsanto, Syngenta i Limagrain) control more than 50% of world seed trade.



4 companies (BASF, Bayer-Monsanto, Dow-DuPont, i Syngenta) control 75% of agrochemical/pesticides's market.

Food oligopoly

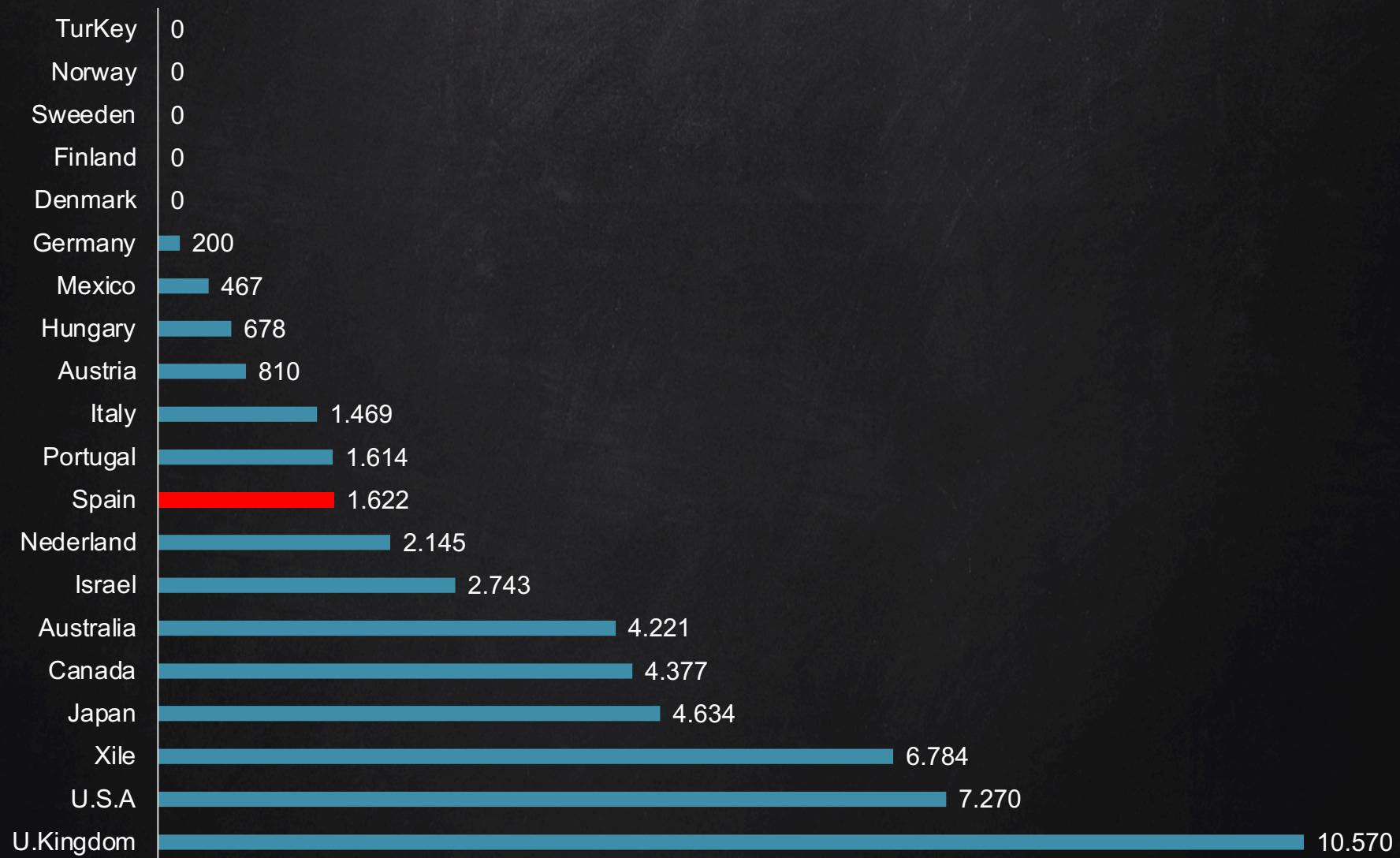
Only 4 companies (ADM, Bunge, Cargill & Dreyfuss) they control 90% of the world grain market.



Índice de Precios en Origen y Destino de los Alimentos (Dic.2018)

PRODUCTO	PRECIO ORIGEN (€/kg)	PRECIO DESTINO (€/kg)	DIFERENCIA PRECIO ORIGEN-DESTINO(1)	DIFERENCIA PORCENTUAL ORIGEN - DESTINO
ACEITUNAS EN VERDE	0,66	4,77	7,23	623%
ACEITE OLIVA VIRGEN EXTRA	2,60	4,88	1,88	88%
ACELGA	0,40	2,21	5,53	453%
AJO	0,65	5,27	8,11	711%
ALCACHOFA	0,84	3,64	4,33	333%
BERENJENA	0,77	2,06	2,68	168%
BROCOLI	0,26	2,45	9,42	842%
CALABACIN	0,37	1,96	5,30	430%
CEBOLLA	0,33	1,14	3,45	245%
CHAMPIÑON	1,90	3,80	2,00	100%
COLIFLOR	0,35	1,79	5,11	411%
LECHUGA	0,15	1,03	6,87	587%
PATATA	0,26	0,84	3,23	223%
PEPINO	0,24	1,72	7,17	617%
PIMIENTO ROJO	0,74	2,45	3,31	231%
PIMIENTO VERDE	0,65	2,17	3,34	234%
REPOLLO	0,26	1,29	4,96	396%
TOMATES DE ENSALADA	0,57	2,31	4,05	305%
ZANAHORIA	0,43	1,04	2,42	142%
LIMÓN	0,31	2,19	7,06	606%
MANDARINA	0,17	1,57	9,24	824%
MANZANA	0,40	2,10	5,25	425%
NARANJA	0,12	1,62	13,50	1250%
PERA	0,50	2,01	4,02	302%
PLÁTANO	0,79	2,51	3,18	218%
UVA DE MESA	0,85	3,28	3,85	285%

Average university fees (annual €)



Source: OCDE/ diari Ara

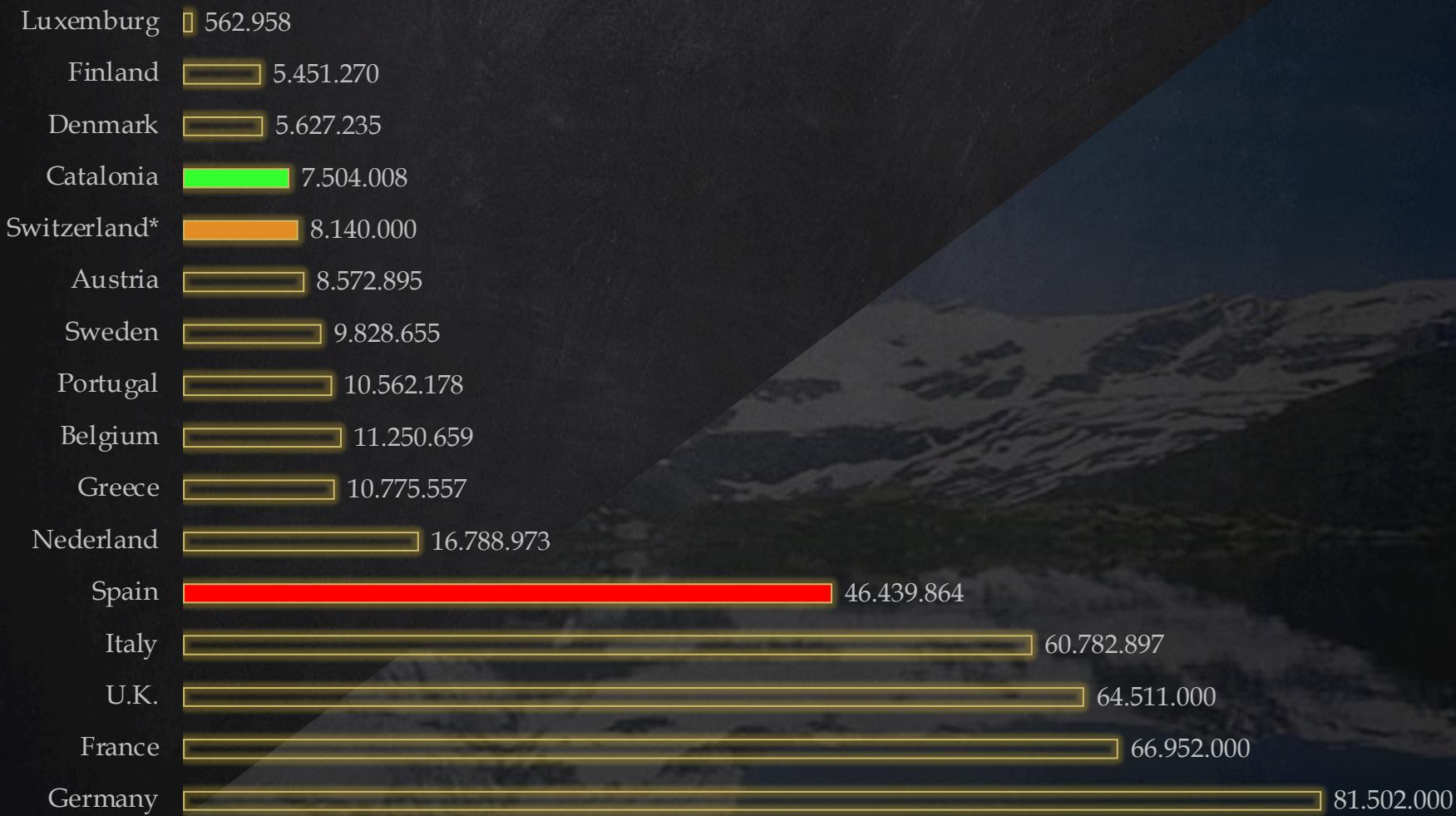
SPAIN IN FIGURES

Inhabitants	47.329.981 (2020)	
Ranking in wealth (GDP, ppp)	17 (2020, IMF)	
Ranking gdp per capita (ppp)	30 (2020, IMF)	
Human Development Index	25th (2018)	15 (2009)
GDP (PPP) 2019	1.244.757 M.€	
Life Expectancy 2018	80,5 (V) – 85,9 (M)	
Thousands of Pensions 2017	9460 / 140.000 millions € 40% Spanish Budget	
Average Value of Pensions	926 €/month (2017)	
Total public spending in Education (2015)	4,3 % GDP / 11,35% total Public Spending	
Sudents in non-university system (2013)	8.050.654	
Students in University Education (2015)	1.855.855	
Debt (2020)	1,289 billions.€	
Debt (% GDP)	110% (2020) 97,1% (2018)	
Debt per capita (2017)	23.797 €	
Deficit (% GDP) (2019)	2,70%	
Corruption Index (2018)	58	- 41th/180
Competitiviness Ranking (2018)	36th	
Unemployment	26% (2014), 14,02% 2019	
Minimum wage (2018)	900€/month	
Doing Business	30th (2018)	52th(2014)
Shadow Economy	17% (2019)	22,4% (2014)
Expenditure on Social Welfare (% GDP)	24,6% (2016) OECD	

Source: INE, Eurostat, UNO, IMF

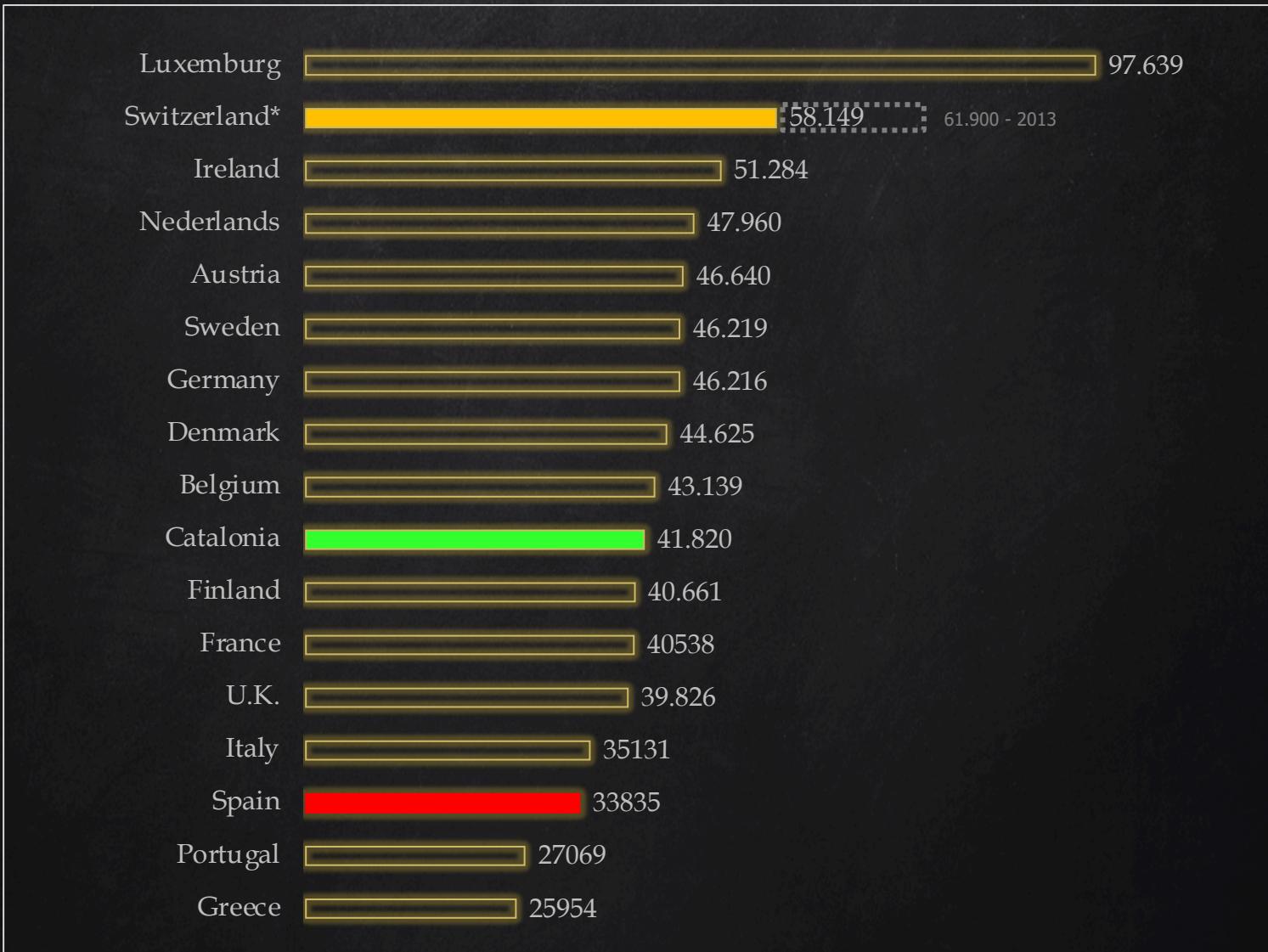
Comparison of Spanish and Swiss economies				
	year	SPAIN	SWITZERLAND	year
GDP	2014	1.381.002 M.€	701.040 M.€	2014
GDP per capita	2014	25.300 €	58.900 €	2014
Debt	2015	1.067.852 M.€	224.381 M.€	2014
Debt (% GDP)	2015	99,82%	34,20%	2014
Debt per capita	2015	22.994 €	12.715 €	2014
Deficit (% GDP)	2014	-5,80%	0,18%	2014
Corruption Index	2015	60 - 37th	86 - 7th	2015
Competitiveness Ranking	2015	33rd	1st	2015
Unemployment	2015	23%	3,5%	2014
Minimum Wage	2015	757 €	no oficial ≈1.800 €	2012
Doing Business	2014	52th	29th	2014
Inhabitants	2016	47.846.084	8.064.246	2016
HDI	2014	0,875 - 26th	0,930 - 2nd	2014

POPULATION EU-15 (2015)



Source: Eurostat and own

GDP per capita PPP countries EU-15 + Switzerland. Relative positions of Catalunya



Source: Nuria Bosch and Marta Espasa. Viabilitat de Catalunya com
Estat. (2012)
* IMF data

10 Most expensives cities in the world (2015)

Rank	City	New York rent = 100
1	Singapur	129
2	Paris	126
3	Oslo	124
4	Zurich	121
5	Sydney	120
6	Melbourne	118
7	Ginebra	116
8	Copenhague	115
9	Hong Kong	113
10	Seúl	113
22	New York	100

Unemployment in Spain (4T 2015)

Population	46.439.864
Potentially labour force	37.528.100
Labor force ("pob.activa")	27.599.211
Not in the labor force	18.840.652
Labor force participation rate ("tasa d'actividad")	59,43%
Households with all unemployed	1.572.900
Employed	18.094.200
Unemployed	4.779.500
Unemployment rate	20.90%

Source INE-EPA

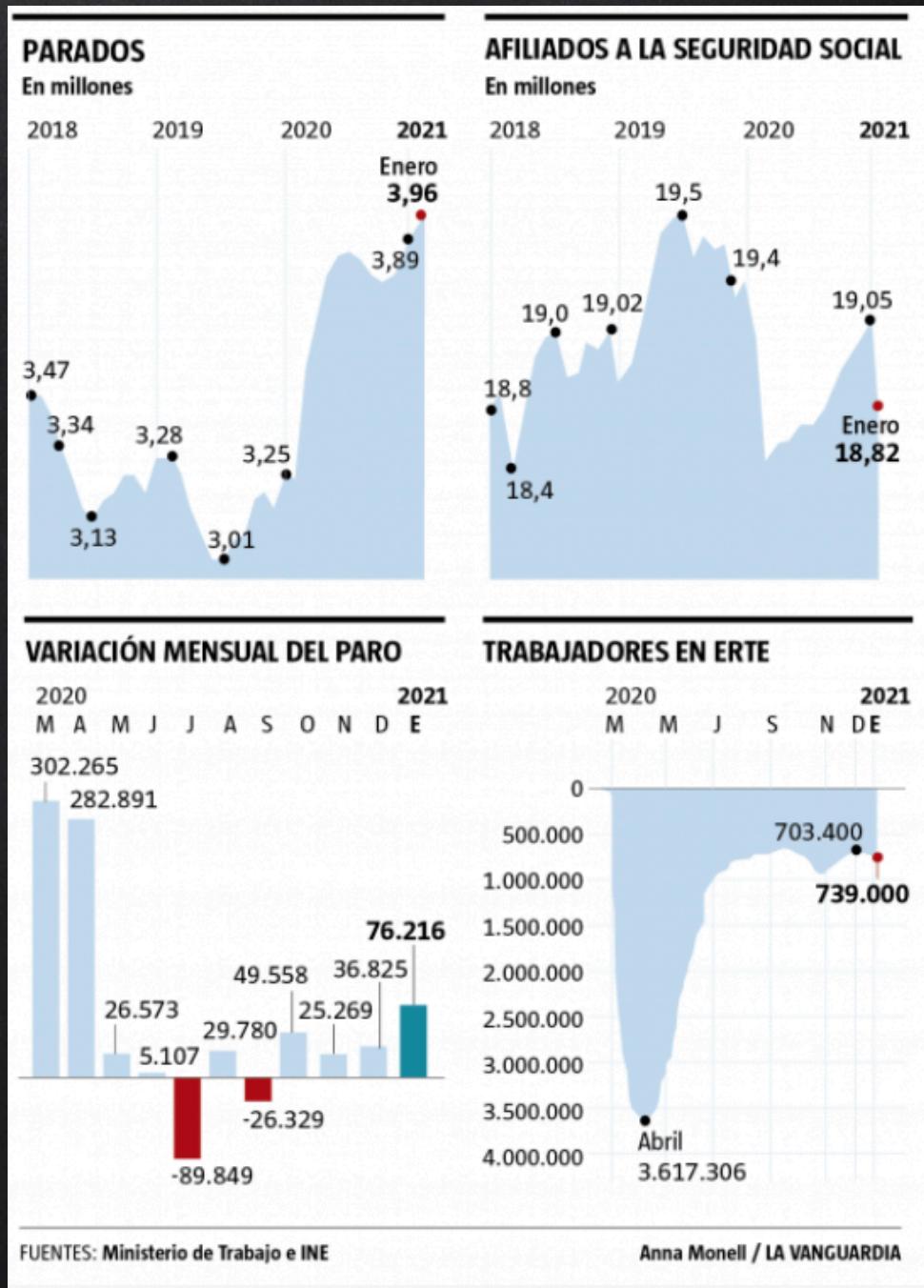
TEMA 1. CONCEPTES ECONÒMICS BÀSICS - ATUR

Unemployment in Spain 2T 2020

Population (thousands)		47.329,9
Potentially labour Force (16 years old or more)	(16 years old or more) (16-64 years old)	39.563,0 30.603,5
Labor force ("població activa")		21.975,2
Not in the labor force ("població inactiva")		17.588,7
Labor force participation rate ("taxa d'activitat")		55,54 (2020) 58,74 (2019)
Employed		18.607,2
Unemployed		3.368,0
Unemployment rate		15,33%

Source: INE

Evolució mercat laboral



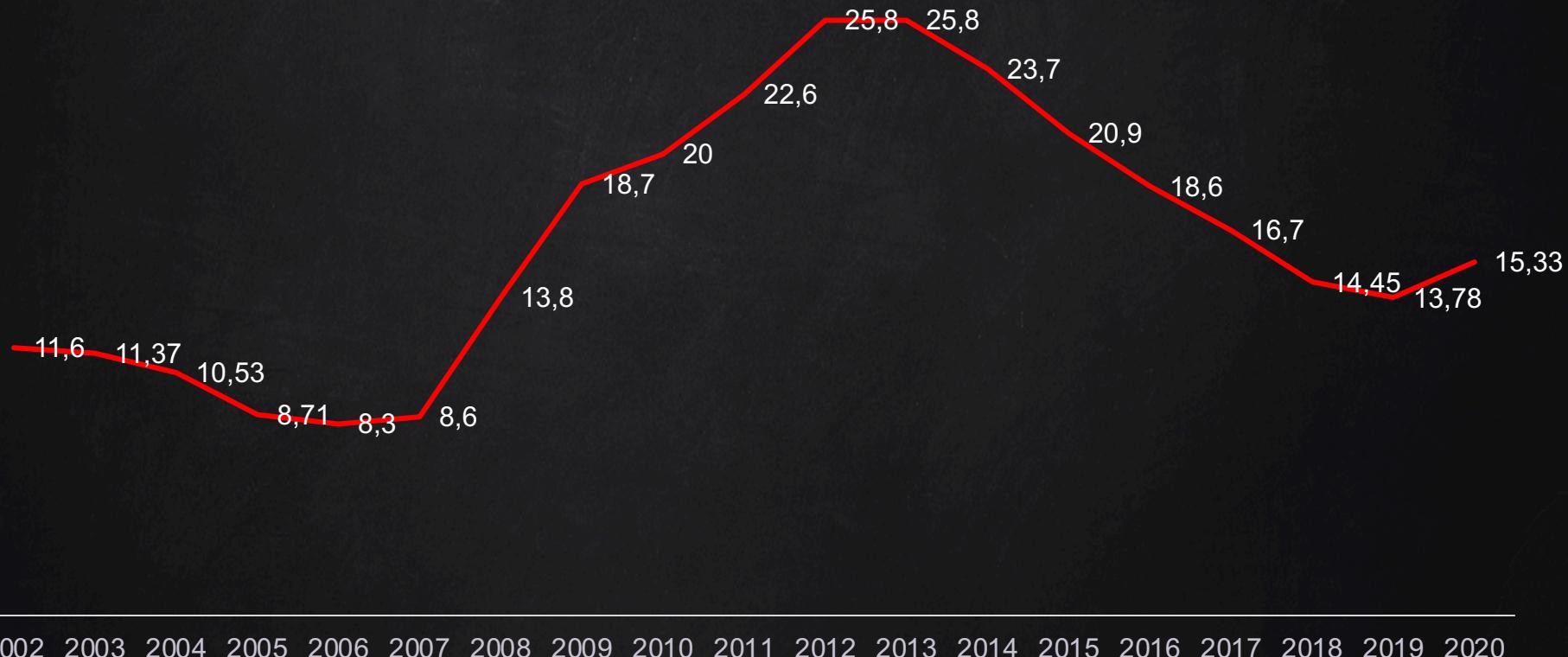
Font: La Vanguardia

Unemployment Rate Euro Countries (July 2020)



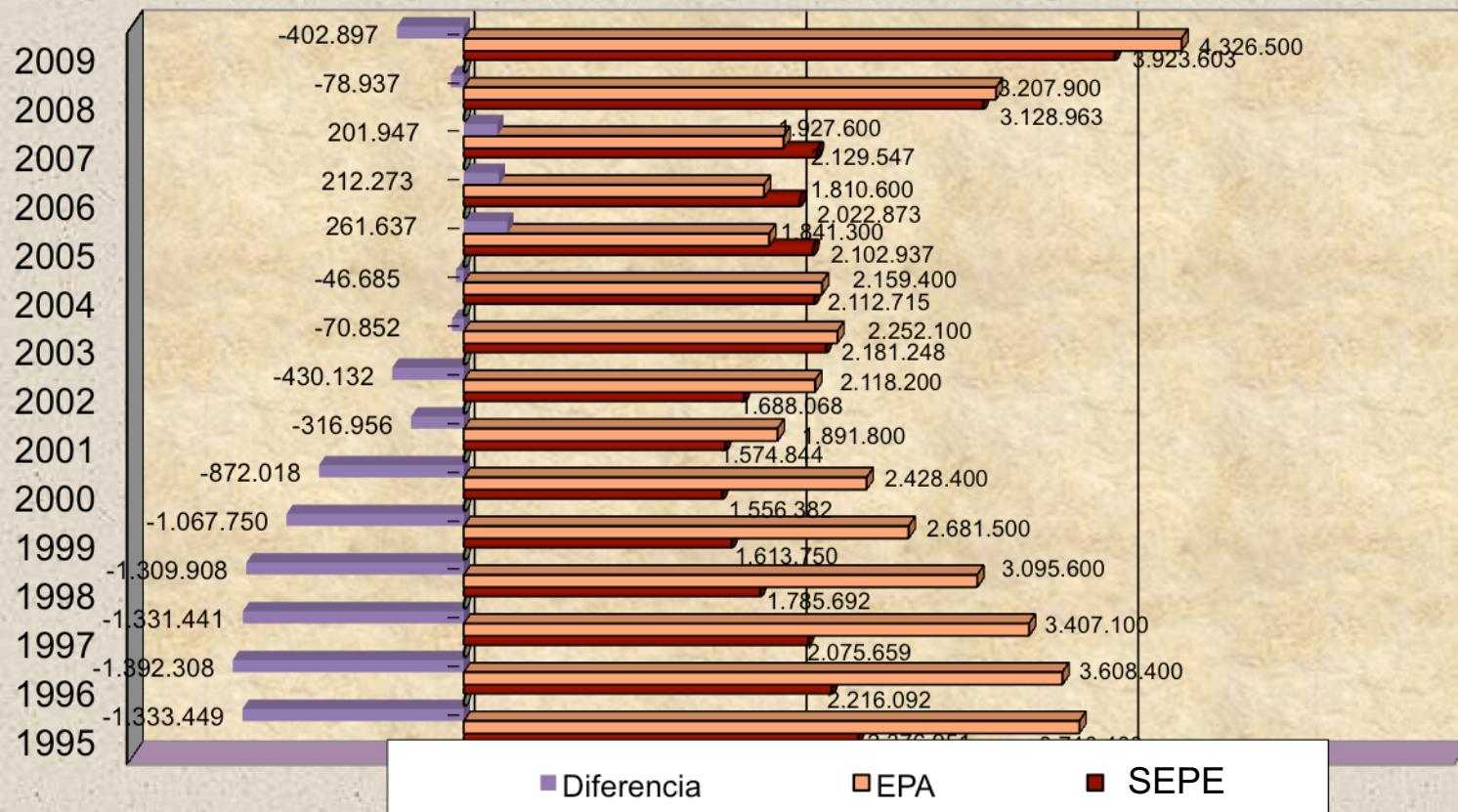
TEMA 1. CONCEPTES ECONÒMICS BÀSICS - ATUR

Spanish Unemployment rate (EPA)



Source: INE (<http://www.ine.es/consul/serie.do?s=EPA815&c=2&nult=50>)

Comparación datos de paro SEPE vs. EPA

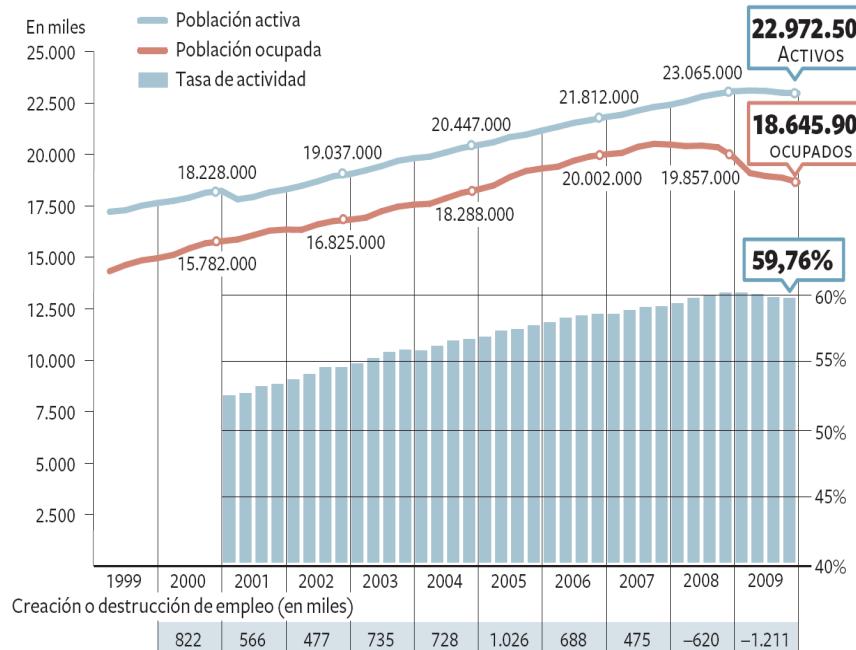


TEMA 1. CONCEPTES ECONÒMICS BÀSICS - ATUR

Evolución del mercado laboral

■ POBLACIÓN ACTIVA Y OCUPADA

Cuarto trimestre de 2009



■ PARADOS

Cuarto trimestre de 2009



■ PARADOS POR SEXO

	IV tr. 2009	Variación con IV tr. 2008	Tasa de paro
Hombres	2.392.500	703.700	18,64%
Mujeres	1.934.000	415.000	19,07%

■ PARADOS ESPAÑOLES Y EXTRANJEROS

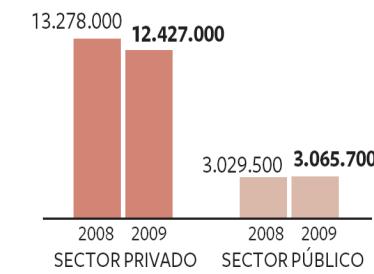
	IV tr. 2009	Variación con IV tr. 2008	Tasa de paro
Españoles	3.250.300	821.900	16,80%
Extranjeros	1.076.200	296.800	29,70%

■ PARADOS POR SECTORES

	IV tr. 2009	Variación con IV tr. 2008
Agricultura	192.900	43.800
Industria	327.400	39.300
Construcción	614.600	29.700
Servicios	1.414.500	267.100
Más de un año parados	1.477.200	688.100
Buscan su primer empleo	299.800	50.600

■ ASALARIADOS

Cuarto trimestre



■ HOGARES CON TODOS SUS MIEMBROS EN PARO

	IV tr. 2009	Variación con IV tr. 2008
Parados	1.220.000	392.800

■ PARADOS MENORES DE 25 AÑOS

	IV tr. 2009	Variación con IV tr. 2008	Tasa de paro
Parados	816.400	131.500	39,07%

Fuente: Instituto Nacional de Estadística (INE).

EL PAÍS

□ TEMA 1. CONCEPTES ECONÒMICS BÀSICS - ATUR

PRISON POPULATION IN THE WORLD		
1	United States of America	2,217,000
2	China	1,657,812
3	Russian Federation	644,237
4	Brazil	607,731
5	India	418,969
6	Thailand	314,292
7	Mexico	255,330
8	Iran	225,000
9	Turkey	176,268
10	Indonesia	173,866
11	South Africa	159,689
12	Vietnam	142,074
13	Colombia	121,361
14	Phillippines	120,557
15	Ethiopia	111,710
16	United Kingdom	85,233
28	Spain	61,982



Prison population in the world (2015)

UNEMPLOYEMENT



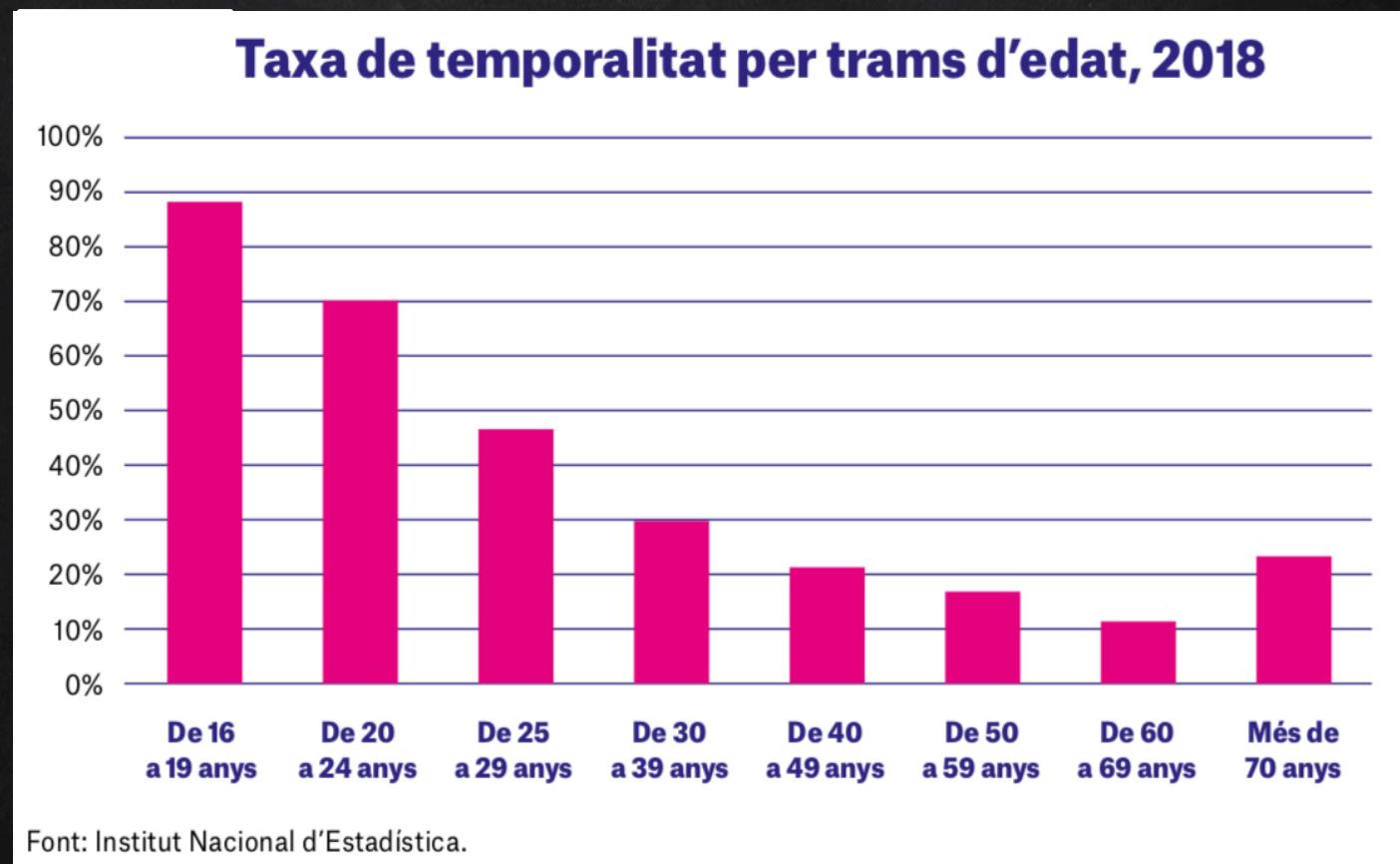
Source: International Centre for Prison Studies. University of Essex. <http://www.prisonstudies.org/>

TEMA 1. CONCEPTES ECONÒMICS BÀSICS - ATUR

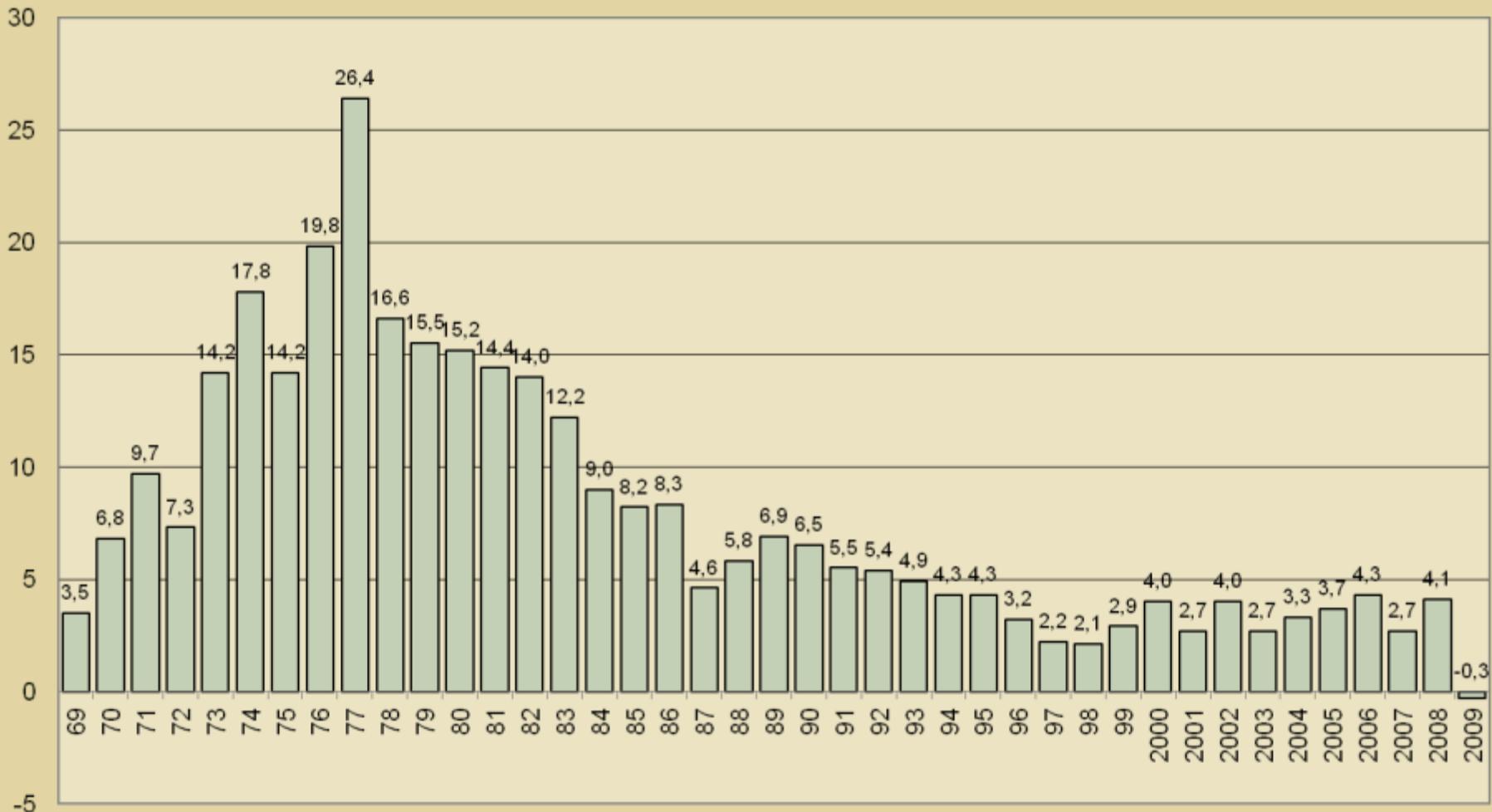
% Of Persons Working Part-time

	Persons working part-time, age group 15–64		
	2004	2009 (*)	2014 (*)
EU-28	16.7	18.0	19.6
Euro area (EA-19)	17.0	19.3	21.5
Belgium	21.5	23.2	23.7
Bulgaria	2.7	2.1	2.5
Czech Republic	4.4	4.8	5.5
Denmark	21.9	25.2	24.6
Germany	21.9	25.3	26.5
Estonia	6.9	9.4	8.3
Ireland	16.6	21.0	23.0
Greece	4.5	5.9	9.3
Spain	8.8	12.4	15.8
France	16.9	17.2	18.6
Croatia	6.5	6.5	5.3
Italy	12.4	14.1	18.1
Cyprus	7.5	7.5	13.5
Latvia	10.2	8.2	6.8
Lithuania	8.4	7.9	8.6
Luxembourg	16.3	17.6	18.5
Hungary	4.3	5.2	6.0
Malta	7.8	11.0	15.4
Netherlands	45.2	47.7	49.6
Austria	19.9	23.9	26.9
Poland	9.6	7.7	7.1
Portugal	8.2	8.5	10.1
Romania	9.2	8.5	8.7
Slovenia	8.3	9.5	10.0
Slovakia	2.5	3.4	5.1
Finland	12.8	13.3	14.1
Sweden	23.1	26.0	24.6
United Kingdom	25.1	25.0	25.3
Iceland	19.2	23.0	19.7
Norway	29.1	27.8	25.7
Switzerland	32.0	33.7	36.3
FYR of Macedonia	:	5.3	5.8
Turkey	:	10.6	11.1

Llocs de treball precaris a Espanya



Inflación en España (IPC)



TEMA 1. CONCEPTES ECONÒMICS BÀSICS - INFLACIÓ

Spanish Consumer Price index

CPI (consumer Price index) Change in average annual



Source: *Instituto Nacional de Estadística*

TEMA 1. CONCEPTES ECONÒMICS BÀSICS - INFLACIÓ

Càlcul del IPC

Los 12 grupos que conforman el IPC y sus ponderaciones para el año 2020 son:

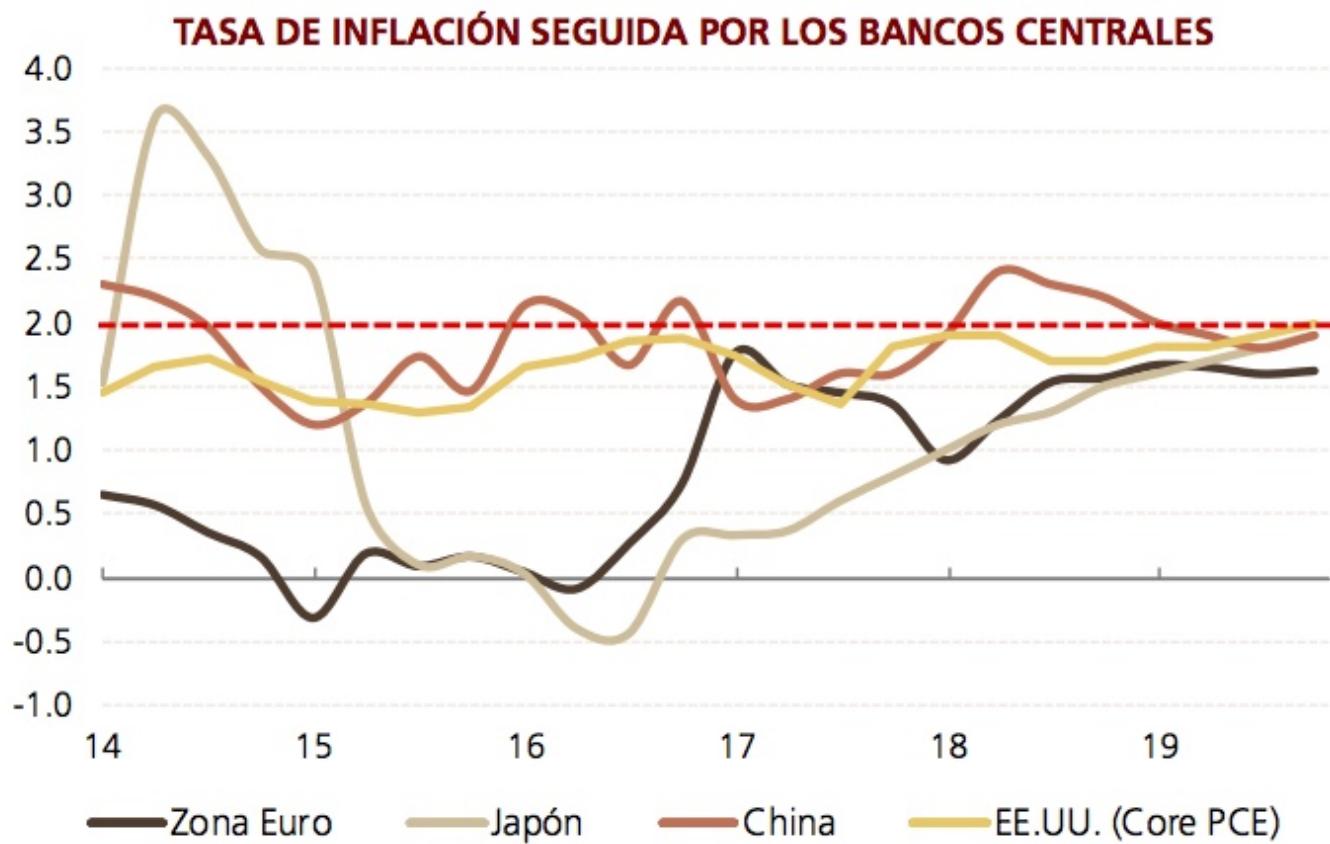
Grupo	Sectores	Ponderaciones (%)
1	Alimentación y bebidas no alcohólicas	19,49
2	Bebidas alcohólicas y tabaco	2,85
3	Vestido y calzado	6,49
4	Vivienda	13,37
5	Menaje	5,77
6	Sanidad	3,89
7	Transporte	15,40
8	Comunicaciones	3,81
9	Ocio y cultura	8,41
10	Enseñanza	1,64
11	Hoteles, cafés y restaurantes	12,05
12	Otros	6,82

European Union Harmonized ICP

	2012	2013	2014
EU(')	2,6	1,5	0,6
Euro área	2,5	1,4	0,4
Belgium	2,6	1,2	0,5
Bulgaria	2,4	0,4	-1,6
Czech Republic	3,5	1,4	0,4
Denmark	2,4	0,5	0,3
Germany	2,1	1,6	0,8
Estonia	4,2	3,2	0,5
Ireland	1,9	0,5	0,3
Greece	1,0	-0,9	-1,4
Spain	2,4	1,5	-0,2
France	2,2	1,0	0,6
Italy	3,3	1,3	0,2
Luxembourg	2,9	1,7	0,7
Netherlands	2,8	2,6	0,3
Poland	3,7	0,8	0,1
Portugal	2,8	0,4	-0,2
Finland	3,2	2,2	1,2
Sweden	0,9	0,4	0,2
United Kingdom	2,8	2,6	1,5
Iceland	6,0	4,1	1,0
Switzerland	-0,7	0,1	0,0
Turkey (*)	9,0	7,5	8,9
Japan (*)	0,0	0,4	2,7
United States (*)	2,1	1,5	1,6



La inflación no se instalará sobre el objetivo del 2% durante al menos dos años más



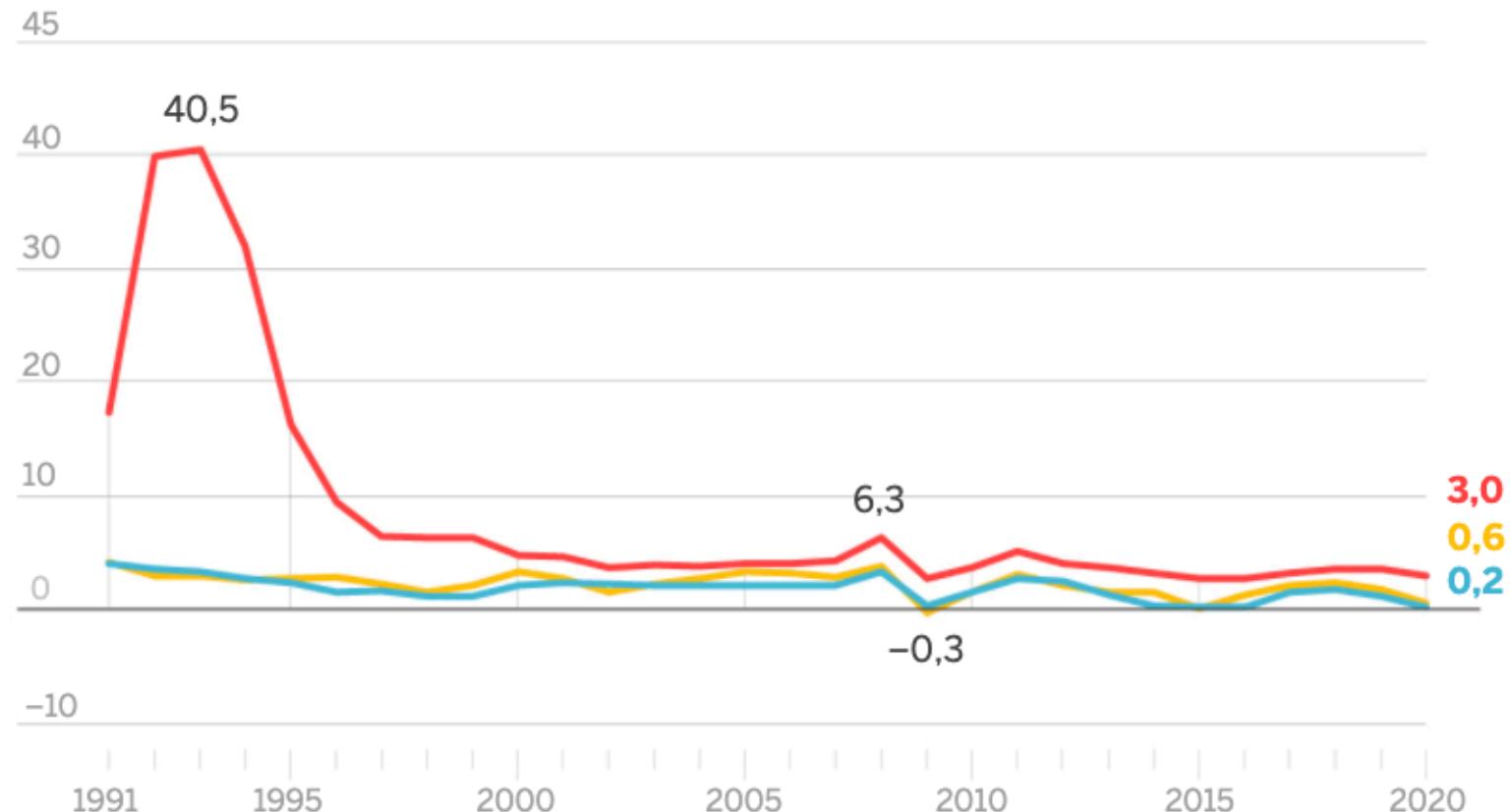
Fuente: UBS

- Una de las características más notables de este ciclo –y la clave de su longevidad– es la ausencia de presiones inflacionistas. Sin signos de recalentamiento, los bancos centrales pueden subir tipos más tarde y más lento que en otros ciclos

Evolución de la tasa de inflación

Variación anual, en %

Mundo Zona euro Estados Unidos



Fuente: Fondo Monetario Internacional.

EL PAÍS

El IPC sube arrastrado por el fin de las rebajas



LO QUE MÁS SUBE Septiembre del 2011 Tasa mensual en %

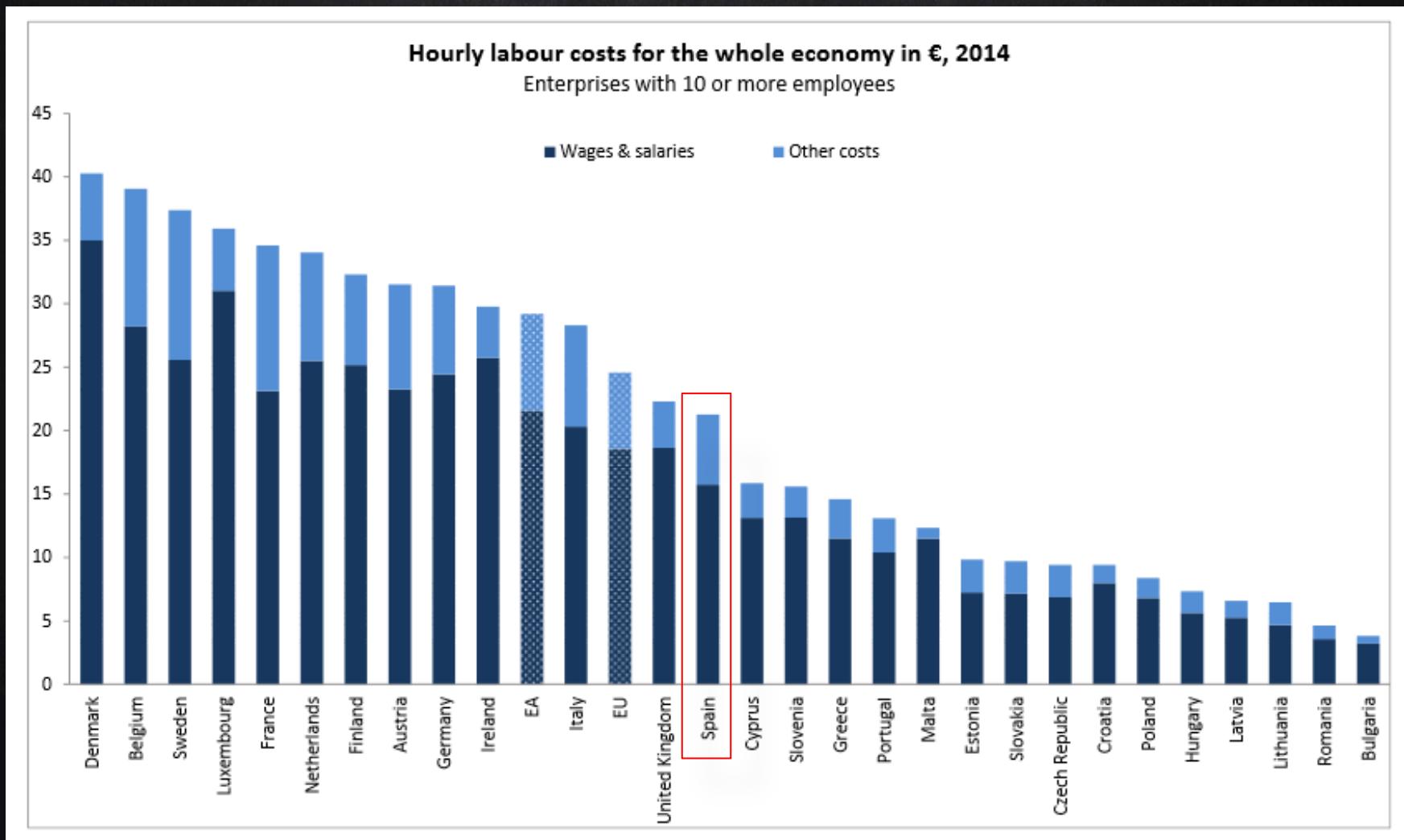
Tabaco	4,8
Prendas de vestir	4,1
Bebidas alcohólicas	3,5
Calzado	2,7
Transporte	0,6
Alimentos	0,2

LO QUE MÁS BAJA
-14,6 Hoteles, alojamientos
-11,8 Viaje organizado

FUENTE: INE

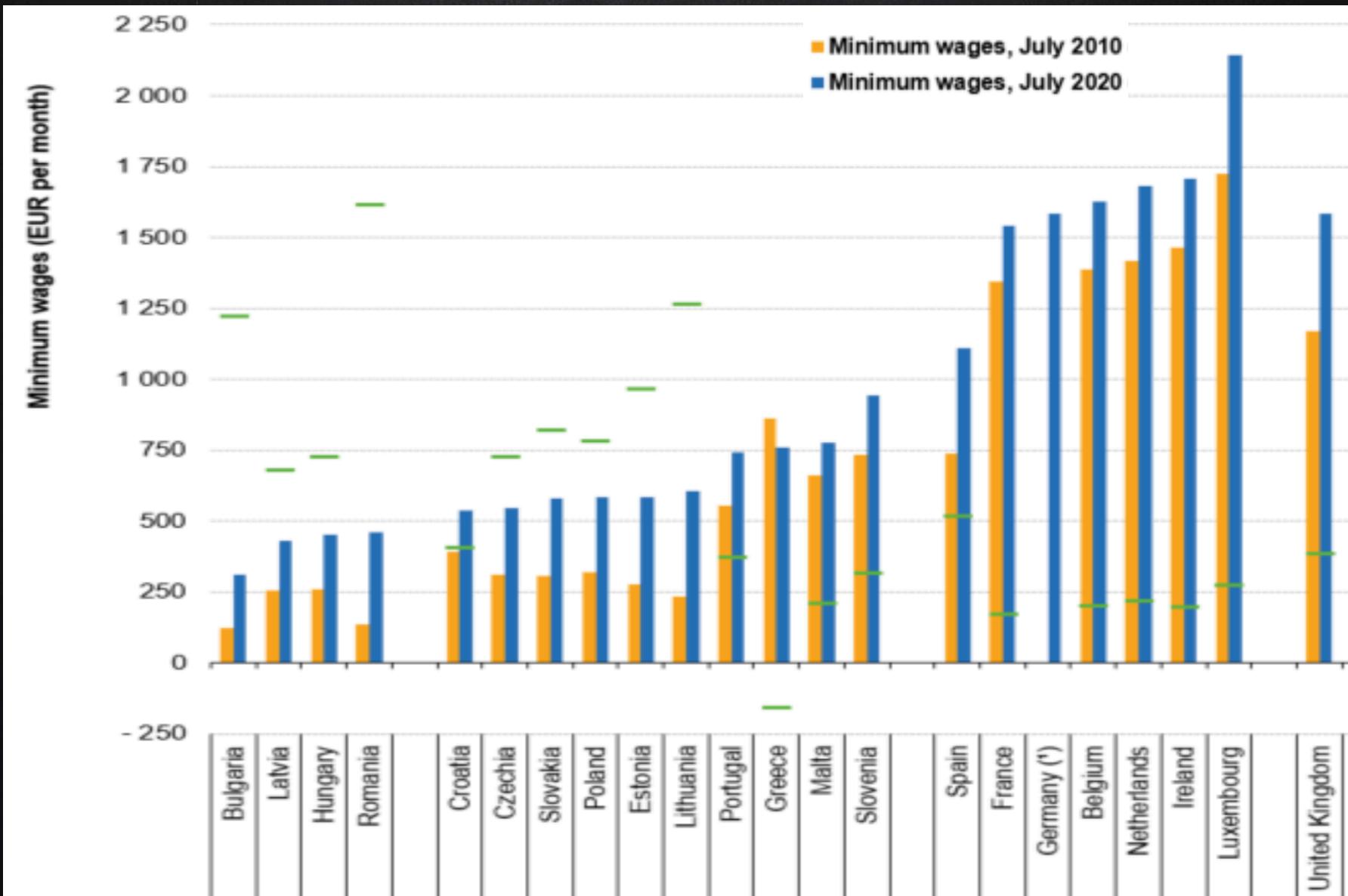
LA VANGUARDIA

TEMA 1. CONCEPTES ECONÒMICS BÀSICS - INFLACIÓ



TEMA 1. CONCEPTES ECONÒMICS BÀSICS - INFLACIÓ

Gross minimum wages by country (2010 and 2020)



Source: Eurostat ([earn_mw_cur](#))

Previsiones UBS: principales magnitudes económicas

	Crecimiento del PIB			Balanza Fiscal		Déficit Balanza Pagos		Inflación		
	2017	2018	2019	2018	2019	2018	2019	2017	2018	2019
GLOBAL ⁽¹⁾	3.8	3.9	3.9	-3.0	-3.1	--	--	2.7	2.9	2.7
EE.UU.	2.2	2.4	2.7	-3.7	-4.6	-2.5	-2.9	2.1	2.0	1.9
Canadá	3.6	2.5	2.3	-0.7	-0.7	-2.7	-2.6	1.5	1.6	2.2
Japón	1.8	1.8	1.1	-3.1	-2.8	4.9	4.5	0.5	1.3	2.1
Zona Euro	2.3	1.9	1.7	-1.2	-1.2	2.7	2.5	1.5	1.6	1.6
Alemania	2.5	1.9	1.6	1.0	1.0	7.6	7.4	1.7	2.3	1.7
Francia	1.8	1.8	1.6	-2.6	-2.8	-0.3	0.0	1.2	1.8	1.6
Italia	1.5	1.3	1.0	-1.6	-0.9	2.3	2.1	1.3	0.9	1.2
España	3.1	2.3	1.9	-2.5	-2.3	1.8	1.8	2.0	1.4	1.4
Reino Unido	1.5	1.1	1.1	-2.1	-1.8	-3.9	-3.8	2.7	2.6	2.2
Suiza	1.0	1.8	1.8	-0.1	0.0	10.0	10.0	0.5	0.6	0.9
China	6.8	6.4	6.3	-4.2	-4.3	0.7	0.6	1.6	2.5	2.0
India	6.6	7.4	7.7	-3.2	-3.0	-1.8	-2.0	3.7	4.9	4.3
Asia ex-JP + Aus	6.0	6.0	6.0	-3.1	-3.1	1.1	0.9	2.3	3.0	2.7
Brasil	1.0	3.1	2.7	-6.2	-5.0	-1.7	-2.4	3.4	3.6	4.1
Rusia	1.9	1.7	1.8	-0.5	0.3	2.8	2.5	3.7	3.3	4.2

(1) Ponderado por Paridad Poder Adquisitivo

Fuente: UBS

La economía mundial entra en "velocidad de crucero" con características propias de una fase intermedia del ciclo

Previsiones UBS: países emergentes

	Crecimiento del PIB			Balanza Fiscal		Déficit Balanza Pagos		Inflación		
	2017	2018	2019	2018	2019	2018	2019	2017	2018	2019
Asia										
China	6.8	6.4	6.3	-4.2	-4.3	0.7	0.6	1.6	2.5	2.0
India	6.6	7.4	7.7	-3.2	-3.0	-1.8	-2.0	3.7	4.9	4.3
Indonesia	5.1	5.4	5.5	-2.5	-2.5	-2.0	-2.1	3.8	3.5	3.6
Malasia	6.0	5.5	5.1	-2.8	-2.0	2.4	2.1	3.9	2.4	2.4
Filipinas	6.7	6.8	6.4	-3.0	-2.9	-1.0	-1.2	3.0	3.8	3.4
Corea del Sur	3.0	3.0	3.0	0.1	0.2	5.5	5.5	2.0	2.2	2.3
Taiwan	2.4	2.3	2.5	-1.0	-1.2	12.4	12.9	0.6	1.0	1.4
Tailandia	4.0	3.9	3.5	-2.9	-2.8	8.6	7.9	0.7	1.3	1.3
Europa, Oriente Medio y África										
Rep.Checa	4.3	3.1	3.1	0.0	0.2	0.1	0.3	2.4	2.0	2.3
Hungría	3.7	3.5	3.0	-2.3	-2.0	3.5	3.0	2.3	2.1	3.1
Polonia	4.2	3.6	3.5	-2.6	-2.7	-0.5	-0.5	2.0	2.1	2.5
Rusia	1.9	1.7	1.8	-0.5	0.3	2.8	2.5	3.7	3.3	4.2
Sudáfrica	0.7	1.0	1.3	-3.5	-3.5	-2.3	-2.8	5.3	4.6	5.0
Turquía	6.5	3.7	3.2	-2.5	-2.4	-5.4	-5.4	11.1	10.2	8.5
Iberoamérica										
Brasil	1.0	3.1	2.7	-6.2	-5.0	-1.7	-2.4	3.4	3.6	4.1
Chile	1.3	2.7	2.9	-2.6	-2.3	-1.9	-2.6	2.1	1.8	3.0
Colombia	1.6	2.6	3.0	-3.2	-2.6	-3.6	-3.7	4.9	3.8	3.4
Mexico	2.2	2.2	2.6	-2.4	-2.1	-1.5	-1.6	6.0	4.5	3.6
Perú	2.6	3.7	3.6	-3.5	-3.2	-2.0	-2.1	2.2	2.1	2.7
Venezuela	-12.0	-7.0	-8.0	-18.7	-19.2	3.5	3.5	1235	2300	3100

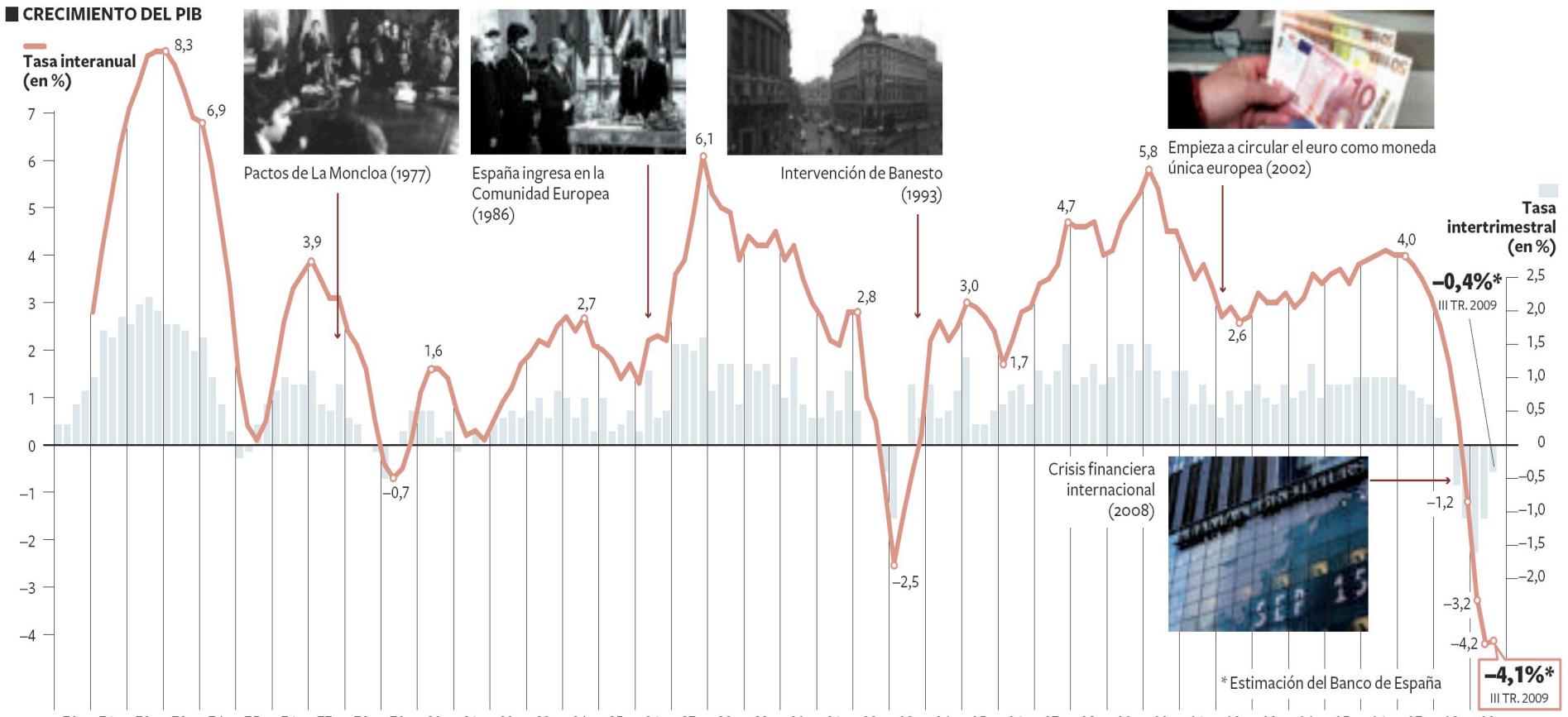
Fuente: UBS



Ciclos económicos heterogéneos y asíncronos

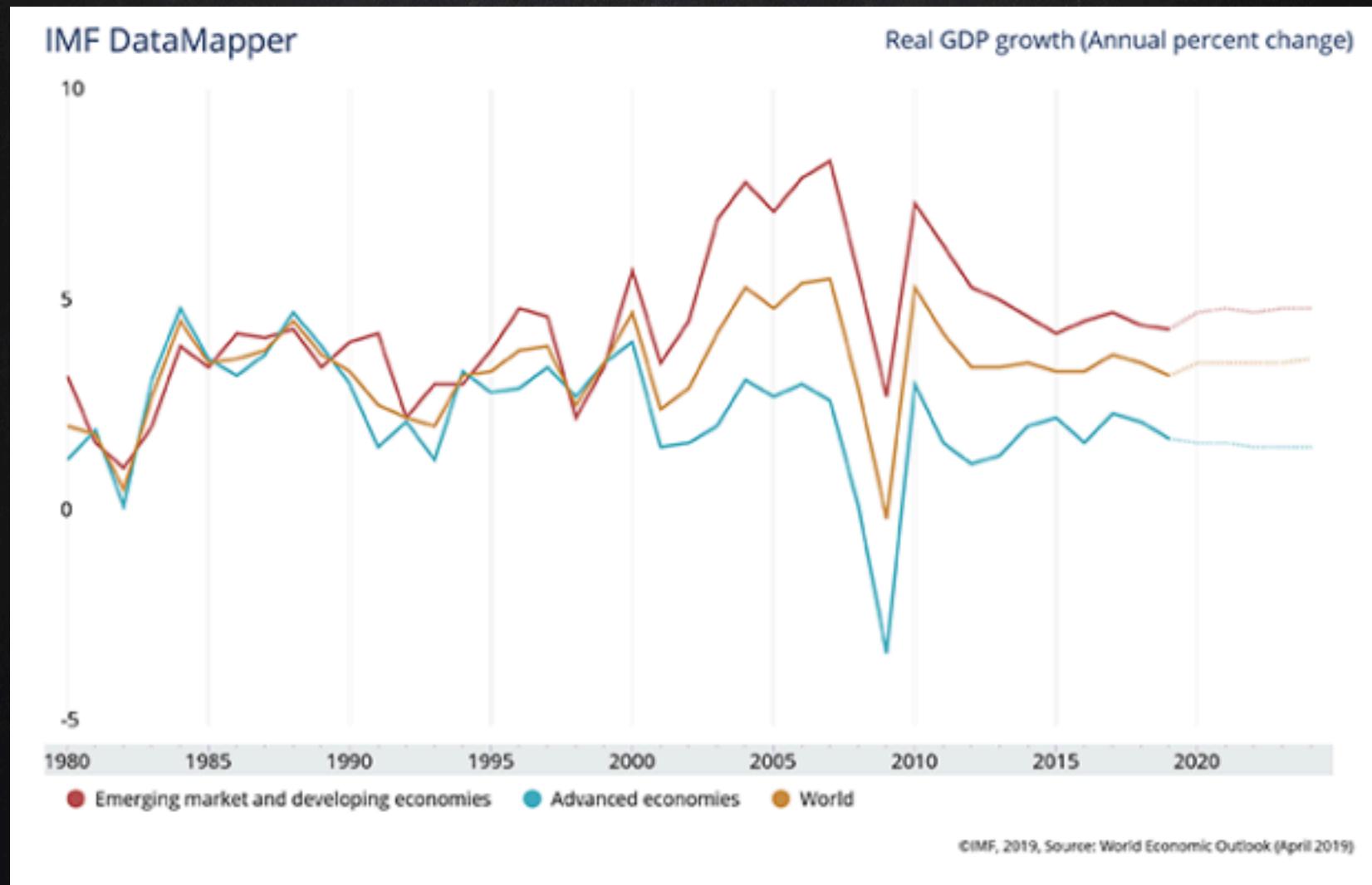
TEMA 1. CONCEPTES ECONÒMICS BÀSICS - CREIXEMENT

Evolución de la economía española

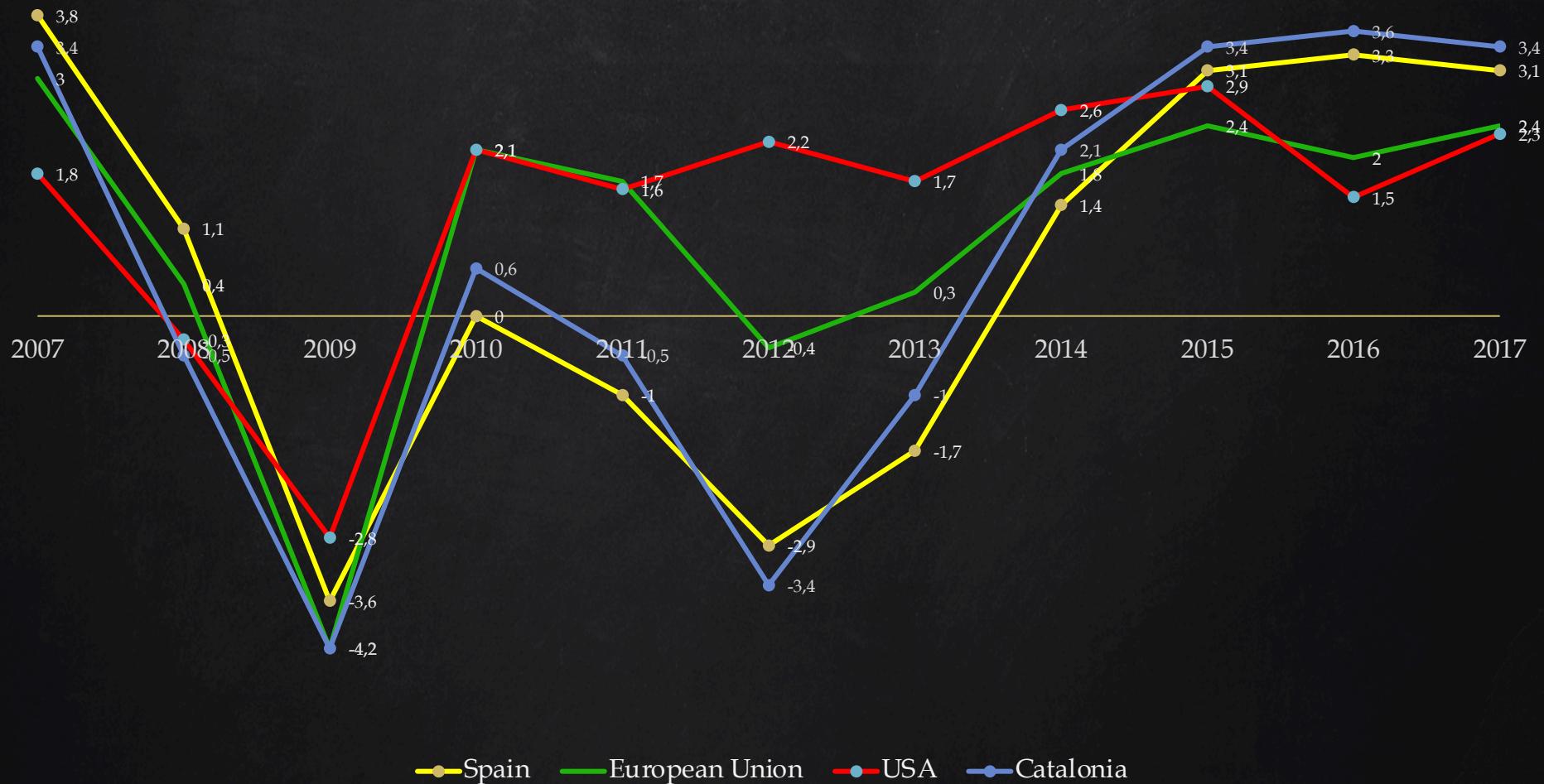


Fuente: Instituto Nacional de Estadística (INE).

TEMA 1. CONCEPTES ECONÒMICS BÀSICS - GROWTH



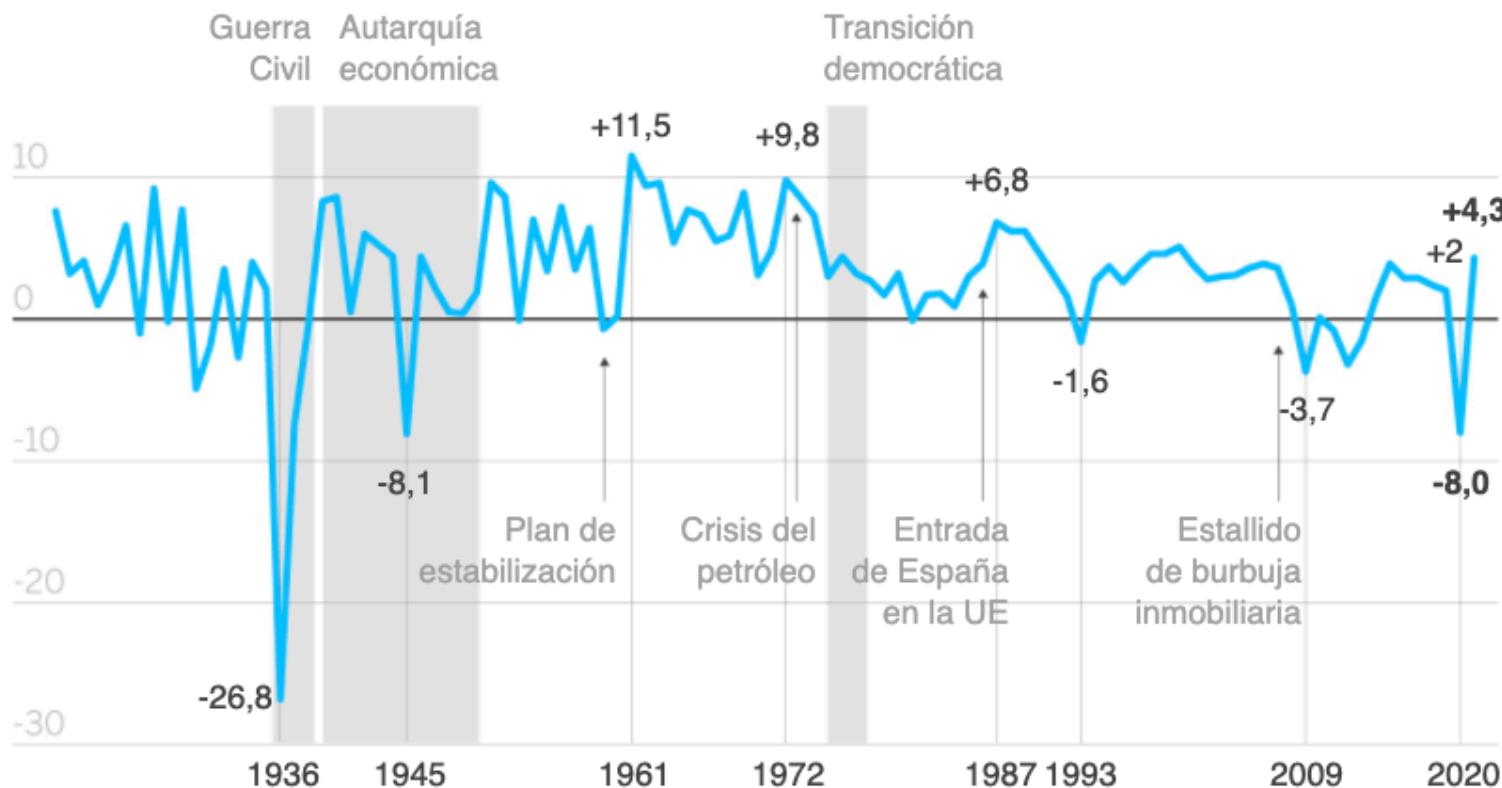
Economic Growth Rate



Source: UBS

Evolución del PIB

Variación anual en %. Previsiones para 2020 y 2021.



Fuente: Leandro Prados de la Escosura (2017), *Spanish Economic Growth, 1850-2015*
(Londres: Palgrave Macmillan) y FMI.

EL PAÍS

Evolución del PIB en España

Variación trimestral en %



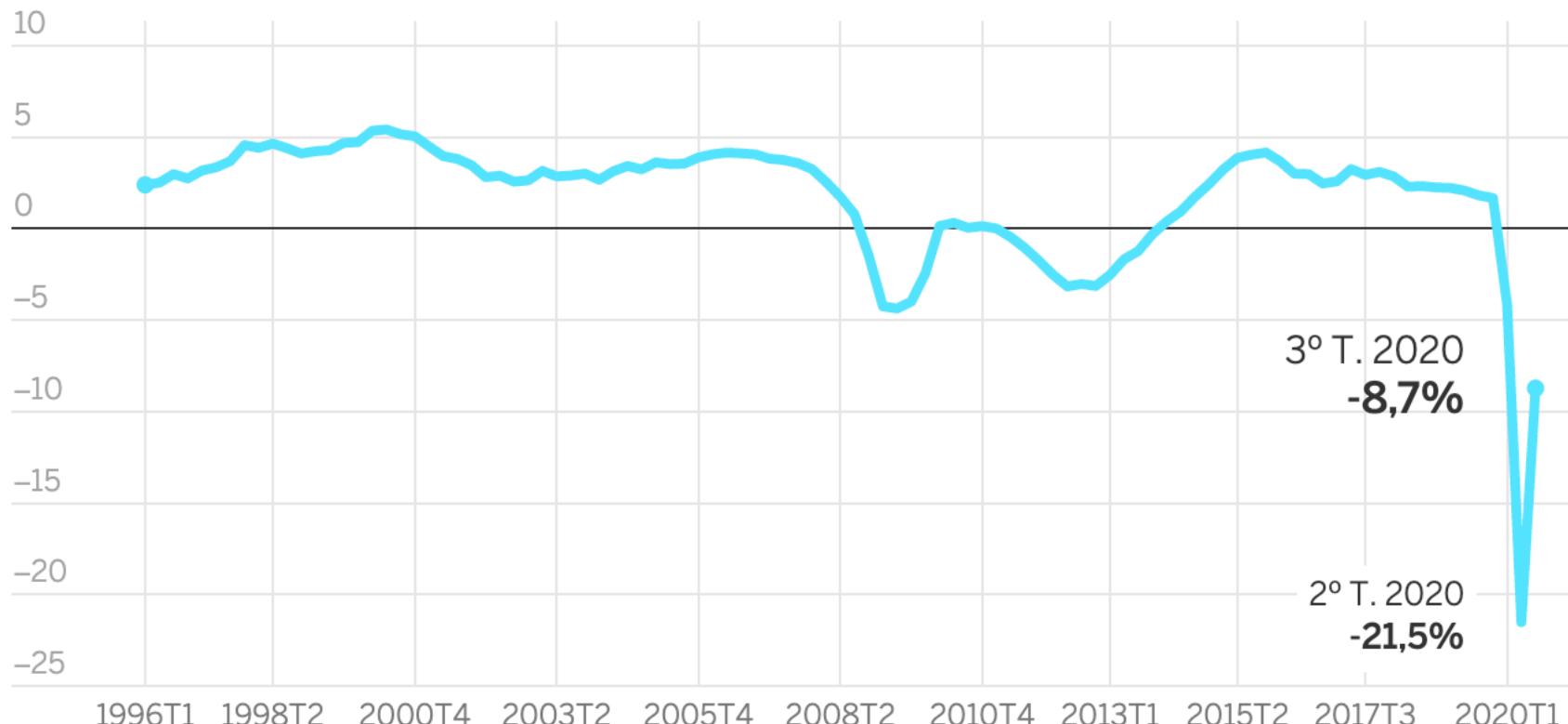
* Cambio metodológico

Fuente: INE.

EL PAÍS

PIB anual de España

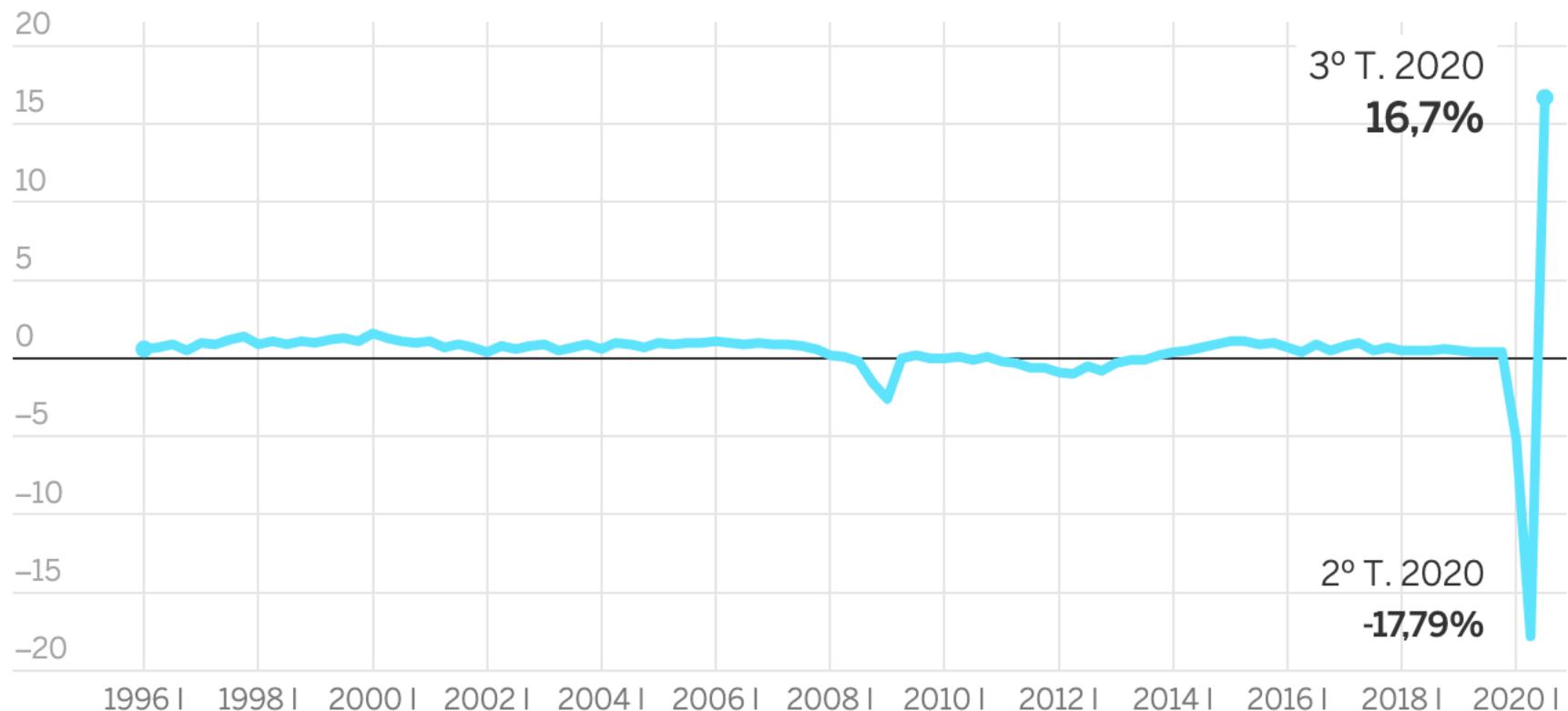
Variación anual en %



Fuente: INE .

PIB trimestral de España

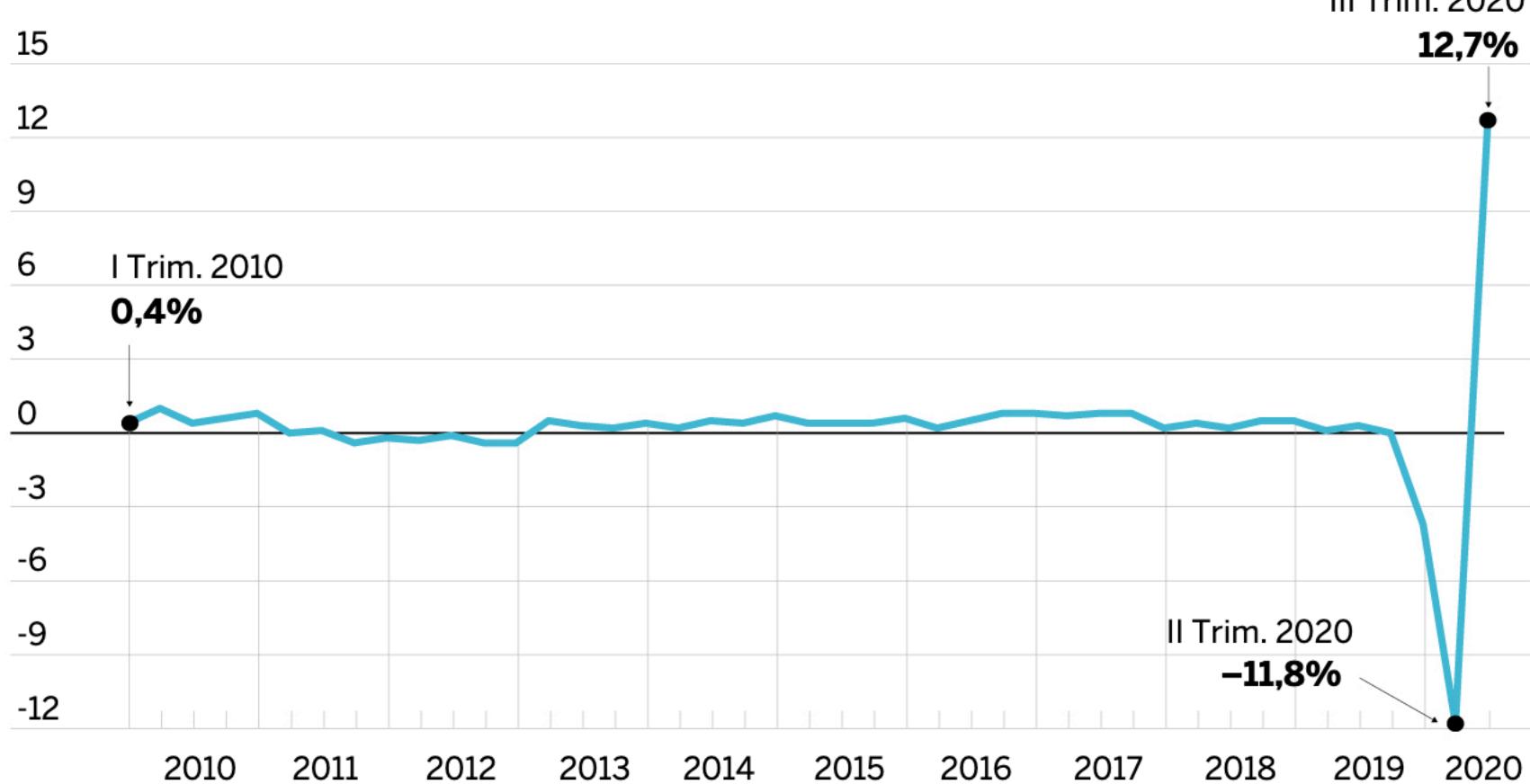
Variación trimestral en %



Fuente: INE . - EL PAÍS

PIB de Europa-19

Variación trimestral en %



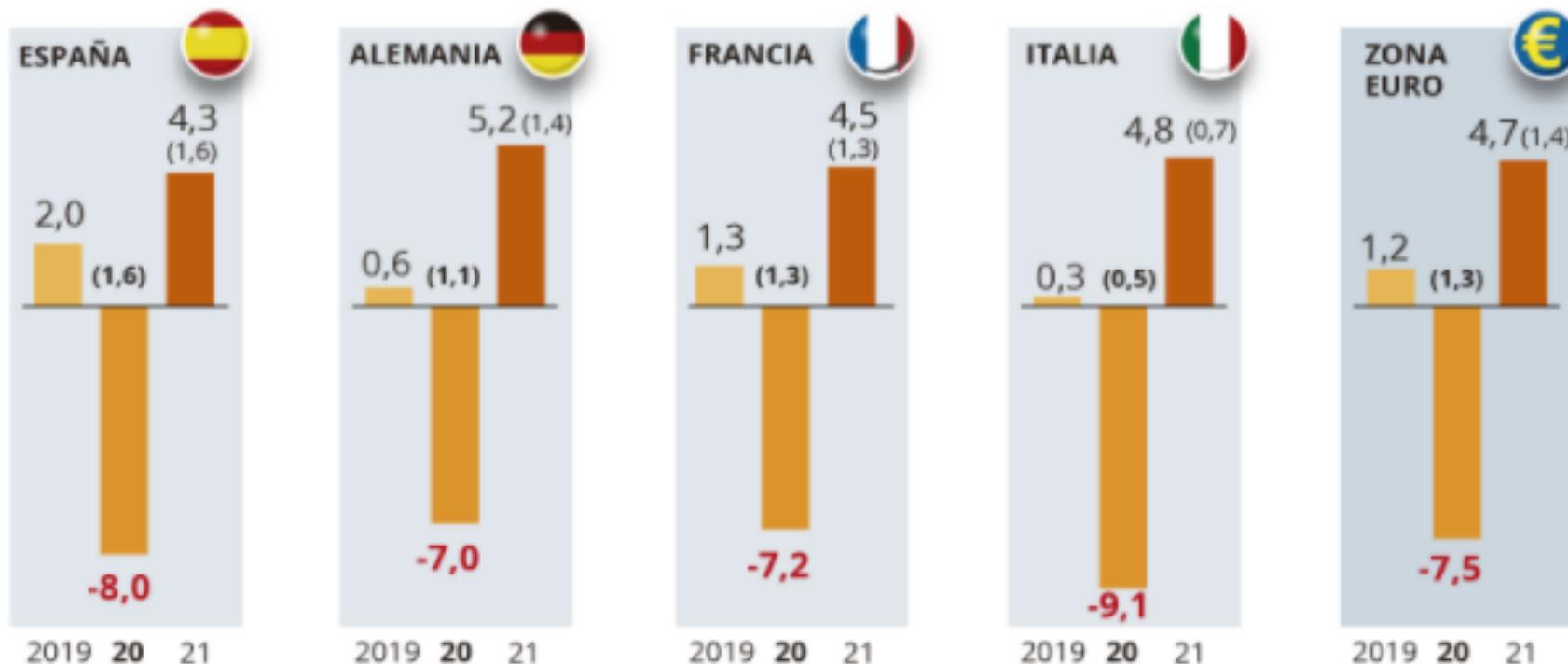
Fuente: Eurostat.

EL PAÍS

LAS PREVISIONES DEL FMI

CRECIMIENTO DEL PIB EN PORCENTAJE.

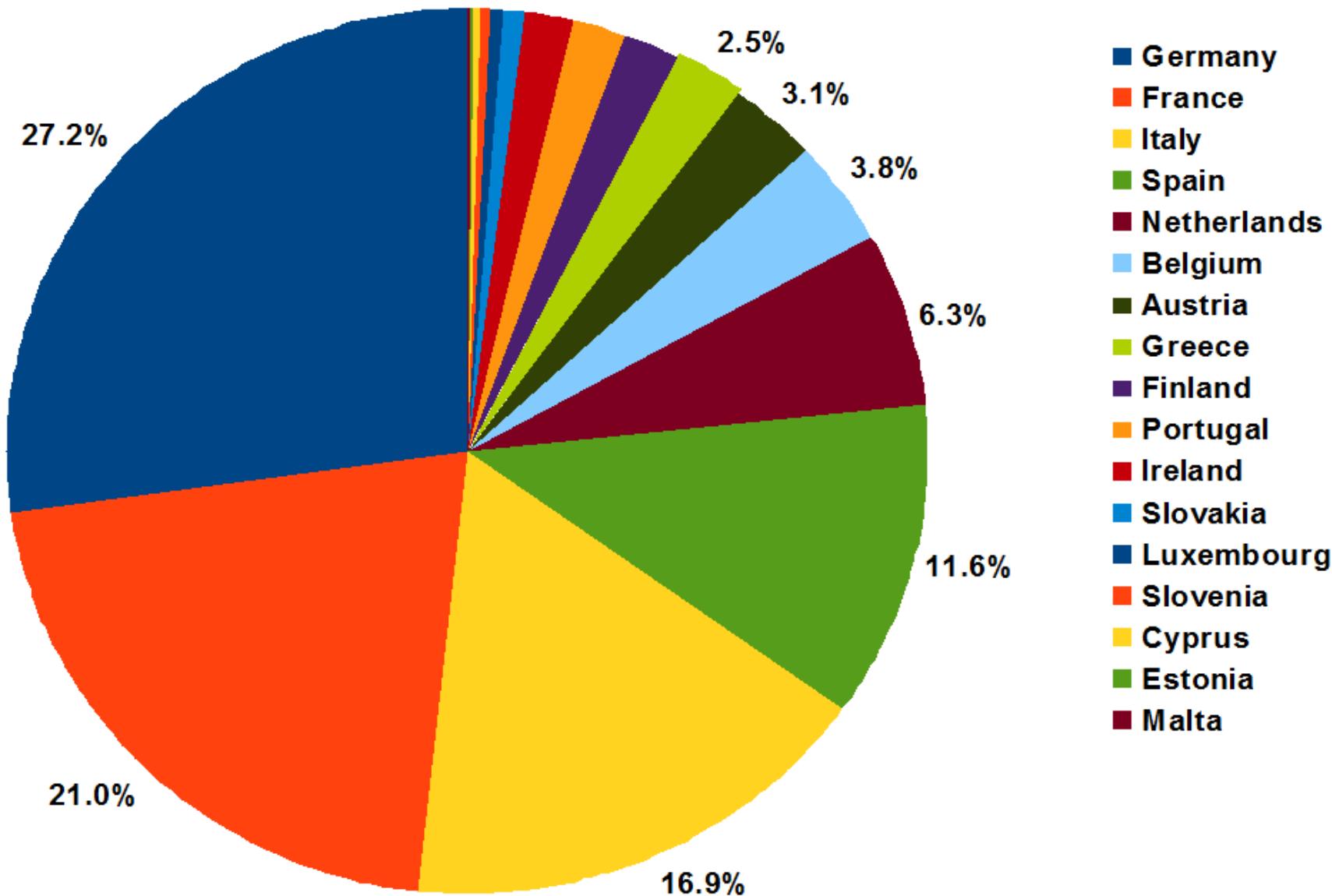
ENTRE PARÉNTESIS, LA PREVISIÓN QUE HIZO EL FMI EN ENERO DEL 2020



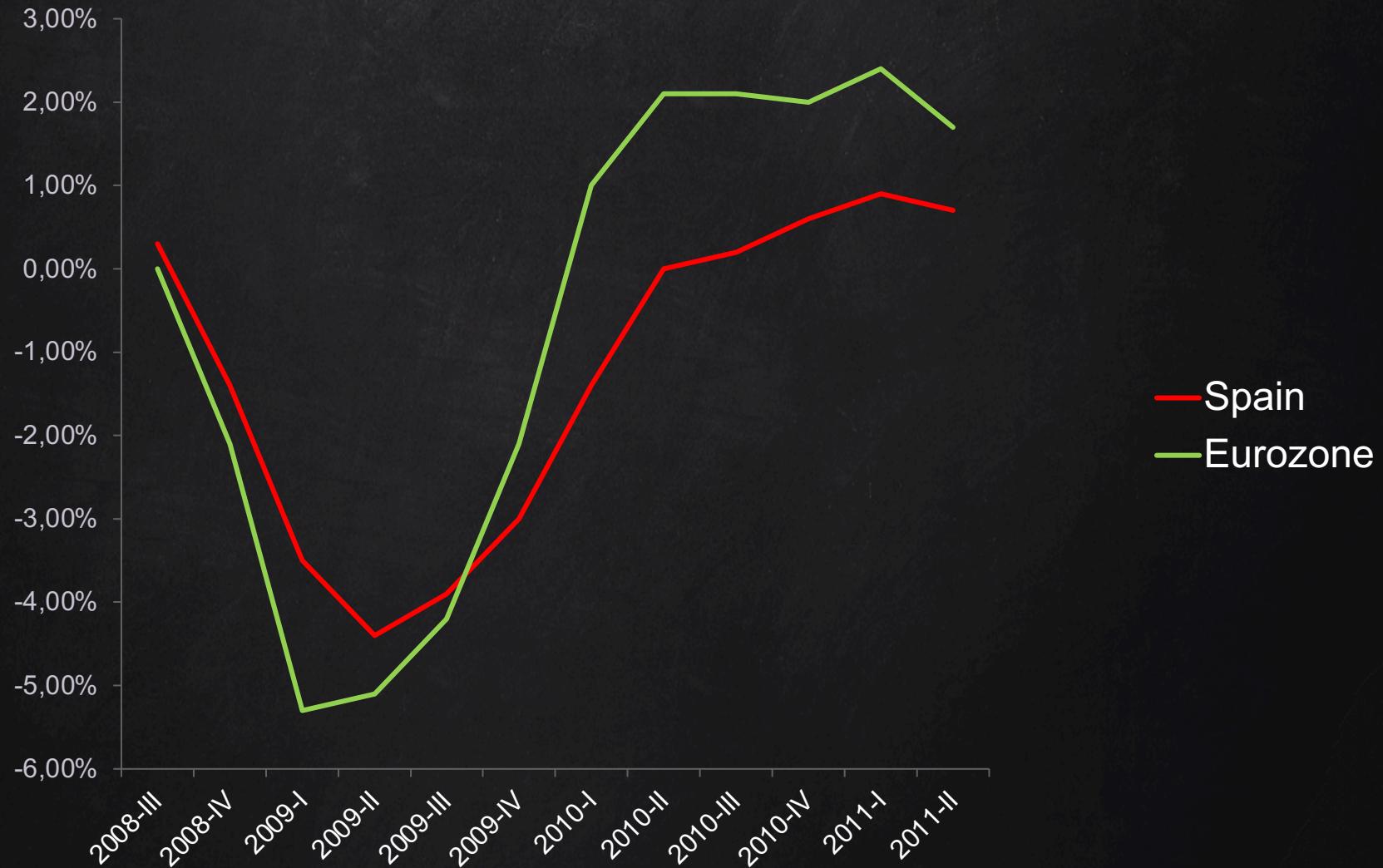
Fuente: FMI

@elperiodico / @EPGraficos

The Eurozone - Percentage of GDP by Nation (2010)

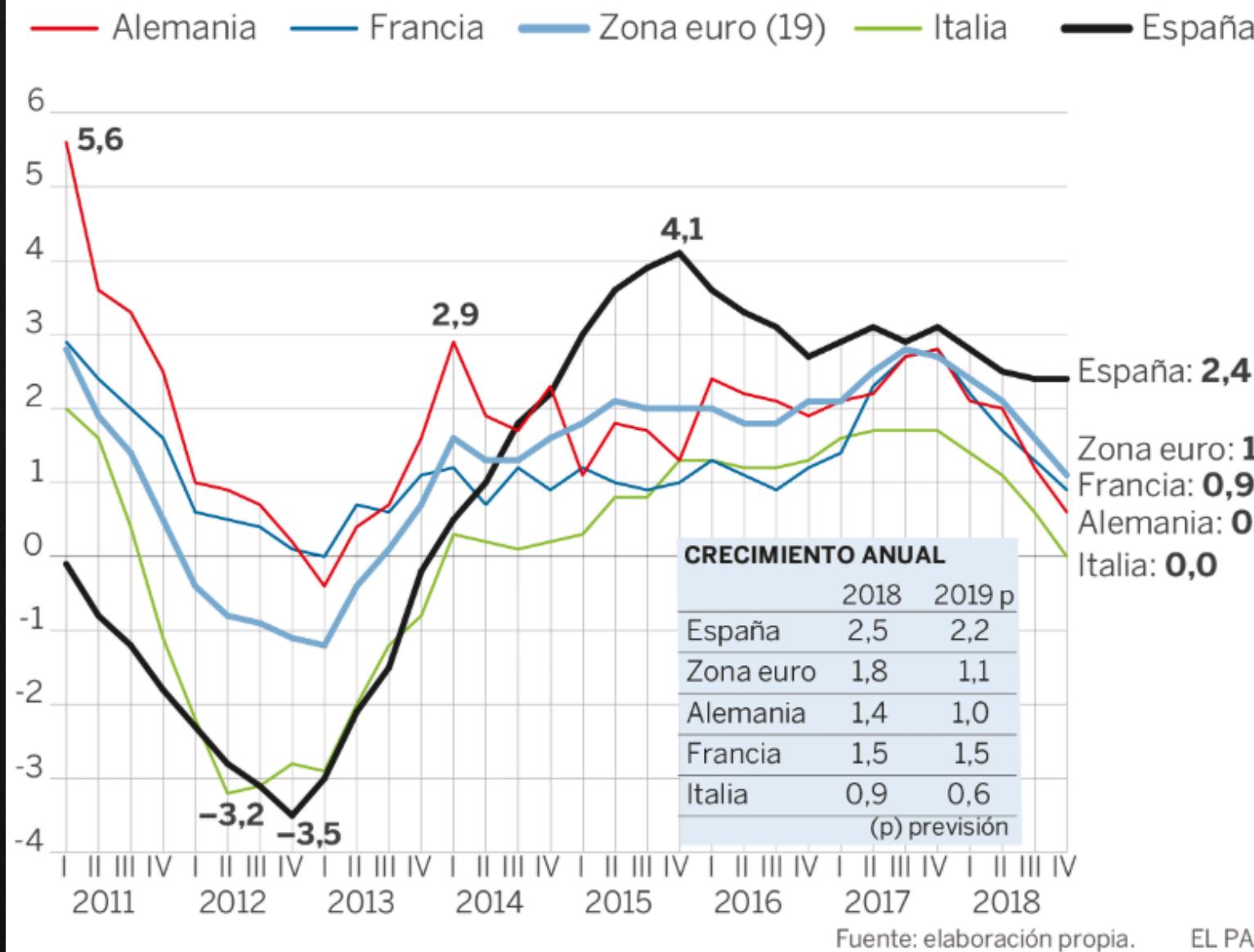


Spain and Eurozone GDP (year 2000=100)



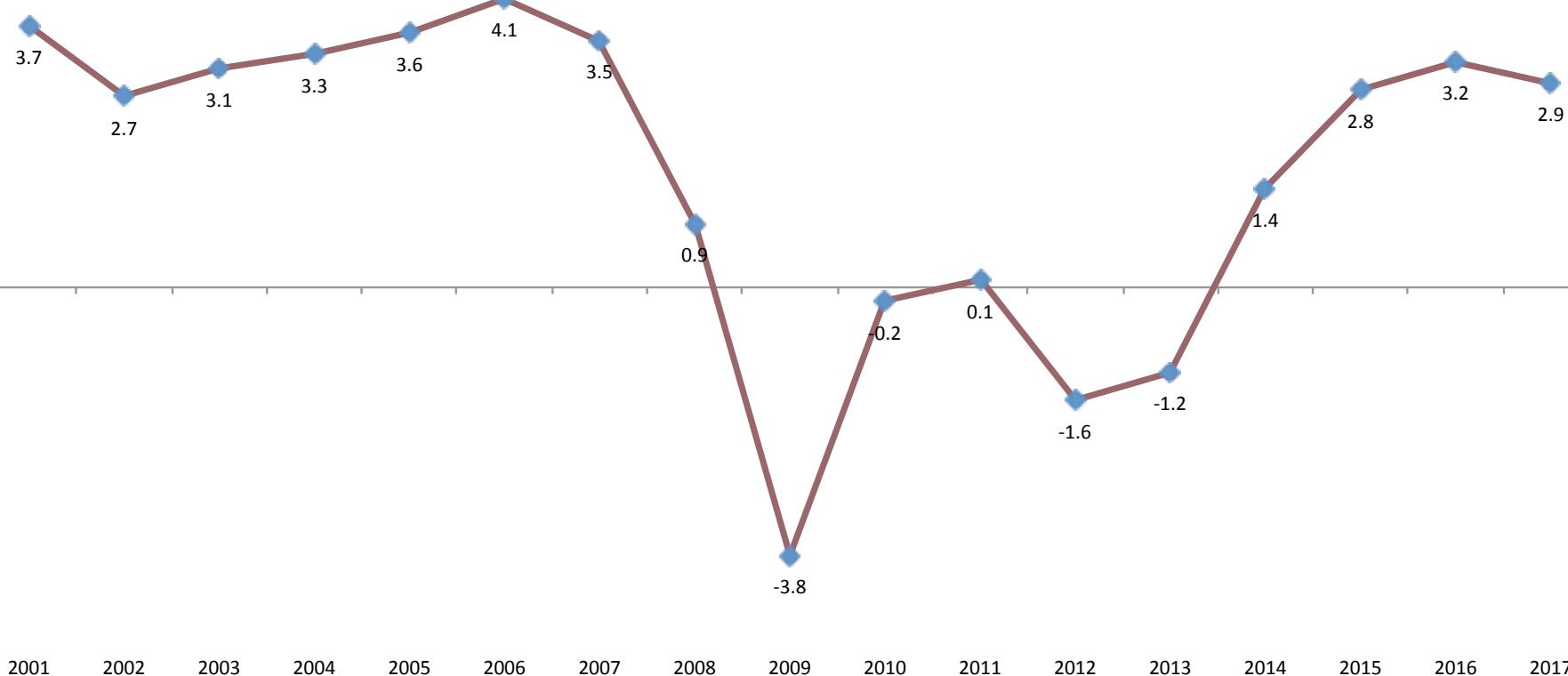
EVOLUCIÓN DEL PIB

Variación trimestral interanual en %



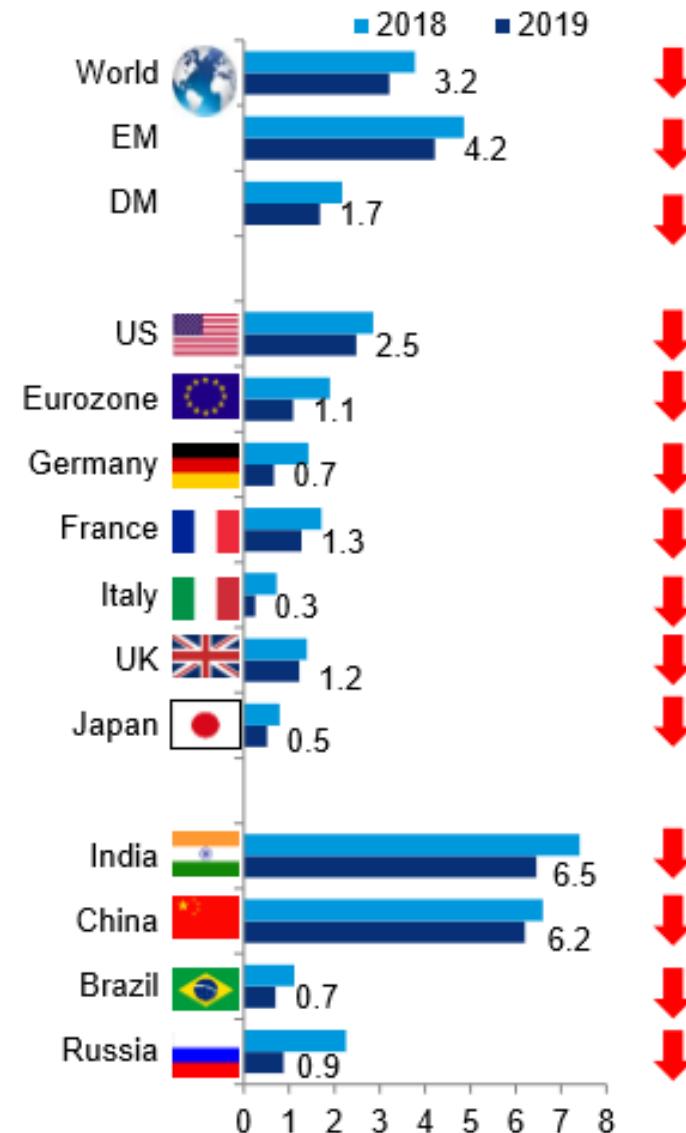
TEMA 1. CONCEPTES ECONÒMICS BÀSICS - CREIXEMENT

Spain GDP evolution



Source: Eurostat

Real GDP growth (%yoY)



Source: Deutsche Bank Research

TEMA 1. CONCEPTES ECONÒMICS BÀSICS - CREIXEMENT

Economic Growth

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Greece	2,3	4,5	4,3	1,3	-2,3	-4,5	-5,4	-7,3	-3,2	0,7	-1,1
Portugal	0,8	1,4	2,4	0	-2,5	1,4	-1,6	-4,0	-1,1	0,9	1,4
Ireland	6,0	5,3	5,6	-3,5	-7,6	-1	0,7	0,2	1,4	5,2	6,8
Iceland	7,5	4,6	6	1	-6,8	-3,5	3,1	1,2	3,9	1,8	1,9
Spain	3,6	4	3,6	0,9	-3,7	-0,1	0,7	-2,6	-1,6	1,3	3,4
Italy	0,7	2	1,5	-1,3	-5,0	1,3	0,4	-2,8	-1,7	-0,4	0,8
France	1,9	2,2	2,4	0,2	-2,6	1,5	1,7	0,2	0,7	0,2	1,1
Germany	0,8	3,4	2,7	1	-4,7	3,6	3	0,4	0,3	1,6	1,7
U.K.	2,2	2,8	2,7	-0,1	-4,9	1,4	0,7	1,2	2,2	2,9	2,2
U.S.A.	3,1	2,7	1,9	0	-2,6	2,9	1,7	2,3	2,2	2,4	2,9

Source: <http://www.datosmacro.com/pib/>

TEMA 1. CONCEPTES ECONÒMICS BÀSICS - CREIXEMENT

European Commission forecast on Growth and Unemployment (November 2015)

ECONOMIC GROWTH					UNEMPLOYMENT			
	2014	2015	2016	2017	2014	2015	2016	2017
Germany	1.6%	1.7%	1.9%	1.9%	5,0%	4.7%	4.9%	5.2%
France	0.2%	1.1%	1.4%	1.7%	10,3%	10.4%	10.4%	10.2%
Italy	-0.4%	0.9%	1.5%	1.4%	12.7%	12.2%	11.8%	11.6%
Spain	1.4%	3.1%	2.7%	2.4%	24.5%	22.3%	20.5%	19.0%
Greece	0.7%	-1.4%	-1.3%	2.7%	26.5%	25.7%	25.8%	24.4%
Portugal	0,9%	1.7%	1.7%	1.8%	14.1%	12.6%	11.7%	10.8%
Ireland	5.2%	6.0%	4.5%	3.5%	11.3%	9.5%	8.7%	7.9%
U.K.	2.9%	2.5%	2.4%	2.2%	6.1%	5.4%	5.4%	5.5%
Euro Zone	0.9%	1.6%	1.8%	1.9%	11,6%	11.0%	10.6%	10.3%

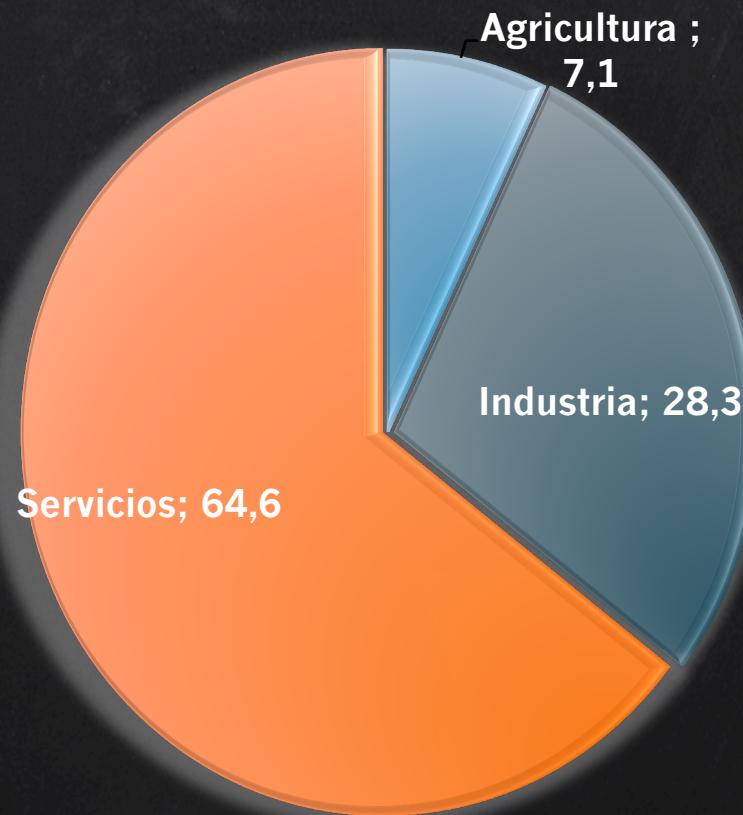
European Commission forecast on Budget Balance and Public Debt

	Budget Balance (%GDP)				Public Debt (%GDP)			
	2012	2013	2014	2015	2012	2013	2014	2015
Germany	-0,2	-0,2	0,3	0,9	81,7	80,8	78,4	71,4
France	-4,5	-3,5	-3,5	-3,8	90,0	92,7	93,8	96,5
Italy	-2,9	-2,1	-2,1	-2,6	117,6	122,5	119,2	133,0
Spain	-8	--6	-6,4	-4,7	86,1	92,7	97,1	100,8
Greece	--6,8	-5,5	-4,6	-4,6	176,7	188,4	188,9	194,8
Portugal	-5	-4,5	-2,5	-3,0	119,1	123,5	123,5	128,2
Ireland	-8,4	-7,5	-5	-2,2	117,6	122,5	119,2	99,8
U.K.	-6,2	-7,2	-5,9	-4,4	88,7	93,2	95,1	88,3
EU	-3,6	-3,2	-2,9	-2,0	86,8	88,5	94,5	94,0

SOURCE: EUROPEAN COMMISSION

TEMA 1. CONCEPTES ECONÒMICS BÀSICS - CREIXEMENT

COMPOSICIÓN SECTORIAL DEL PIB EN LA REP. DOM. (2010)

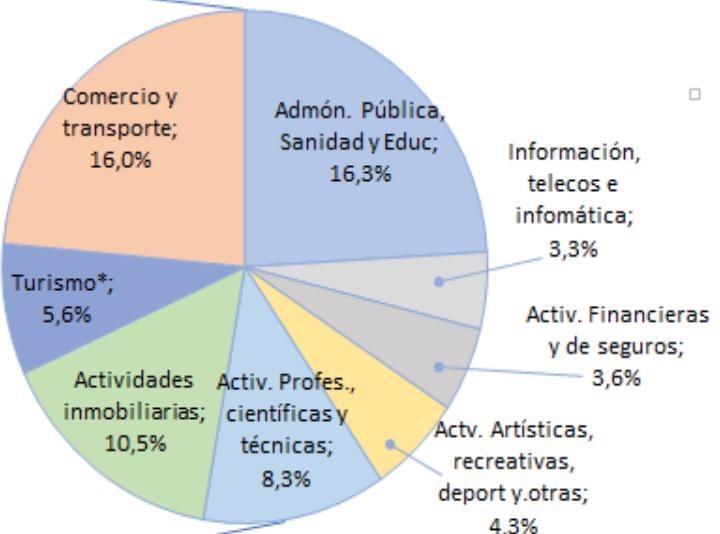
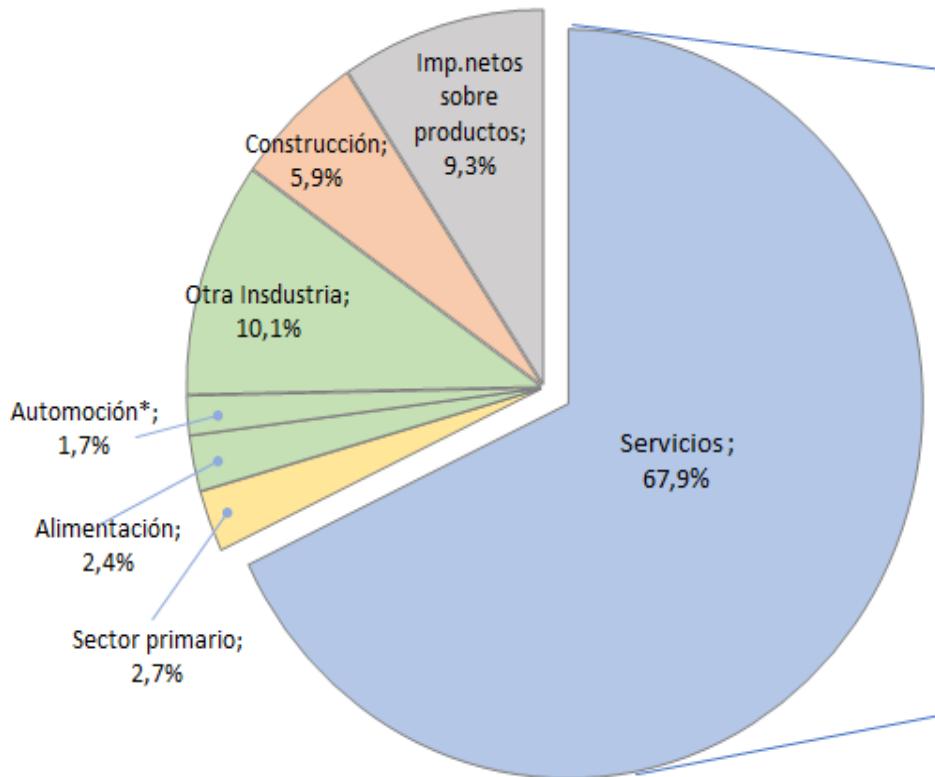


Fuente: BID

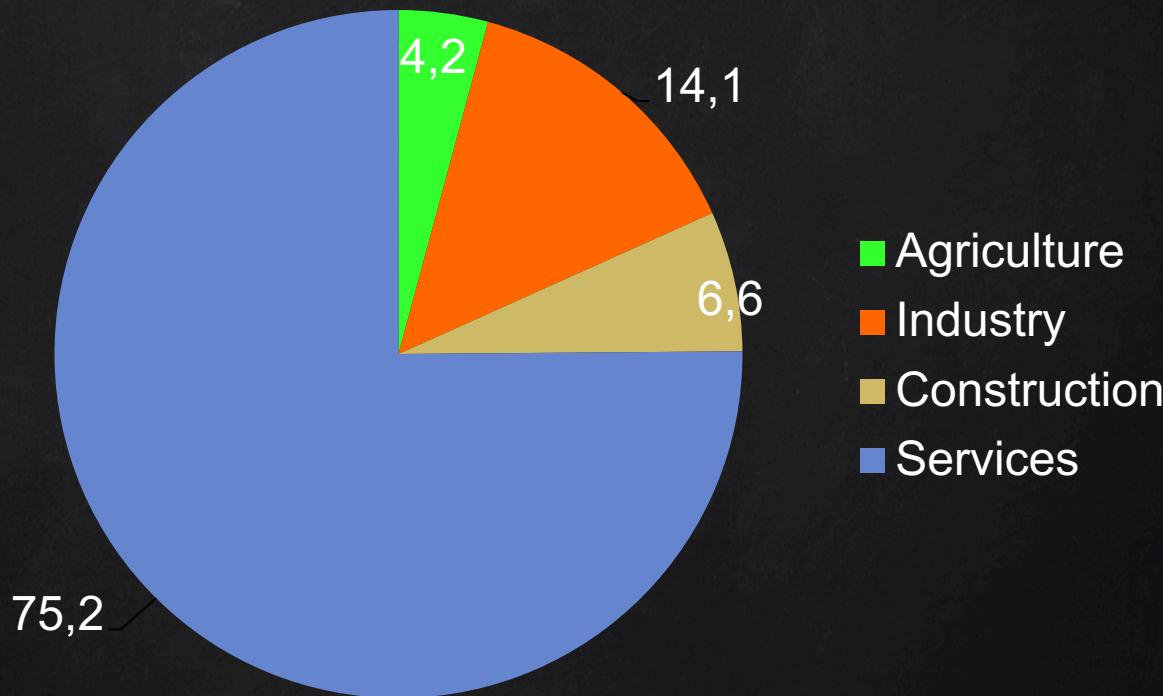
Total PIB 2019: 1.245.331 mill.€	%
Sector primario Agric., ramad., silvic.y pesca	2,7
Sector industrial	
Inds. Alimentación	2,4
Inds. Automoción (sin repar.)	1,7
Resto inds.	10,1
Construcción	5,9
Sector Servicios	
Turismo* (Alojamiento, comidas y bebidas)	5,6
Ss. comercio, transporte	16,0
Ss. Información, telecos e informática	3,3
Ss. Activ. Financieras y de seguros	3,6
Ss. Actividades inmobiliarias	10,5
Ss. Activ. Profes., científicas y técnicas	8,3
Ss. Admón. Pública, Sanidad y Educ	16,3
Ss. Act. Artísticas, recreativas, deportivas y otras	4,3
Imp.netos sobre productos	9,3

Fuente: INE y elaboración propia

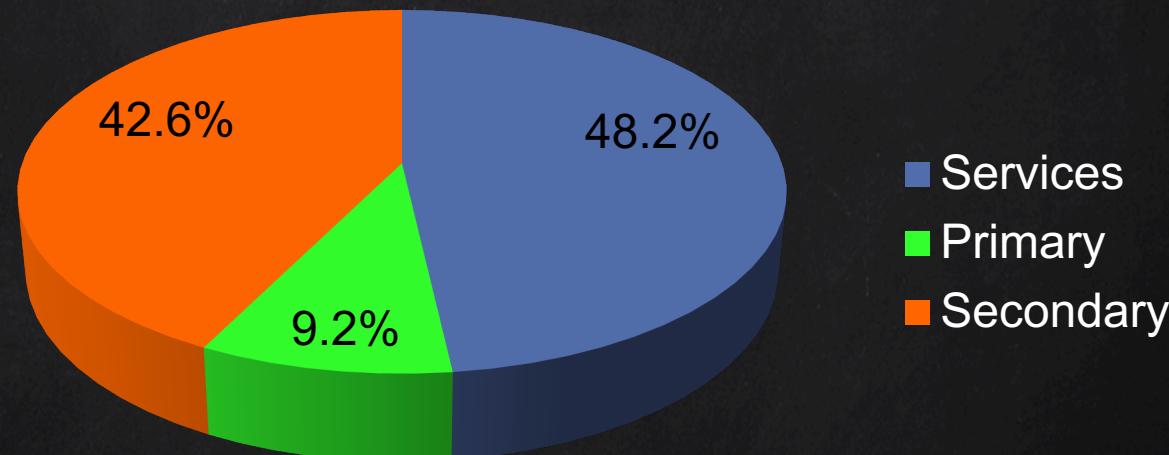
PIB ESPAÑA 2019



**Distribution of employed persons in Spain (2013)
by economic sector (%)**



China GDP sectorial distribution 2014



- Services
- Primary
- Secondary

Income from international tourism. 2011*

	US dollars	
	Thousands of millions	Interannual variation %
United States	116.1	12.2
Spain	59.9	14.1
France	54.5	16.2
China	48.5	5.9
Italy	43.0	10.8

* Provisional data.

Source: World Tourism Organization

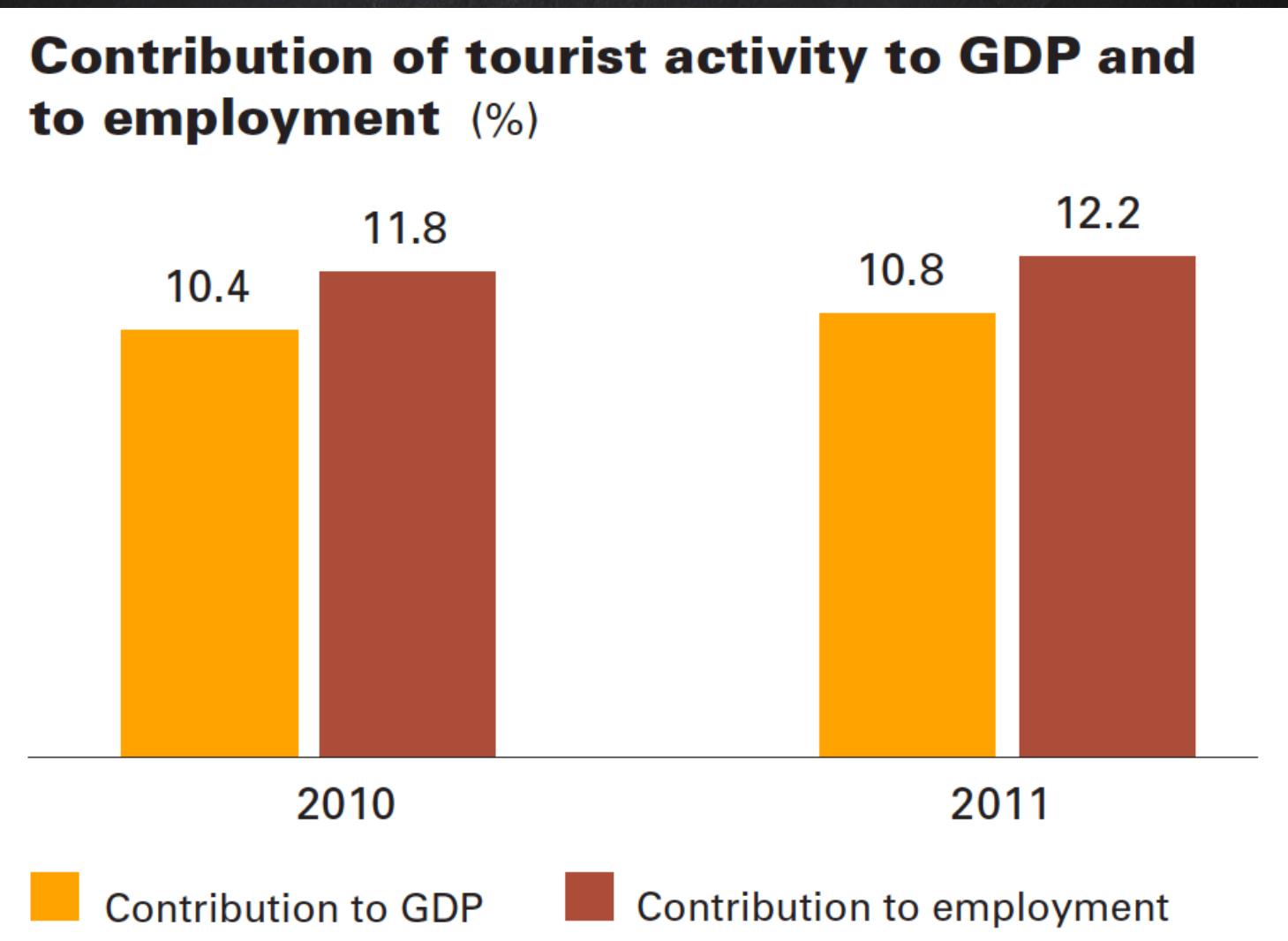
Spain holds second place worldwide in terms of income from international tourism, and first place within Europe



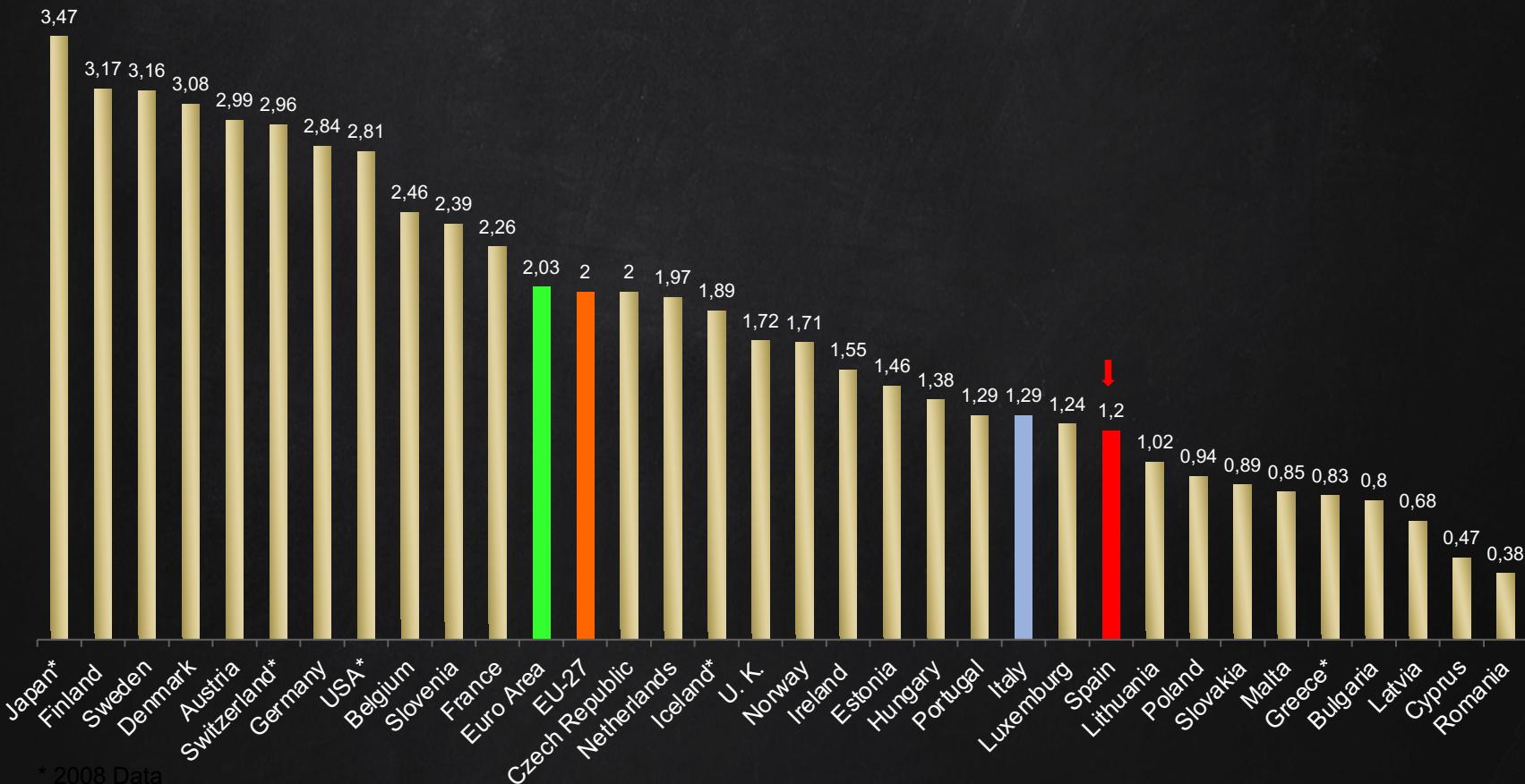
TOURISM

Contribution of tourist activity to GDP and to employment (%)

Tourism



Gross Domestic Expenditure on R+D (% share of GDP) 2015



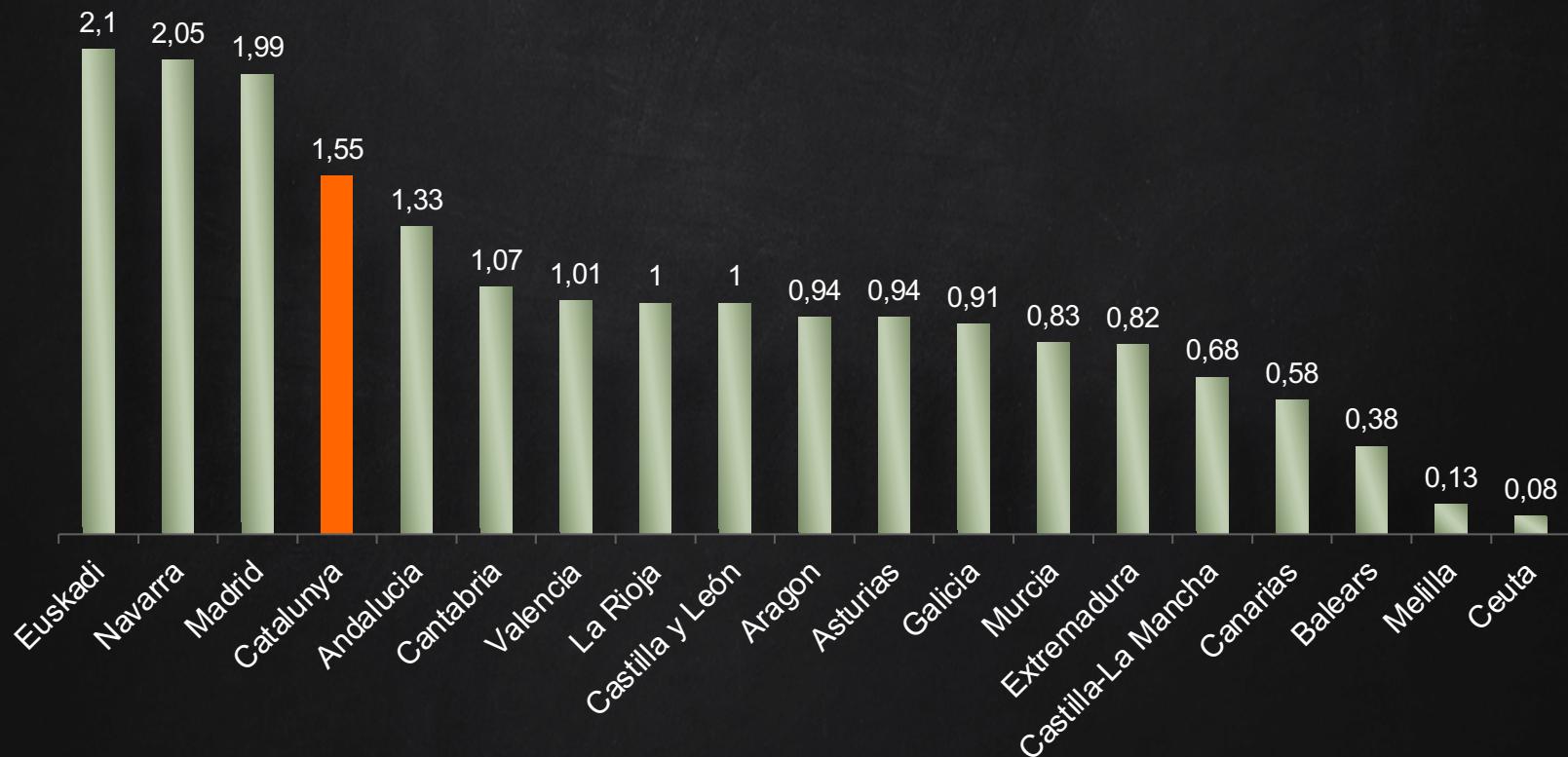
* 2008 Data

Source: Eurostat.

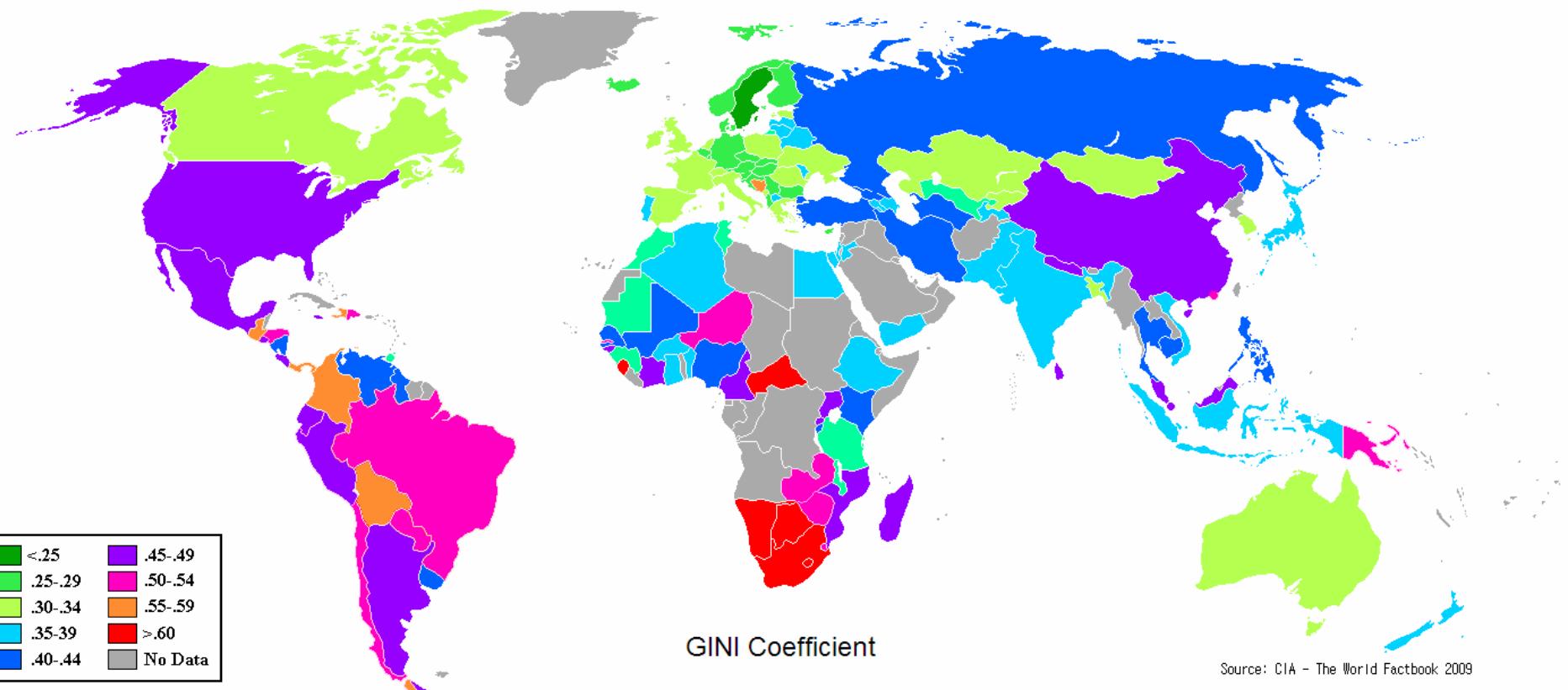
[http://epp.eurostat.ec.europa.eu/statistics_explained/index.php?title=File:Gross_domestic_expenditure_on_R%26D,_2000-2010_\(%25_share_of_GDP\).png&filetimestamp=20121016060906](http://epp.eurostat.ec.europa.eu/statistics_explained/index.php?title=File:Gross_domestic_expenditure_on_R%26D,_2000-2010_(%25_share_of_GDP).png&filetimestamp=20121016060906)

Expenditures on R+ D (2013)

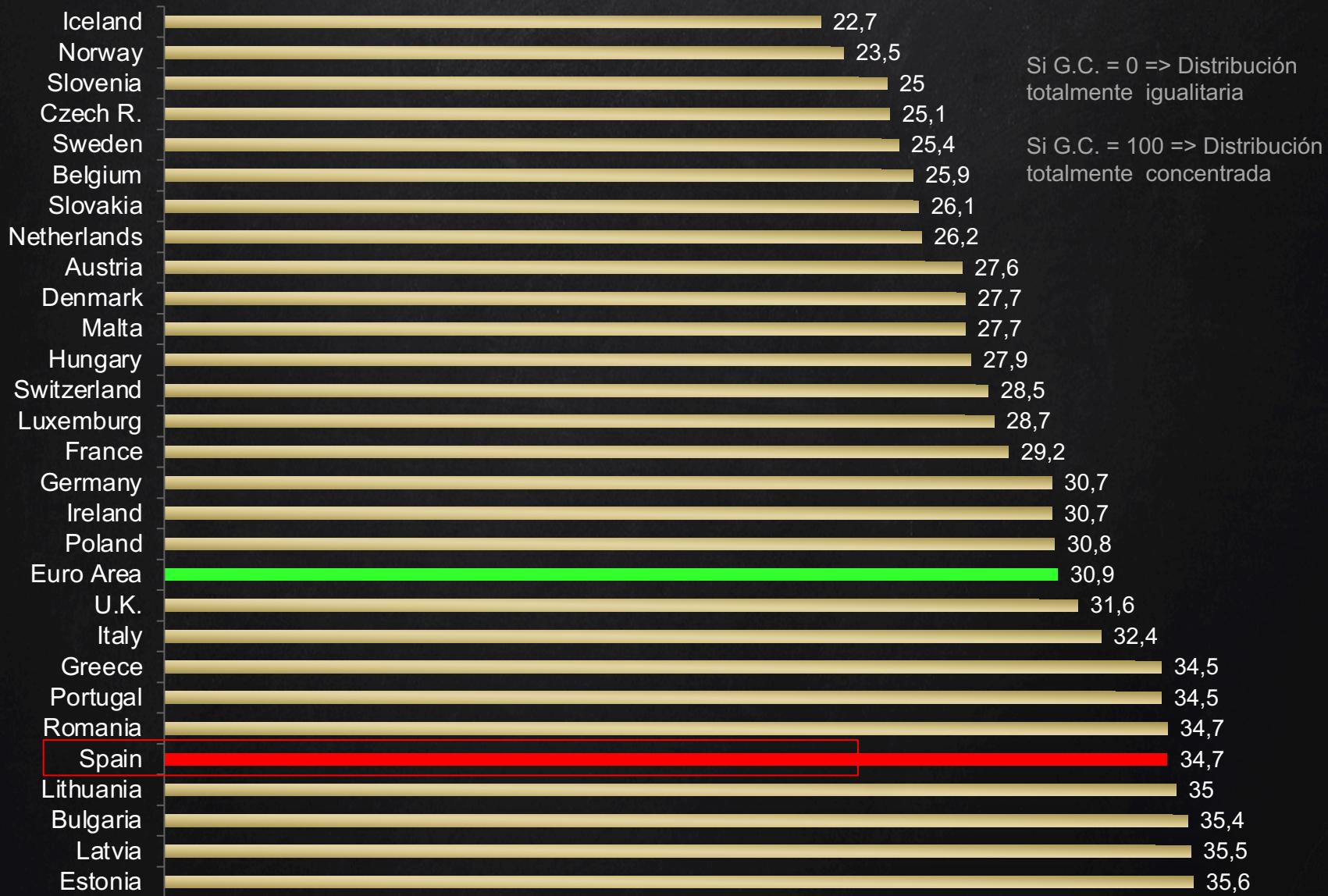
(% GDP)



TEMA 1. CONCEPTES ECONÒMICS BÀSICS – DISTRIBUCIÓ EQUITATIVA DE LA RENDA



TEMA 1. CONCEPTES ECONÒMICS BÀSICS – DISTRIBUCIÓ EQUITATIVA DE LA RENDA



Corba de Lorenz

La Curva de Lorenz es una representación gráfica de una función de distribución acumulada y se define matemáticamente como la proporción acumulada de los ingresos totales (eje y), que obtienen las proporciones acumuladas de la población (eje x).

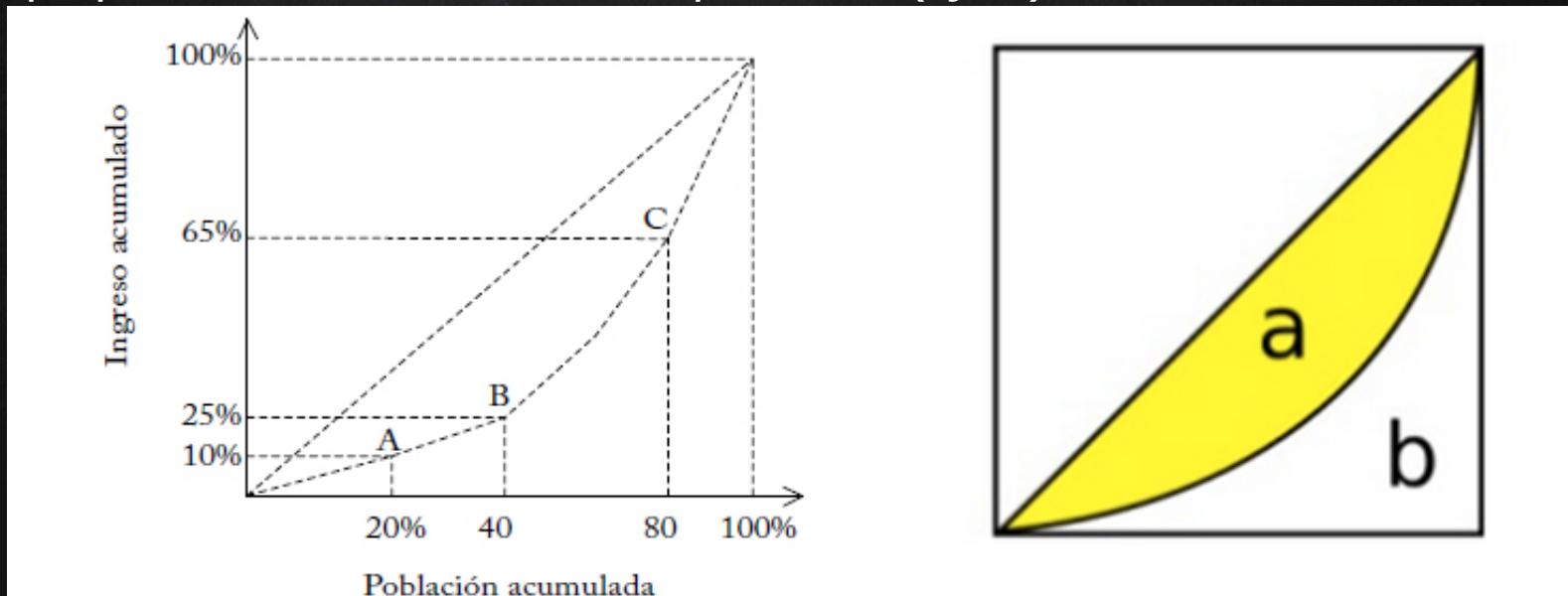


Diagrama que muestra el área “a” comprendida entre la curva de Lorenz y la bisectriz del cuadrado, dicha área es proporcional al coeficiente de Gini.

Coeficiente de Gini

El ideólogo y estadístico italiano Corrado Gini (1884 – 1965) desarrolló en 1912 un **método para medir la desigualdad** de una distribución. En ella introdujo el **valor 0** para expresar la igualdad total y el **valor de 1** para la máxima desigualdad. Este método se aplica en el estudio de la distribución de desigualdad en Ciencias de la Salud, ingeniería, ecología, química, transporte, etc. Pero quizás donde tiene su uso más característico es en el **estudio de la desigualdad de los ingresos** que se realiza en Economía.

El **Coeficiente de Gini** se basa en la **Curva de Lorenz**. La línea diagonal representa la **igualdad perfecta de los ingresos**: todos reciben la misma renta (el 20% de la población recibe el 20% de los ingresos; el 40% de la población el 40% de los ingresos, etc). En la situación de máxima igualdad o equidad distributiva, el Coeficiente de Gini es igual a cero (el área A desaparece): **a medida que aumenta la desigualdad, el Coeficiente de Gini se acerca al valor de 1**. Este coeficiente puede ser considerado como la proporción entre la zona que se encuentra **entre la línea de la igualdad y la curva de Lorenz** (marcada con "A" en el diagrama) sobre el área total bajo la línea de igualdad. Es decir, $G=A/(A+B)$. También es igual a A^2 , dado que $A+B=0.5$.



DISTRIBUCIÓN EQUITATIVA DE LA RENDA

EL AUMENTO DE LA DESIGUALDAD EN ESPAÑA

► COEFICIENTE GINI

(Este coeficiente mide la desigualdad entre los ciudadanos de los países)

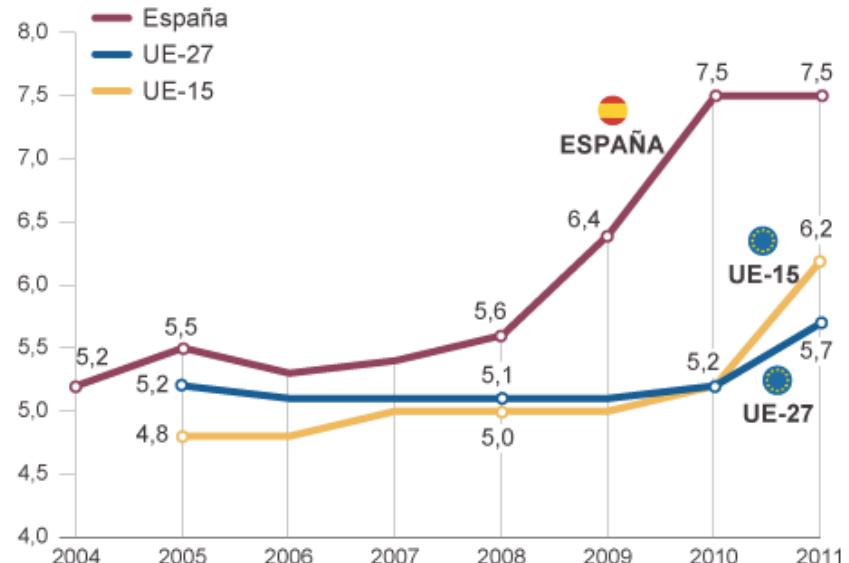
0 sería igualdad perfecta y 100 desigualdad absoluta



RATIO s80/20

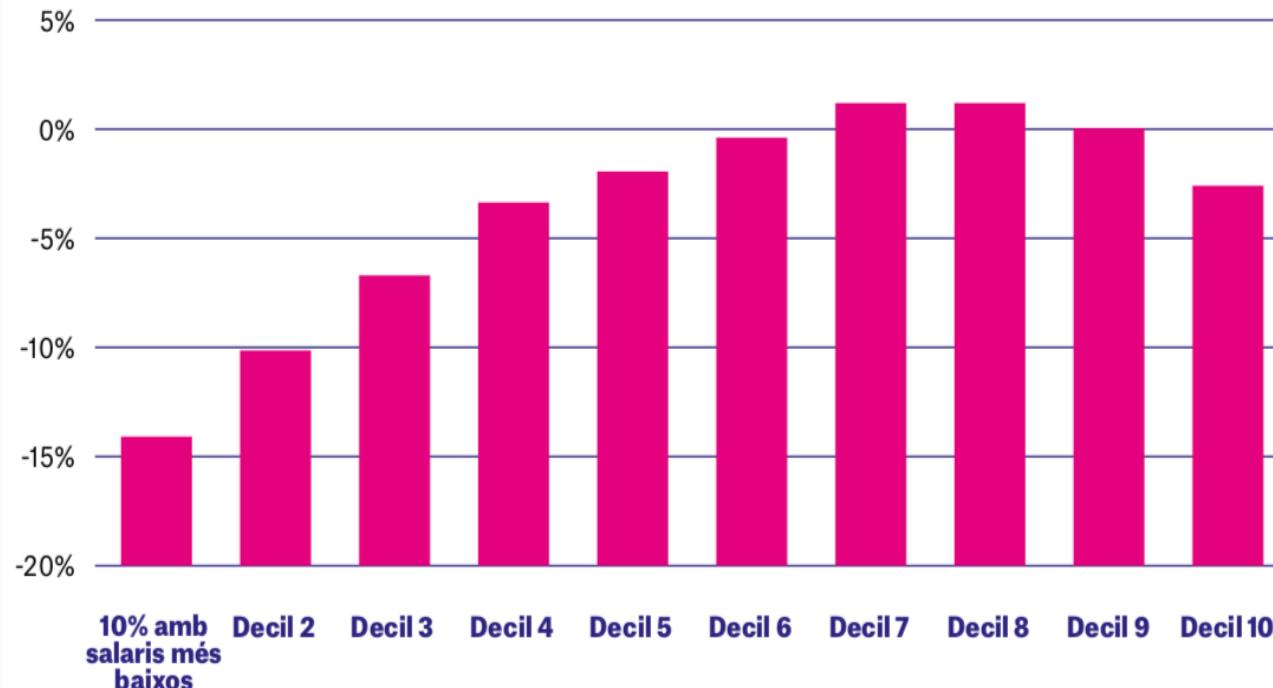
(Relación entre el 20% de la población que más ingresa y el 20% que menos)

Los valores más altos indican mayor desigualdad



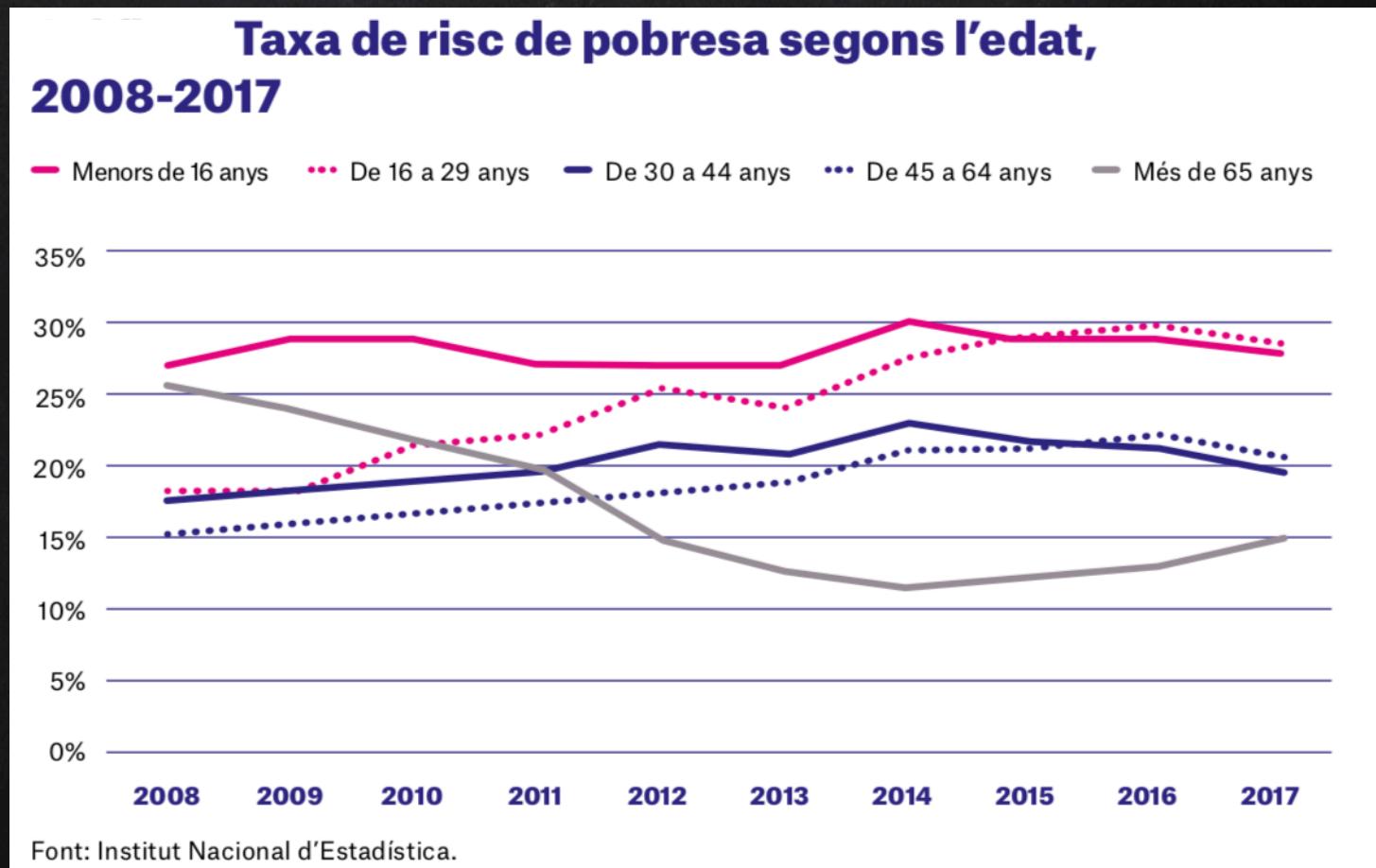
L'augment de la desigualtat salarial a Espanya

Evolució dels salariis reals per decil salarial, 2008-2016



Font: Institut Nacional d'Estadística.

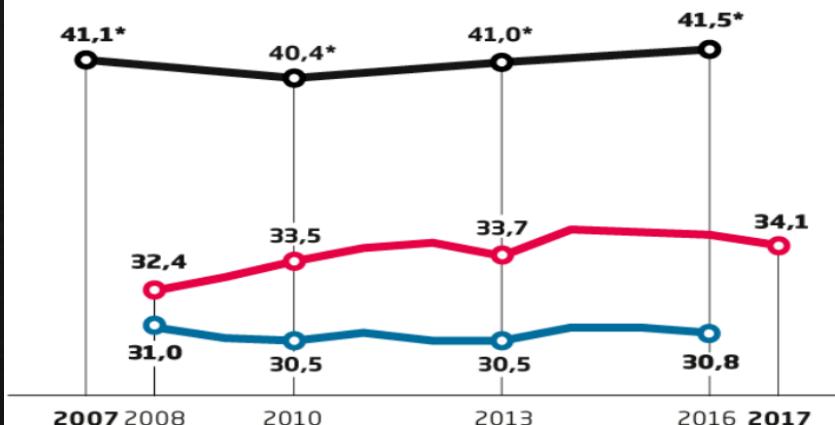
Taxa de risc de pobresa a Espanya



ESPAÑA, ENTRE ELS MÉS DESIGUALS D'EUROPA

ÍNDEX GINI

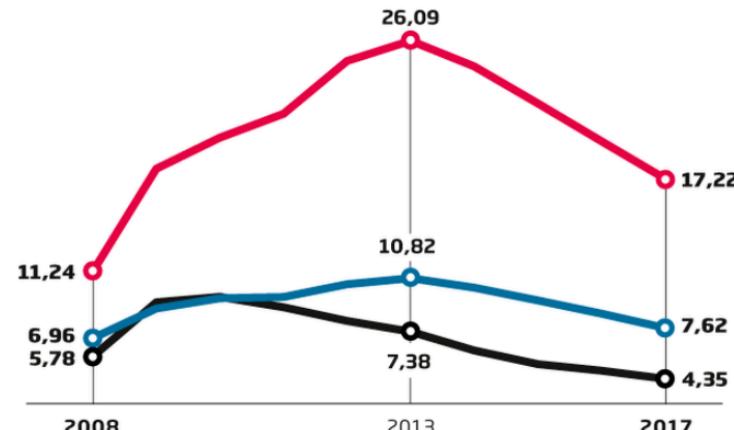
L'Índex Gini es mesura entre 0 i 100
(0 és igualtat total i 100 màxima desigualtat)



*El Banc Mundial no dona detalls de cada any, sinó d'intervals de tres anys

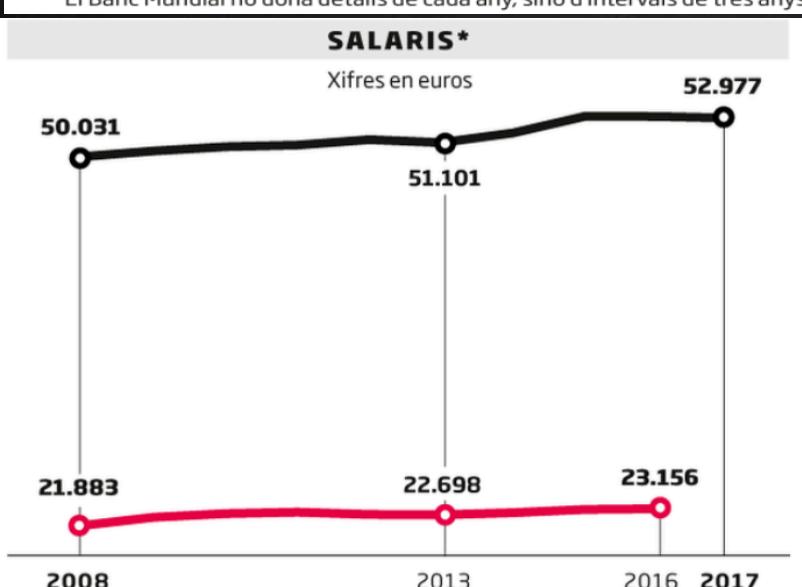
TAXA D'ATUR

Xifres en percentatges



SALARIS*

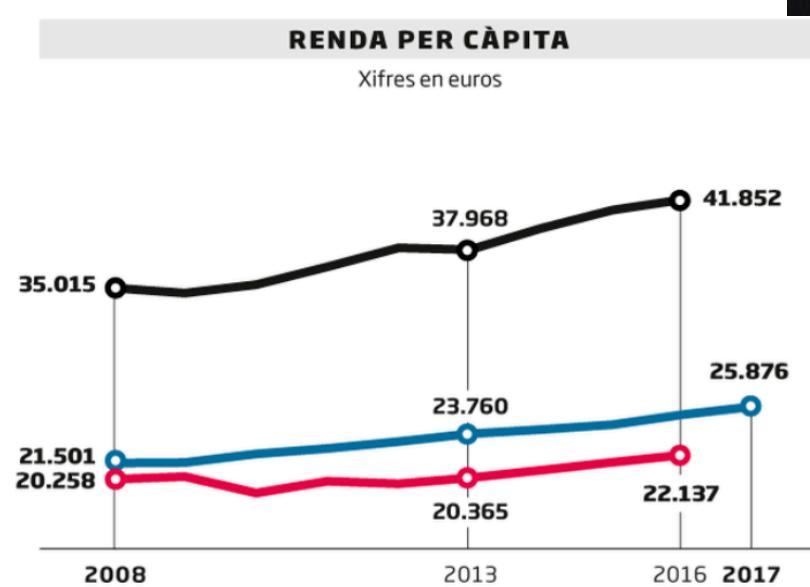
Xifres en euros



*Eurostat no facilita la mitjana de la Unió Europea

RENDA PER CÀPITA

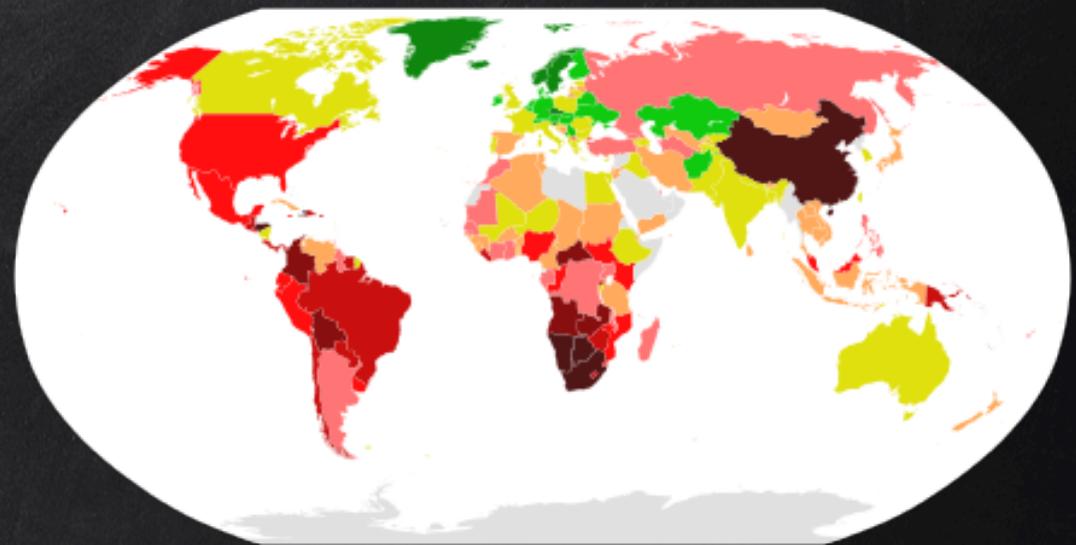
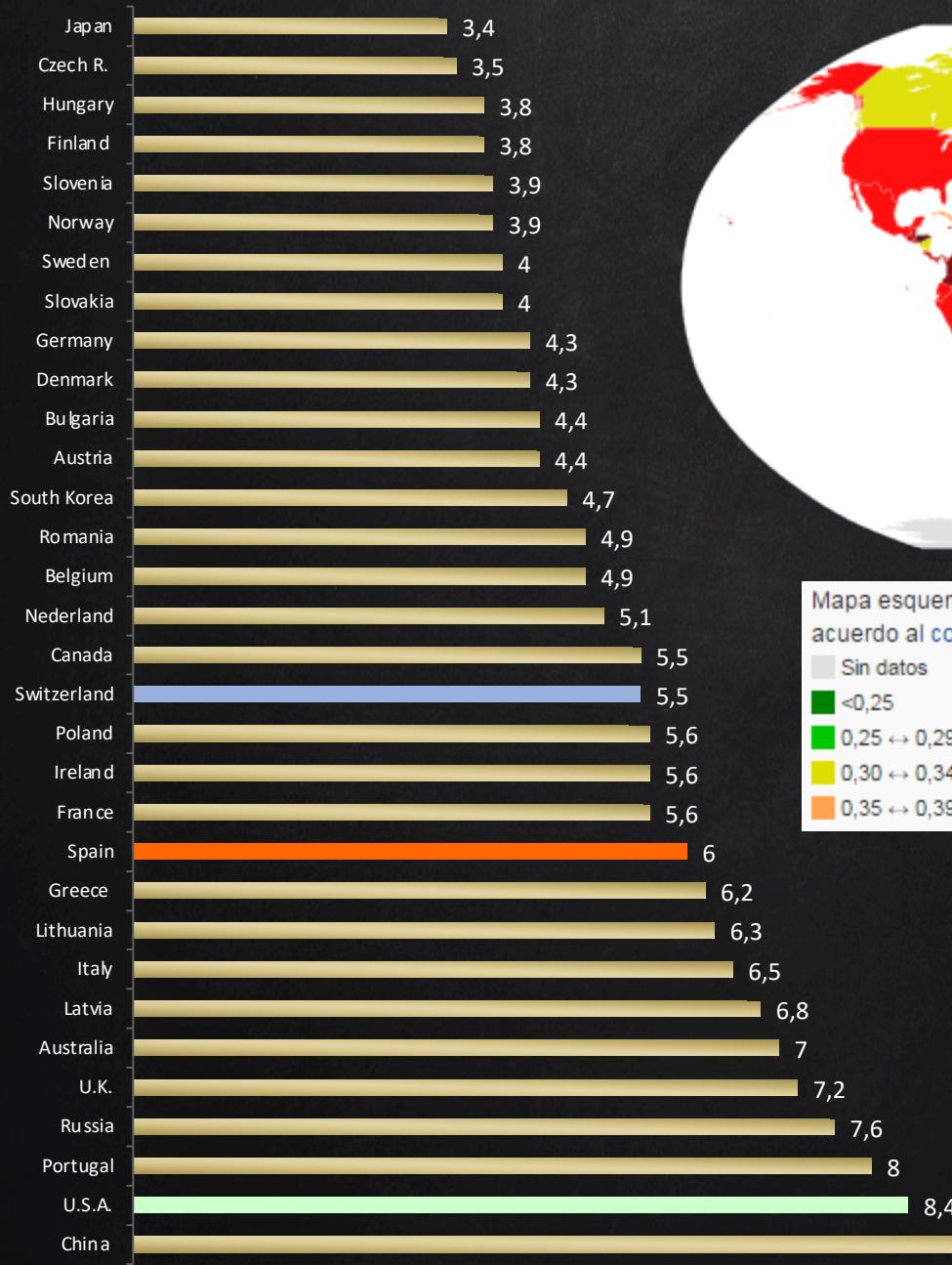
Xifres en euros



Font: Eurostat, Banc Mundial, INE, OCDE / Gràfic: M. Asín

— Espanya — Unió Europea — Estats Units

Countries by Income equality (2013)

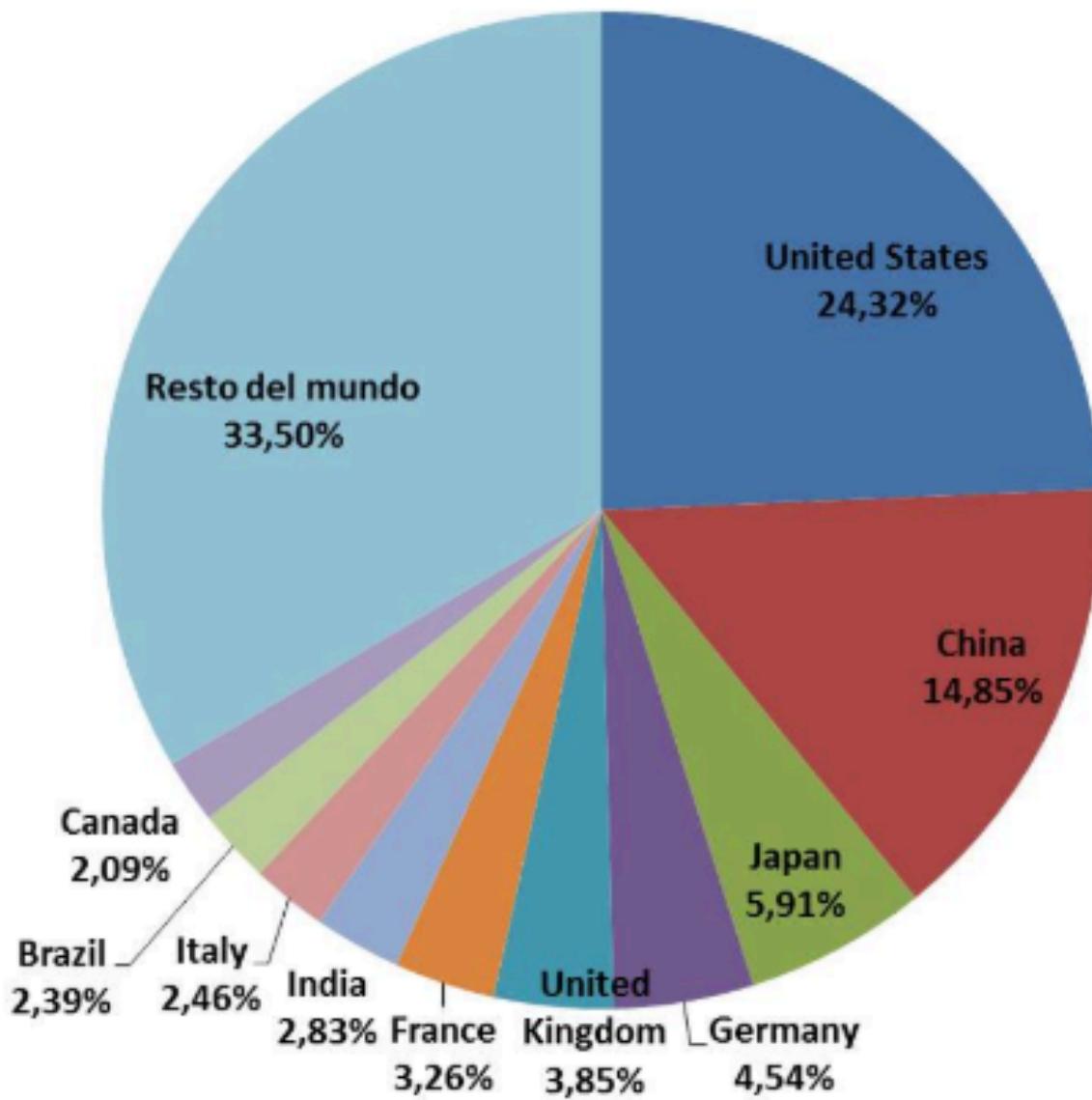


Mapa esquemático de países según su nivel de igualdad de ingreso, de acuerdo al coeficiente de Gini.



Ratio of average income
of the richest 20% to the
poorest 20%

% Distribución del PIB global 2020



Fuente: Banco Mundial / cálculos Dinero

The world's largest economies GDP for 2014

IN MILLIONS OF CURRENT DOLLARS

Abr.	Oct.	País	2014
1	1	USA	17.416.253
2	2	China	10.355.350
3	3	Japan	4.769.804
4	4	Germany	3.820.464
5	5	France	2.902.330
6	6	United Kingdom	2.847.604
7	7	Brasil	2.244.131
8	8	Italy	2.129.276
9	9	Russian	2.057.301
10	10	India	2.047.811
11	11	Canada	1.793.797
12	12	Australia	1.482.539
14	13	South Corea	1.449.494
13	14	Spain	1.400.483
15	15	Mexico	1.295.860
17	16	Netherlands	880.394

MILLION DOLLARS ADJUSTED THE PURCHASING POWER PARITY

Abr.	Oct.	País	2014
2	1	China	18.088.411
1	2	USA	17.348.075
3	3	India	7.411.093
4	4	Japan	4.767.157
5	5	Germany	3.748.094
6	6	Russian	3.576.841
7	7	Brasil	3.275.799
15	8	Indonesia	2.685.893
9	9	France	2.591.170
8	10	United Kingdom	2.569.218
10	11	México	2.148.884
11	12	Italy	2.135.359
12	13	South Corea	1.783.950
18	14	Saudí Arabia	1.609.628
13	15	Canada	1.595.975
14	16	Spain	1.572.112

RANK	ECONOMY	GDP PPP (US\$)	FROM 2008	2019-2020
1.	China	\$27,804,953,000,000	+1.8%	+177.5%
2.	United States	\$20,289,987,000,000	-5.3%	+37.9%
3.	India	\$11,321,280,000,000	+2.5%	+159.9%
4.	Japan	\$5,451,452,000,000	-4.6%	+22.1%
5.	Russia	\$4,176,350,000,000	-4.9%	+26.8%
6.	Germany	\$4,160,925,000,000	-6.4%	+27.8%
7.	Indonesia	\$3,778,134,000,000	+1.1%	+114.1%
8.	Brazil	\$3,316,920,000,000	-4.7%	+29.6%
9.	United Kingdom	\$2,975,557,000,000	-5.9%	+29.1%
10.	France	\$2,860,018,000,000	-6.6%	+23.6%
11.	Mexico	\$2,458,339,000,000	-6%	+38.1%
12.	South Korea	\$2,307,718,000,000	-0.6%	+64.9%
13.	Turkey	\$2,257,987,000,000	-4.4%	+91%
14.	Italy	\$2,244,767,000,000	-8.6%	+5.6%
15.	Saudi Arabia	\$1,869,288,000,000	-1.7%	+60.7%
16.	Canada	\$1,797,170,000,000	-5.6%	+35.2%
17.	Spain	\$1,780,996,000,000	-7.4%	+17.5%
18.	Egypt	\$1,427,432,000,000	+2.6%	+87.5%
19.	Iran	\$1,411,093,000,000	-5.4%	+17.1%
20.	Taiwan	\$1,293,972,000,000	-3.4%	+60.5%

Source:

<https://richestcountryreports.com/top-100-richest-countries-by-gdp/>

World biggest Economies GDP (PPP) 2017		
1	China	23,300,783
2	United States	19,390,604
3	India	9,448,659
4	Japan	5,487,161
5	Germany	4,187,583
6	Russia	3,817,201
7	Indonesia	3,242,769
8	Brazil	3,240,524
9	U. Kingdom	2,896,833
10	France	2,871,264
11	Italy	2,410,985
12	Mexico	2,344,197
13	Turkey	2,254,114
14	Korea	1,969,106
15	Spain	1,773,972
16	A. Saudi	1,773,549
17	Canada	1,702,435
18	Iran	1,700,356
19	Thailand	1,233,736
20	Australia	1,157,298

Source: World Bank

countries by GDP (PPP) per capita 2017		
1	Quatar	128,378
	Macau	115,123
2	Luxembourg	103,662
3	Singapore	93,905
4	Brunei	78,836
5	Ireland	76,305
6	U. Arab Emirates	73,879
7	Kuwait	71,943
8	Switzerland	65,006
9	San Marino	62,425
	Hong Kong	61,54
10	Norway	60,978
11	United States	59,532
12	Arabia Saudi	53,845
13	Iceland	53,518
14	Netherlands	52,941
15	Austria	52,558
16	Germany	50,715
17	Denmark	50,541
18	Sweden	50,07
19	Belgium	47,561
20	Bahrein	47,527
21	Australia	47,047
22	Canada	46,378
23	Finland	45,192
24	U. Kingdom	43,877
25	Japan	43,876
26	France	42,779
27	Oman	41,675
	E. Union	41,091
28	New Zealand	40,917
29	Italy	39,817
30	Malta	39,534
31	Israel	38,413
32	South Korea	38,26
33	Spain	38,091

Source: World Bank

countries by GDP (PPP) per capita 2017		Wealth Origin	
1	Quatar	128,378	Oil & Gas
	Macau	115,123	Tax haven (Sink OFC)
2	Luxembourg	103,662	Top 10 Tax haven (Sink OFC)
3	Singapore	93,905	Top 10 Tax haven (Conduit OFC)
4	Brunei	78,836	Oil & Gas
5	Ireland	76,305	Top 10 Tax haven (Conduit OFC)
6	J. Arab Emirates	73,879	Oil & Gas
7	Kuwait	71,943	Oil & Gas
8	Switzerland	65,006	Top 10 Tax haven (Conduit OFC)
9	San Marino	62,425	Tax haven (Sink OFC)
—	Hong Kong	61,54	Top 10 Tax haven (Sink OFC)
10	Norway	60,978	Oil & Gas
11	United States	59,532	
12	Arabia Saudi	53,845	Oil & Gas
13	Iceland	53,518	
14	Netherlands	52,941	Top 10 Tax haven (Conduit OFC)
15	Austria	52,558	
16	Germany	50,715	
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18	Sweden	50,07	
19	Belgium	47,561	
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22	Canada	46,378	
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—	E. Union	41,091	
28	New Zealand	40,917	
29	Italy	39,817	
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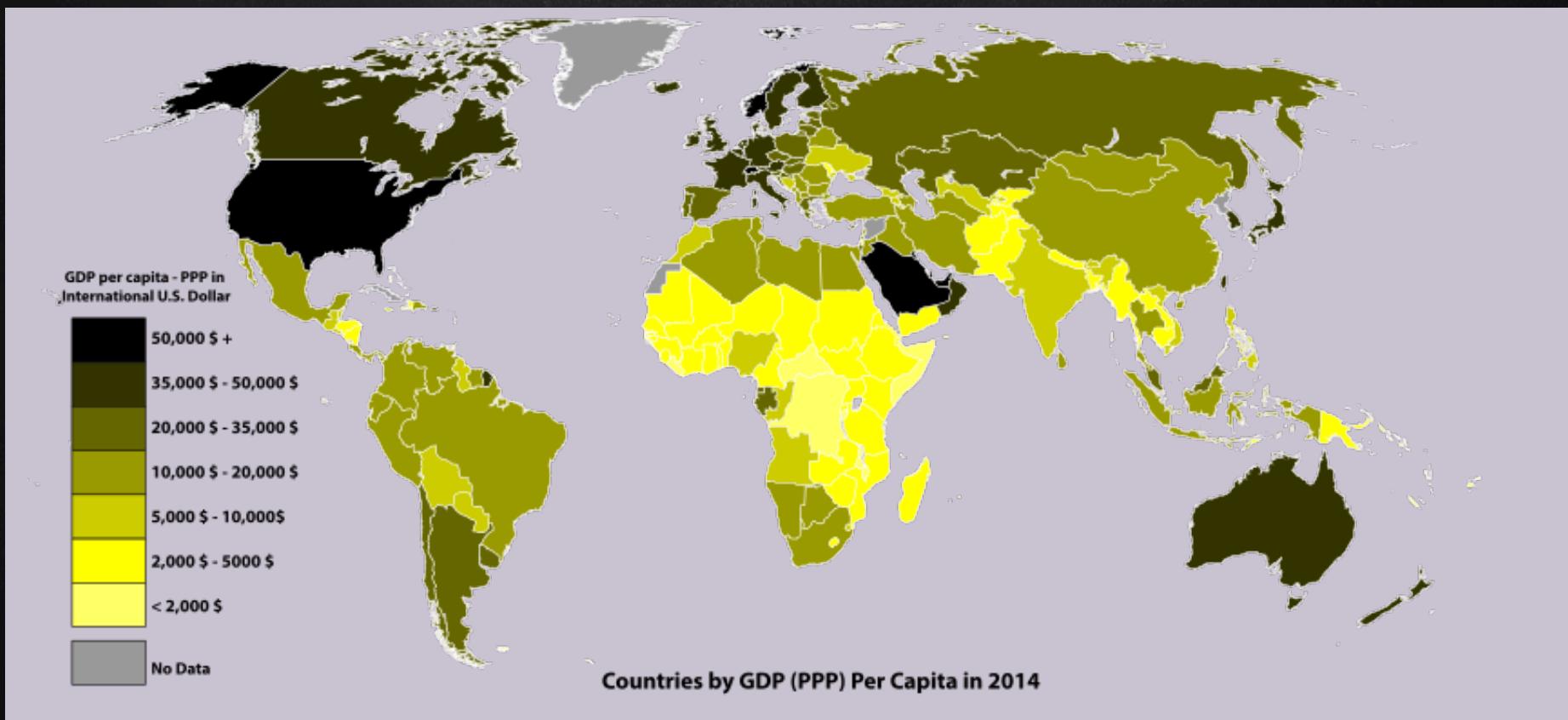
Source: World Bank

OFC: Offshore Financial Centre

Sink OFCs: jurisdictions in which a disproportional amount of value disappears from the economic system (i.e. the traditional tax havens).

Conduit OFCs: jurisdictions through which a disproportional amount of value moves toward sink OFCs (i.e. modern corporate tax havens).

TEMA 1. CONCEPTES ECONÒMICS BÀSICS – DISTRIBUCIÓ EQUITATIVA DE LA RENDA



TEMA 1. CONCEPTES ECONÒMICS BÀSICS – DISTRIBUCIÓ EQUITATIVA DE LA RENDA

■ LOS PAÍSES MÁS POBRES

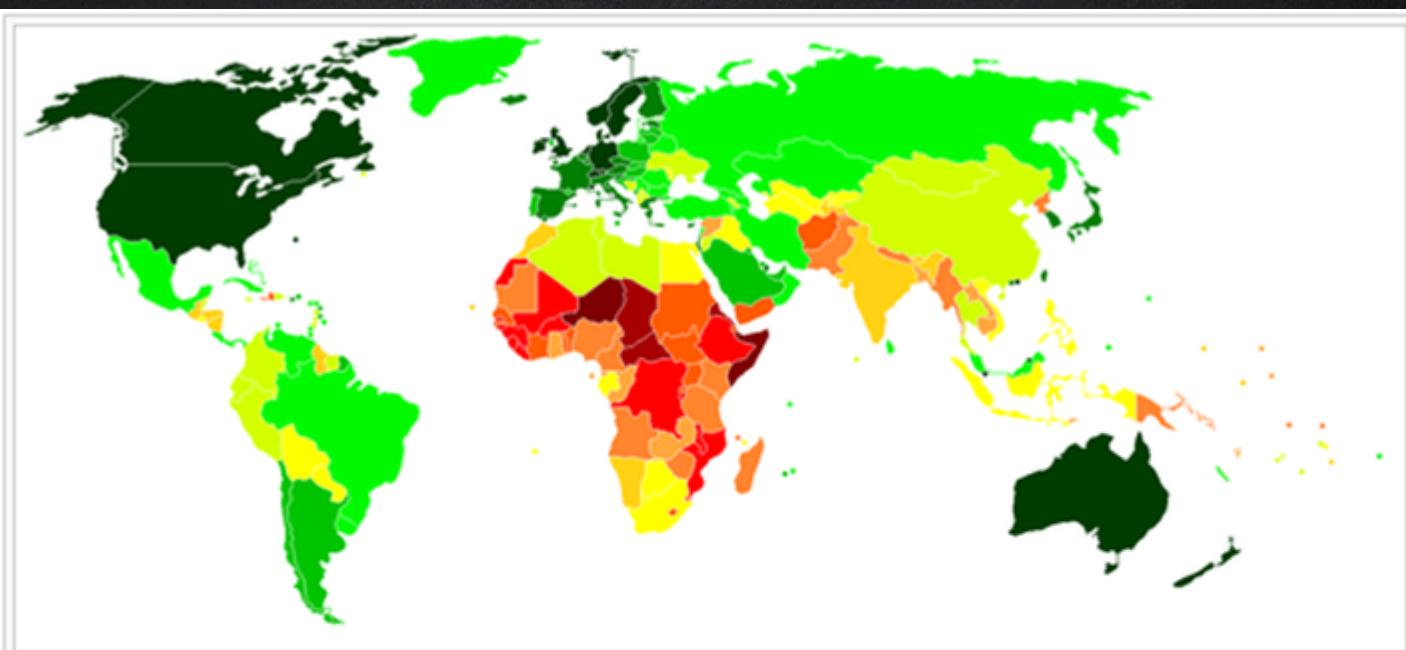
En dólares

Puesto en 2010	País	PIB por habitante en 2010 en paridad de poder de compra	Variación 2000-2010
1	Rep. Dem. del Congo	341	48%
2	Liberia	396	5%
3	Burundi	411	31%
4	Eritrea	676	-14%
5	Níger	721	48%
6	R. Centroafricana	764	17%
7	Sierra Leona	803	121%
8	Togo	847	24%
9	Malawi	909	53%
10	Madagascar	911	19%
11	Mozambique	982	105%
12	Etiopía	1.014	114%
13	Guinea	1.057	22%
14	Guinea-Bissau	1.082	15%
15	Haití	1.122	5%
16	Comoros	1.177	23%
17	Ruanda	1.203	112%
18	Mali	1.207	82%
19	Uganda	1.246	81%
20	Myanmar	1.246	172%
21	Nepal	1.250	58%
22	Lesoto	1.266	46%
23	Burkina Faso	1.342	51%
24	Benín	1.453	38%
25	Tanzania	1.497	92%
26	Bangladesh	1.566	88%
27	Ghana	1.610	63%
28	Zambia	1.625	72%
29	Chad	1.653	87%
30	Costa de Marfil	1.687	5%

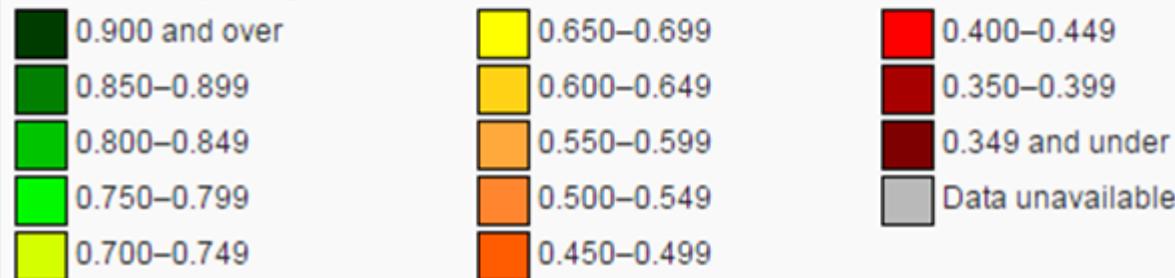
Lista de Comunidades autónomas por renta per cápita (2014)

#	Nombre	Renta per cápita(€)	España = 100%
1	Comunidad de Madrid	31.004	136.1
2	País Vasco	29.683	130.3
3	Navarra	28.124	123.5
4	Cataluña	26.996	118.5
	Unión Europea	26.6	116.8
5	La Rioja	24.998	109.7
6	Aragón	24.957	109.6
7	Islas Baleares	23.931	105.1
	España	22.78	100
8	Castilla y León	21.727	95.4
9	Cantabria	20.855	91.5
10	Principado de Asturias	20.344	89.3
11	Comunidad Valenciana	20.073	88.1
12	Galicia	19.954	87.6
13	Canarias	19.581	86
14	Ceuta	18.55	81.4
15	Región de Murcia	18.529	81.3
16	Castilla-La Mancha	18.307	80.4
17	Melilla	16.941	74.4
18	Andalucía	16.884	74.1
19	Extremadura	15.752	69.1

HUMAN DEVELOPMENT INDEX



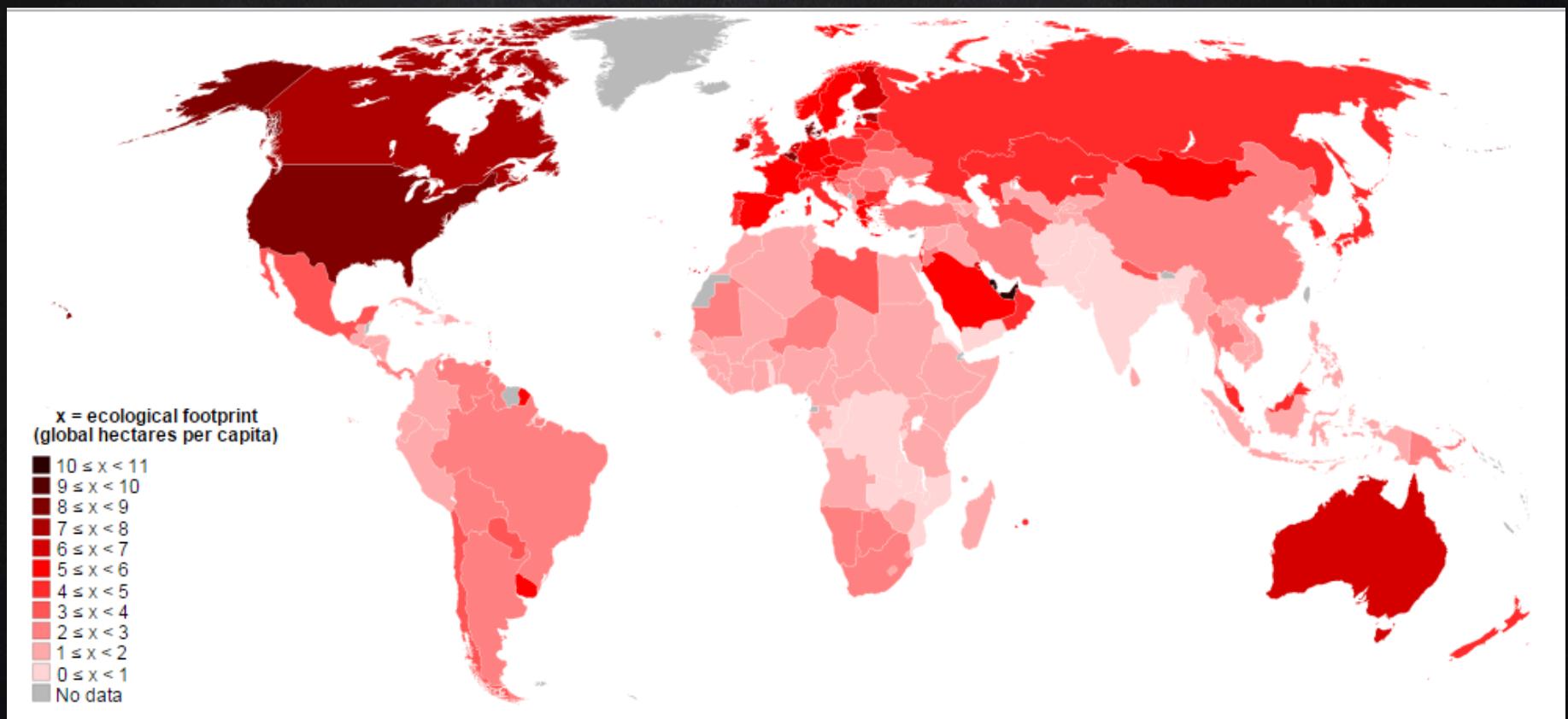
World map indicating the Human Development Index (based on 2014 data, published on December 14, 2015).



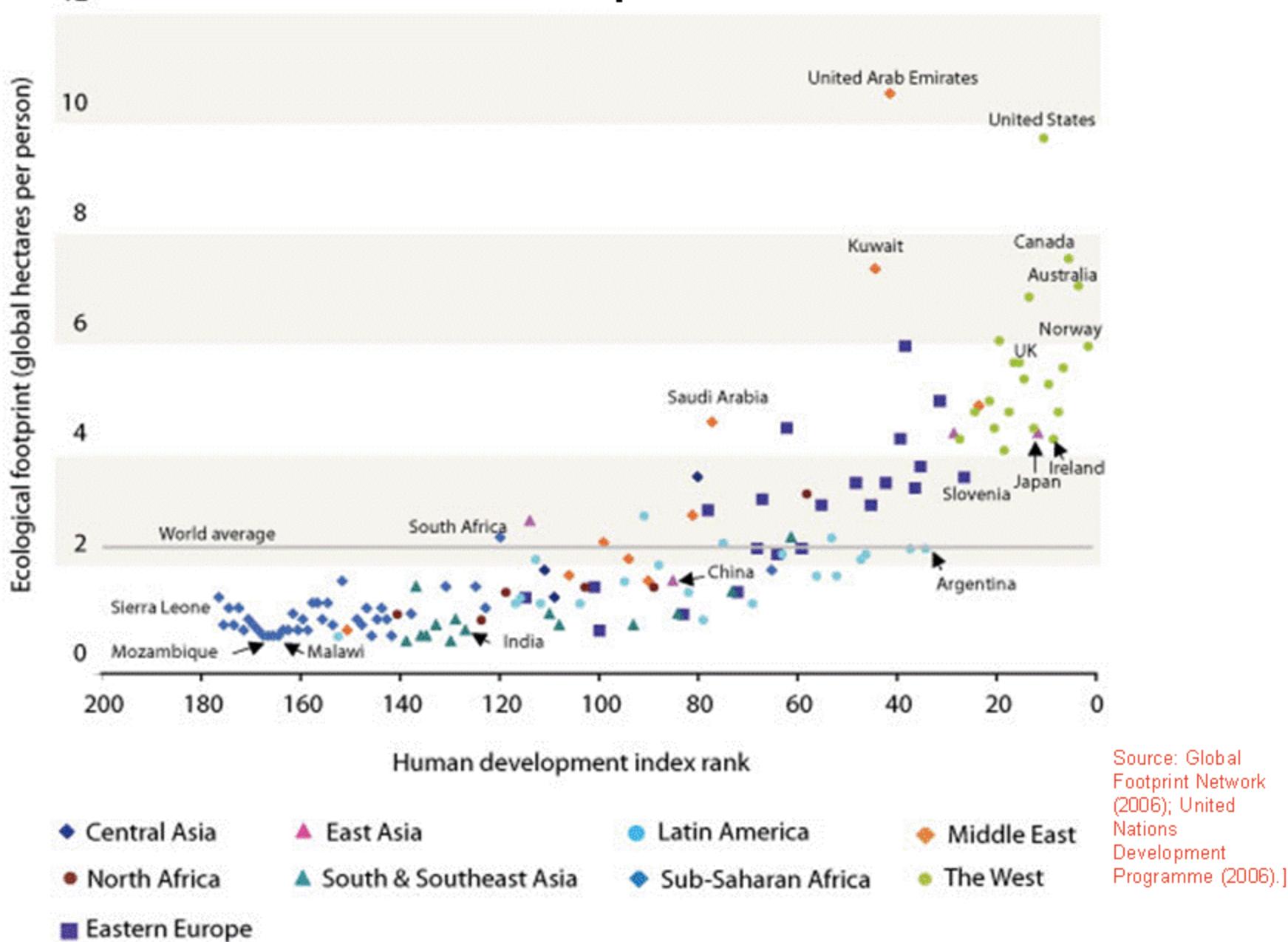
Inequality adjusted HDI (2015)

Rank	Country	IHDI
1	Norway	0.893
2	Switzerland	0.861
2	Netherlands	0.861
4	Australia	0.858
5	Denmark	0.856
6	Germany	0.853
7	Sweden	0.846
7	Iceland	0.846
9	Ireland	0.836
10	Finland	0.834
11	Canada	0.832
12	United Kingdom	0.829
12	Slovenia	0.829
14	Czech Republic	0.823
15	Luxembourg	0.822
16	Belgium	0.82
17	Austria	0.816
18	France	0.811
19	Slovakia	0.791
20	Estonia	0.782
21	Japan	0.78
22	Israel	0.775
22	Spain	0.775
24	Italy	0.773
25	Hungary	0.769

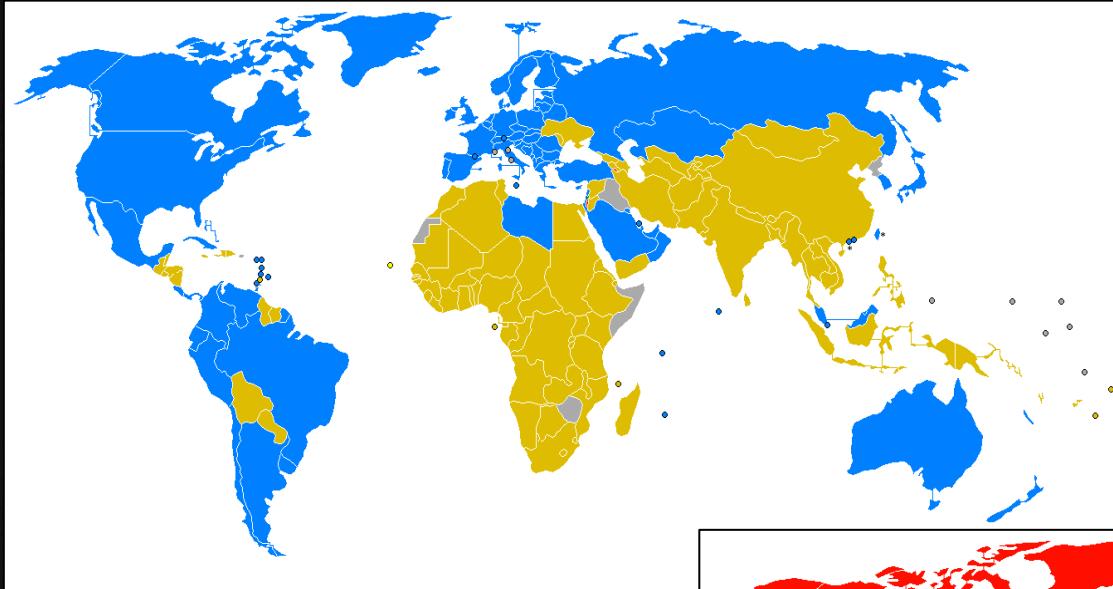
Foot Print (2015)



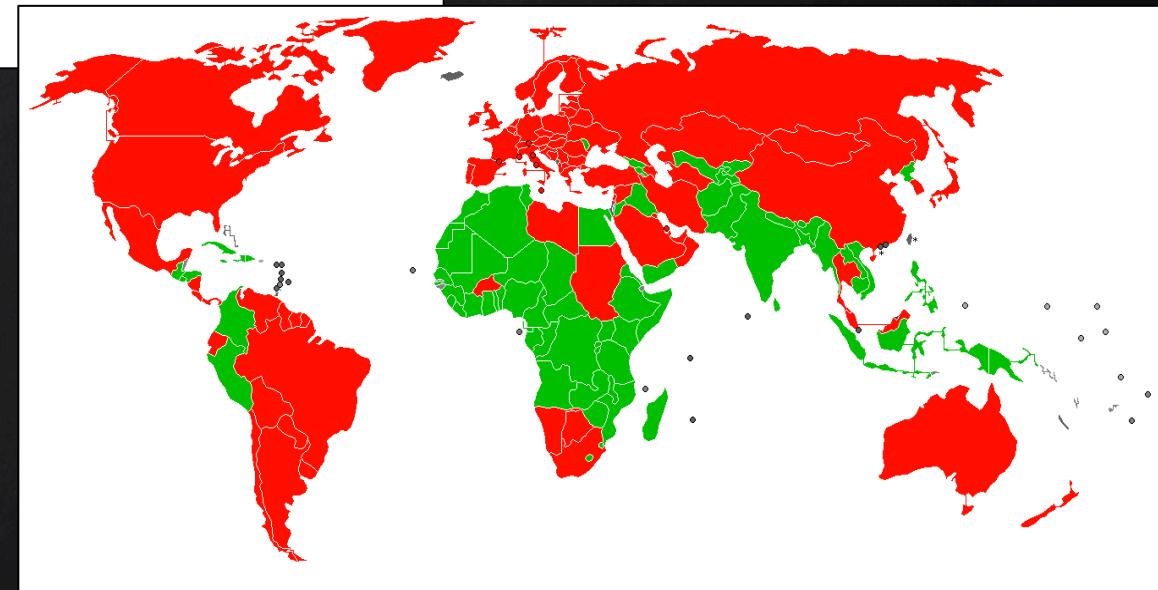
Human Welfare and Ecological Footprints compared



Human development index



vs Ecological footprint



HAPPY PLANET INDEX

HAPPY PLANET INDEX						
Rank	Country	HPI	Experience well-being	Life expectancy	Ecological footprint	
1	Costa Rica	64.0	7.3	79.3	2.5	
2	Vietnam	60.4	5.8	75.2	1.4	
3	Colombia	59.8	6.4	73.7	1.8	
4	Belize	59.3	6.5	76.1	2.1	
5	El Salvador	58.9	6.7	72.2	2.0	
6	Jamaica	58.5	6.2	73.1	1.7	
7	Panama	57.8	7.3	76.1	3.0	
8	Nicaragua	57.1	5.7	74.0	1.6	
9	Venezuela	56.9	7.5	74.4	3.0	
10	Guatemala	56.9	6.3	71.2	1.8	
11	Bangladesh	56.3	5.0	68.9	0.7	
12	Cuba	56.2	5.4	79.1	1.9	
13	Honduras	56.0	5.9	73.1	1.7	
14	Indonesia	55.5	5.5	69.4	1.1	
15	Israel	55.2	7.4	81.6	4.0	
16	Pakistan	54.1	5.3	65.4	0.8	
17	Argentina	54.1	6.4	75.9	2.7	
18	Albania	54.1	5.3	76.9	1.8	
19	Chile	53.9	6.6	79.1	3.2	
20	Thailand	53.5	6.2	74.1	2.4	
21	Mexico	52.9	6.8	77.0	3.3	
22	Brazil	52.9	6.8	75.2	2.9	
23	Ecuador	52.5	5.8	75.6	2.4	
24	Philippines	52.4	4.9	68.7	1.0	
25	Peru	52.4	5.6	74.0	2.0	
26	Algeria	52.2	5.2	73.1	1.6	
27	Jordan	51.7	5.7	73.4	2.1	
28	New Zealand	51.6	7.2	80.7	4.3	
29	Norway	51.4	7.6	81.1	4.8	
30	Palestine	51.2	4.8	72.8	1.4	

62

Spain

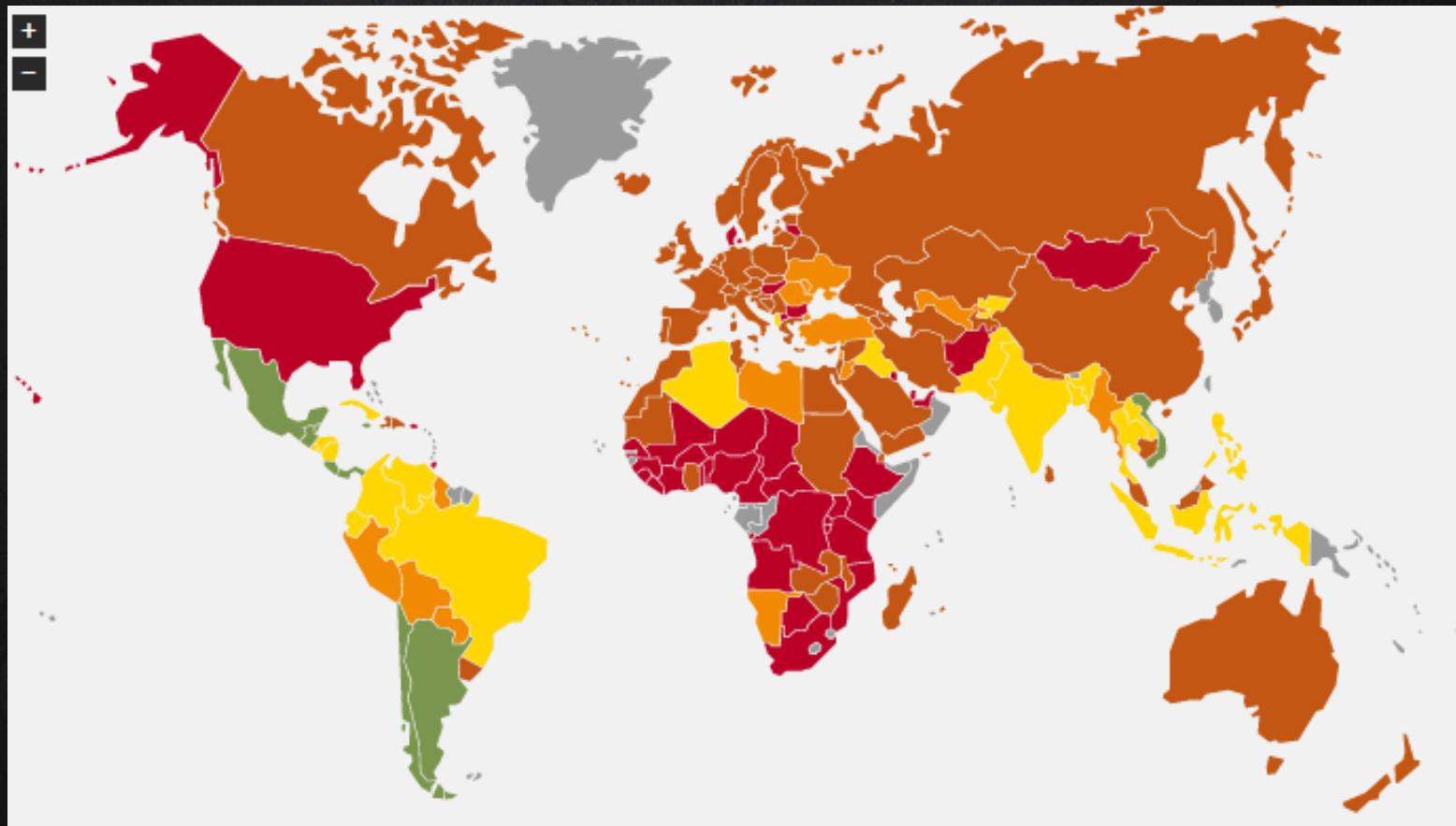
44.1

6.2

81.4

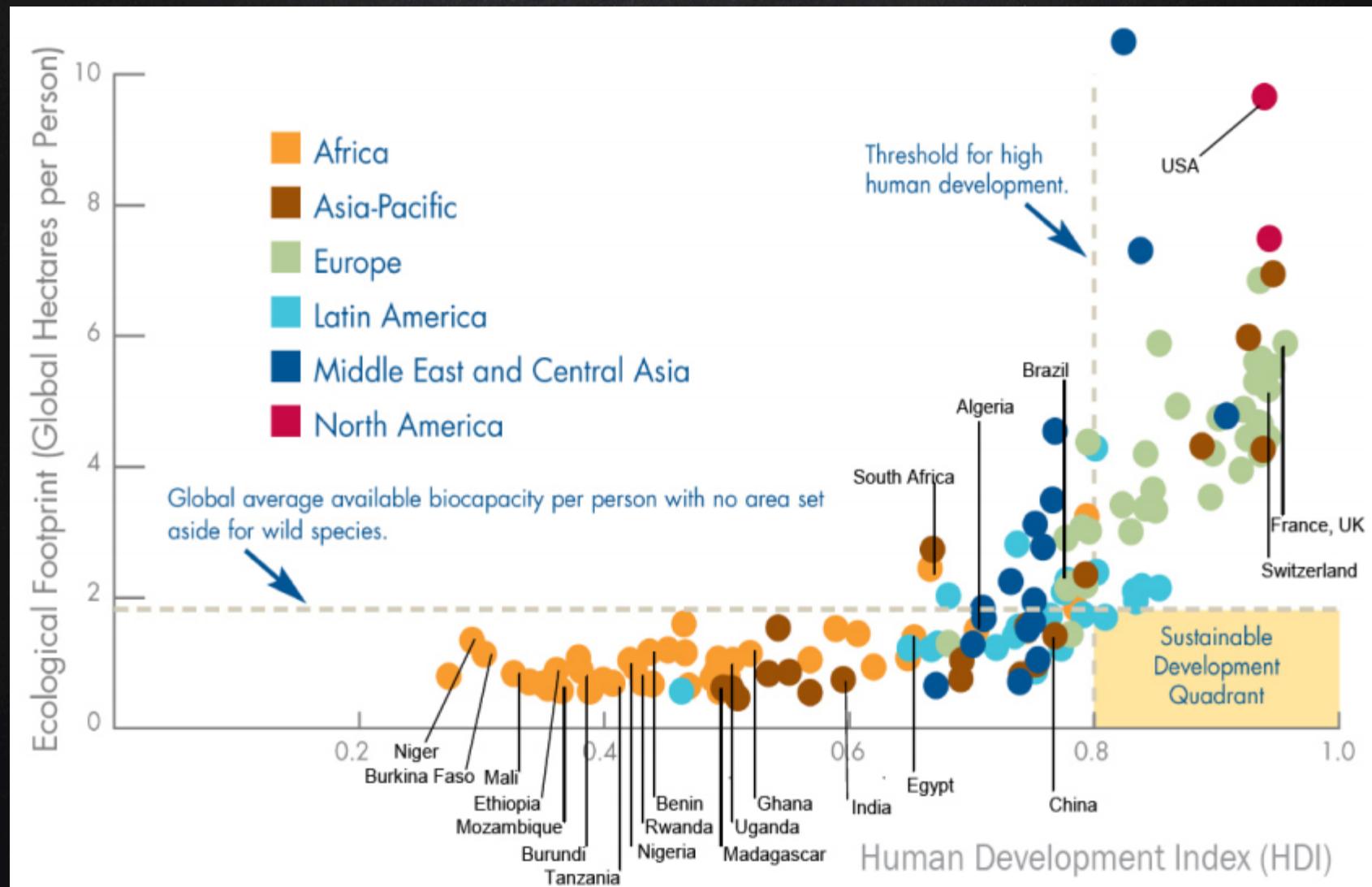
4.7

HAPPY PLANET INDEX

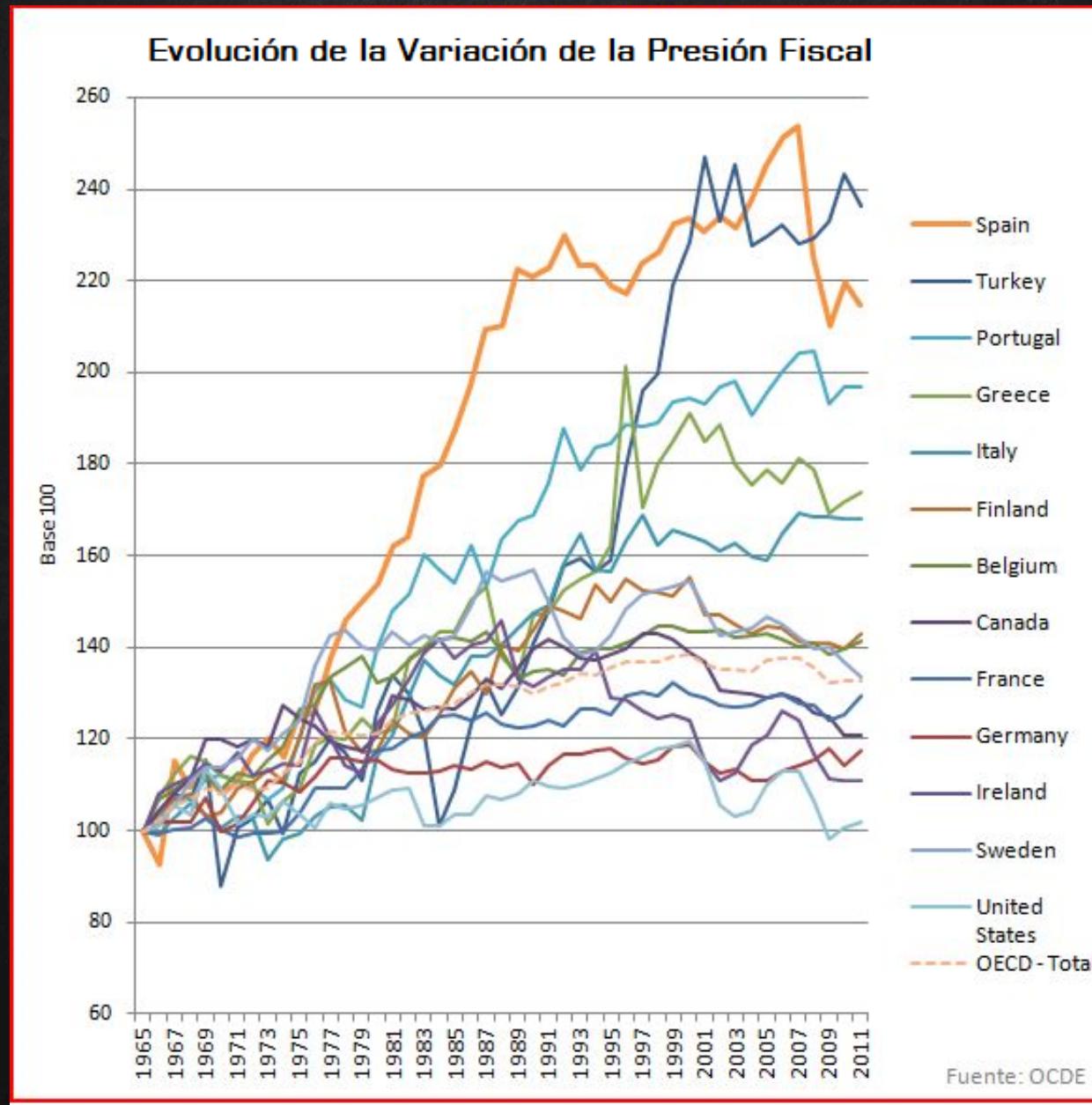


Very Happy Happy Normal Sad

Footprint VS Happy Planet Index



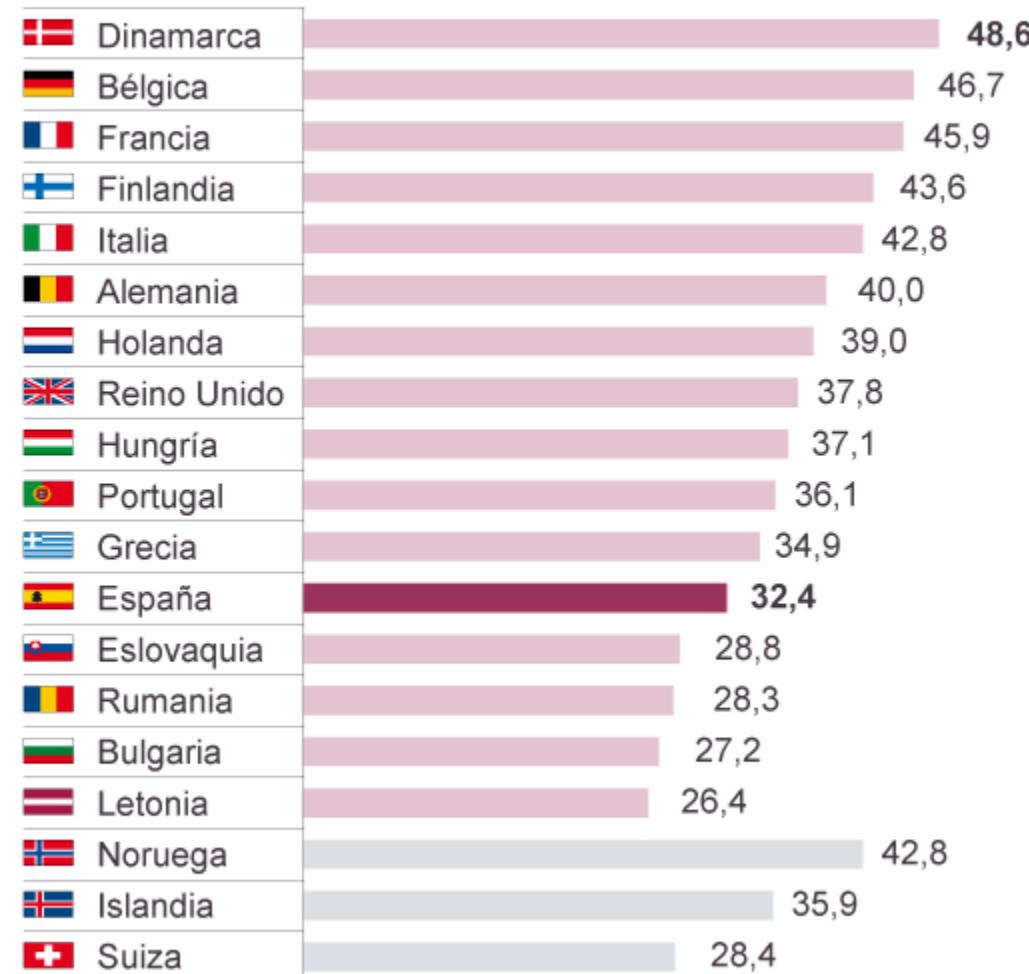
Els ingressos dels governs en els països rics



Sistema Fiscal

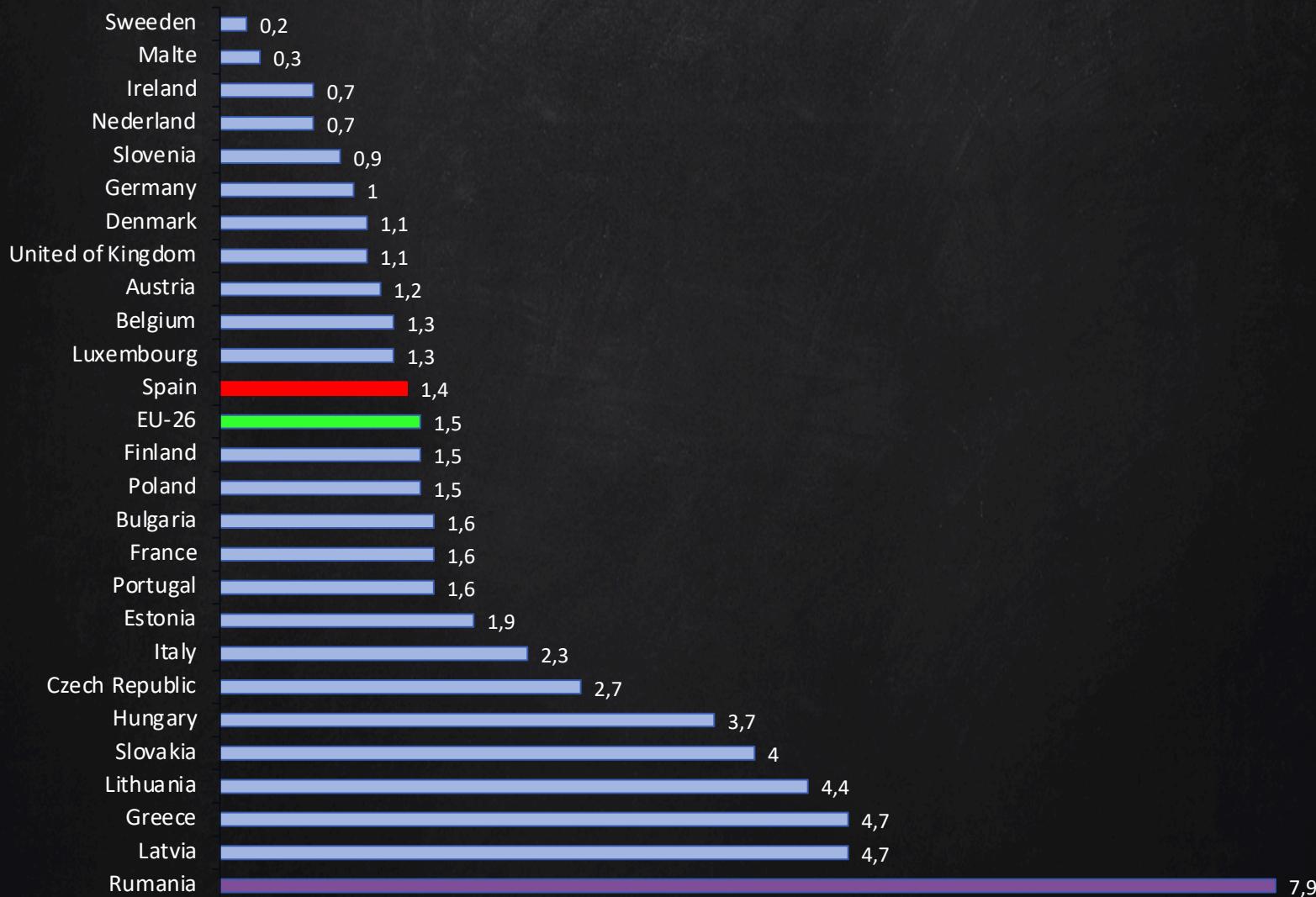
RECAUDACIÓN DE IMPUESTOS POR PAÍSES Datos de 2013

En % del PIB



Fuente: Eurostat / EL PAÍS

European Union Tax evasion 2011 (% GDP)

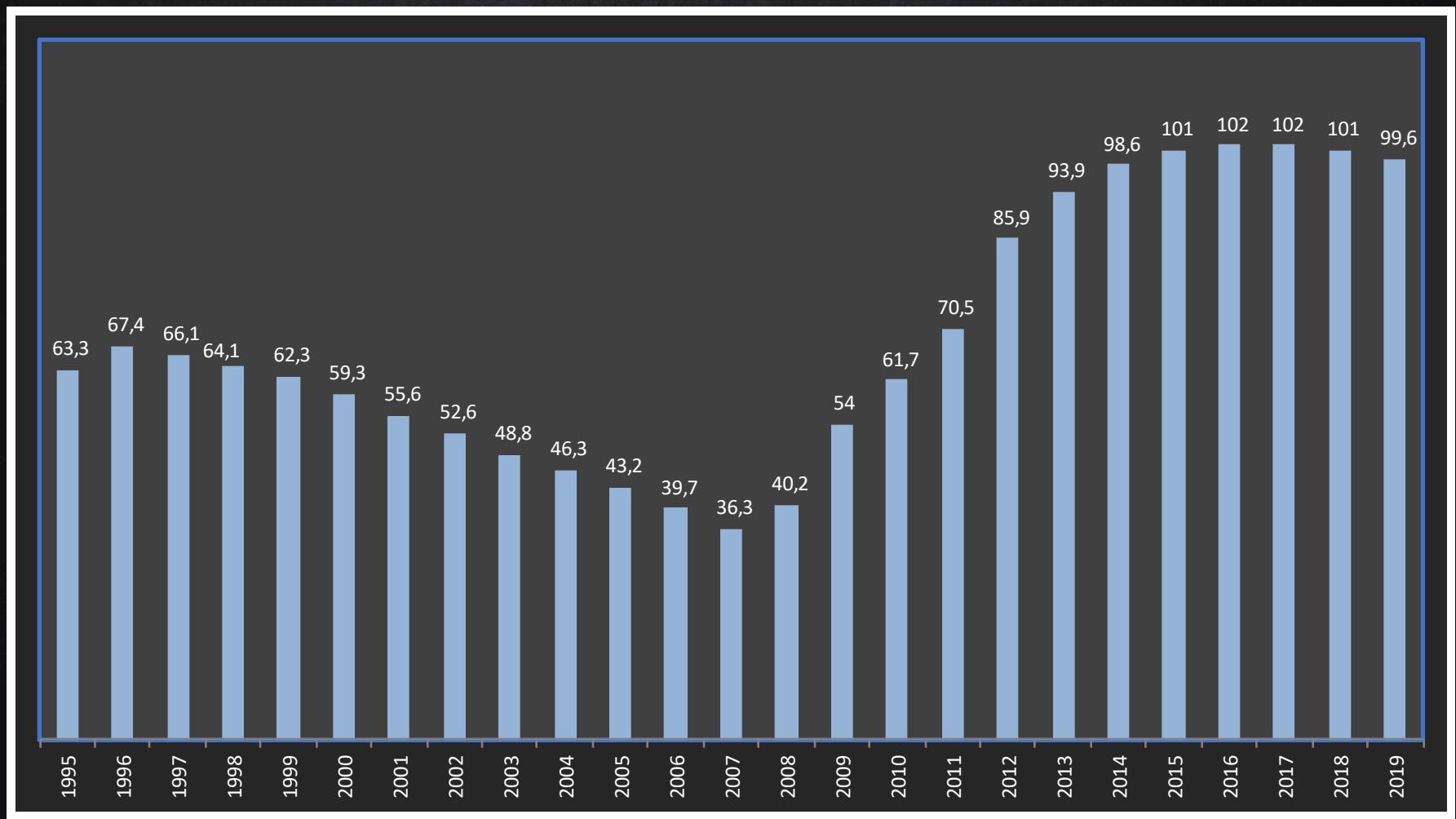


SPANISH PUBLIC DEFICIT As % of GDP



Source: IMF and Ministry of Economy

SPAIN. PUBLIC DEBT As % GDP



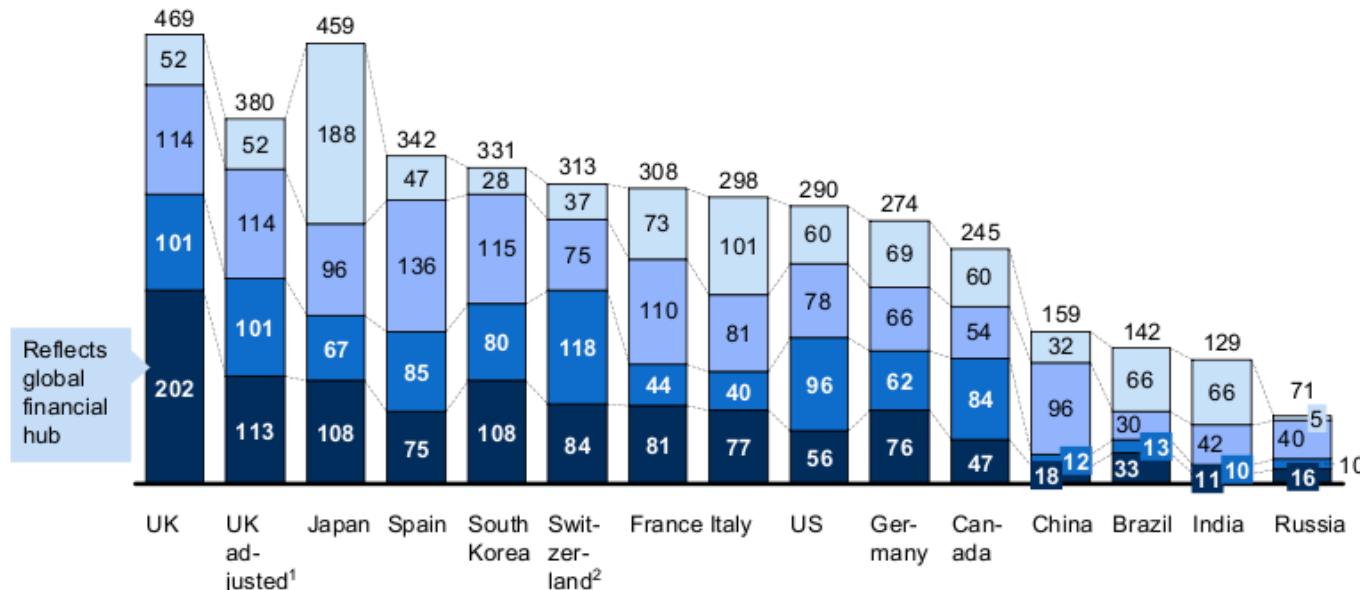
Spanish Debt

The sectoral composition of debt differs across economies

Debt by country, 2008

% of GDP

Government
Households
Nonfinancial business
Financial institutions



Compound annual growth rate of debt in local currency, %

2000-08 (10.2) (0.3) (14.5) (10.8) (4.5) (7.7) (6.3) (8.1) (2.5) (6.1) (15.1) (15.1) (16.5) (31.6)

1 The UK financial sector was adjusted to reflect its position as a financial hub. See the technical appendix for details.

2 Data for Switzerland represent year-end 2007.

SOURCE: Haver Analytics; McKinsey Global Institute

States Public Debt (2015)

Deuda: Comparativa países

Países	Fecha	Millones €	% PIB
España [+]	2014	1.033.741	99,30%
Alemania [+]	2014	2.184.302	74,90%
Reino Unido [+]	2014	2.057.219	88,20%
Francia [+]	2014	2.037.772	95,60%
Italia [+]	2014	2.135.902	132,30%
Portugal [+]	2014	225.767	130,20%
Estados Unidos [+]	2014	13.676.961	104,79%
Japón [+]	2013	8.985.827	242,59%
China [+]	2014	3.205.885	41,14%
Emiratos Árabes Unidos [+]	2014	47.129	15,68%

Financial balance Spain- European Union European founds (millions €)



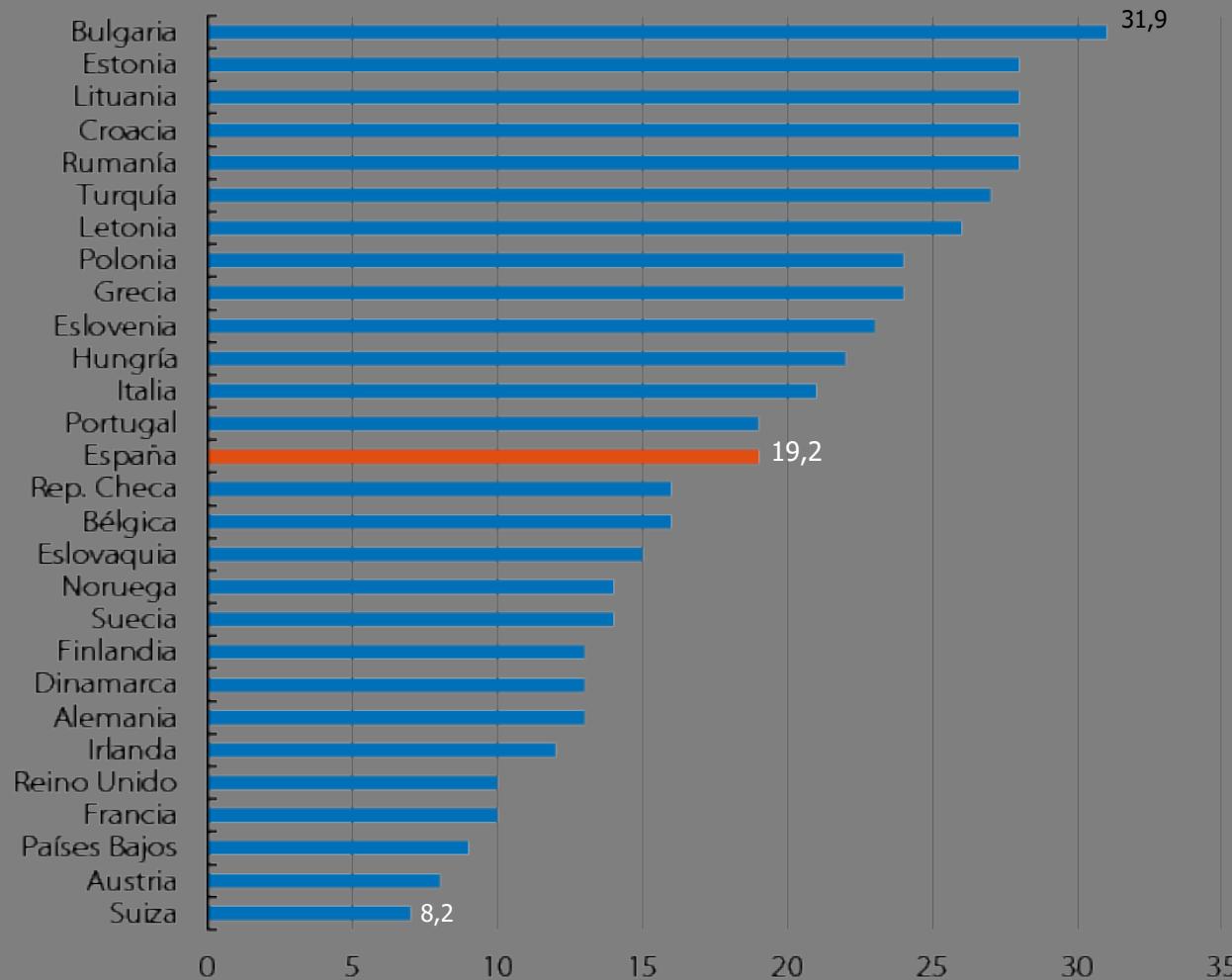
Incomes from EU: 2008-2011, cash terms. 2012,13 cash forecasts.

Payments to EU: 2008-11, cash terms; 2012, 13 budget terms.

Source: Ministry of Economy and Concurrence, Ministry of Publics Administrations

Economía sumergida española: demasiada distancia con los países de referencia

(% del PIB)



Fuente: Schneider, 2013.

INTERNACIONAL TRADE

Top 19 export/import countries (2014)

Export

Rank	Country	Exports (x10^6 \$)
---	World	17,779,000
1	China	2,343,000
---	European Union	2,173,000
2	United States	1,633,000
3	Germany	1,492,000
4	Japan	699,500
5	France	584,000
6	South Korea	572,300
7	Netherlands	571,800
---	Hong Kong	519,200
8	Italy	513,700
9	Russia	497,400
10	United Kingdom	480,300
11	Canada	478,100
12	Singapore	437,100
13	Mexico	398,400
14	United Arab Emirates	370,900
15	Saudi Arabia	342,900
16	India	329,400
17	Switzerland	327,500
18	Belgium	326,400
19	Spain	317,000

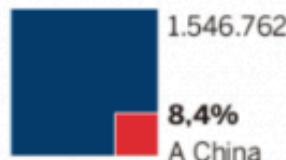
Import

Rank	Country	Imports (x10^6 \$)
---	World	18,791,000
1	United States	2,380,000
---	European Union	2,312,000
2	Mainland China	1,960,000
3	Germany	1,319,000
4	Japan	811,900
5	United Kingdom	686,000
6	France	634,000
---	HongKong	560,200
7	South Korea	542,900
8	India	508,100
9	Netherlands	488,800
10	Canada	482,100
11	Italy	448,300
12	Mexico	407,100
13	Singapore	375,500
14	Belgium	340,200
15	Spain	337,900
16	Switzerland	333,800
17	Russia	323,900
18	Taiwan	277,500
19	United Arab Emirates	271,700

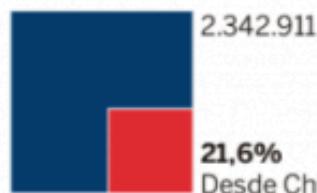
INTERNACIONAL TRADE

Compra y venta de productos, en millones de dólares

Total exportaciones
de EE UU (2017)

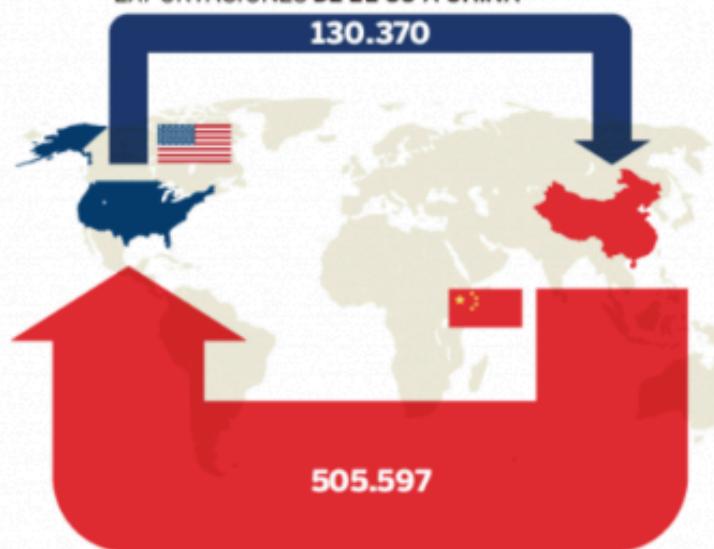


Total importaciones
de EE UU (2017)

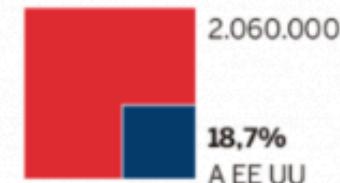


EXPORTACIONES DE EE UU A CHINA

130.370



Total exportaciones
de China (2016)



Total importaciones
de China (2016)



PRINCIPALES PRODUCTOS COMPRADOS A CHINA

En millones de dólares (2017)

70.394,4	Teléfonos móviles y accesorios
45.520,5	Ordenadores
33.481,9	Componentes de telecomunicaciones
31.611,6	Accesorios de informática
26.773,0	Juguetes y artículos deportivos
24.152,4	Artículos textiles
20.667,3	Muebles y complementos
14.418,2	Accesorios de automóviles

PRINCIPALES PRODUCTOS COMPRADOS A ESTADOS UNIDOS

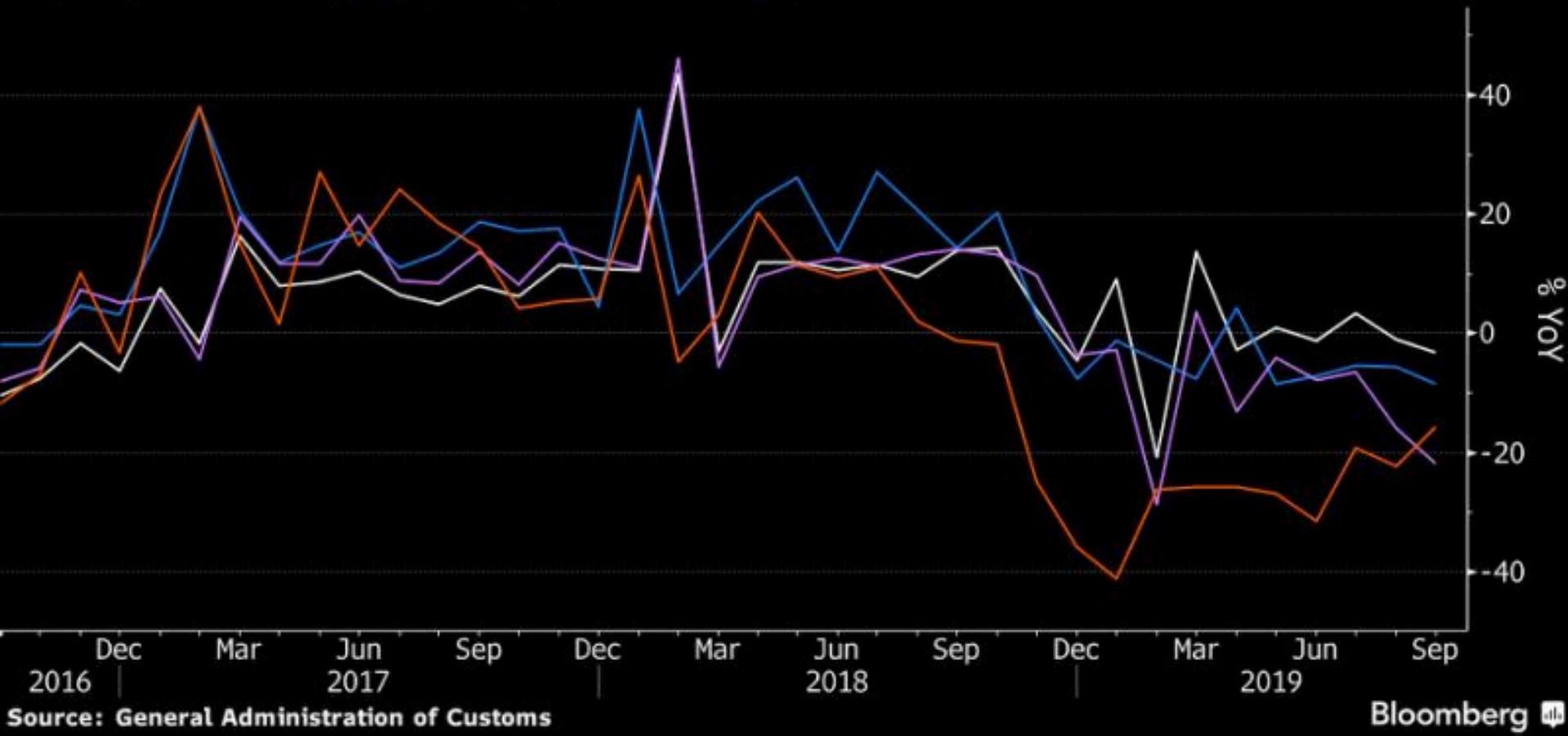
En millones de dólares (2017)

Semiconductores	6.076,8
Maquinaria industrial	5.441,9
Petróleo	4.434,4
Plástico	4.004,3
Equipos médicos	3.454,2
Pulpa y pasta de madera	3.394,9
Madera	3.179,2
Productos químicos	2.974,5

INTERNACIONAL TRADE: THE TRADE WAR WITH USA XINA'S IMPORTS AND EXPORTS, DECLINE

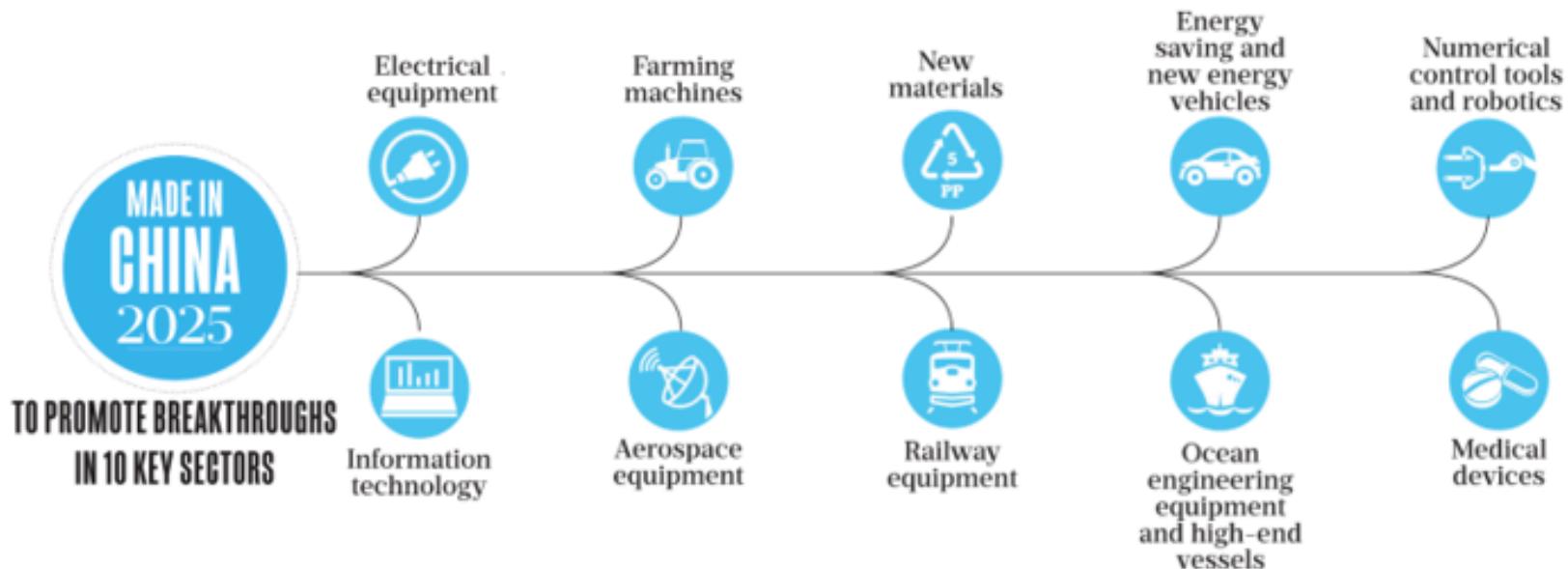
Increasingly Weak Exports and imports both decline

■ Exports (in U.S. dollar terms) ■ Imports ■ Exports to the U.S. ■ Imports from U.S.



Source: General Administration of Customs

Bloomberg



Fuente: HQ Magazine: Ravamping “Made in China”

Main objectives

- IT**: Market share of domestic servers in telecom and finance sectors to reach 75 percent by 2020 and 90 percent by 2025.
- Robotics**: Domestically made robots to have a 50 percent market share by 2020 and more than 70 percent by 2025.
- Aviation**: Aviation industry revenue to reach 100 billion yuan (\$15.6 billion) by 2020 and 2 trillion yuan by 2025.
- Shipbuilding**: China to design and build ships with high technology, aiming for a 40 percent market share globally by 2020 and 50 percent by 2025.
- Railways**: More than 30 percent of business to come from overseas markets by 2020 and 40 percent by 2025.
- New energy cars**: Sales of 1 million domestic autos by 2020, or 70 percent of the market. Sales to reach 3 million, or an 80 percent market share, by 2025.

Source: Key industries' technology road map for "Made-in-China 2025" Plan

INTERNACIONAL TRADE

Exports of goods and services as a percentage of GDP (2012)

Luxembourg		175,93	Germany		32,19
Belgium		82,55	Finland		45,81
Ireland		80,23	Portugal		32,19
Netherlands		74,20	Italy		28,85
Austria		58,9	Spain *		27,29
Denmark		52,22	U.K.		26,92
Catalonia →		52,20	France		26,86
Switzerland		52,00	Greece		23,53
Sweeden		51,87	*Spain: without Catalonia exports		

Source:

- <http://data.worldbank.org/>
- Nuria Bosch and Marta Espasa. Viabilitat de Catalunya com Estat. (2012)

INTERNACIONAL TRADE

Top countries Spanish exports (millions €, 2011)		Top countries Spanish imports (millions €, 2011)			
France		38.455	Germany		30.741
Germany		21.824	France		28.275
Portugal		17.192	China		18.642
Italy		17.007	Italy		17.097
U.K.		13.740	U.S.A.		10.564
U.S.A.		7.889	U.K.		10.550
Netherlands		6.163	Netherlands		10.503
Belgium		6.001	Portugal		10.284
Turkey		4.456	Russia		8.463

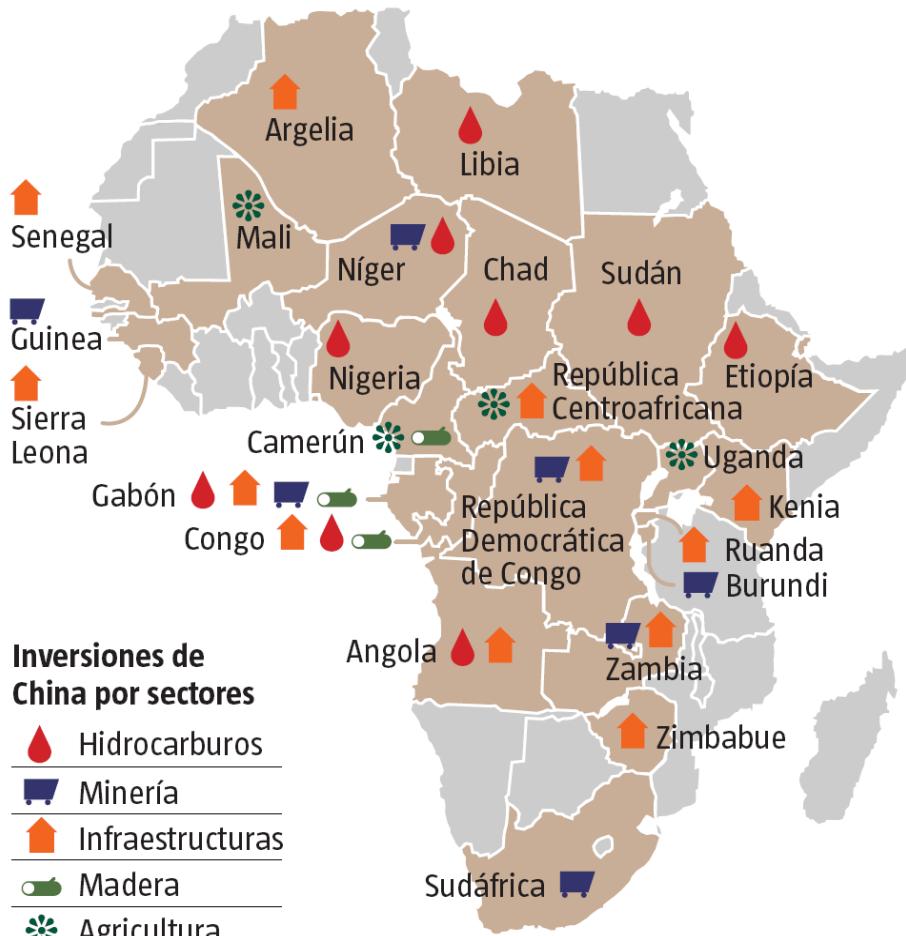
INTERNACIONAL TRADE

Products imported by Spain to Germany (Millions €, 2011)		Products exported from Spain to Germany(Millions €, 2011)	
Semimanufactures	8,95	Automative	5,82
Automative	8,27	Semimanufactures	5,61
Capital goods	8,08	Capital goods	4,68
Food	2,23	Food	3,47
Consumer manufactures	1,78	Consumer manufactures	1,10

INTERNACIONAL TRADE(VII)

CHINA INVESTMENTS IN AFRICA

China incrementa su ayuda a África a cambio de recursos energéticos



Inversiones de China por sectores

- Hidrocarburos
- Minería
- Infraestructuras
- Madera
- Agricultura

INVERSIÓN DIRECTA DE CHINA EN ÁFRICA

2003
490
millones de dólares

2008
7.800
millones de dólares

Más de **900** empresas chinas están operando en África

Entre **750.000** y **1 millón** de chinos en el continente

BALANZA COMERCIAL CHINA-ÁFRICA

En miles de millones de dólares

2008
106,8

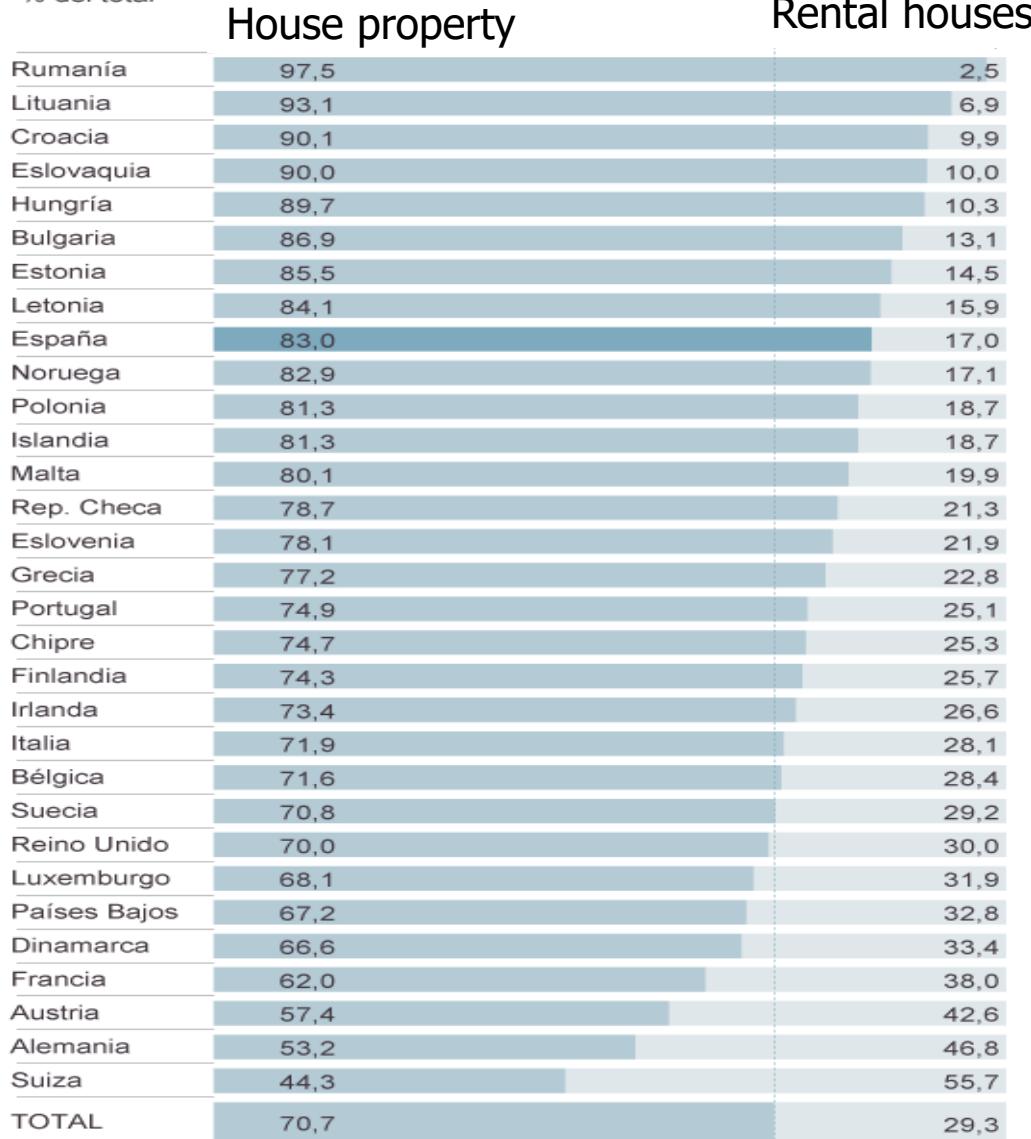
2006
55

2000
10,5

Spain owner's country

The housing stock in Europe

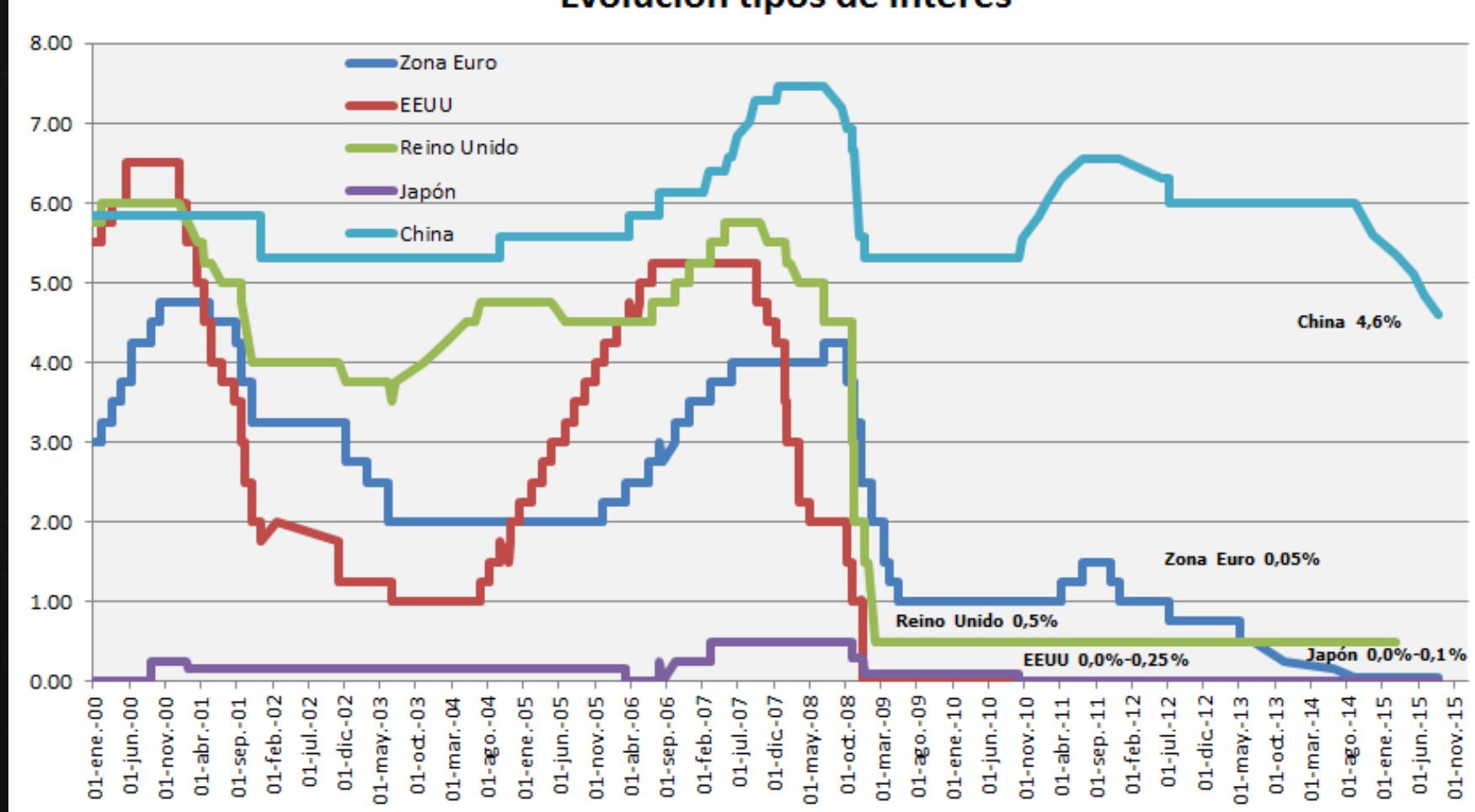
% del total



Fuente: Eurostat.

POLITICA MONETARIA (I)

Evolución tipos de interés

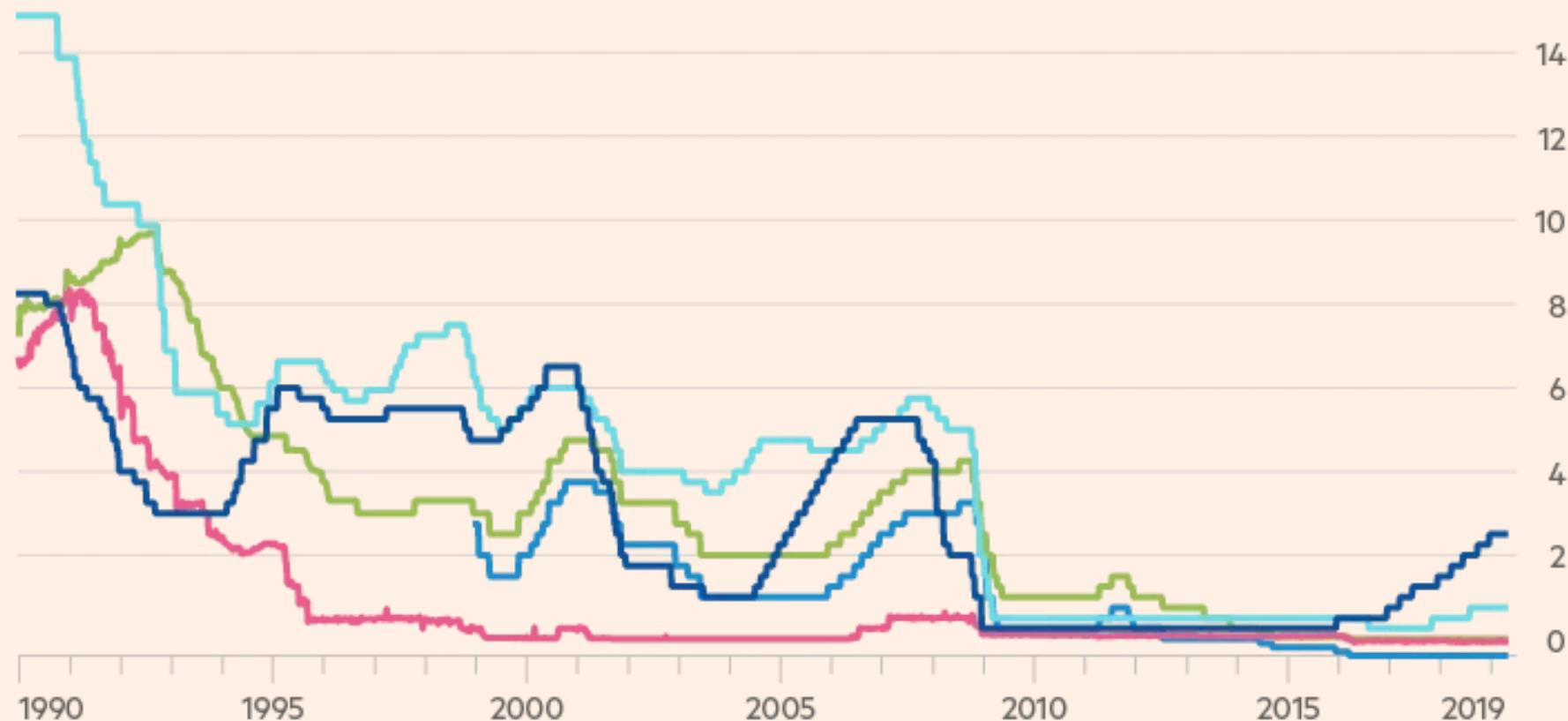


POLITICA MONETARIA (II)

Central bank policy rates (%)

US (Fed funds target rate) Japan (BoJ overnight rate) UK (Base rate/Bank rate)

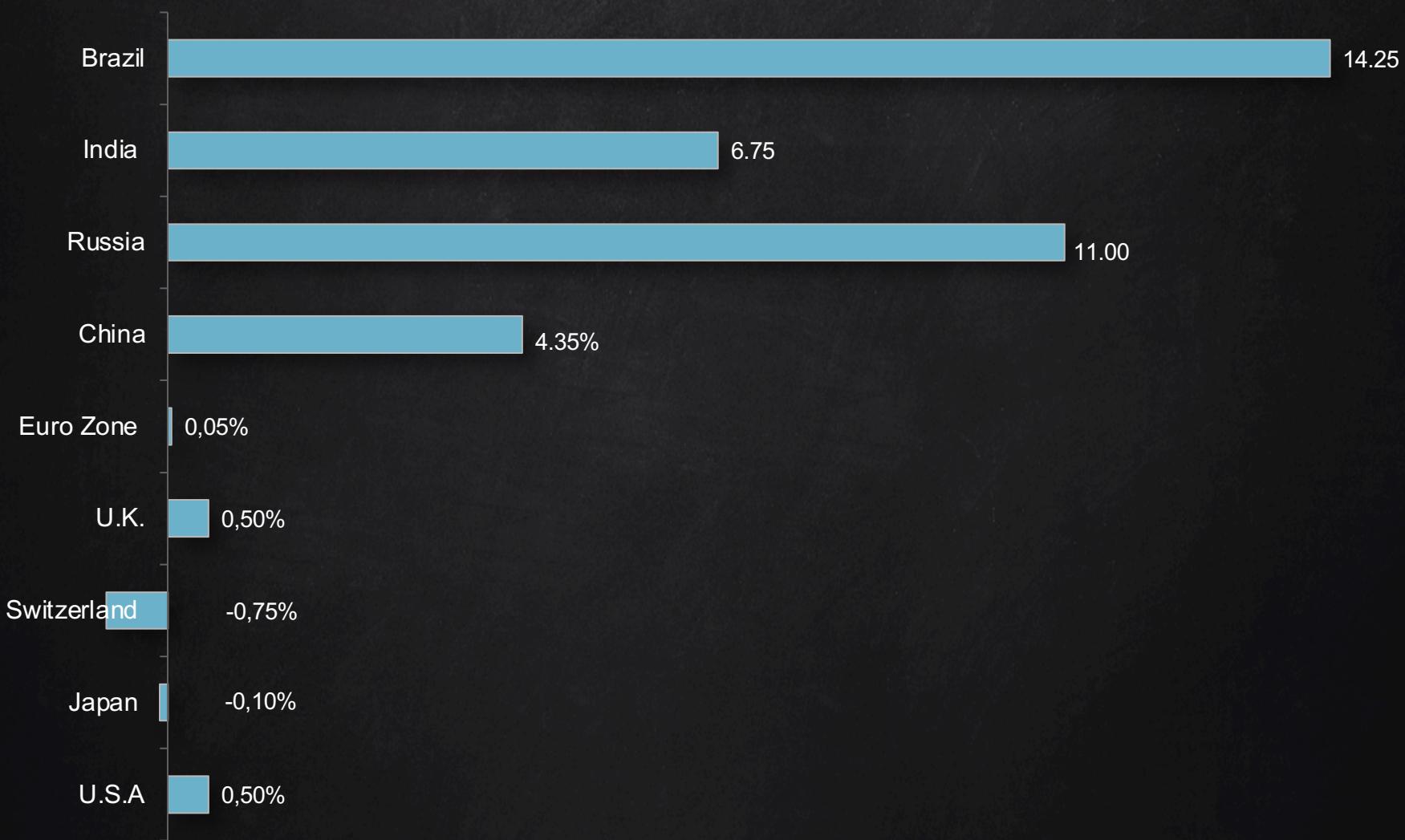
Eurozone (ECB repo)/German rates pre-1999 ECB deposit rate



Source: Refinitiv

© FT

interest rates (January 2016)



Source: World Bank

INTEREST RATES ACROSS WORLD

2019

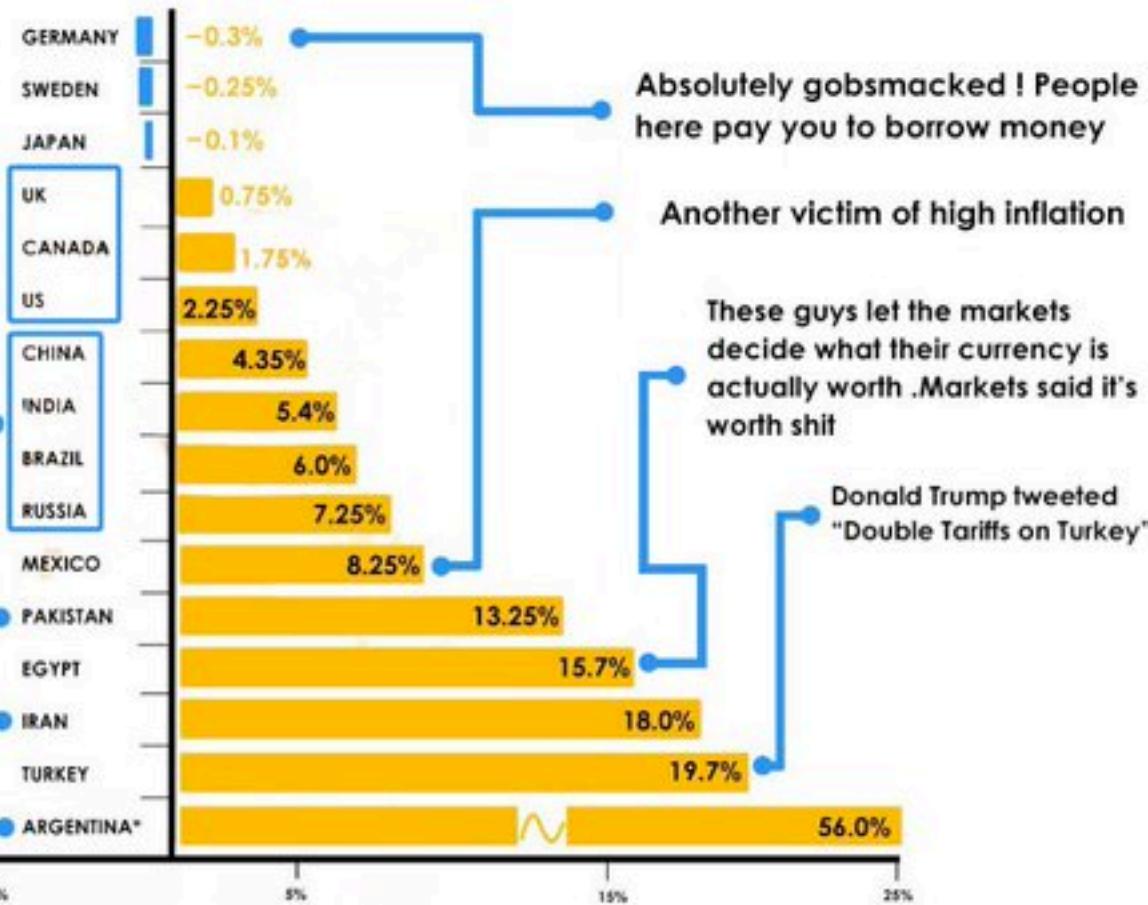
A bit too low for my liking. But whatever

I think we've got it under control now

Has no money and is borrowing from the IMF in return for devaluing currency

Oil sanctions really f*cked them up

Say thanks to political turmoil and 5th highest inflation rate in the world



POLITICA MONETARIA (III)

Gráfica 1: los bancos más grandes del mundo por valor de mercado, año 2019



Fuente: Global Bank 500

MAYORES EMPRESAS DEL MUNDO 2019

Ranking de empresas por valor en Bolsa

Capitalización En miles de millones de euros

	EMPRESA	SECTOR	PAÍS	Capitalización
1	Microsoft	Tecnología	EE UU	685,6
2	Apple	Tecnología	EE UU	653,8
3	amazon.com	Tecnología	EE UU	641,4
4	Alphabet	Tecnología	EE UU	631,7
5	BERKSHIRE HATHAWAY	Finanzas	EE UU	439,0
6	Tencent 腾讯	Telecomunicac.	China	333,3
7	facebook	Tecnología	EE UU	329,5
8	Alibaba.com	Comercio	China	310,3
9	Johnson & Johnson	Salud	EE UU	302,3
10	JPMORGAN CHASE	Finanzas	EE UU	283,5
11	VISA	Finanzas	EE UU	254,0
12	ExxonMobil	Energía	EE UU	252,1

ASALARIADOS PÚBLICOS EN ESPAÑA (2009)

Personal de las Administraciones Públicas

A julio de 2009

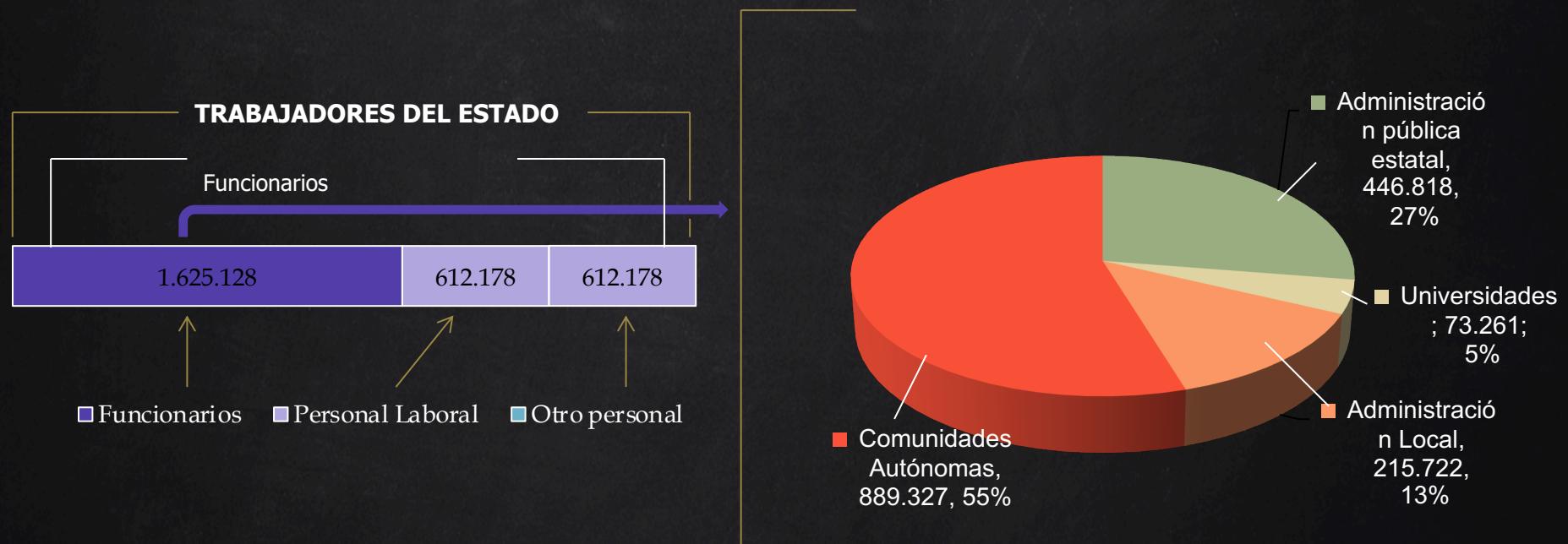
%

Administración Pública Estatal	583.447	21,9
Administración General del Estado	239.865	9,0
Fuerzas y Cuerpos de Seguridad del Estado	135.950	5,1
Fuerzas Armadas	127.373	4,8
Administración de Justicia	23.658	0,9
Entidades y Organismos Públicos	56.601	2,1
Administración de las Comunidades Autónomas	1.345.577	50,6
Consejerías y sus organismos autónomos	252.265	9,5
Área de docencia no universitaria	539.669	20,3
Sistema Nacional de Salud	491.107	18,5
Administración de Justicia	38.710	1,4
Fuerzas de Seguridad	23.826	0,9
Administración Local	627.092	23,6
Ayuntamientos	550.714	20,7
Diputaciones, Cabildos y Consejos Insulares	76.378	2,9
Universidades	102.894	3,9
Total	2.659.010	

Fuente: INE y Ministerio de Economía y Hacienda.

EL PAÍS

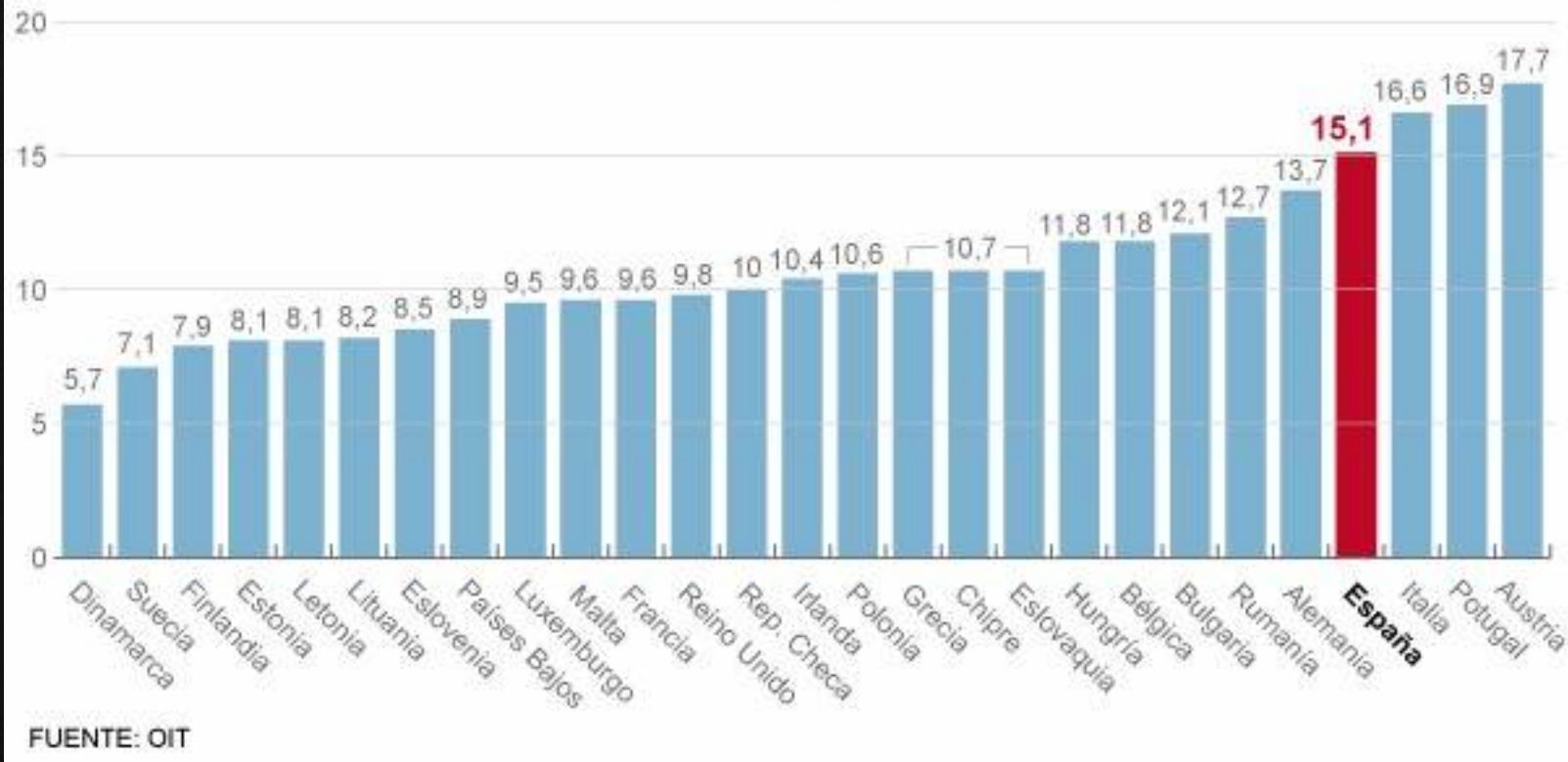
LOS FUNCIONARIOS EN ESPAÑA



Fuente: Ministerio de Hacienda y Administraciones Públicas, OCDE

ASALARIADOS PÚBLICOS EN ESPAÑA (2012)

● Ciudadanos por trabajador público en la UE

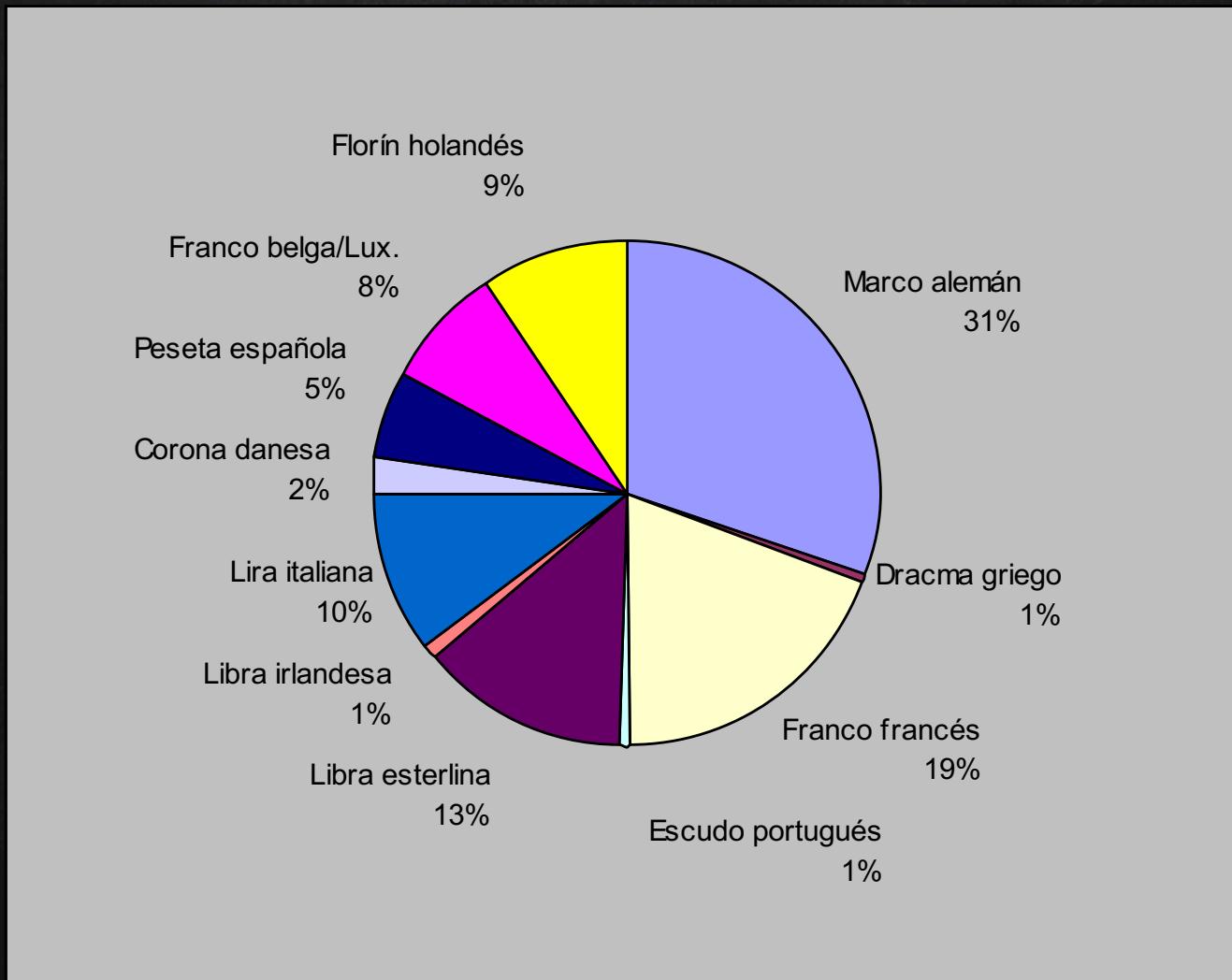


FUENTE: OIT

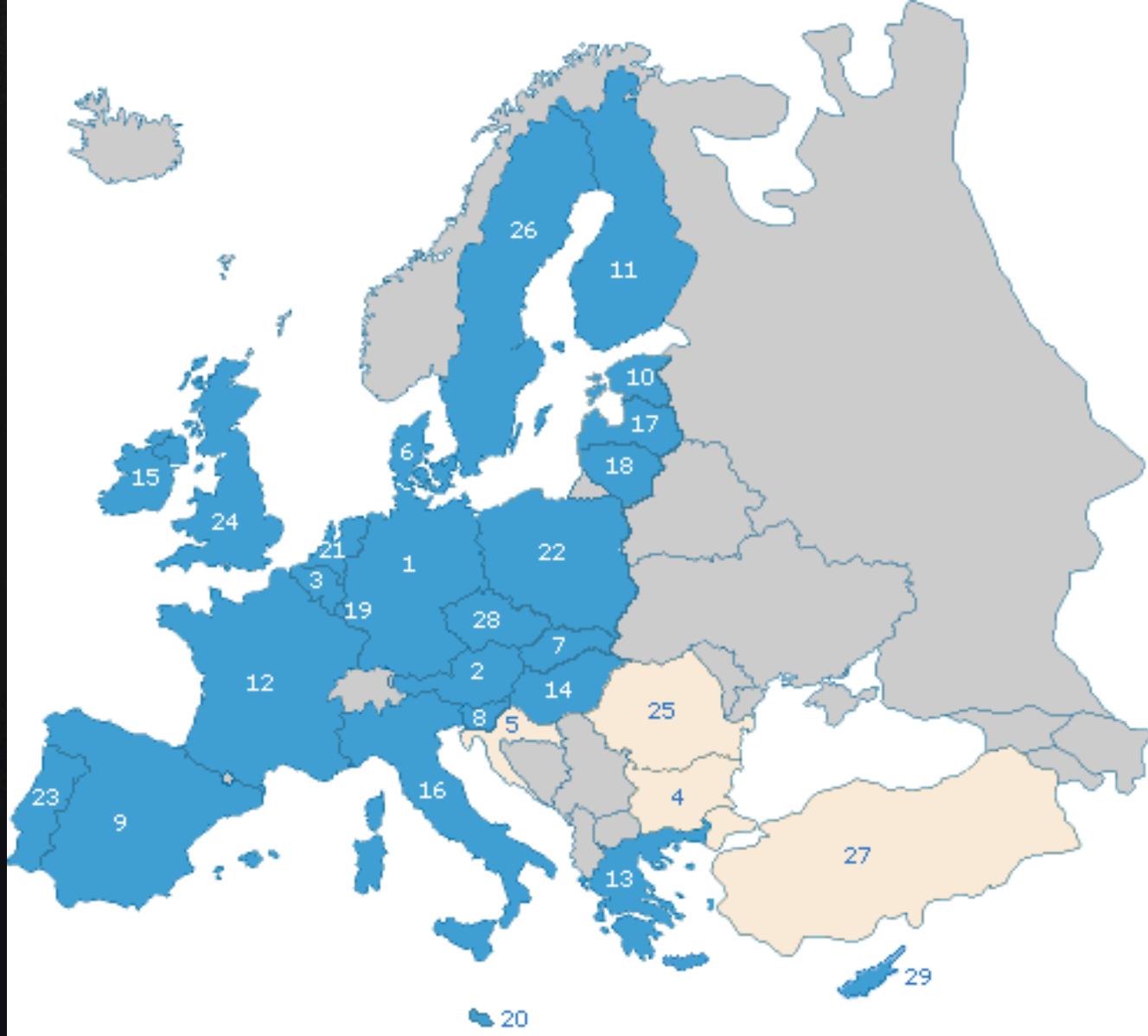
Percentage of Public Employees in Population (2010)



COMPOSICIÓN DEL EURO



PAISES UNIÓN EUROPEA



Estados miembros:

1. Alemania
2. Austria
3. Belgica
6. Dinamarca
7. Eslovaquia
8. Eslovenia
9. Espanña
10. Estonia
11. Finlcindia
12. França
13. Grecia
14. Hungria
15. Irlanda
16. Italia
17. Letonia
18. Lituania
19. Luxemburgo
20. Malta
21. Holanda
22. Polonia
23. Portugal
24. Reino Unido
26. Suecia
27. Chipre
28. Chequia
29. Bulgaria
30. Rumanía

Candidatos:

1. Croacia
2. Turquia

Figures of Catalonia



Generalitat de Catalunya
Government of Catalonia

The Catalan economy in numbers: 2012



CATALONIA

Population

7,546,522

16% of the Spanish population,
similar to Switzerland

GDP (mp)

198,633 M€

18.9% of the Spanish GDP,
similar to Denmark

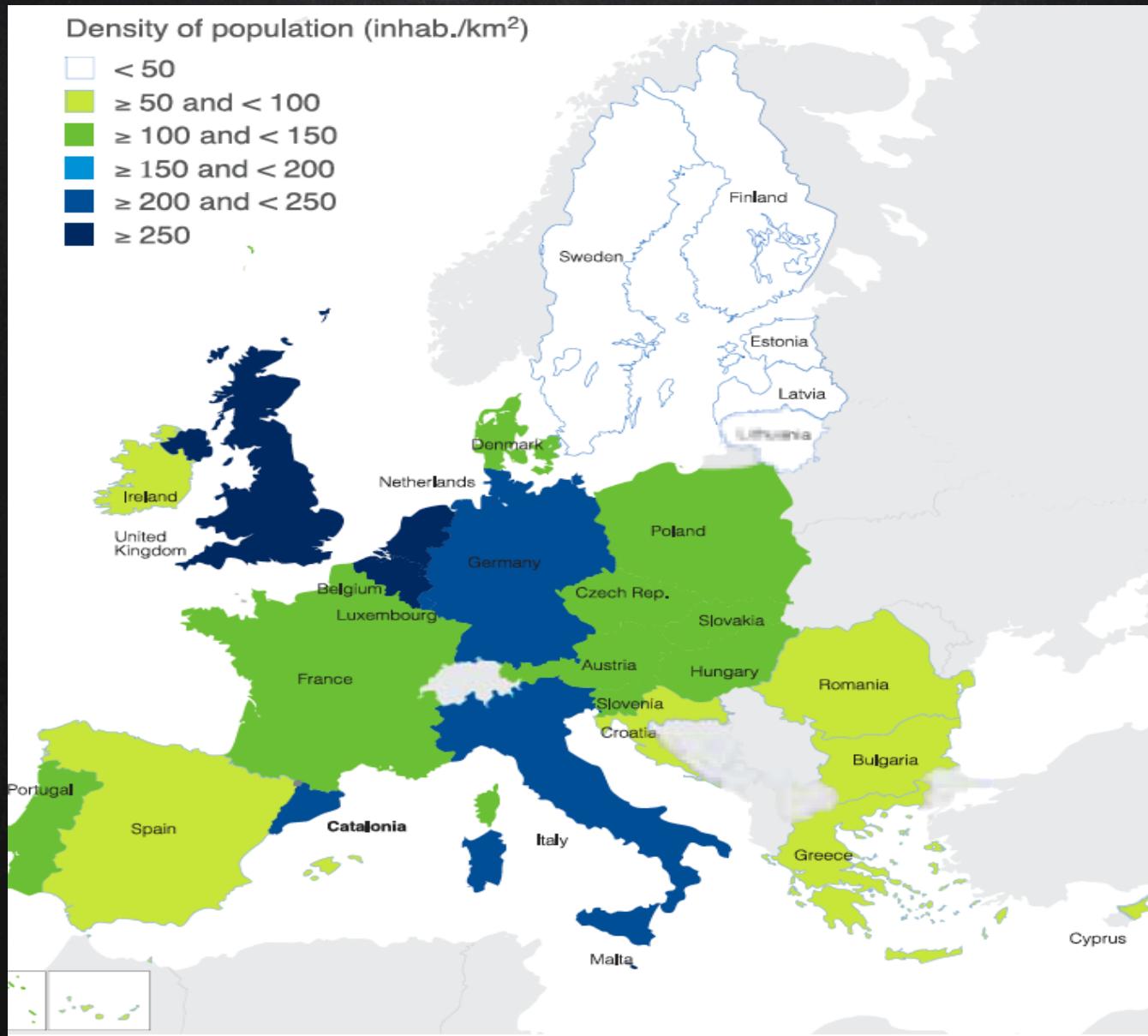
GDP per capita
PPP (EU-27=100)

Catalonia: 116.9
Spain: 97.7
EU-27: 100

Source: Idescat, INE and Eurostat

POPULATION		2012		
		Catalonia	Spain	EU-28
Population (1 000) ⁽¹⁾		7 479	46 704	505 730
males		49.3	49.3	48.8
females		51.0	50.8	51.2
Foreigners (%)		15.7	12.0	4.1
Net migration ⁽²⁾		-6.8	-3.5	1.7
Natural increase ⁽²⁾		1.9	1.0	0.4
Total increase ⁽²⁾		-4.9	-2.4	2.2
Birth rate ⁽²⁾		10.3	9.7	10.4
Children per woman		1.39	1.36 ⁽³⁾	1.57 ⁽³⁾

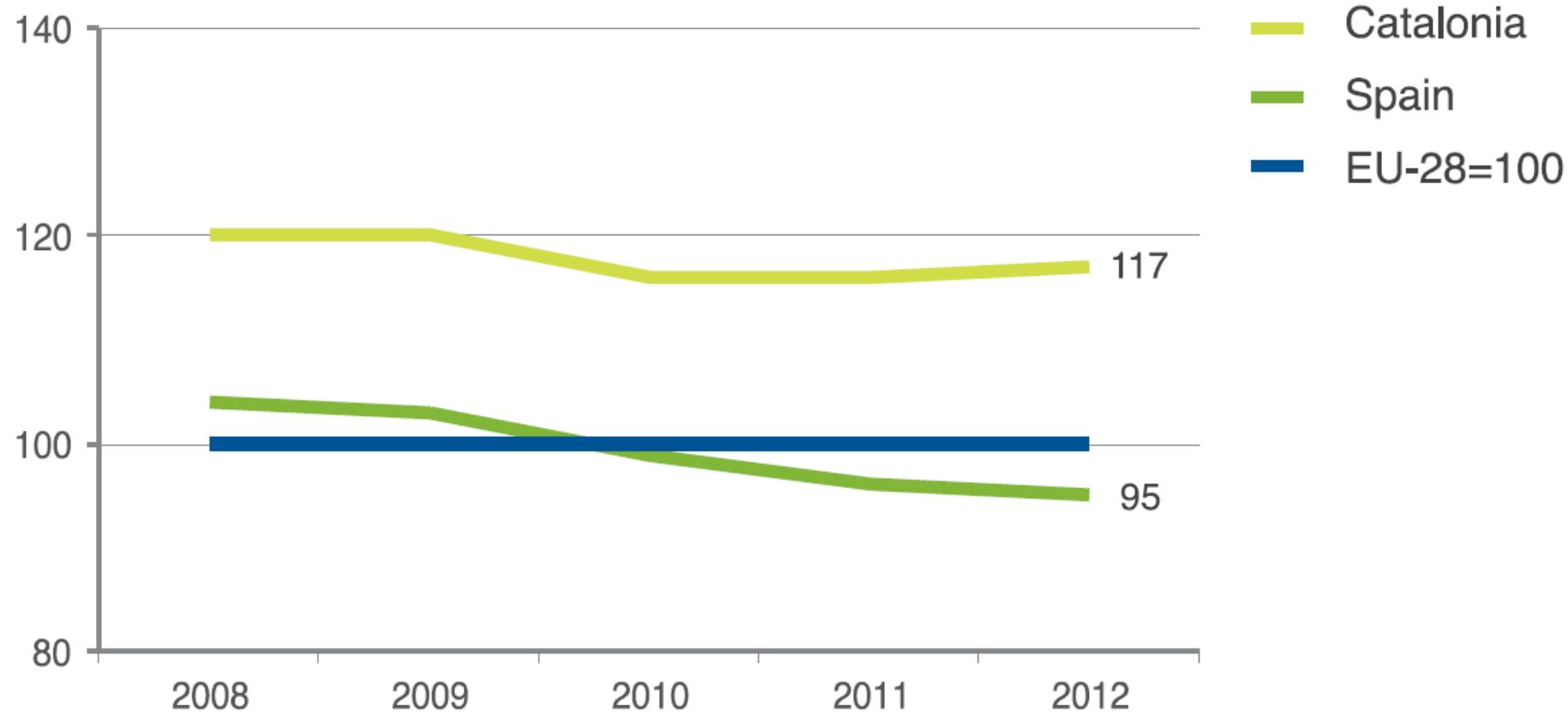
Switzerland :22%



LABOUR MARKET		2012	
	Catalonia	Spain	EU-28
Active population (1 000)	3 735	23 051	243 596
Activity rate (%) ⁽¹⁾	➔ 61.5	➔ 59.3	➔ 57.7
males	67.6	66.2	64.8
females	55.8	52.9	51.0
Employment (1 000)	2 889	17 282	217 511
agriculture (%)	1.9	4.2	5.2
industry and construction (%)	25.1	19.2	22.7
services (%)	73.0	76.6	72.1
Unemployment rate (%)	➔ 22.7	➔ 25.0	➔ 10.5
males	23.2	24.7	10.4
females	22.1	25.4	10.6
< 25 year old	➔ 50.7	➔ 53.2	➔ 23.0

⁽¹⁾ This rate has been calculated for the population 15 year old and over.

GPD PER INHABITANT (Purchasing power parity)



- **Gateway** for trade **between** Europe, Spain and North Africa
- **Good Communications:**
 - Mediterranean railway corridor included in the EU core network
 - 2nd country with high-speed railway in the world/ sq km
- **Excellence in Research:**
 - Pharmaceutical Research (Esteve (**ISDIN**), Almirall (**Almax**), Grifols (**plasma**), Ferrer (**Gelocatil**), Uriach (**biodramina**), etc.)
 - Medical Research (breast cancer, heart-disease, etc.)
 - Excellences Centers in Research: Marenostrum Supercomputer, Synchrotron

Marenostrum Supercomputer



Particle accelerator Synchrotron ALBA

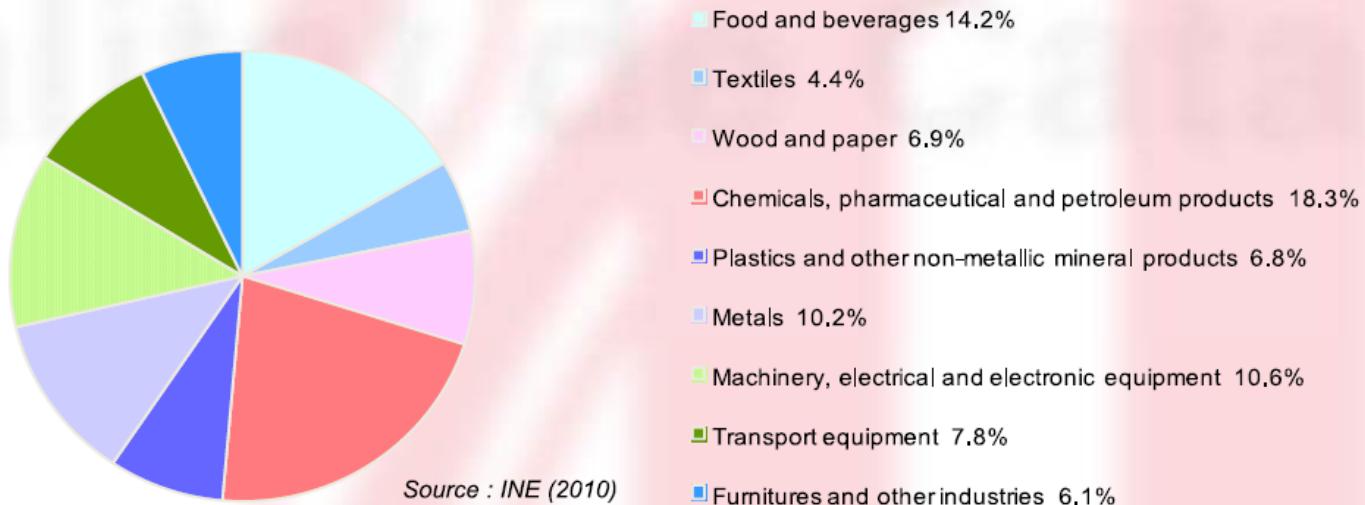


Key economic drivers of Catalonia (II)

Diversified industry

- The industry accounts for 20.9% of GVA.
- The industry has increased its specialization in pharma, bio-tech, and biomedicine.

Industry GVA by branches

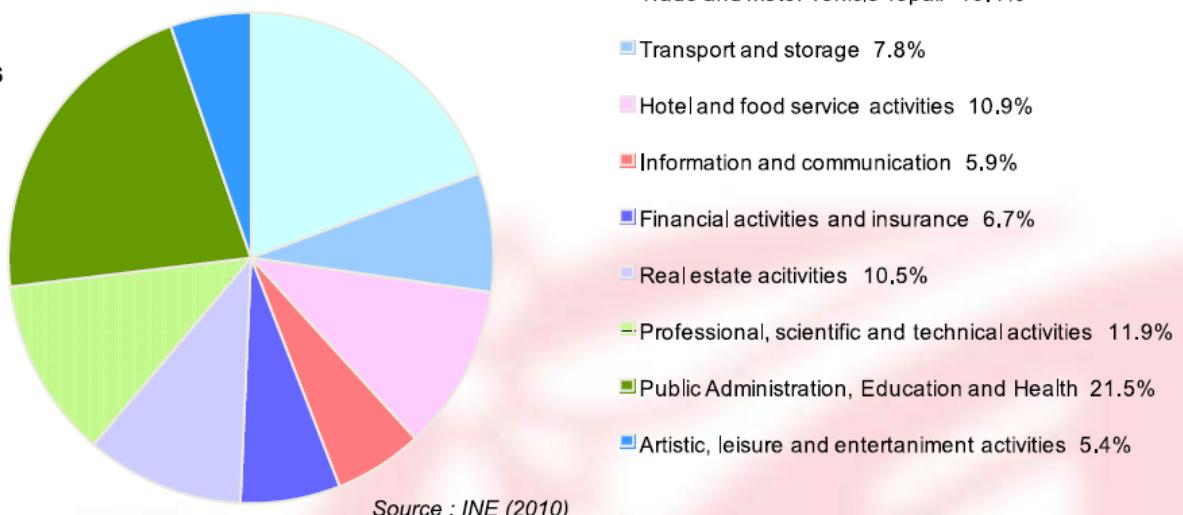


Key economic drivers of Catalonia

Importance of services

- 69.6 % of GVA in service sector
- Diversified services

Services GVA by branches



Key economic drivers of Catalonia

Tourism

- Tourism is 11% of the Catalan GDP
- Catalonia receives 25% of all foreigners visiting Spain
- Barcelona is Europe's largest cruise port and it ranks 4th in the world
- Catalonia ranks first region in Europe in bed-places
- Foreign tourism expenditure grew 9.9% during 2012, and 11.3% during 2013 (January-September period)

Barcelona is the 5th city most visited in the world
and 75% of people repeat

Spain: 2nd country in ranking incomes by tourism



Open economy

- Economic international and interregional openness index is approximately 130%
- 26.2% of Spanish exports of goods are Catalan
- 59.8% of our exports outside of Spain have medium-high or high technological content

Markets outside the EU have expanded rapidly



DESTINATION OF CATALAN EXPORTS (2012)

	Distribution (%)	Annual growth (%)*
EU-27	62.0	0.2
Germany	11.4	21.3
France	17.2	-6.6
Italy	8.1	-5.2
Portugal	5.7	-10.5
UK	5.0	8.6
Rest of Europe	11.1	15.6
Switzerland	5.0	21.3
North-America	3.2	6.8
US	2.9	7.2
Central and South America	6.7	20.6
Rest of the world	17.0	16.6
Japan	1.0	29.2
China	1.7	29.1
Total	100.0	5.7

Source: Idescat

* Current prices

* Openness index = $(X+M/GDP)$