

TABLE: Innovation Union Scoreboard dimensions and indicators

Main type / Innovation dimension / Indicator	Data source: Numerator	Data source: Denominator	Years covered
ENABLERS			
Human resources			
1.1.1 New doctorate graduates (ISCED 6) per 1000 population aged 25-34	Eurostat	Eurostat	2005 – 2012
1.1.2 Percentage population aged 30-34 having completed tertiary education	Eurostat	Eurostat	2006 – 2013
1.1.3 Percentage youth aged 20-24 having attained at least upper secondary level education	Eurostat	Eurostat	2006 – 2013
Open, excellent and attractive research systems			
1.2.1 International scientific co-publications per million population	Science-Metrix using Scopus data	Eurostat	2005 – 2012
1.2.2 Scientific publications among the top 10% most cited publications worldwide as % of total scientific publications of the country	Science-Metrix using Scopus data	Science-Metrix using Scopus data	2002 – 2009
1.2.3 Non-EU doctorate students as percentage of all doctorate students	Eurostat	Eurostat	2005 – 2012
Finance and support			
1.3.1 R&D expenditure in the public sector as percentage of GDP	Eurostat	Eurostat	2006 – 2013
1.3.2 Venture capital investment as percentage of GDP	Eurostat	Eurostat	2008 – 2013
FIRM ACTIVITIES			
Firm investments			
2.1.1 R&D expenditure in the business sector as percentage of GDP	Eurostat	Eurostat	2006 – 2013
2.1.2 Non-R&D innovation expenditures as percentage of turnover	Eurostat (CIS)	Eurostat (CIS)	2006, 2008, 2010, 2012
Linkages & entrepreneurship			
2.2.1 SMEs innovating in-house as percentage of SMEs	Eurostat (CIS)	Eurostat (CIS)	2006, 2008, 2010, 2012
2.2.2 Innovative SMEs collaborating with others as percentage of SMEs	Eurostat (CIS)	Eurostat (CIS)	2006, 2008, 2010, 2012
2.2.3 Public-private co-publications per million population	Centre for Science and Technology Studies (CWTS) using Thomson Reuters data	Eurostat	2008 – 2012
Intellectual assets			
2.3.1 PCT patents applications per billion GDP (in Purchasing Power Standard €)	OECD	Eurostat	2004 – 2011
2.3.2 PCT patent applications in societal challenges (environment-related technologies; health) per billion GDP (in Purchasing Power Standard €)	OECD	Eurostat	2004 – 2011
2.3.3 Community trademarks per billion GDP (in Purchasing Power Standard €)	Office for Harmonization in the Internal Market	Eurostat	2006 – 2013
2.3.4 Community designs per billion GDP (in Purchasing Power Standard €)	Office for Harmonization in the Internal Market	Eurostat	2006 – 2013
OUTPUTS			
Innovators			
3.1.1 SMEs introducing product or process innovations as percentage of SMEs	Eurostat (CIS)	Eurostat (CIS)	2006, 2008, 2010, 2012

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3.1.2 SMEs introducing marketing or organisational innovations as percentage of SMEs	Eurostat (CIS)	Eurostat (CIS)	2006, 2008, 2010, 2012
3.1.3 Employment in fast-growing firms of innovative sectors	Eurostat	Eurostat	2010 – 2012
Economic effects			
3.2.1 Employment in knowledge-intensive activities (manufacturing and services) as percentage of total employment	Eurostat	Eurostat	2008 – 2013
3.2.2 Medium and high-tech product exports as percentage of total product exports	Eurostat / United Nations	Eurostat / United Nations	2006 – 2013
3.2.3 Knowledge-intensive services exports as percentage of total service exports	Eurostat	Eurostat	2005 – 2012
3.2.4 Sales of new to market and new to firm innovations as percentage of turnover	Eurostat (CIS)	Eurostat (CIS)	2006, 2008, 2010, 2012
3.2.5 License and patent revenues from abroad as percentage of GDP	Eurostat	Eurostat	2006 – 2013