



European Commission

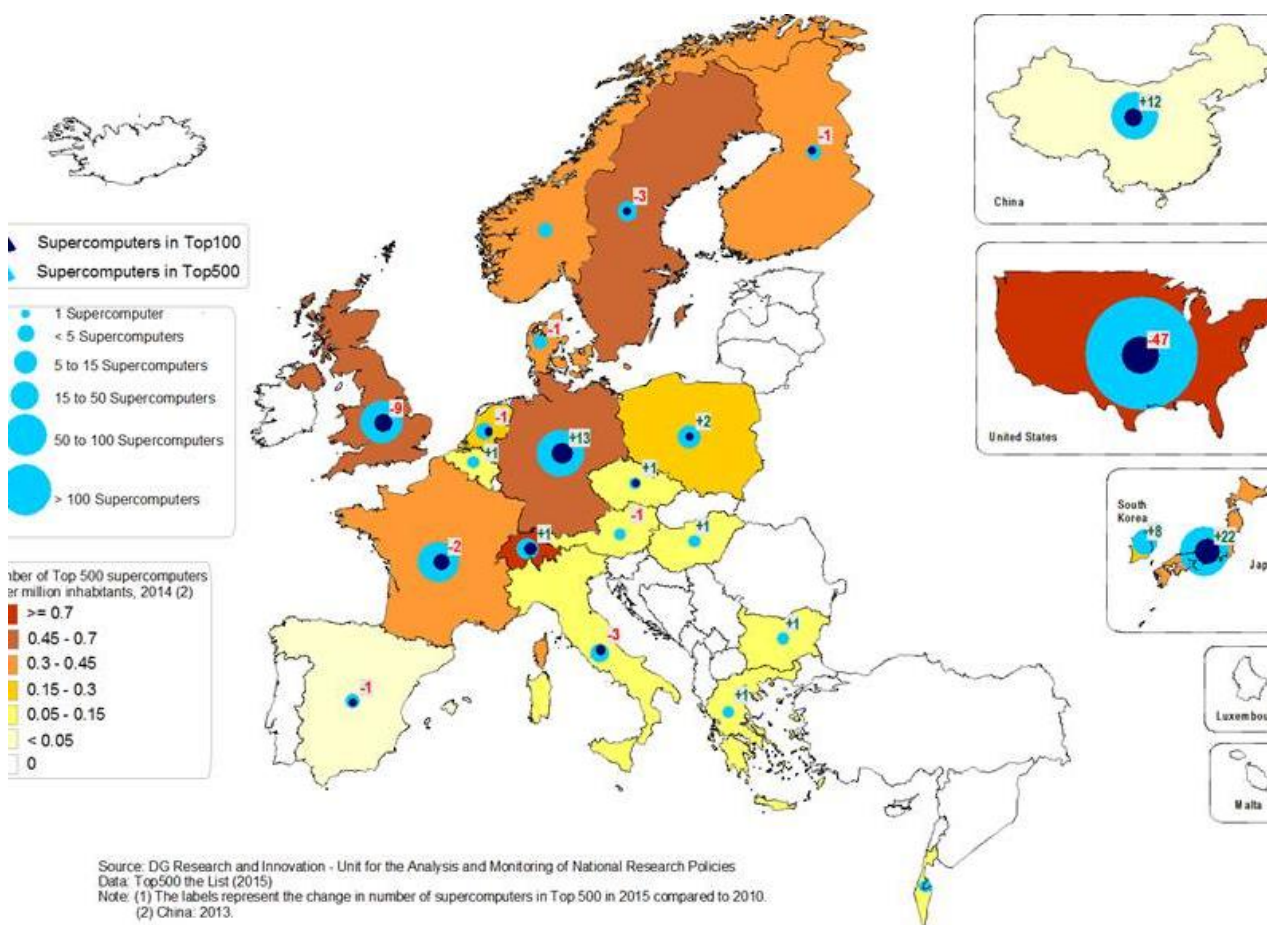
Issue 9 / September 2015

NEWSLETTER on STI Indicators

DG RTD, A4, Analysis and monitoring of national research policies

1. Data on supercomputers

In June **Top500** updated the list of top 500 supercomputer sites world wide. Since 2013 China has the world's top supercomputer (measured by Tflop/s), Tianhe-2 (MilkyWay-2) at the National Super Computer Center in Guangzhou. This computer has Intel Xeon processors. Ranked 2nd is a US Department of Energy computer at the Oak Ridge National Laboratory in Tennessee. The top ranked European site is the Swiss National Supercomputing Centre (CSCS) in Lugano. The top EU supercomputer site is the JUQUEEN system at the Forschungszentrum Jülich in Germany (ranked 9th). The US has 5 of the top 10 supercomputers, China, Japan, Saudi-Arabia, Switzerland and Germany one site each. As regards the number of top 500 supercomputer sites the US leads with 233 (in June 2015, down from 280 in 2010), followed by Japan (40), China (37), Germany (37), the UK (29) and France (27), see also graph below.



More info: <http://www.top500.org/>

Research and Innovation

2. The Global Innovation Index 2015

On 16 September WIPO, INSEAD and Cornell University published the 2015 edition of the **Global Innovation Index**, which is based on a large set of 79 indicators audited by JRC-Ispra. The 2015 Index shows Switzerland on top, followed by the UK and Sweden (see table below). Other EU countries in the top 10 are the Netherlands (ranked 4, up from rank 5 in 2014), Finland (6, down two ranks), Ireland 8 (up three ranks), Luxembourg (9) and Denmark (10, down two ranks). The report contains an infographic on leading countries in specific areas (see annex).

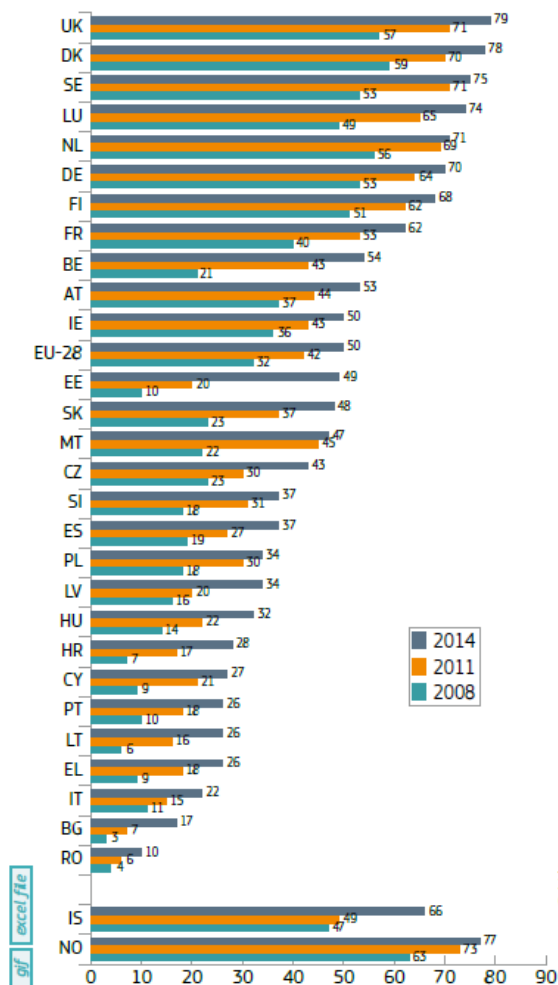
Top Ranking

1	Switzerland (Number 1 in 2014)	6	Finland (4)
2	United Kingdom (2)	7	Singapore (7)
3	Sweden (3)	8	Ireland (11)
4	Netherlands (5)	9	Luxembourg (9)
5	United States of America (6)	10	Denmark (8)

More info: <https://www.globalinnovationindex.org/content/page/GII-Home>

3. The Consumer Scoreboard

Figure 43: Online shopping (% of population who ordered goods or services over the Internet for private use in the last 12 months)



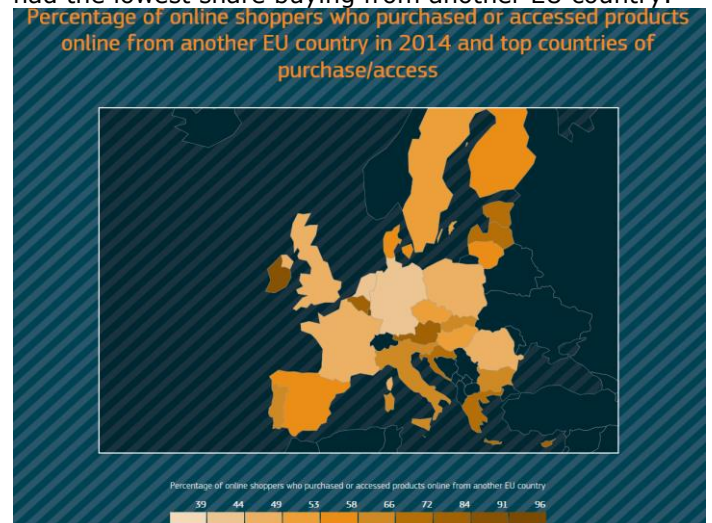
In September the Commission (DG Justice and Consumers) published the **Consumer Conditions Scoreboard**. The Scoreboard contains data on e-commerce that show that half of Europeans shop online (up from 32% in 2008 and 42% in 2011) and that online sales represent 2% of EU GDP.

The UK leads in the share of population who ordered goods or services for private use over the Internet (79% in 2014), followed by Denmark and Sweden.

Italy (22%), Bulgaria (17%) and Romania (10%) are the countries where the lowest share of the population orders goods or services online.

While 61% of Europeans who shop online were confident buying from their own country, only 38% were confident buying online from another country and only 15% were actually buying from another country. 4 out of 10 consumers buying from another country thought they were buying from their own country.

Luxembourg, Belgium, Austria and Ireland were the countries where the highest share bought online from another EU country, while Germany and the Netherlands had the lowest share buying from another EU country.



More info: http://ec.europa.eu/consumers/consumer_evidence/consumer_scoreboards/11_edition/index_en.htm



Global Innovation Index 2015

In a perfect world for innovation who would do what?

Top ranking countries/economies for selected indicators from the Global Innovation Index 2015. #GI2015

INFRASTRUCTURE

- Denmark
Use of information technologies
- Germany
Logistics performance
- Uruguay
Online e-participation
- Mongolia
New infrastructure investment as share of GDP

INSTITUTIONS

- Finland
Government effectiveness
- Singapore
Regulatory quality
- New Zealand
Ease of starting a business

KNOWLEDGE & TECHNOLOGY OUTPUTS

- Sri Lanka
Growth rate of per capita GDP
- USA
Quality of scientific publications
- Hong Kong (China)
New business creation
- India
Computer service exports
- Malaysia
High-tech exports

BUSINESS SOPHISTICATION

- Luxembourg
Knowledge-intensive employment
- USA
University & industry research collaboration
- United Arab Emirates
State of cluster development
- Belarus
Women with advanced degrees
- Rep of Korea
R&D financed by firms

CREATIVE OUTPUTS

- Paraguay
Domestic resident trademark applications
- Estonia
Information technologies & organizational innovation
- Serbia
Export of creative industries
- Australia
Printing and publishing industry size

MARKET SOPHISTICATION

- Bolivia
Microfinance as a share of GDP
- Colombia
Ease of getting Credit

HUMAN CAPITAL AND RESEARCH

- Lesotho
Education expenditure as share of GDP
- Iran
Graduates in science and engineering as share of graduates
- Israel
R&D expenditure as a share of GDP
- China
Performance of pupils in reading, math & science
- Georgia
Pupil-teacher ratio in secondary school
- UK
Quality of universities

Calendar of data releases and indicator based publications Update of: 29/09/2015 (grey= already published)			
2015	Eurostat data updates	Commission indicator based reports	Data and indicator based reports other organisations
January			
February	GBAORD final (2013) Tertiary attainment (2014, prov.) High growth enterprises data (provisional, 2013) IPR (patent 2012), Community Trademarks (2013), RCD (2013)	Winter forecast (ECFIN)	European Patent Office , EPO annual results (2014)
March	R&D intensity (2013 update)	Europe 2020 publication (ESTAT)	Times Higher Ed. World Reputations Ranking OICA world motor vehicle production data
April	Education headline indicators (LFS)	Skills forecast (Cedefop)	OECD R&D expenditure data
May	High tech trade (2014) Venture capital (2014) Education enrolment, graduates	Innovation Union Scoreboard (GROW) Spring Forecast (ECFIN)	IMD World Competitiveness Yearbook European Venture Capital Association (EVCA) 2014 European Private Equity Report
June	Education spending		
July	IPR (Patents, 2012), Community Trademarks (2014), RC Designs (2014) Knowledge intensive activities (2014)		UNESCO UIS STI stats release
August			Academic Ranking of World Universities (Shanghai)
September	GBAORD (2014 preliminary) Employment high-tech (2014) HRST (stocks and job mobility, 2014) Final high growth enterprise data (2013)		WIPO/Cornell/INSEAD Global Innovation Index
October		European Competitiveness report (GROW)	World Bank Doing Business OECD STI Scoreboard (2-yearly) BDI/Telekom Innovation Indicator
November	R&D intensity (2014 preliminary, 2013 final) Economic data on high-tech (2014) HRST (education inflows, 2013)	Education Monitor (EAC) Autumn Forecast (ECFIN) Industrial R&D Investment Scoreboard (JRC) Annual Growth Survey (ECFIN)	Top500.org: Top 500 Supercomputer list OECD Education at a Glance
December	ICT household data (2015) ICT enterprise data (2015) IPR Statistics (patents 2013), CTM (2014), RCD (2014)	SheFigures (3-yearly (RTD)) Joint Employment Report (EMPL)	WIPO World Intellectual Property Indicators

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