



ASSOLOMBARDA
Confindustria Milano Monza e Brianza

Booklet Italy, Lombardy and Milan

A cura dell'Area / Edited by

Centro Studi/Research Unit

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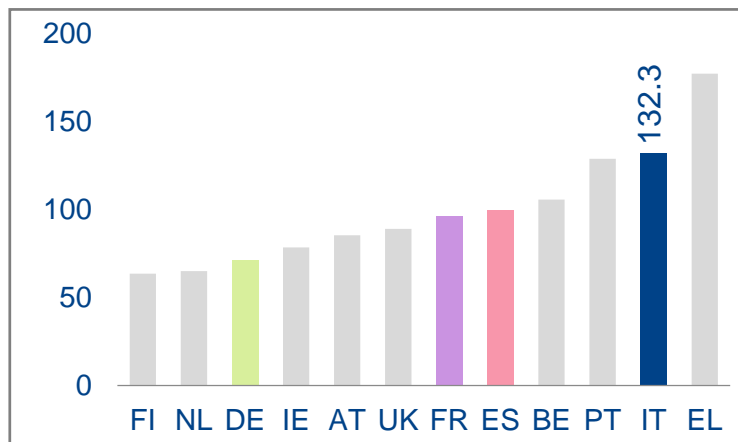
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- R&D investments made by businesses in Lombardy: aligned to the German Länder
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1. Italy and Lombardy: perception and reality

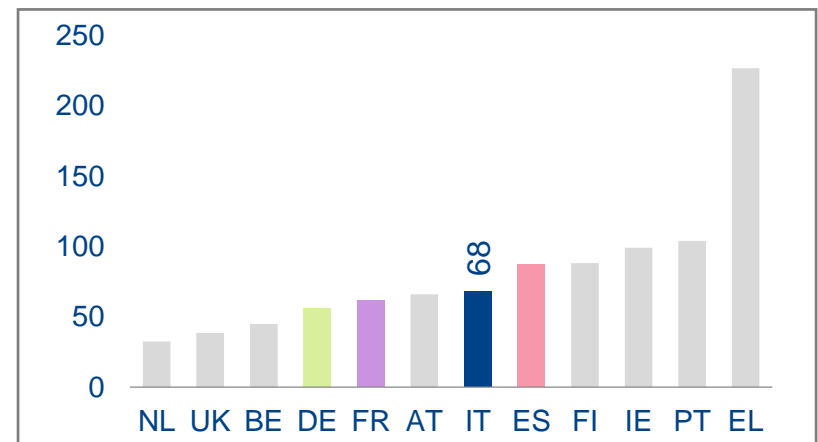
Italy and Lombardy: perception and reality

Italian public debt: 132.3% of GDP but only 68% of household net financial assets

Public debt as percentage of GDP - 2015



Public debt as percentage of household net financial assets (*) - 2015

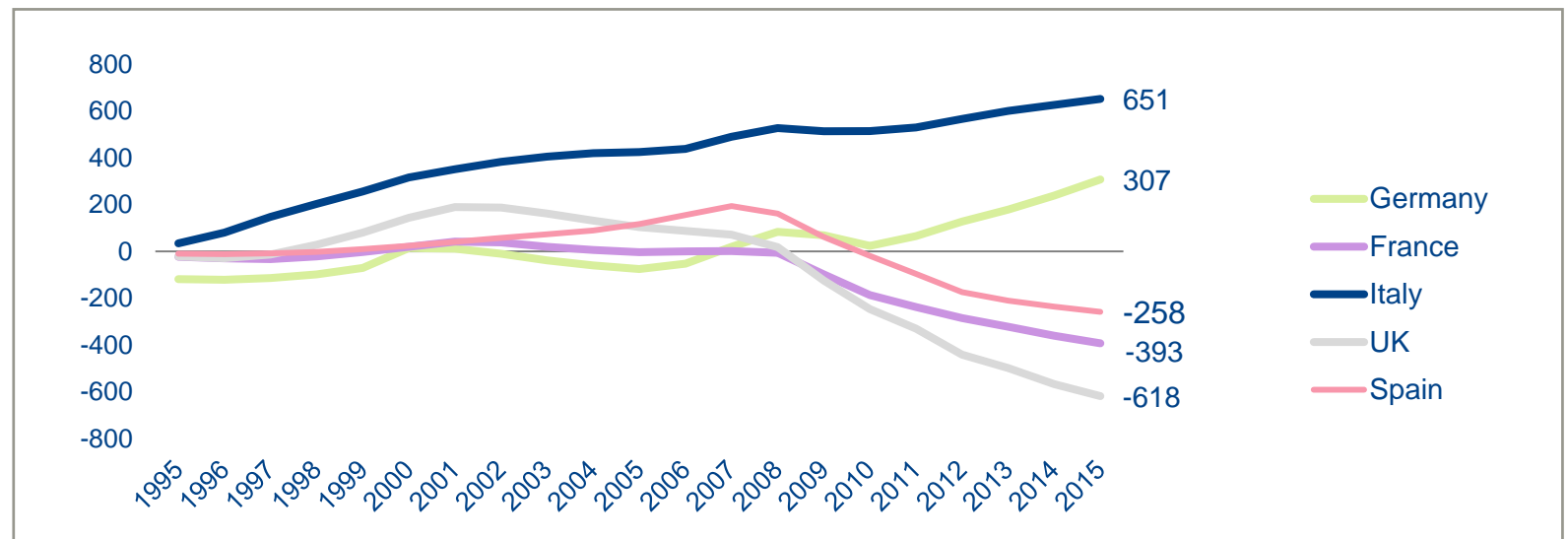


(*) Financial assets held by households include: currency and deposits, securities other than shares, loans, shares and other equity, net equity of households in life insurance reserves, net equity of households in pension funds, prepayments of premiums and reserves against outstanding claims

Italy and Lombardy: perception and reality

Italian primary surplus: the highest cumulated value

Cumulated primary balances
(current values – billions of euro)

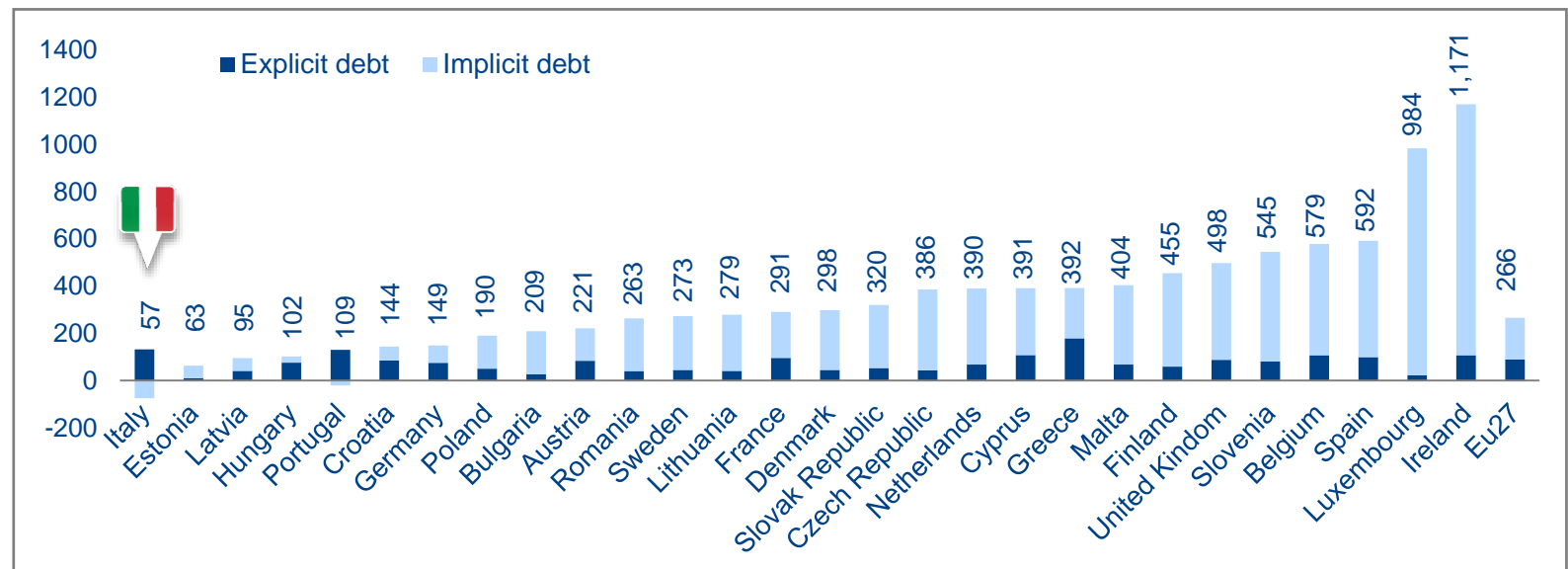


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Eurostat data

Italy and Lombardy: perception and reality

Explicit and implicit debt: Italy «tops» the EU sustainability ranking

EU Sustainability Ranking - 2015
(explicit and implicit debt as % of GDP)

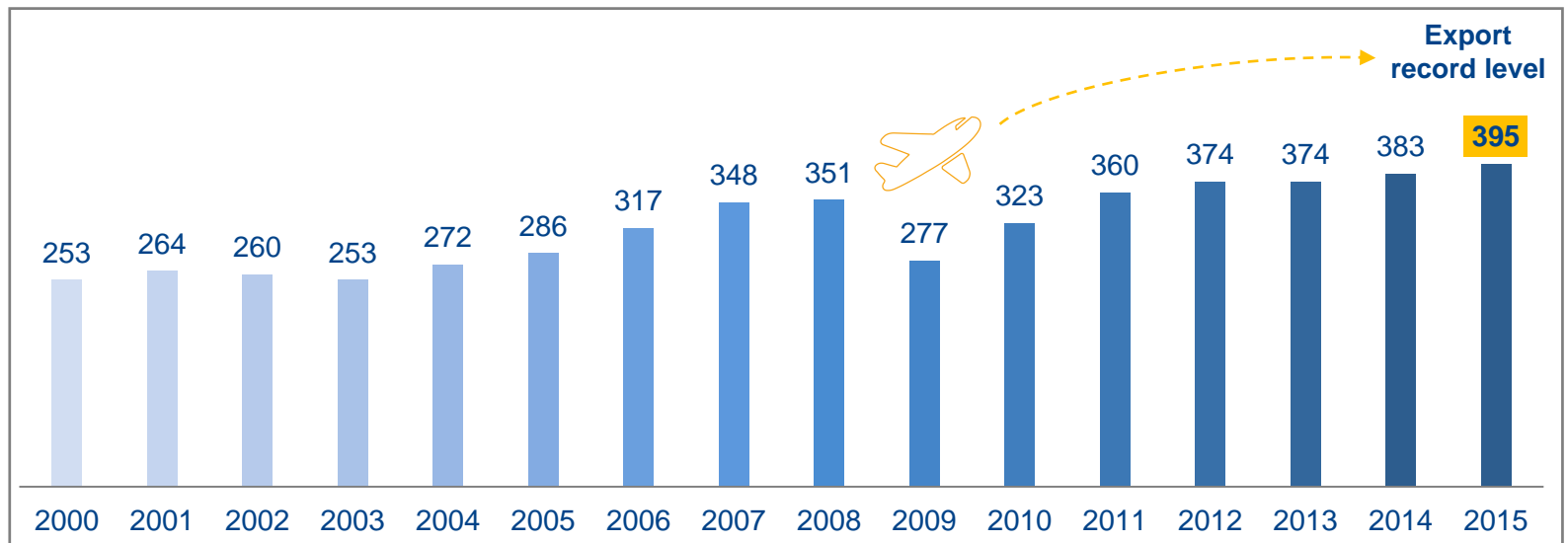


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Stiftung Marktwirtschaft data

Italy and Lombardy: perception and reality

Italian manufacturing export performance 2000-2015

Italian manufacturing export
(billions of euro)

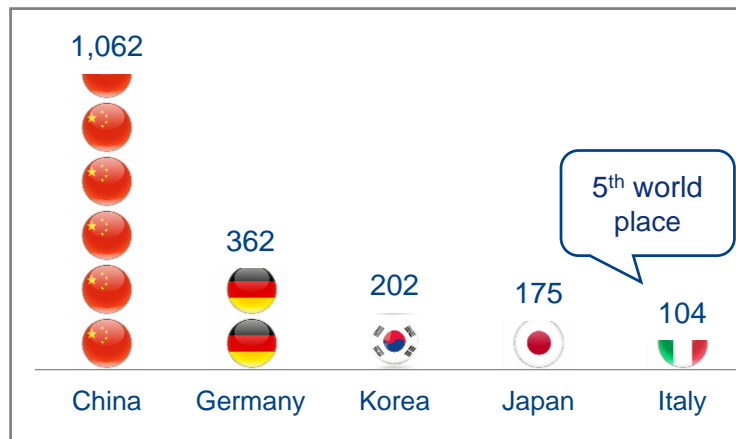


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Istat data

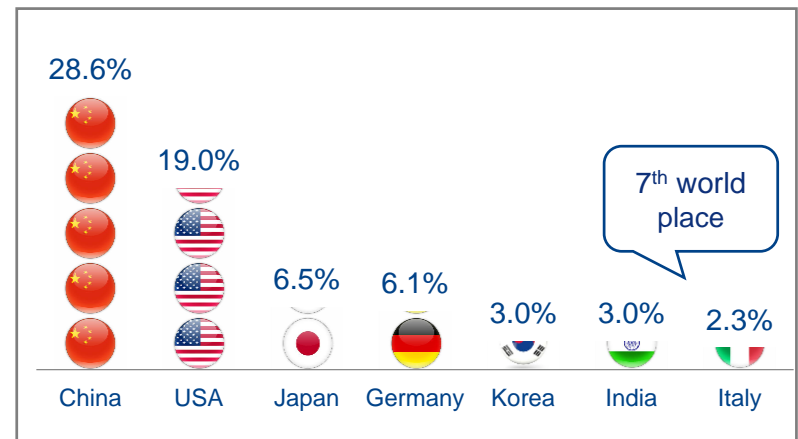
Italy and Lombardy: perception and reality

Italian manufacturing sector in global rankings

Manufacturing trade surplus - 2015
(US billion dollar)



Share (%) of global manufacturing value added - 2015
(%, current prices, US dollar)



Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on WTO and CSC data

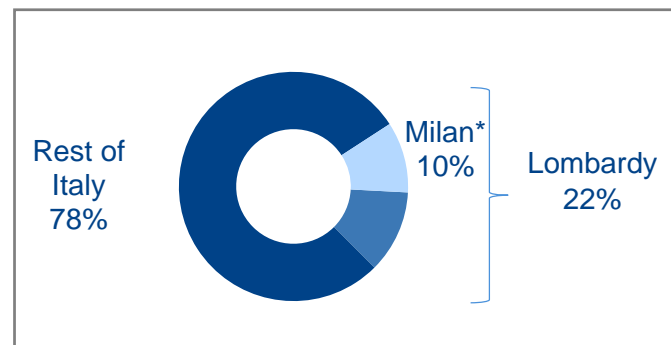
2. Lombardy and Milan: business structures

Lombardy and Milan: business structures

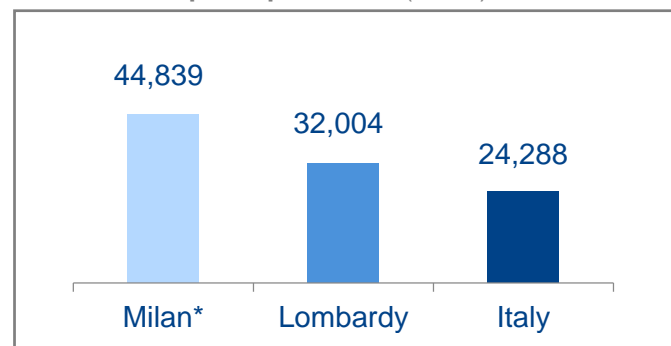
The leading Italian Region: in 2015, 22% of the Italian GDP

	Lombardy	Italy	Share
Area (square Km)	23,864	302,073	7.9%
Population (1/1/2016)	10,008,349	60,665,551	16.5%
Workforce (thousand, 2015)	4,620	25,498	18.1%
GDP (nominal, millions euro, 2015)	359,047	1,642,444	21.9%
Value Added (per capita, 2015)	32,004	24,288	-
Enterprises (2014)	807,466	4,359,087	18.5%
R&D expenditure (millions euro, 2014)	4,625	22,291	20.8%
Import (millions euro, 2015)	116,162	370,484	31.4%
Export (millions euro, 2015)	111,341	412,291	27.0%

Gross Domestic Product % - 2015



Value Added per capita - 2015 (euros)



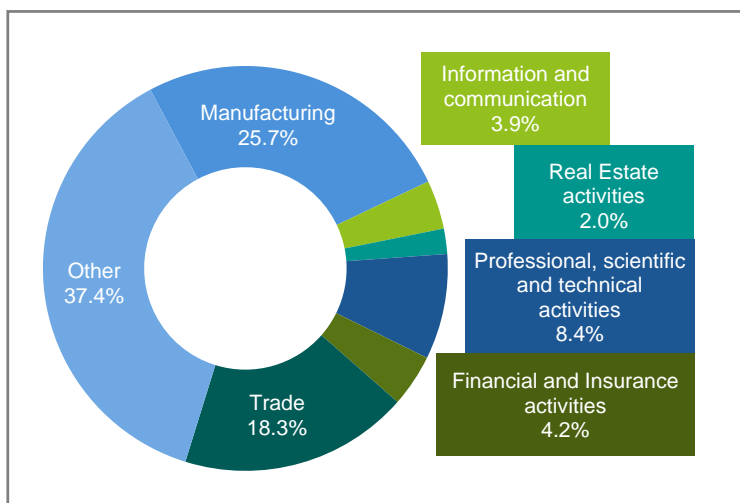
(*) 2014

Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Istat data

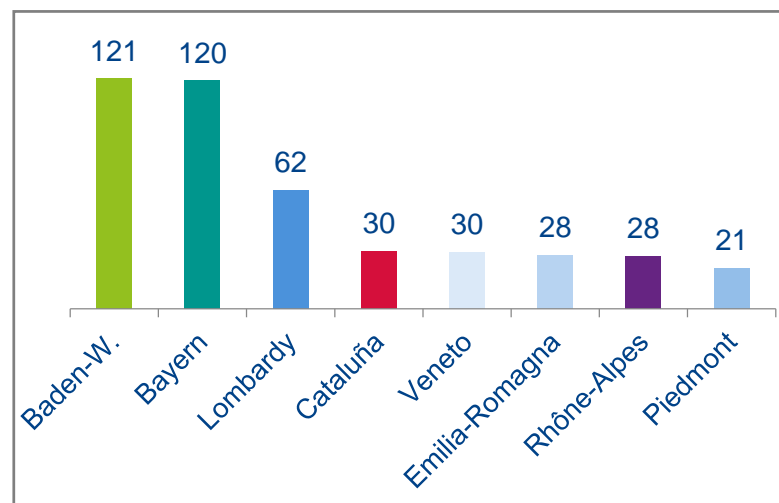
Lombardy and Milan: business structures

Lombardy in comparison: the leading Italian Region in terms of manufacturing gross value added

Lombardy workforce by business sector - 2014



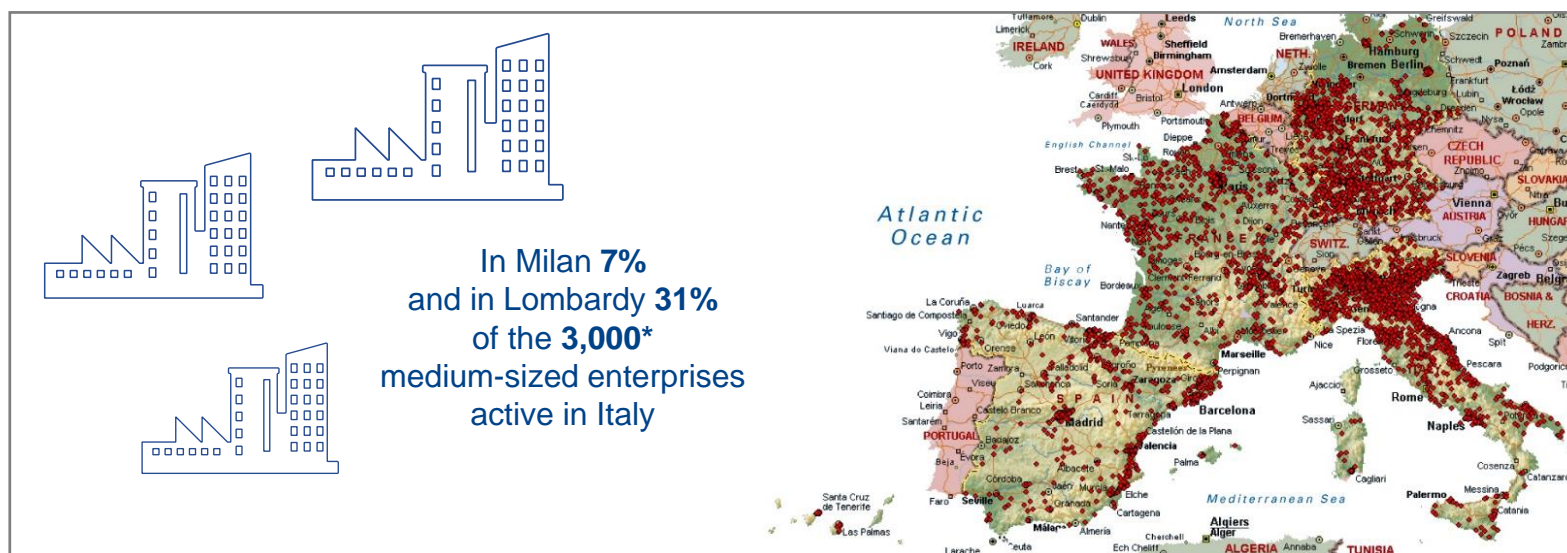
Gross value added at basic prices by region - 2013
(Manufacturing, billions of euro)



Lombardy and Milan: business structures

250 medium-sized enterprises of manufacturing sector are located in Milan, 1,000 are located in Lombardy

Number of medium-sized manufacturing companies, with a workforce comprised between 50 and 499 employees, sales volume between 15 and 330 million euros (excluding subsidiaries of large corporations or those under foreign control)

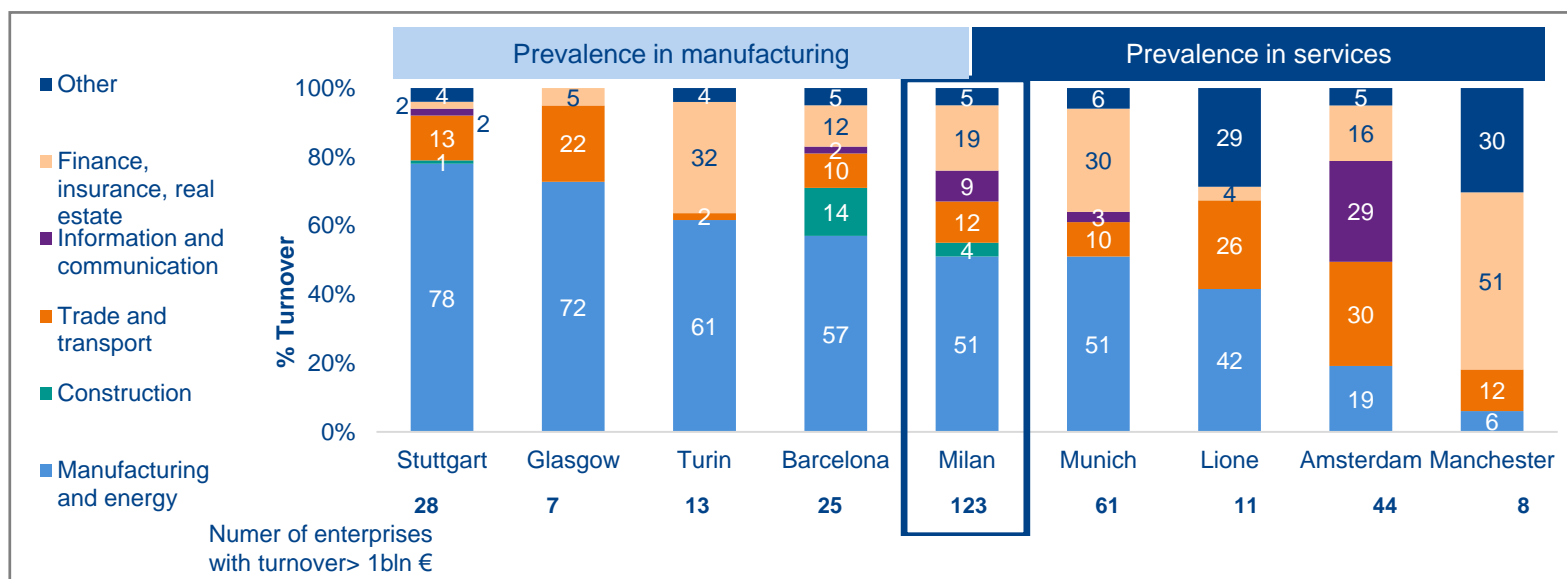


* Italian medium-sized manufacturing companies account for approximately 15% of the domestic manufacturing value added and of Italian exports

Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Mediobanca – Unioncamere data

Lombardy and Milan: business structures

123 large enterprises in Milan



Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on BCG data

Lombardy and Milan: business structures

Milan as prime location for multinationals operating in Italy: over 3,000

Foreign multinational enterprises

Over **3,000** foreign multinational enterprises are located in Milan (34% of those active in Italy)
with **289,000** employees and **169 billion €** turnover

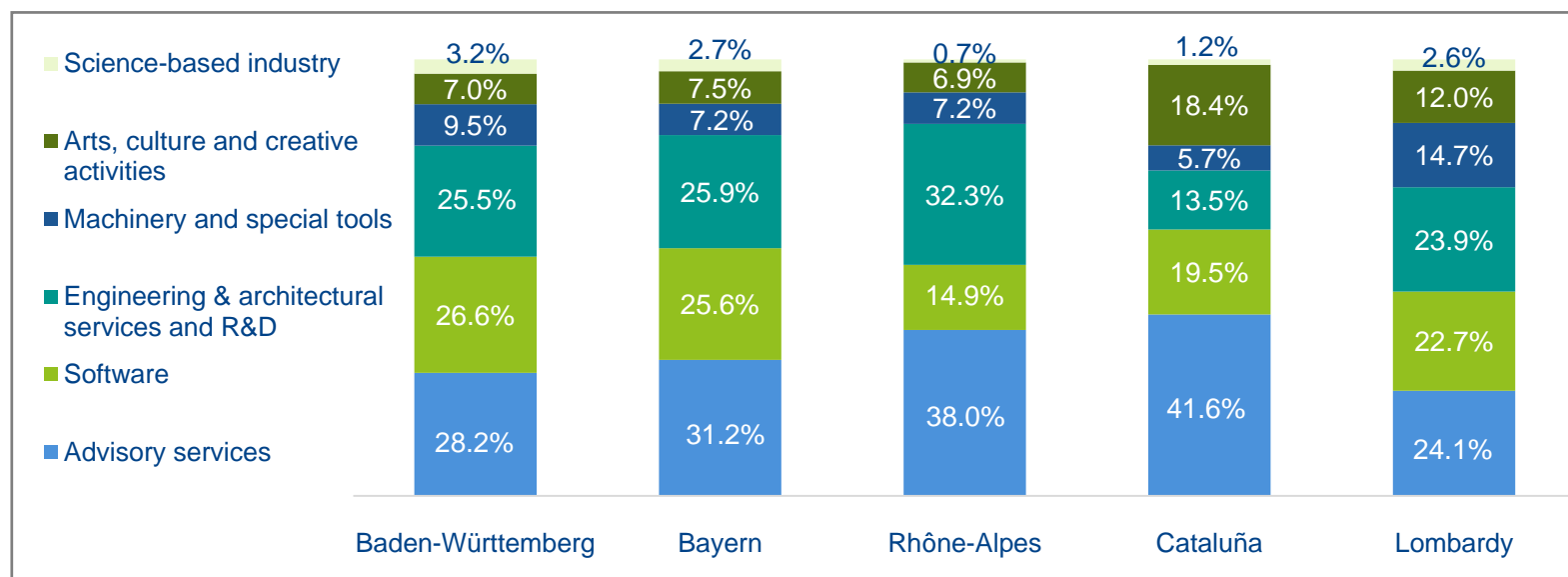


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Milan Chamber of Commerce data

Lombardy and Milan: business structures

Over 12,000 knowledge-intensive startups born in Lombardy (2007-2013)

12,121 knowledge-intensive startups - out of 52,675 located in Italy - born in Lombardy (2007-2013)

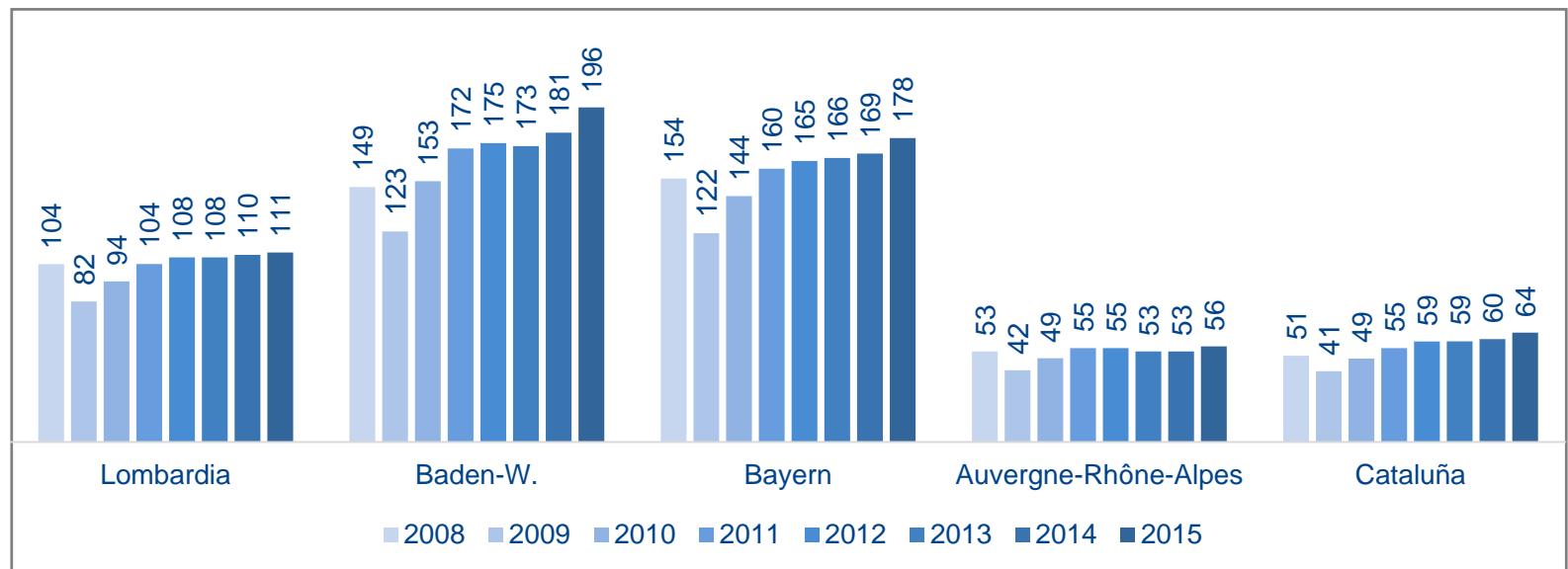


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza and Politecnico of Milano data

Lombardy and Milan: business structures

Export: Lombardy vs other European Regions

Export
(billions of euro)



Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Istat, Destatis, Idescat, Douanes et droits indirects data

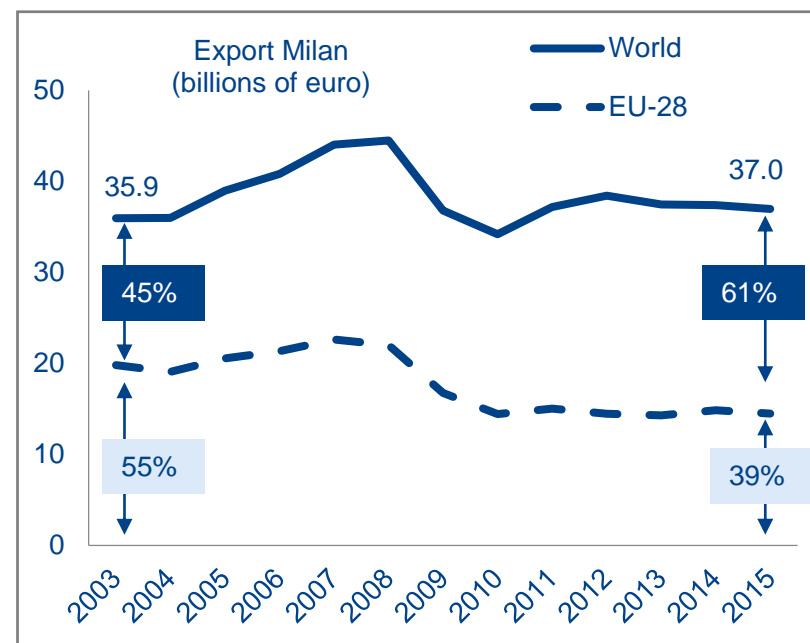
Lombardy and Milan: business structures

Export: main commercial partners of Lombardy

Main Commercial partners: the case of Lombardy - 2015
(millions of euro)

		Export 2015	% change 2015-2008
1	Germany	14,825	3.8%
2	France	11,257	-7.6%
3	USA	8,240	40.2%
4	Switzerland	6,411	28.1%
5	Spain	5,884	-9.1%
6	United Kingdom	5,319	12.5%
7	China	3,421	42.4%
8	Poland	2,952	12.4%
9	Netherlands	2,750	4.8%
10	Turkey	2,659	30.3%

Repositioning on Extra-EU markets: the case of Milan - 2015

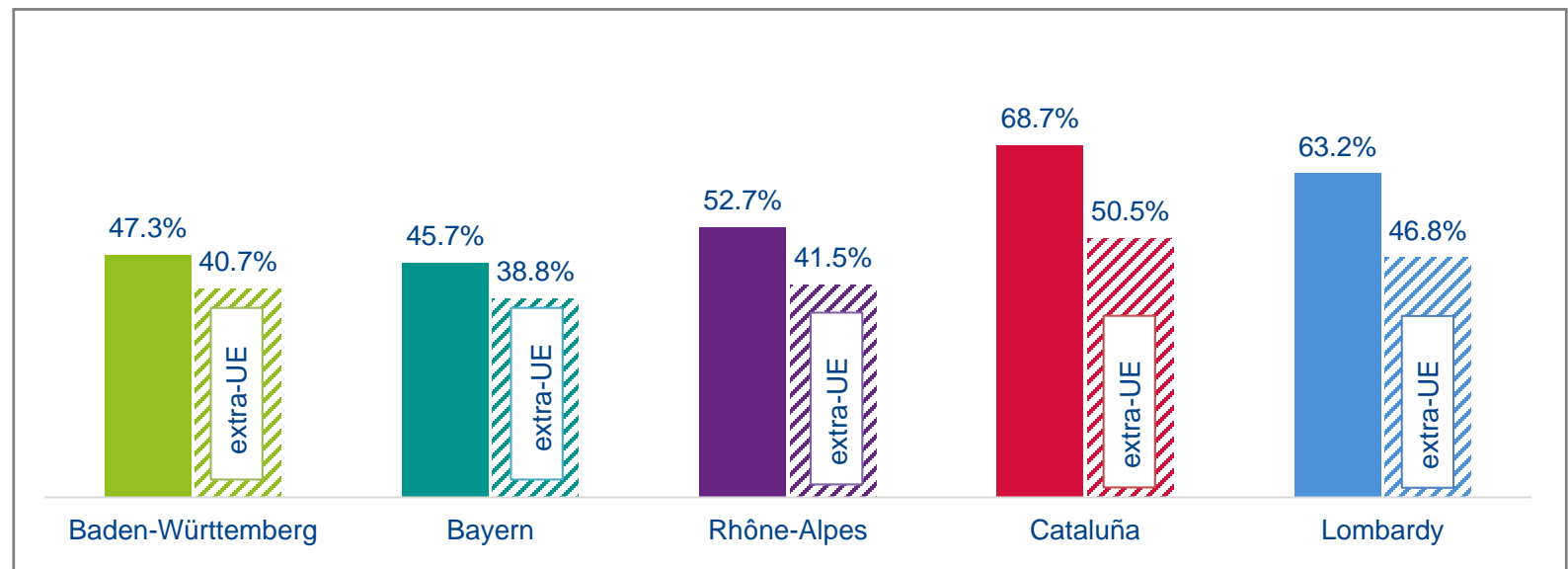


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Istat data

Lombardy and Milan: business structures

Openness to international trade: overtaking the German Länder ...

Manufacturing exporting firms - 2013
(% of firms)

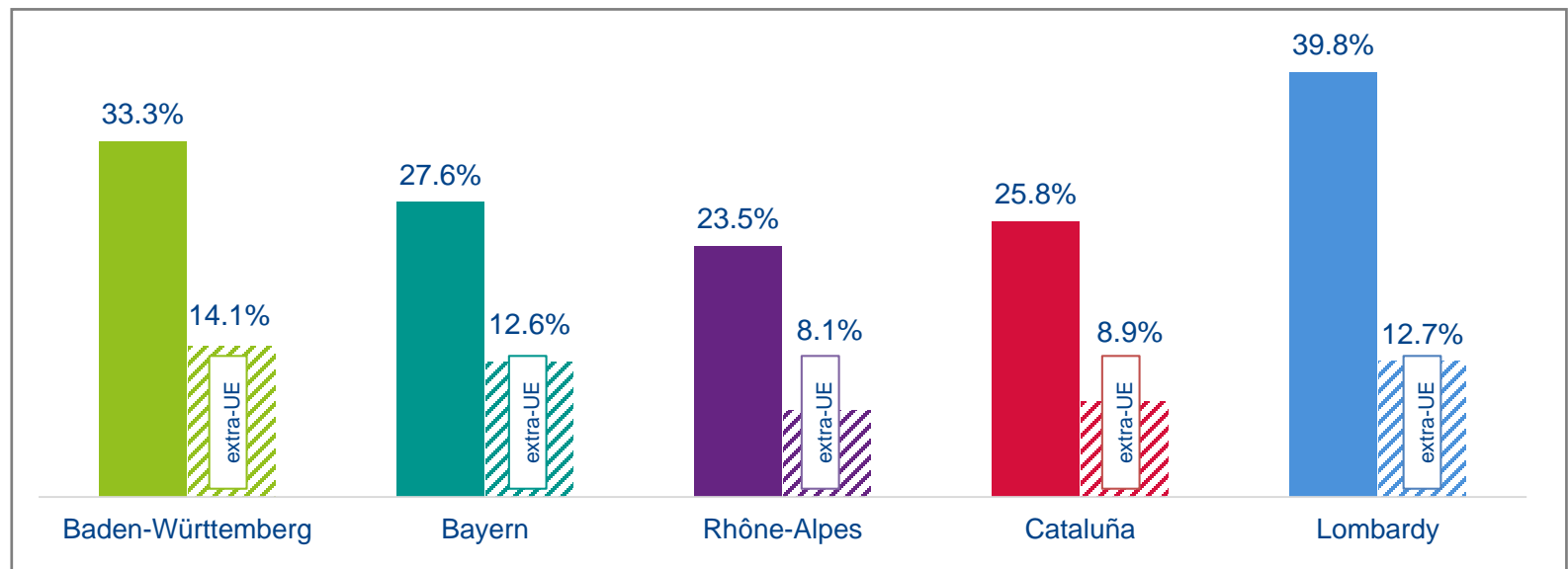


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Assolombarda Confindustria Milano Monza e Brianza, *The performance of European firms: a benchmark analysis*

Lombardy and Milan: business structures

... also worthy of mention: the importance of export % over total turnover

Export turnover of manufacturing firms – 2013
(% over total turnover)



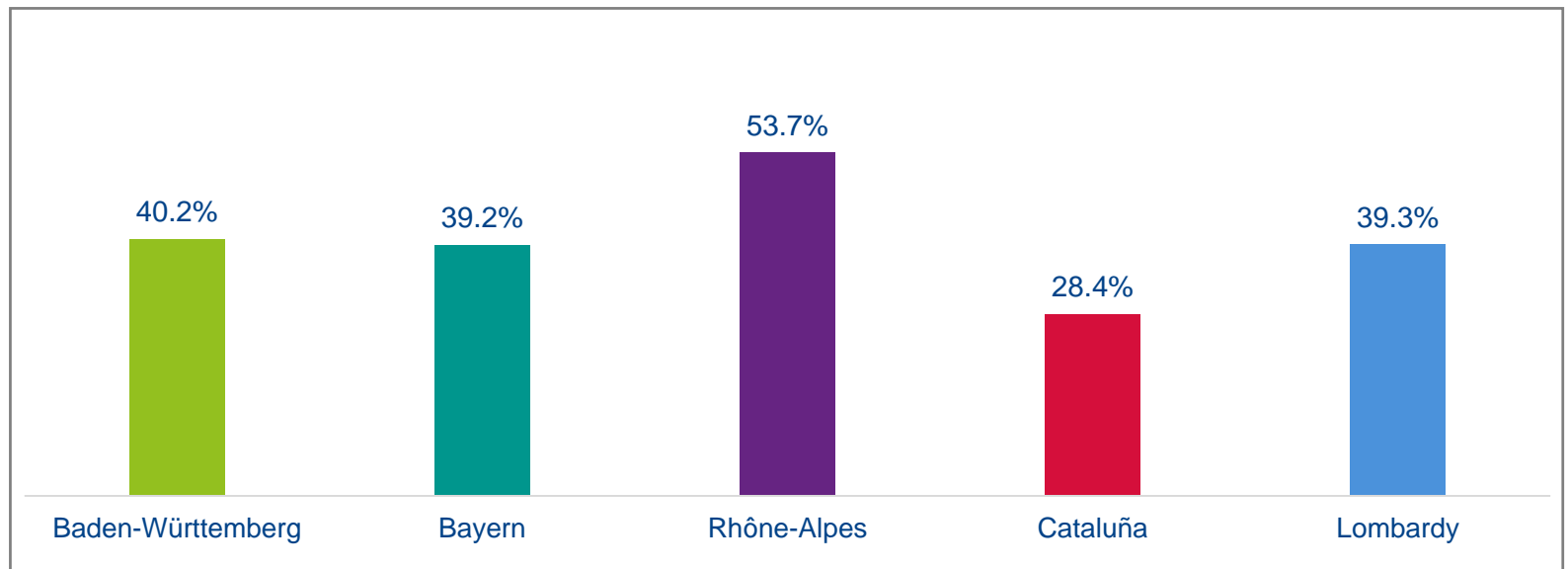
Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Assolombarda Confindustria Milano Monza e Brianza, *The performance of European firms: a benchmark analysis*

3. Lombardy and Milan: their strengths

Lombardy and Milan: their strengths

R&D investments made by businesses in Lombardy: aligned to the German Länder

R&D activity in manufacturing – 2011-2013
(% of firms)

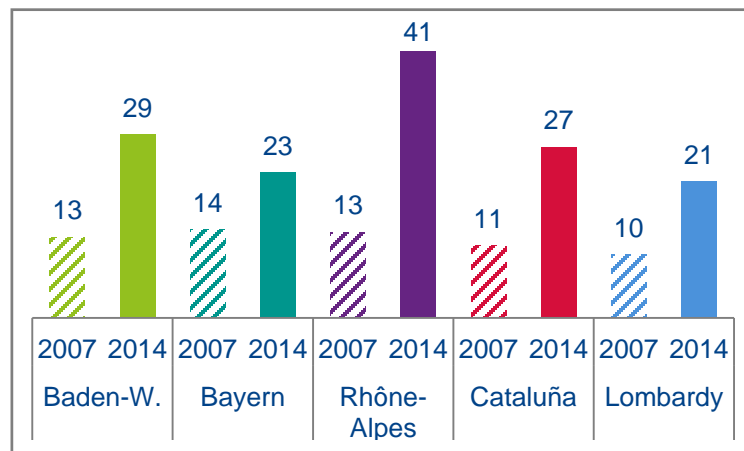


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Assolombarda Confindustria Milano Monza e Brianza, *The performance of European firms: a benchmark analysis*

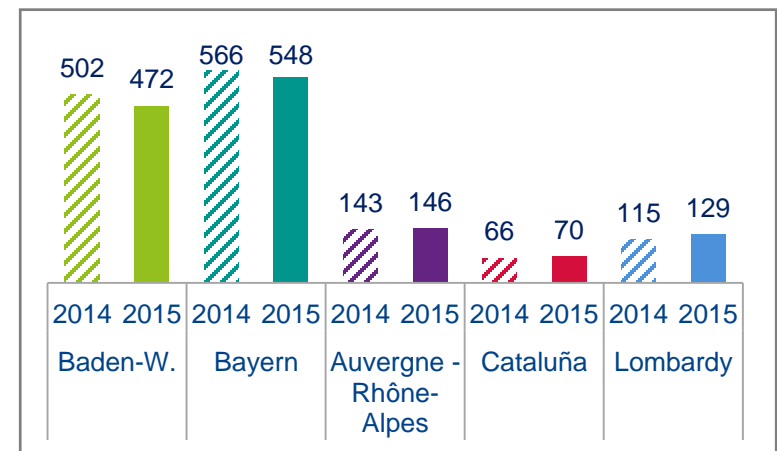
Lombardy and Milan: their strengths

Research and innovation

S.T.E.A.M highly cited articles per million inhabitants

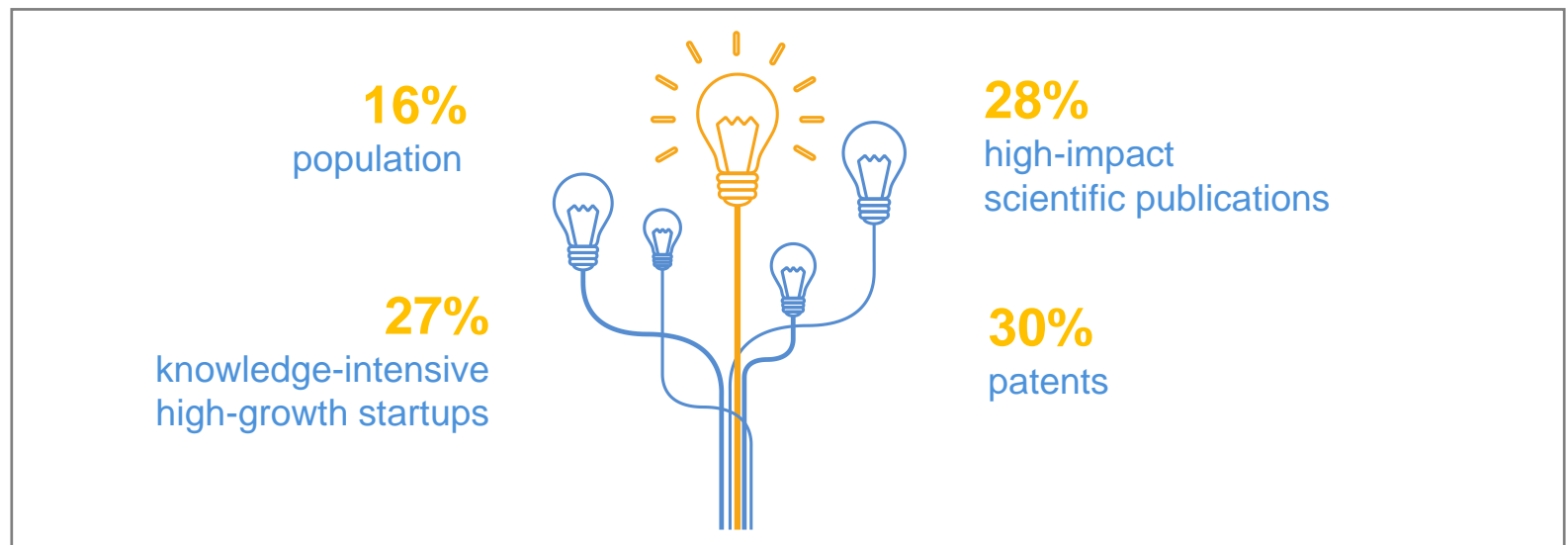


Patents per million inhabitants



Lombardy and Milan: their strengths

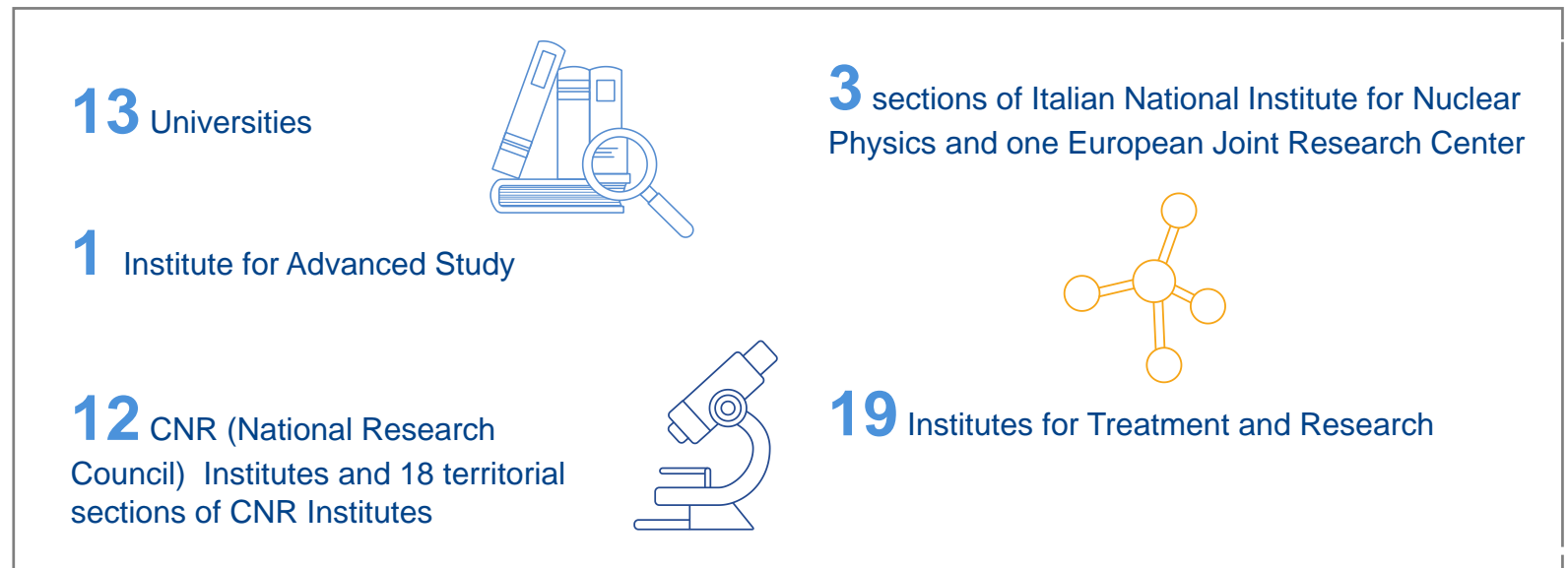
Innovation: the role of Lombardy in Italy



Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Istat data, Politecnico of Milano, CRIOS Bocconi

Lombardy and Milan: their strengths

Strong presence of public and private high quality research centers



Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on CNR data

Lombardy and Milan: their strengths

University: high concentration (13) and international attractiveness

In Lombardy

270,000 university students

Just under **13,000 international university students** (of which almost **10,000** in Milan)
equal to **5%** of the total number of students

This figure is **10%** in France
7% in Germany
2% in Spain



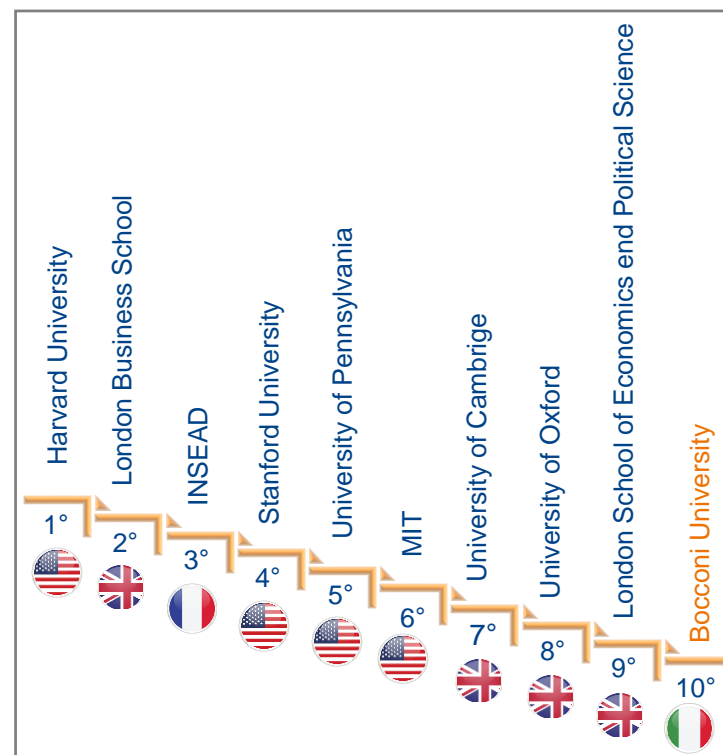
Lombardy and Milan: their strengths

Universities: Politecnico of Milano and Bocconi as examples of excellence

Engineering and Technology: Ranking by faculty (2015)

	University
1	Massachusetts Institute of Technology (MIT)
2	Stanford University
3	University of Cambridge
4	National University of Singapore (NUS)
5	ETH Zurich - Swiss Federal Institute of Technology
6	Nanyang Technological University, Singapore (NTU)
7	Imperial College London
8	University of California, Berkeley (UCB)
9	University of Oxford
10	Harvard University
11	Tsinghua University
12	The University of Tokyo
13	KAIST - Korea Advanced Institute of Science & Technology
14	The Hong Kong University of Science and Technology
15	Seoul National University
16	California Institute of Technology (Caltech)
17	EPFL (Ecole Polytechnique Fédérale de Lausanne)
18	The University of Melbourne
19	Delft University of Technology
20	Georgia Institute of Technology
21	The University of New South Wales (UNSW Australia)
22	Tokyo Institute of Technology
23	University of California, Los Angeles (UCLA)
24	Politecnico of Milano
	Princeton University

Business & Management Studies: Ranking by subject (2016)

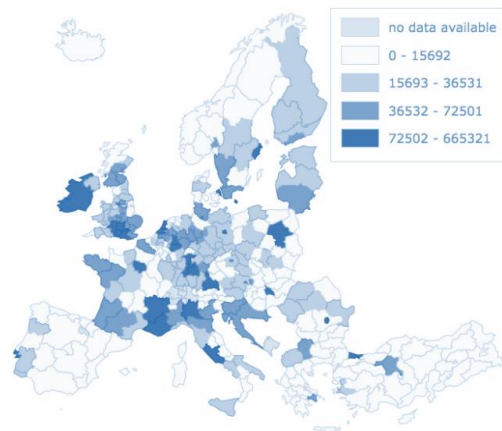


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on QS Ranking data

Lombardy and Milan: their strengths

Lombardy is a driver of Italian creativity

Number of employees of creative industries
by region (2013)



Lombardy tops the ranking of Italian regions and is also a leader at European level regarding workforce employed in creative industries

19% of Italian cultural businesses

26% of Italian value added cultural businesses

300,000 jobs provided by the sector of culture

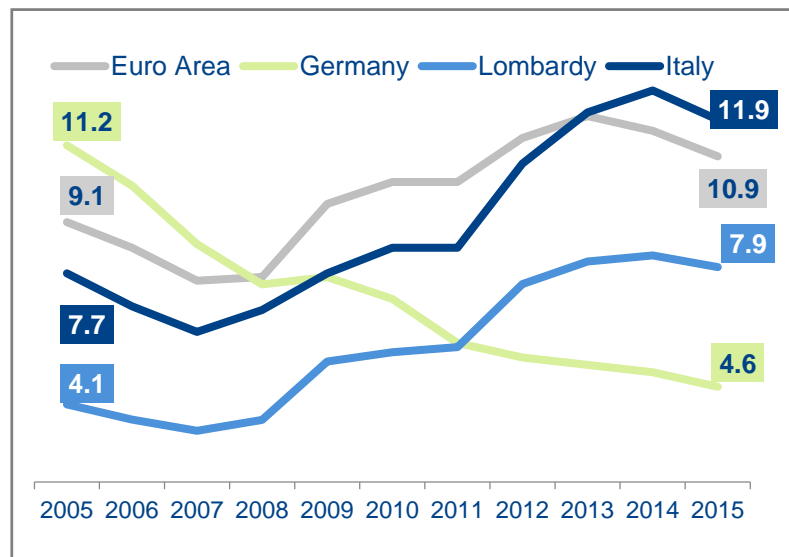
In Lombardy between 2007 and 2013, almost **1,500 knowledge-intensive startup** were born in the arts, culture and creative industry sectors

Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Symbola data, Assolombarda Confindustria Milano Monza e Brianza, Politecnico of Milano, *Booklet Startup*, European Cluster Observatory data

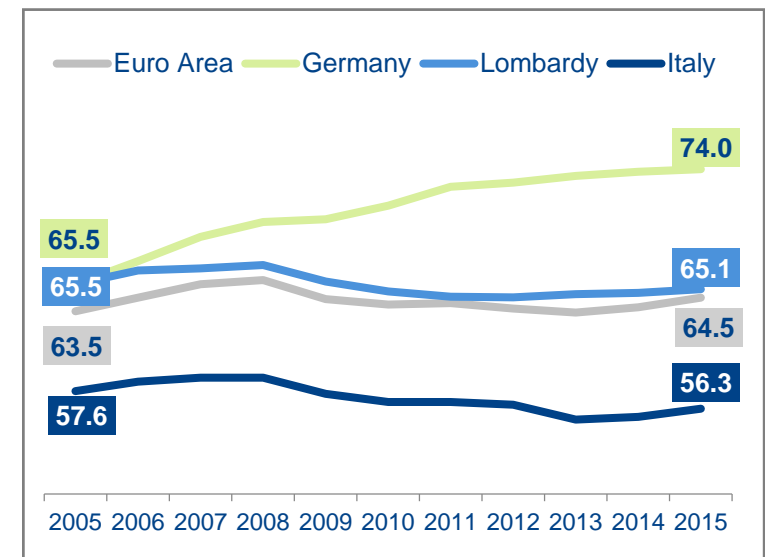
Lombardy and Milan: their strengths

Labour market: a better performance vs the Italian average

Unemployment rate



Employment rate

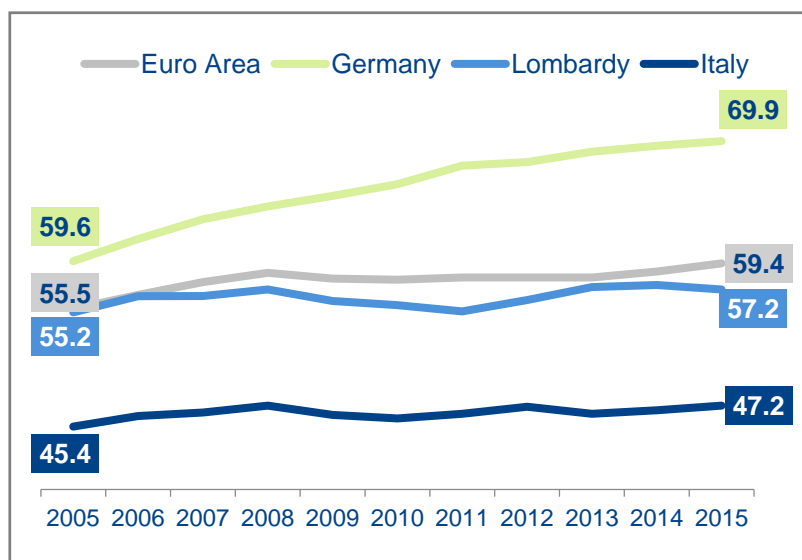


Source: Tableau de bord Assolombarda Confindustria Milano Monza e Brianza on Istat and Eurostat data

Lombardy and Milan: their strengths

Labour market: high female employment rate

Female employment rate



In Lombardy the female employment rate is aligned to the objectives stipulated by Lisbon 2010, thanks to:

- ...more **opportunities** for women to reach relevant positions/roles in their firms...
- ...diffusion of **part-time** contracts (25% among working women)...
- ...**welfare** initiatives both by large private companies and public institutions (78% of municipalities provide services for children, such as kindergarten).

Lombardy and Milan: their strengths

What makes Lombardy and Milan a knowledge hub?

Because here you find:

- a **multi-sectorial economic system**, with a core manufacturing sector integrated with a highly developed service sector (especially in Milan);
- a virtuous **network of small and medium enterprises** well integrated with **large enterprises** and **multinational companies**;
- the concentration of **13 long-standing and prestigious universities**, closely connected to the entrepreneurial system;
- a strong specialization in knowledge-intensive sectors and the availability of **high-skilled human capital**.



Lombardy and Milan: their strengths

Milan S.T.E.A.M. city

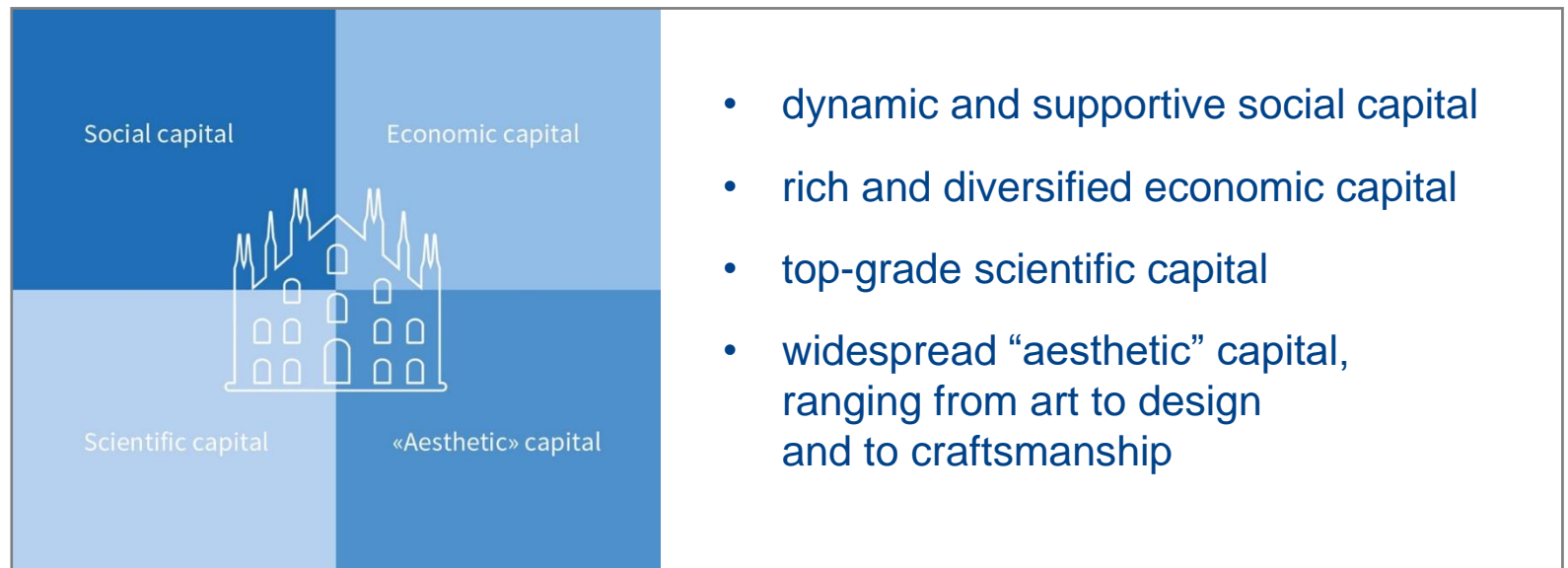
STEAM as an acronym of Science, Technology, Engineering & Environment, Arts, Manufacturing



Lombardy and Milan: their strengths

Milan S.T.E.A.M. city

The strength of Milan originates from the unique and distinctive blend of four assets:



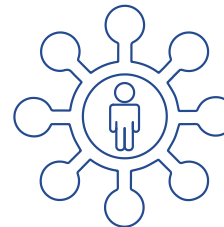
Lombardy and Milan: their strengths

Milan S.T.E.A.M. city

STEAM - our vision: 4 enablers, 3 strategic levers and 4 innovation pathways

4 enablers

- A simple and digital city
- A quick and accessible city
- Quality human capital
- An inclusive city

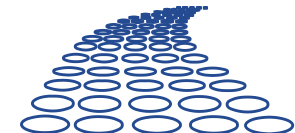


3 strategic levers

- Innovation
- Startup
- Global outreach

4 innovation pathways

- Life sciences
- Manufacturing 4.0
- Art, culture e creativity
- Sustainable economy





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