

Metro Brussels Benchmarking Analysis Update 2013

February 2014

Content

Metro Brussels

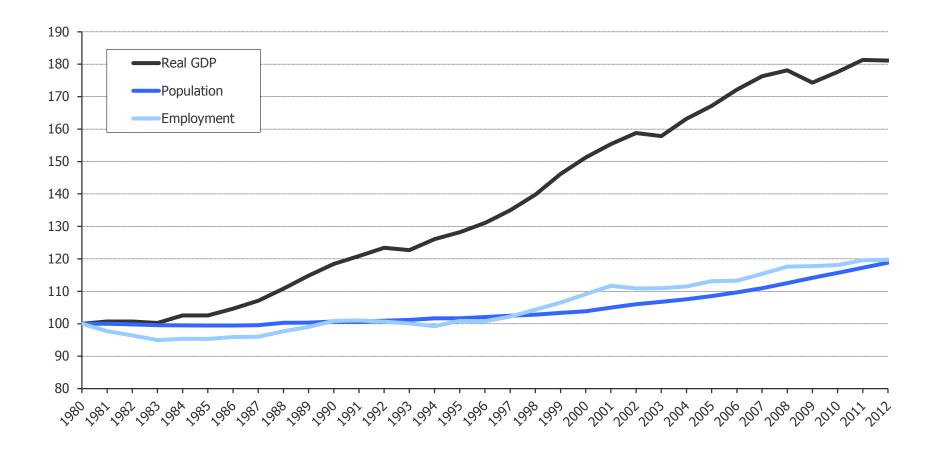
- Metro Brussels under the international Benchmarking Lens
 - Economic Performance
 - The Driver Sectors
 - The Key Industries

■ The Benchmarking of Location Factors

- Innovation Resources
- Regulation
- Taxation
- Accessibility



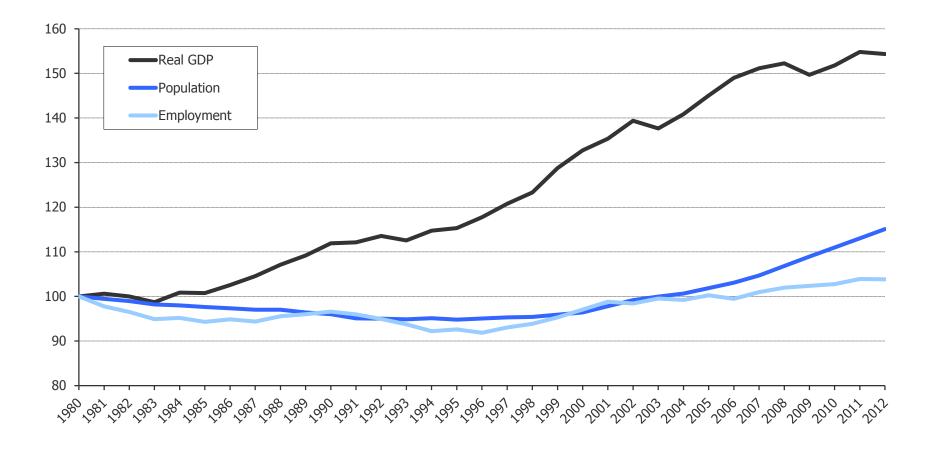
Growth of real GDP, employment and population Brussels Metropolitan Region, 1980-2012



Note Source Index 1980 = 100 (GDP in US\$ at constant prices and exchange rates, PPP corrected) BAKBASEL



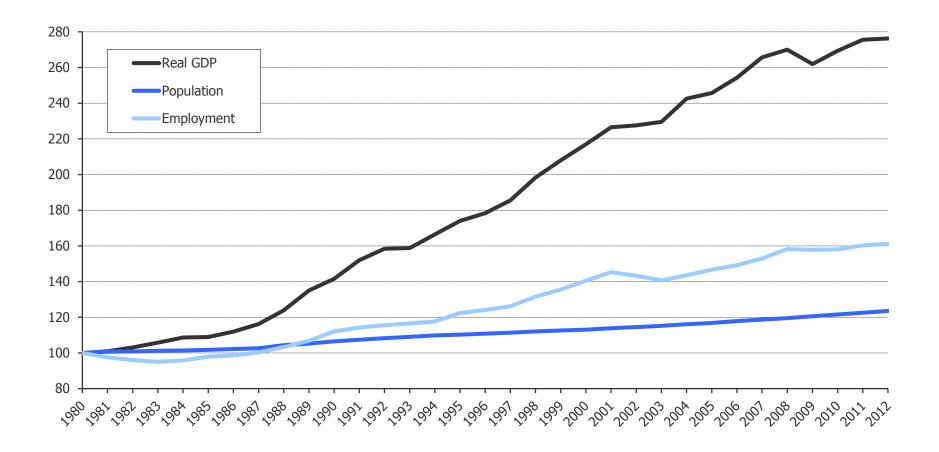
Growth of real GDP, employment and population Brussels Capital Region, 1980-2012



Note Source Index 1980 = 100 (GDP in US\$ at constant prices and exchange rates, PPP corrected) BAKBASEL



Growth of real GDP, employment and population Brabant Walloon and Halle-Vilvoorde, 1980-2012



Note Source Index 1980 = 100 (GDP in US\$ at constant prices and exchange rates, PPP corrected) BAKBASEL



The five key sectors in the regional growth process: Composition of sectors

The "New Economy" Sector:

- Computers and office equipment
- -Telecommunication equipment (incl. electrical engineering)
- Telecommunication services
- IT-Services

The High Value Added "Old Economy" Sector:

- Chemicals and pharmaceuticals
- Precision and optical equipment, watches
- Manufacture of vehicles

The "Political" Sector:

- Primary Sector
- Energy and water supply
- Research and development
- Public administration etc.
- Education
- Health and social services
- Sewage treatment, refuse disposal

The Urban Sector:

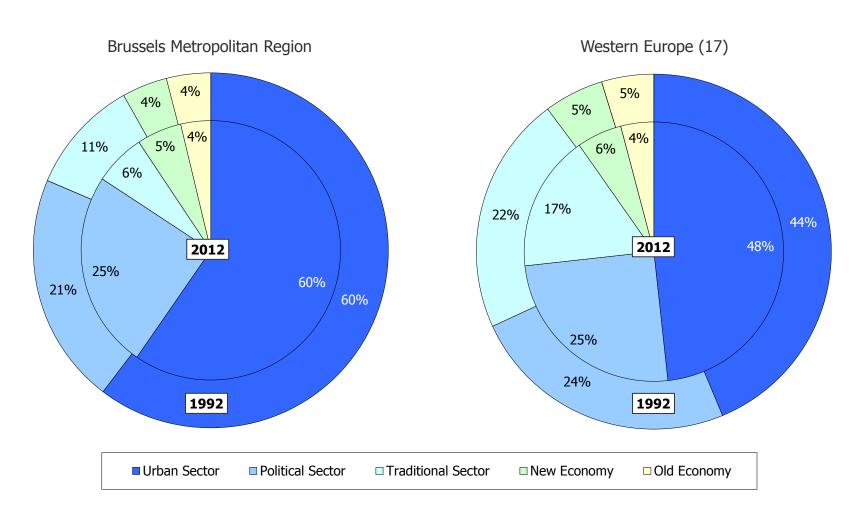
- Trade and repair of automobiles and consumer durables
- Financial and business services
- Transport
- Hotels and restaurants
- Entertainment, culture and sport
- Personal services
- Private households

The Traditional Sector:

- Food, beverage, tobacco products
- Textiles, garments, furs, leather products and shoes
- Processing of wood
- Paper- and boardmaking / Printing and publishing
- Coke, refined petroleum products
- Rubber and plasctic products
- Other products from nonmetallic minerals
- Metals and metal products / Mechanical engineering
- Manufacturing not elsewhere classified
- Construction



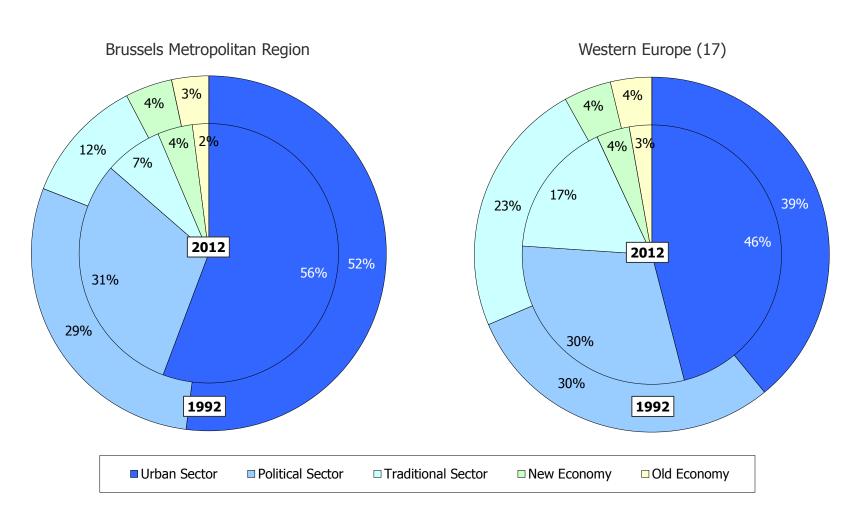
Share of the 5 driver sectors in nominal GDP 1992 and 2012



Note Source Share in % (based on US\$ at current prices and exchange rates) BAKBASEL



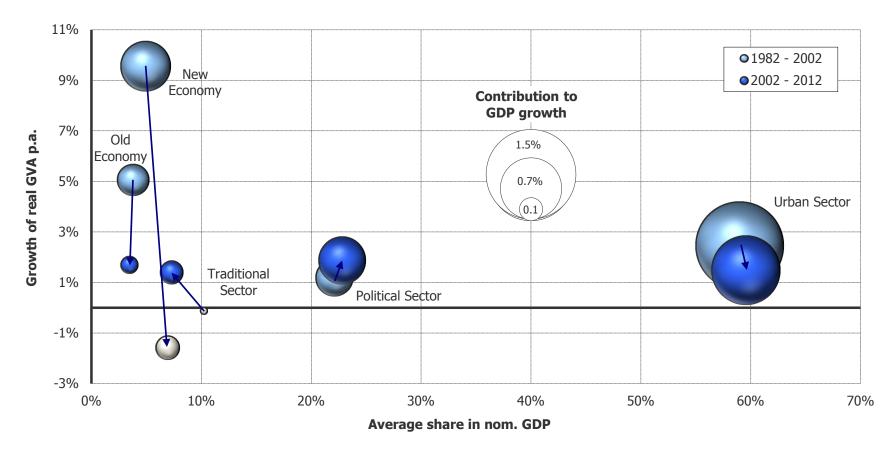
Share of the 5 driver sectors in total employment 1992 and 2012



Note Source Share in % BAKBASEL



Growth contribution of the 5 driver sectors in Metro Brussels 1982-2002 and 2002-2012



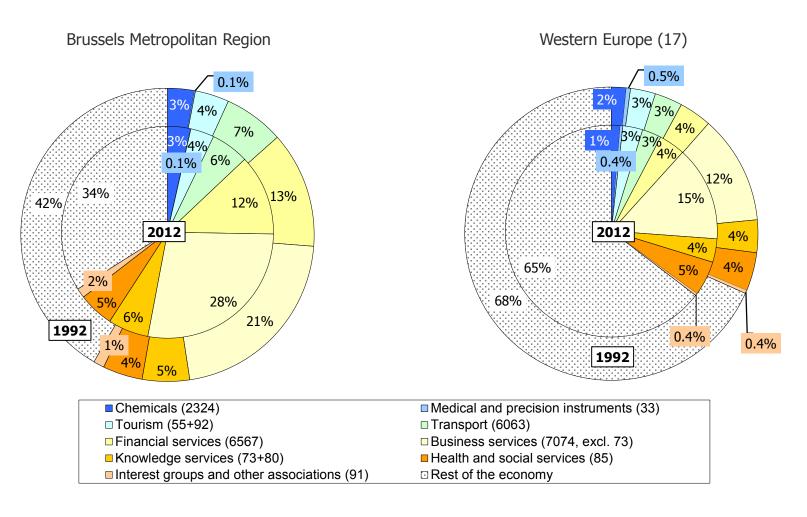
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected)



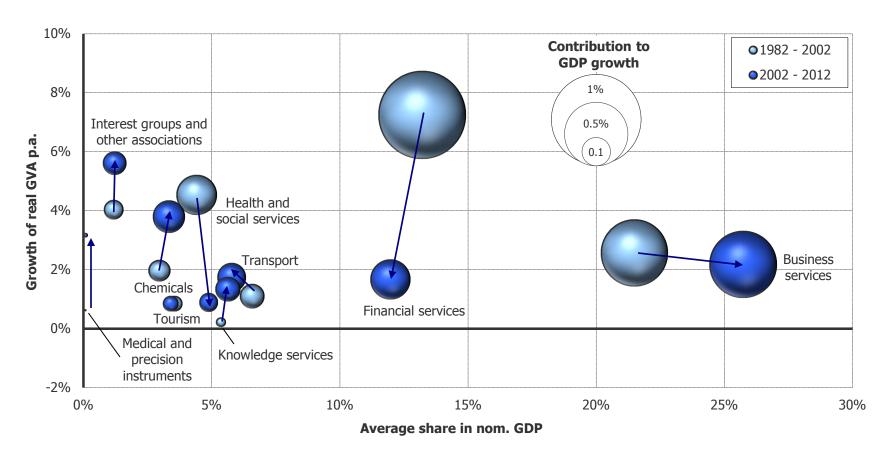
Share of the 9 key industries in nominal GDP 1992 and 2012



Note Source Share in % (based on US\$ at current prices and exchange rates) BAKBASEL



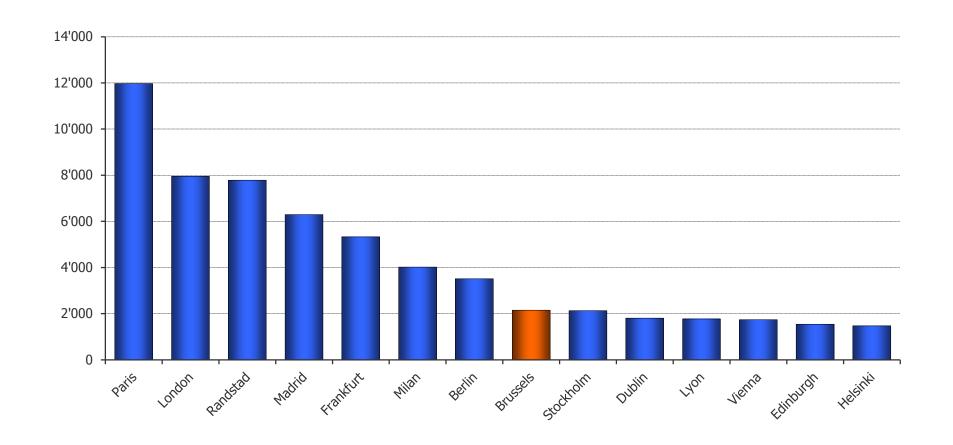
Growth contribution of the 9 key industries in Metro Brussels 1982-2002 and 2002-2012



Note Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates); vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected)



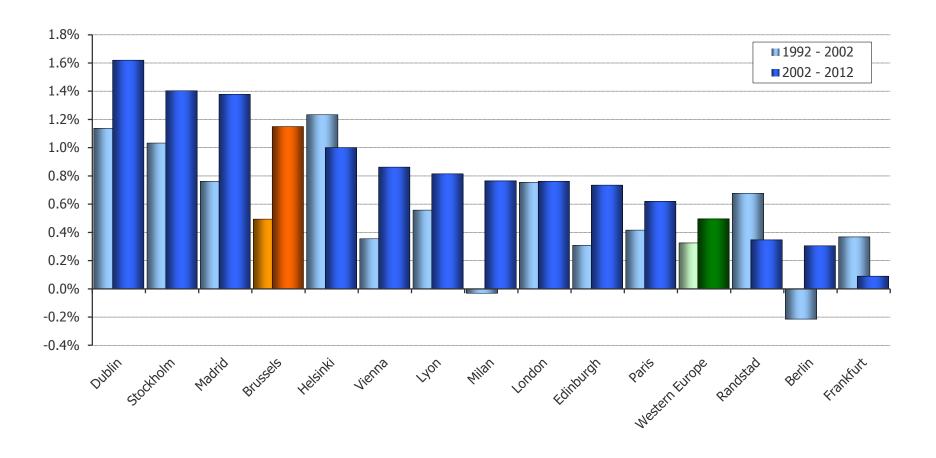
Population 2012



Note Source In 1'000 persons BAKBASEL



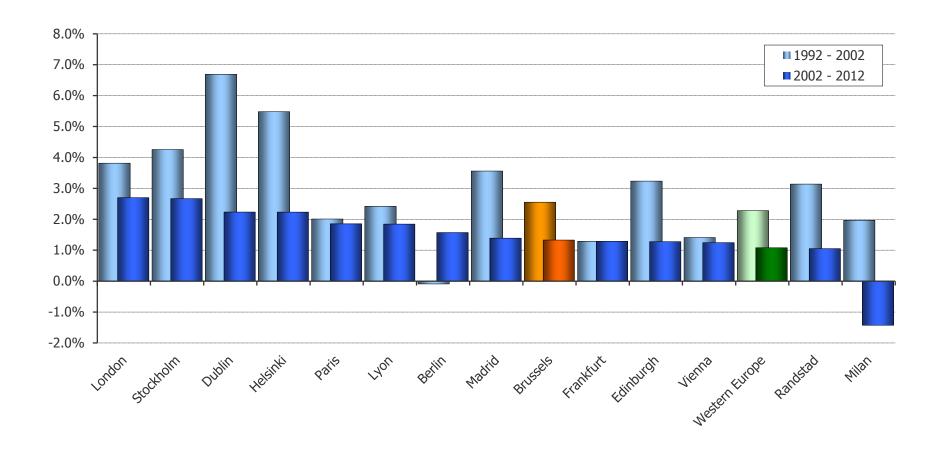
Growth of population 1992-2002 and 2002-2012



Note In % p.a. Source BAKBASEL



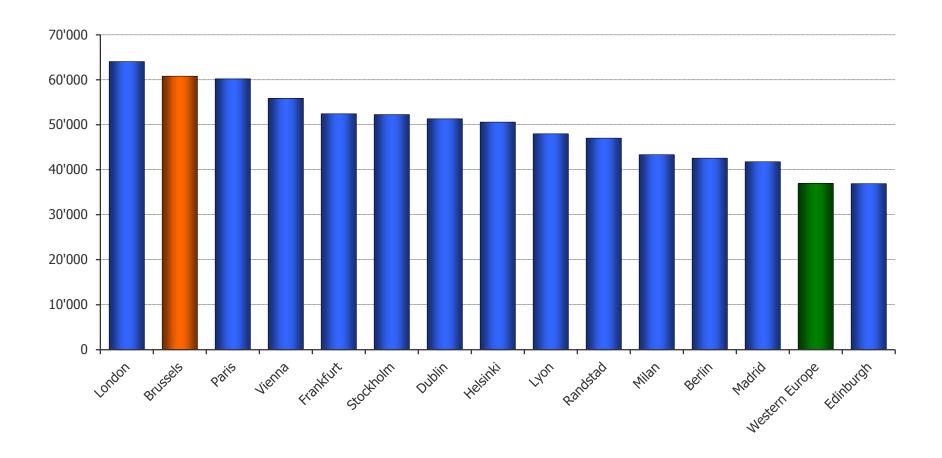
Growth of real GDP 1992-2002 and 2002-2012



Note Source In % p.a. (GDP in US\$ at constant prices and exchange rates, PPP corrected) BAKBASEL



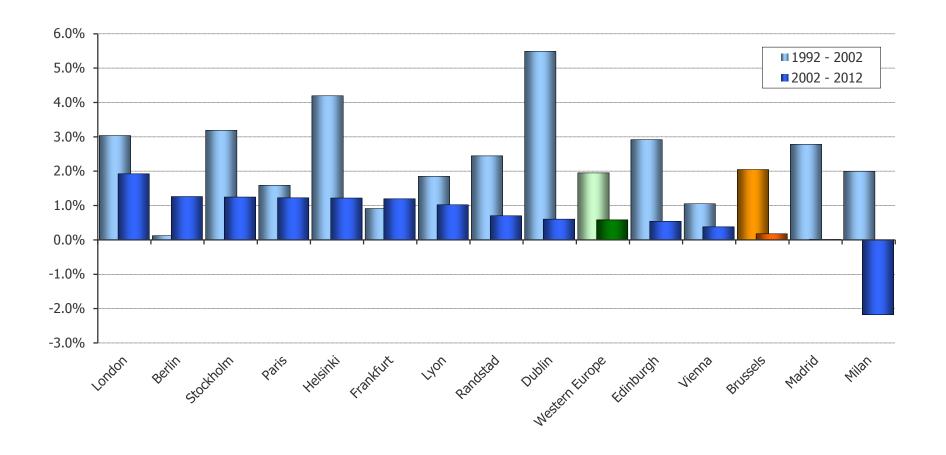
Nominal GDP per capita 2012



Note Source In US\$ at current prices, PPP corrected BAKBASEL



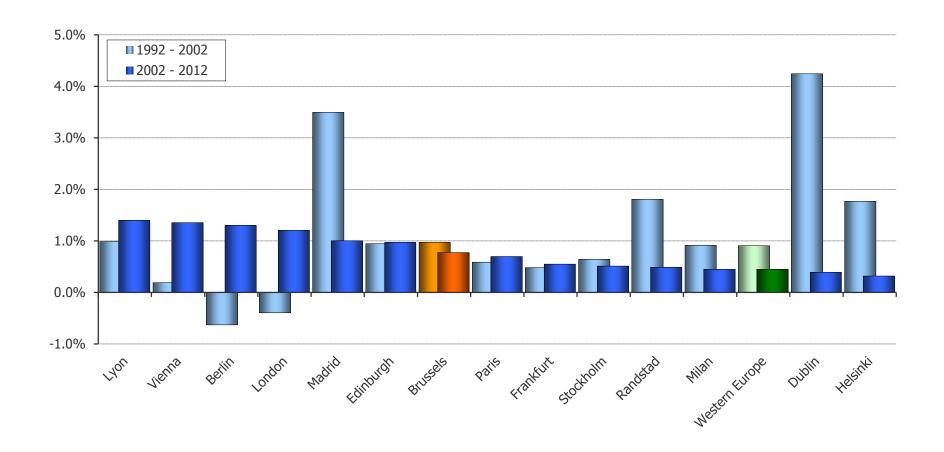
Growth of real GDP per capita 1992-2002 and 2002-2012



Note Source In % p.a. (GDP in US\$ at constant prices and exchange rates, PPP corrected) BAKBASEL



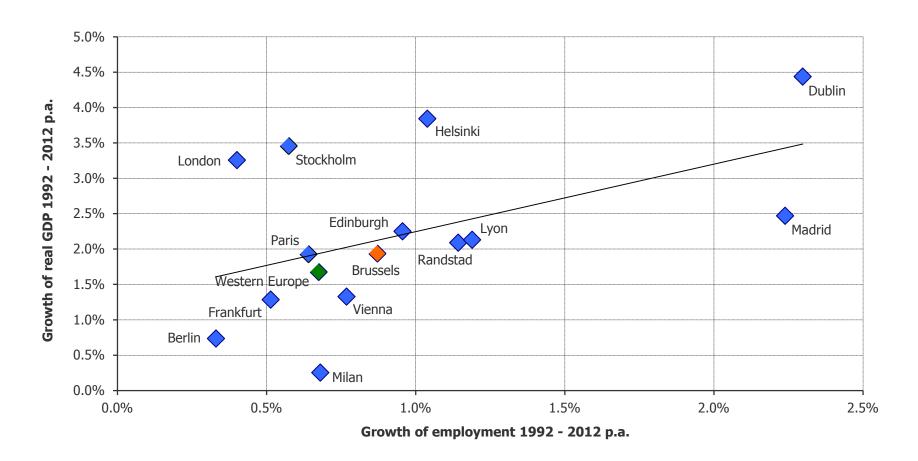
Growth of employment 1992-2002 and 2002-2012



Note In % p.a. Source BAKBASEL



Growth of real GDP and employment 1992-2012

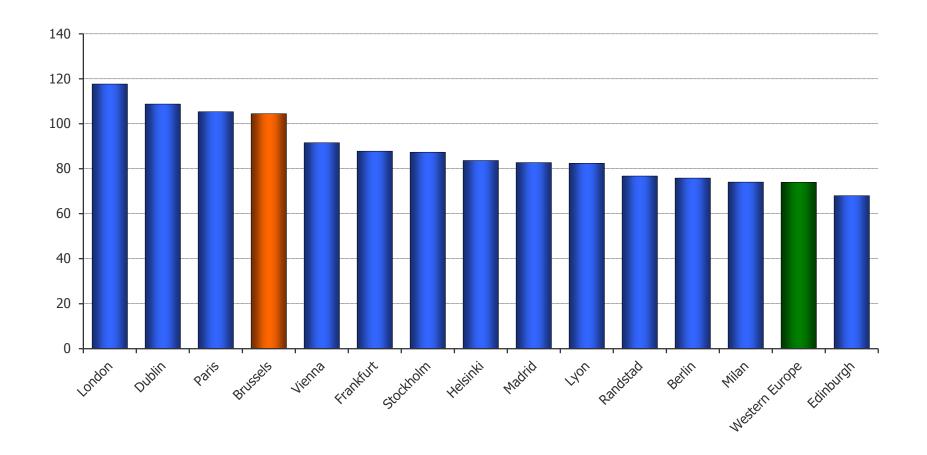


Note Source In % p.a. (GDP in US\$ at constant prices and exchange rates, PPP corrected)

e BAKBASEL



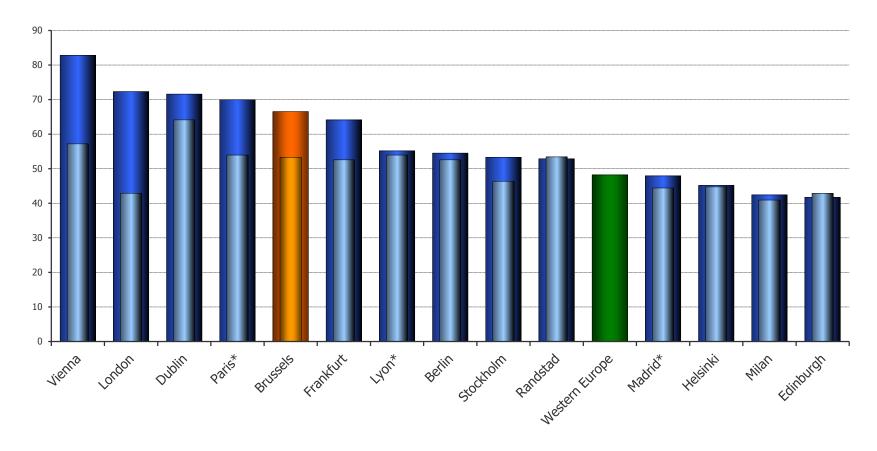
Nominal employment productivity 2012



Note Source In 1'000 US\$ at current prices, PPP corrected BAKBASEL



Nominal hourly productivity in regions (large pillar) and corresponding countries (small pillar), 2012

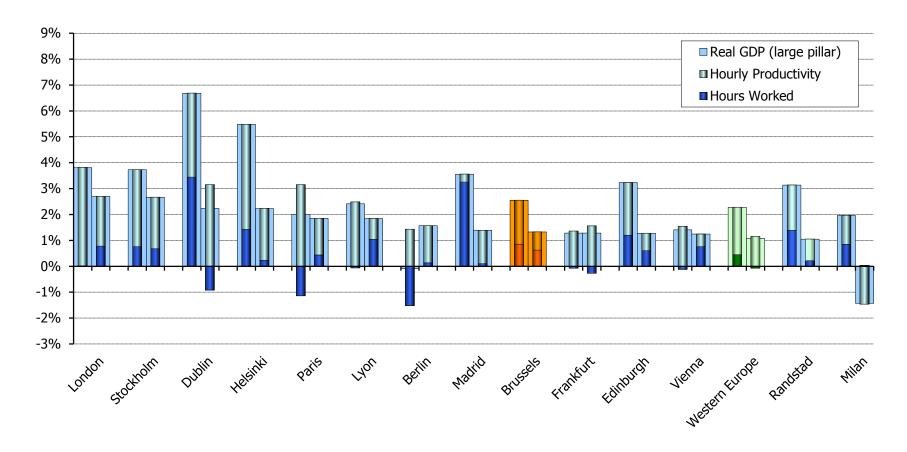


Note In US\$ at current prices, PPP corrected

* Data form IBD 2012



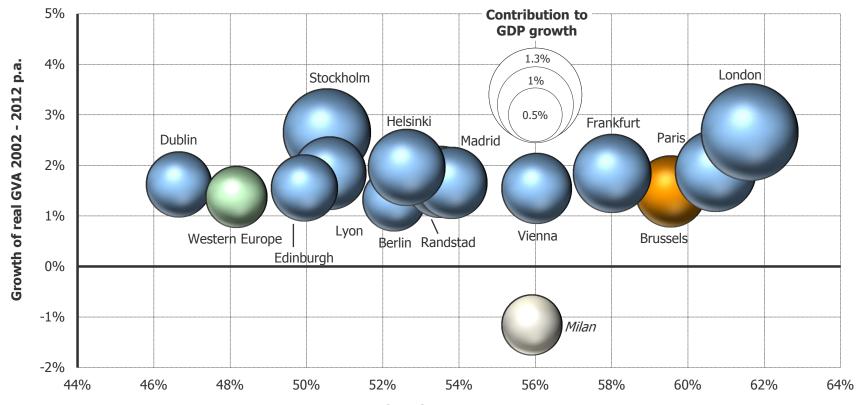
Growth of hours worked and real hourly productivity 1992-2002 and 2002-2012



Note In % p.a. (GDP and productivity in US\$ at constant prices and exchange rates, PPP corrected) First pillar: 1992-2002 (Stockholm: 1994-2002), Second pillar: 2002-2012



Urban Sector: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002- 2012

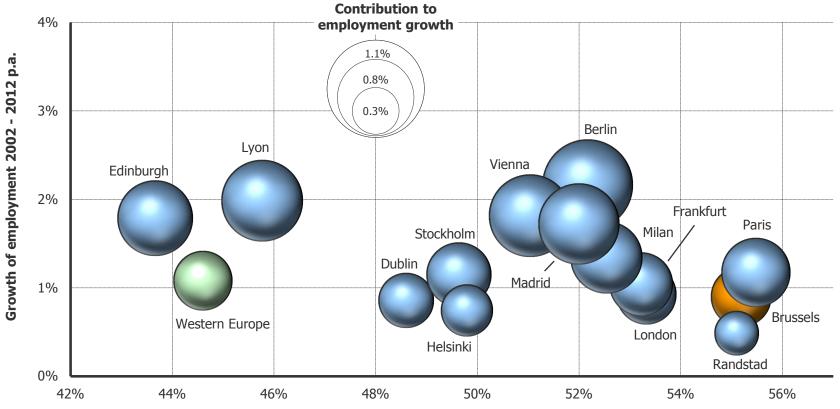
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Urban Sector: Contribution to employment growth 2002-2012

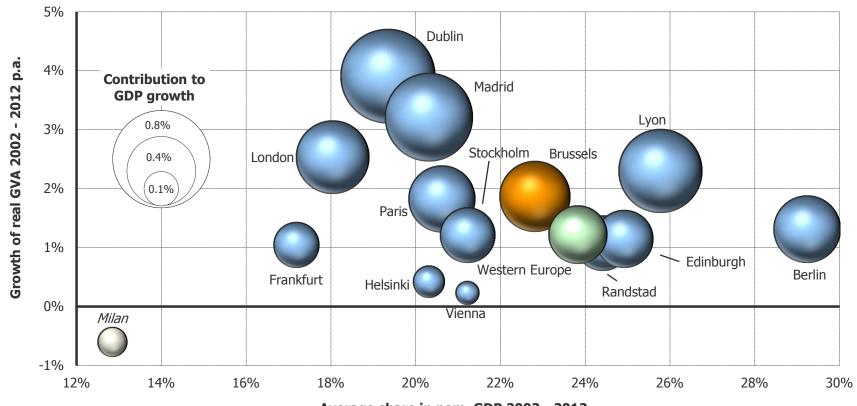


Average share in total employment 2002 - 2012

Note In % p.a. Source BAKBASEL



Political Sector: Contribution to real GDP growth 2002-2012



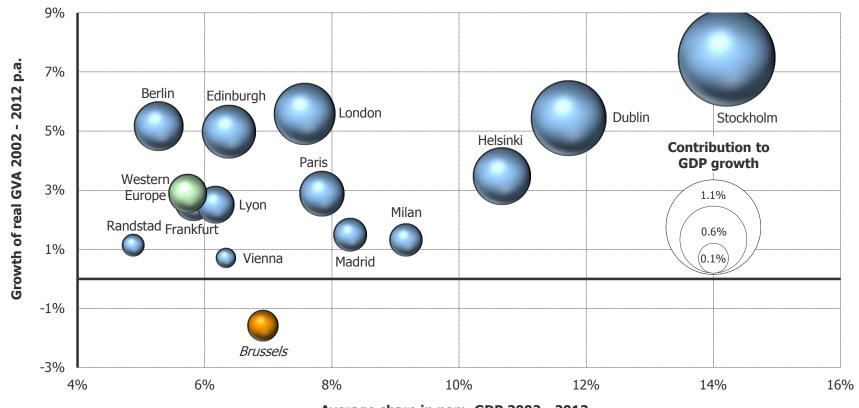
Average share in nom. GDP 2002 - 2012

Note Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



New Economy: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002 - 2012

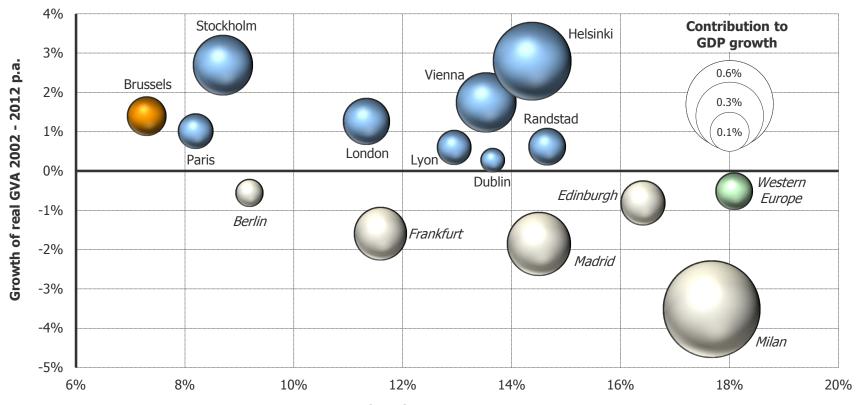
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Traditional Sector: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002 - 2012

Note

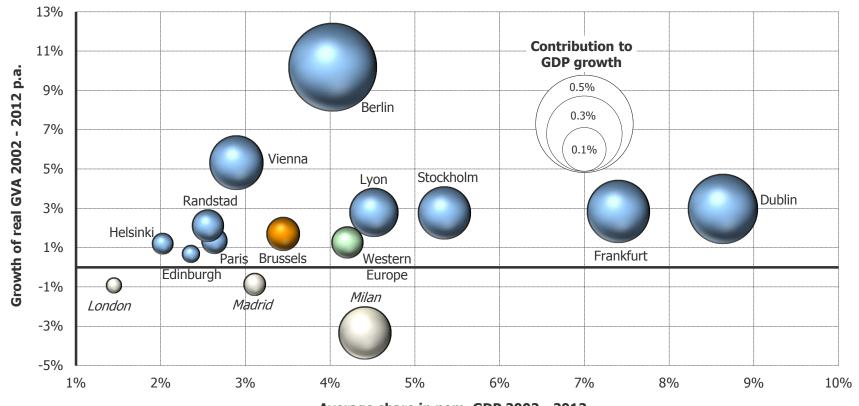
Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth

BAKBASEL Source



Old Economy: Contribution to real GDP growth 2002-2012



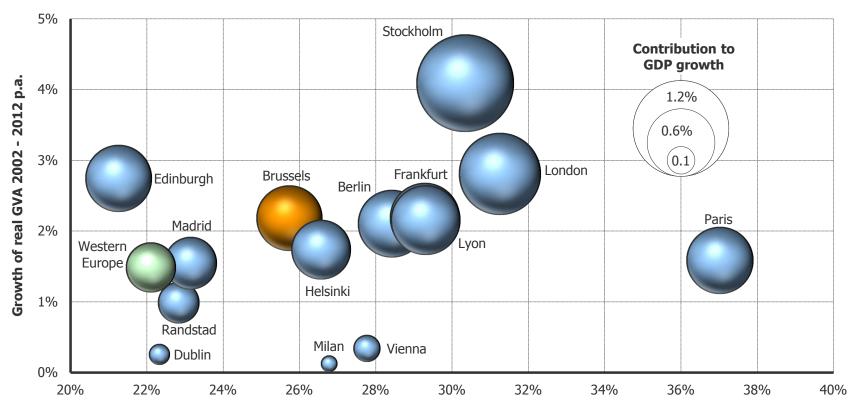
Average share in nom. GDP 2002 - 2012

Note Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Business Services: Contribution to real GDP growth 2002-2012



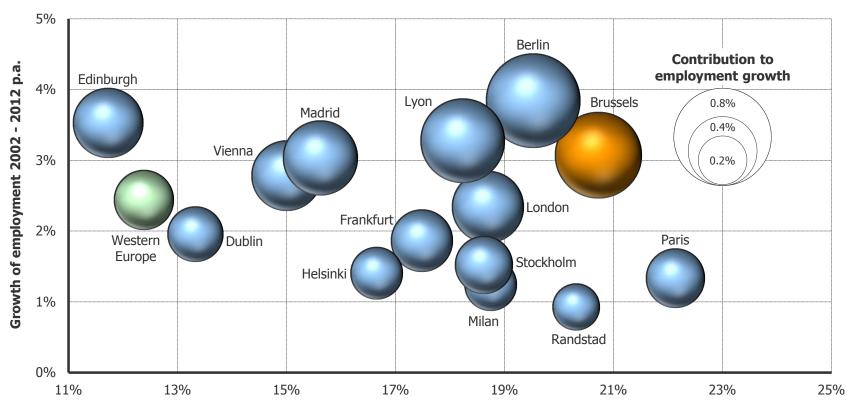
Average share in nom. GDP 2002 - 2012

Note Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected)



Business Services: Contribution to employment growth 2002-2012

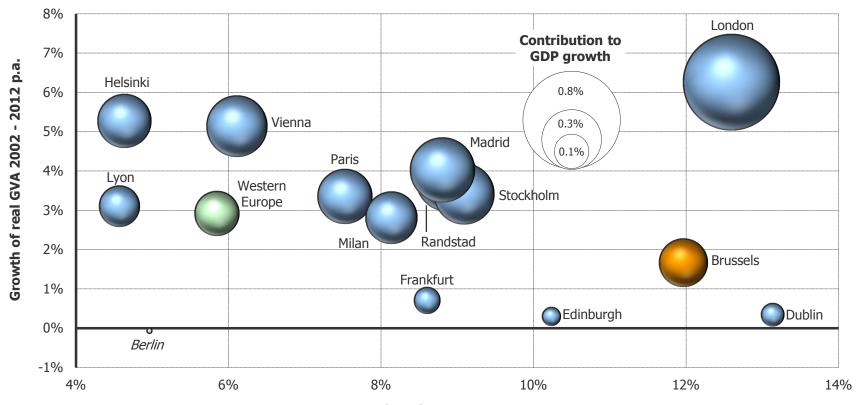


Average share in total employment 2002 - 2012

Note In % p.a. Source BAKBASEL



Financial Services: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002 - 2012

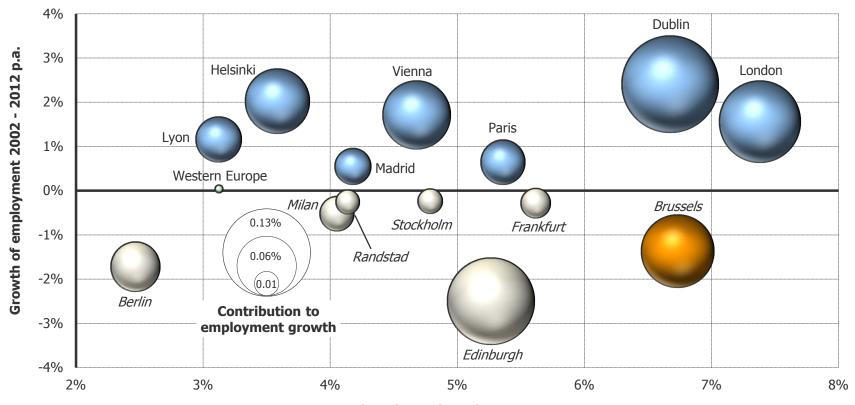
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Financial Services: Contribution to employment growth 2002-2012

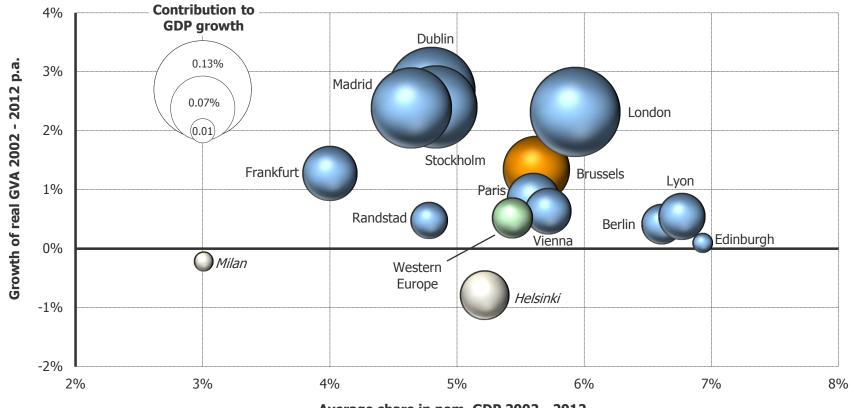


Average share in total employment 2002 - 2012

Note In % p.a., *italics: negative contribution to growth*



Knowledge Services: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002 - 2012

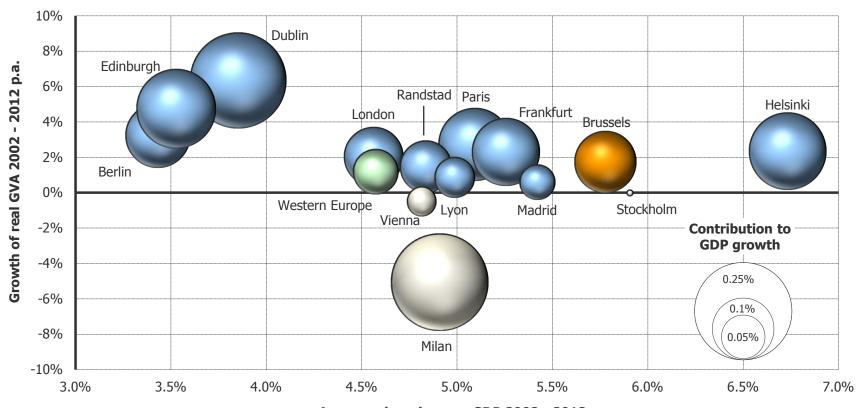
Note Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); *italics: negative contribution to growth* BAKBASEL



Source

Transport: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002 - 2012

Note

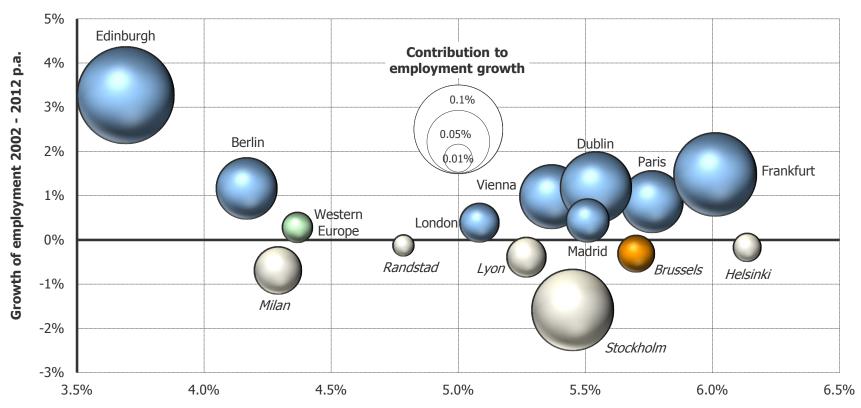
Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); *italics: negative contribution to growth* BAKBASEL

Source BAI



Transport: Contribution to employment growth 2002-2012

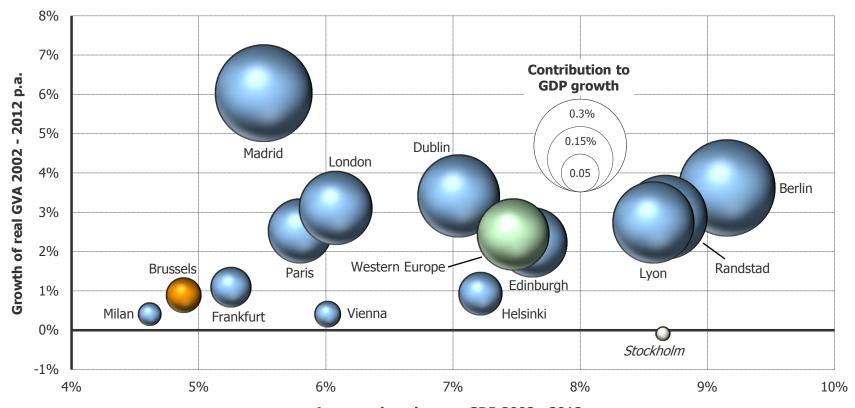


Average share in total employment 2002 - 2012

Note In % p.a., *italics: negative contribution to growth*



Health & Social Services: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002 - 2012

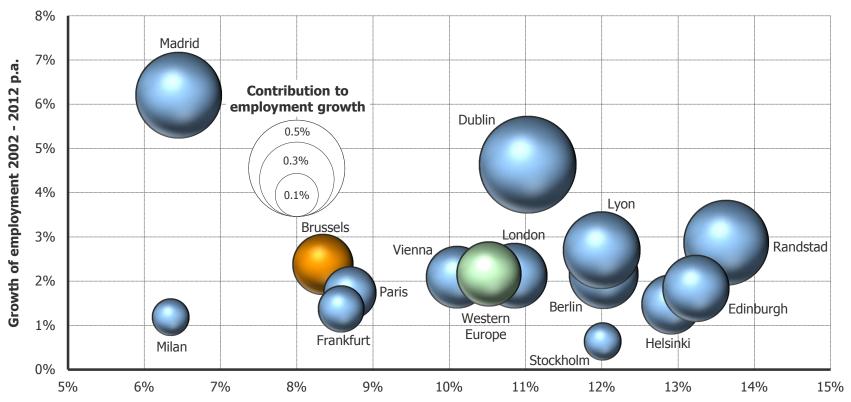
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Health & Social Services: Contribution to employment growth 2002-2012

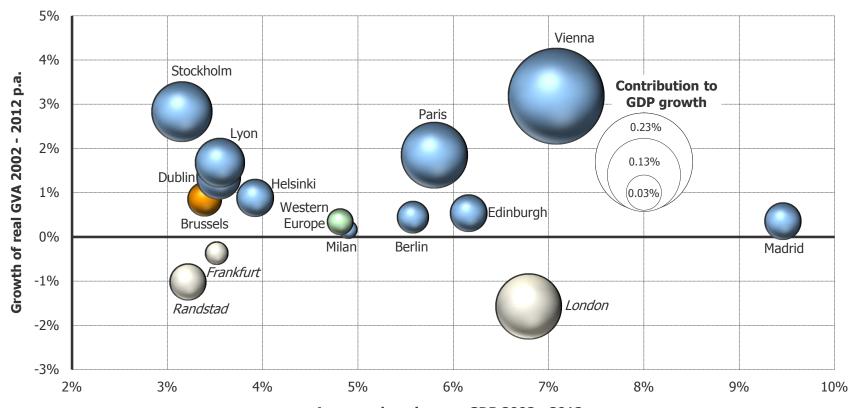


Average share in total employment 2002 - 2012

Note In % p.a. Source BAKBASEL



Tourism: Contribution to real GDP growth 2002-2012



Average share in nom. GDP 2002 - 2012

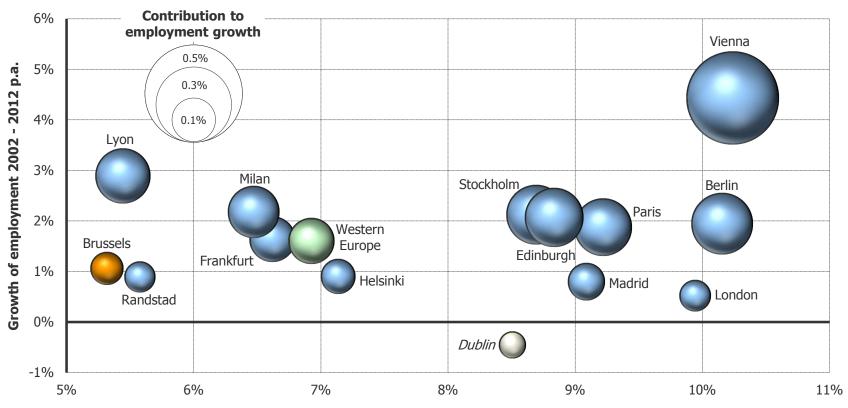
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Tourism: Contribution to employment growth 2002-2012

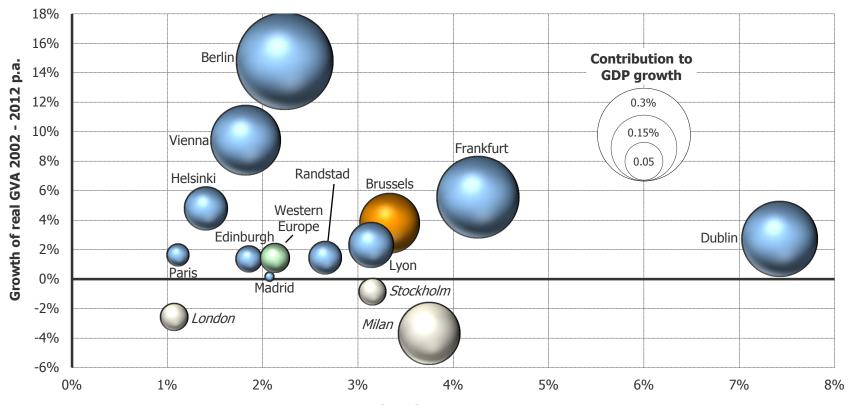


Average share in total employment 2002 - 2012

Note In % p.a., *italics: negative contribution to growth*



Chemicals: Contribution to real GDP growth 2002-2012



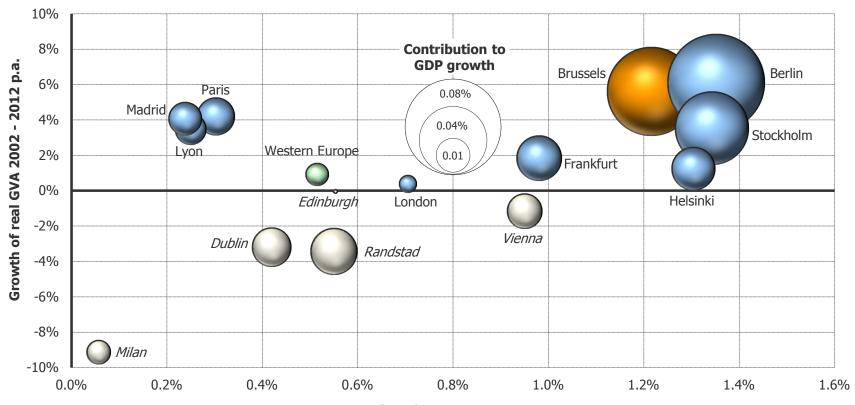
Average share in nom. GDP 2002 - 2012

Note Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Interest Groups and other Associations: Contribution to real GDP growth, 2002-2012



Average share in nom. GDP 2002 - 2012

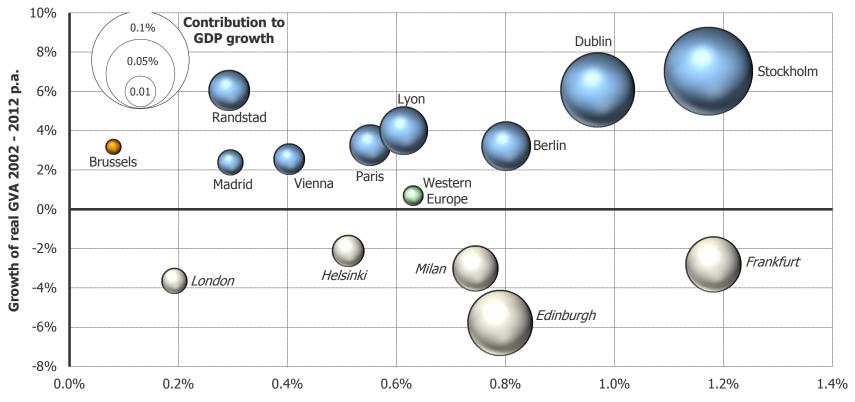
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Medical & Precision Instruments: Contribution to real GDP growth, 2002-2012



Average share in nom. GDP 2002 - 2012

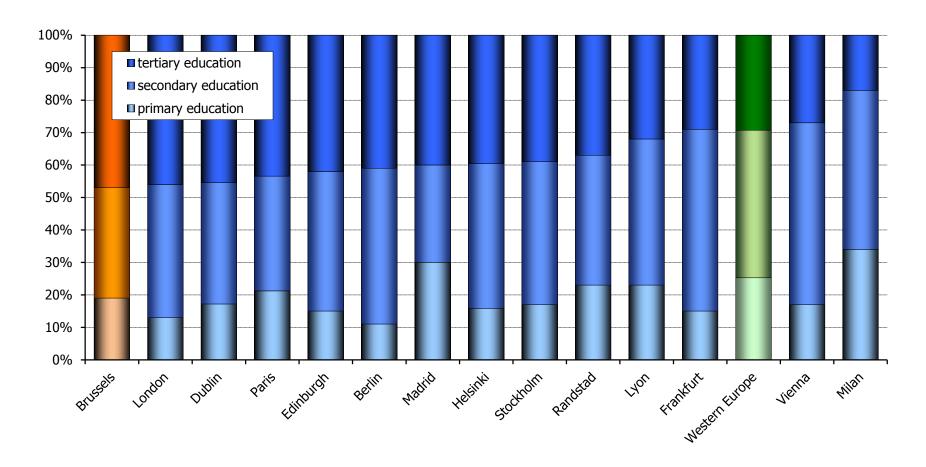
Note

Gross Value Added; horizontal: average share in % (based on US\$ at current prices and exchange rates);

vertical: in % p.a. (based on US\$ at constant prices and exchange rates, PPP corrected); italics: negative contribution to growth



Share of highly qualified employment in total employment, 2011

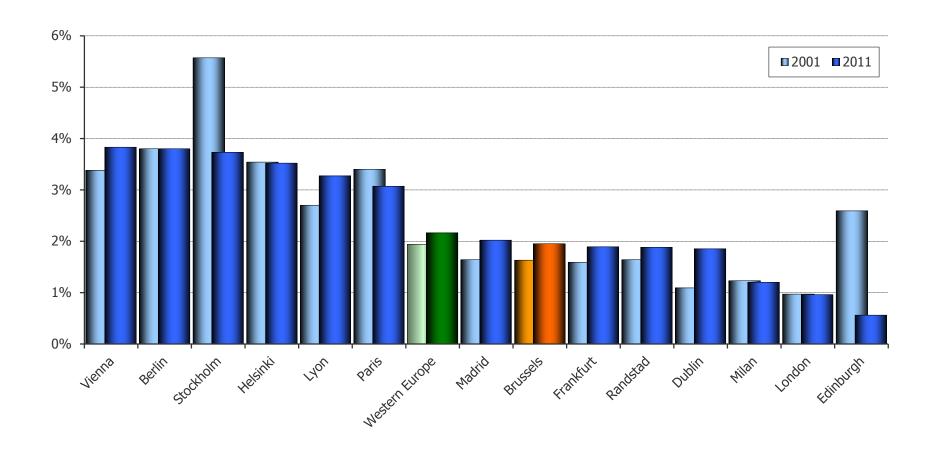


Note Source E

Share in % BAKBASEL



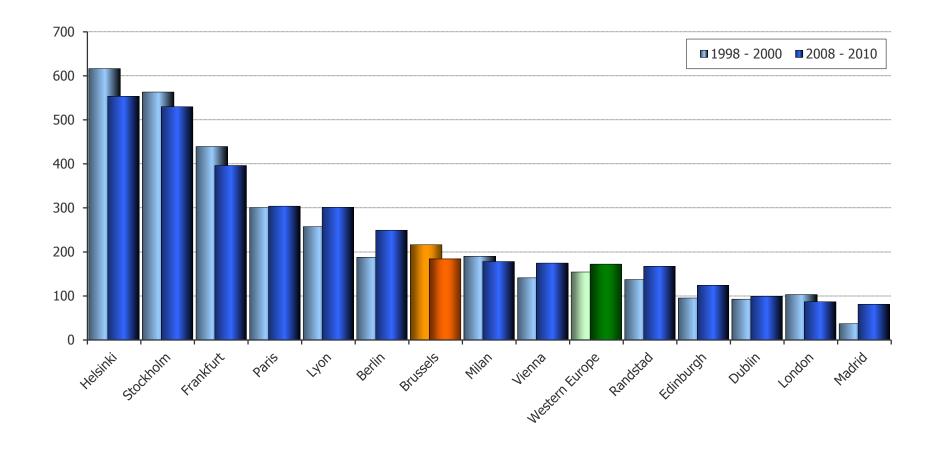
Share of expenditure on R&D in nominal GDP 2001 and 2011



Note Source Share in % BAKBASEL



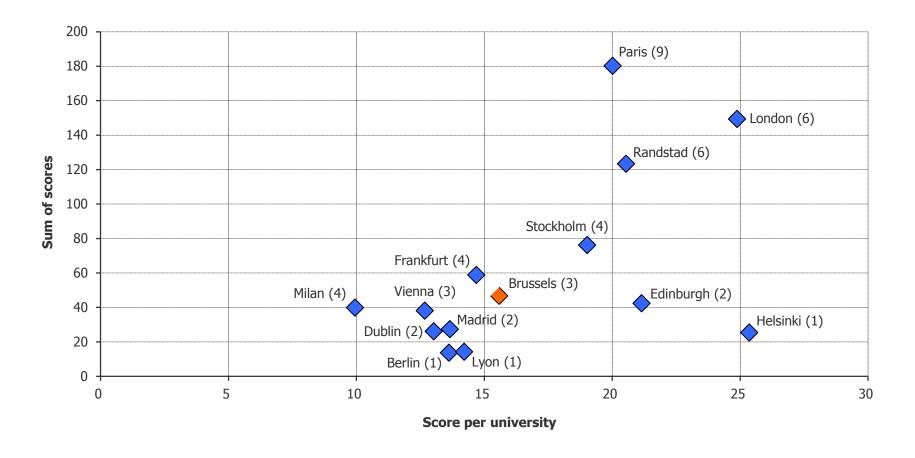
Patent density 1998-2000 and 2008-2010



Note Source Average number of patents per 1 million inhabitants BAKBASEL, OECD Regpat.



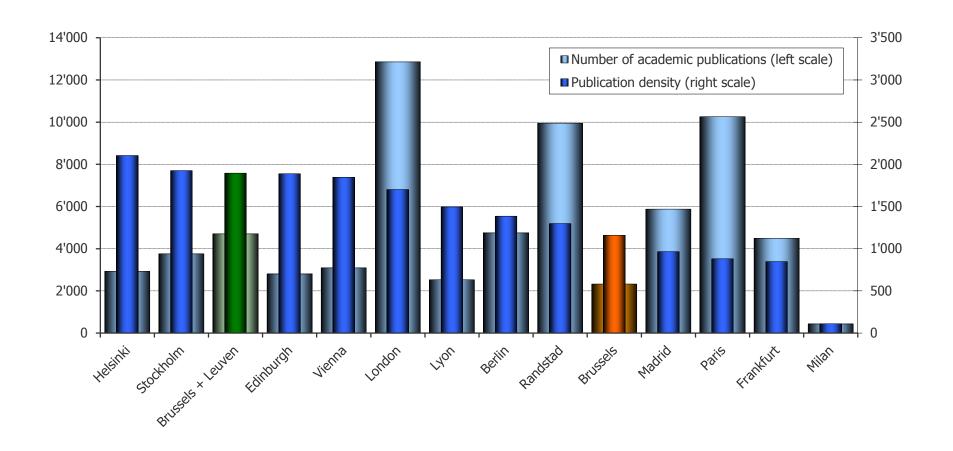
The research quality of universities 2012



Note Source Shanghai index of the 500 best universities of the world, number of universities in brackets BAKBASEL, Shanghai Jiao Tong University



Number of academic publications and publication density 2007

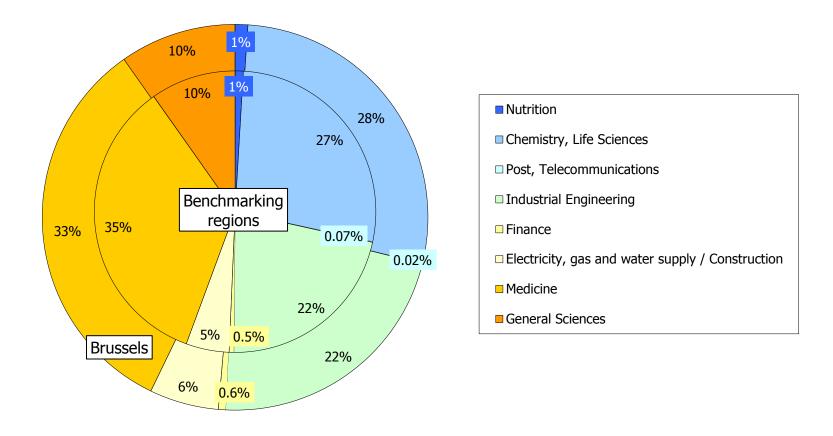


Note Source

Publications per 1 million inhabitants, no data available for Dublin BAKBASEL, Thomson



Academic publications per sector 2007



Note Source Share in %, no data available for Dublin BAKBASEL, Thomson



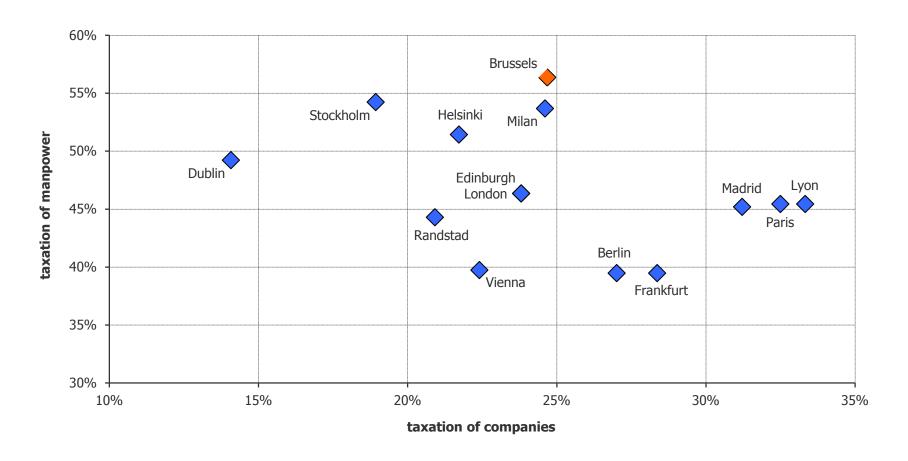
Regulation of labour and product markets 2011



Note Index (0 = very liberal, 6 = very restrictive) Source BAKBASEL, OECD, Cato Institute



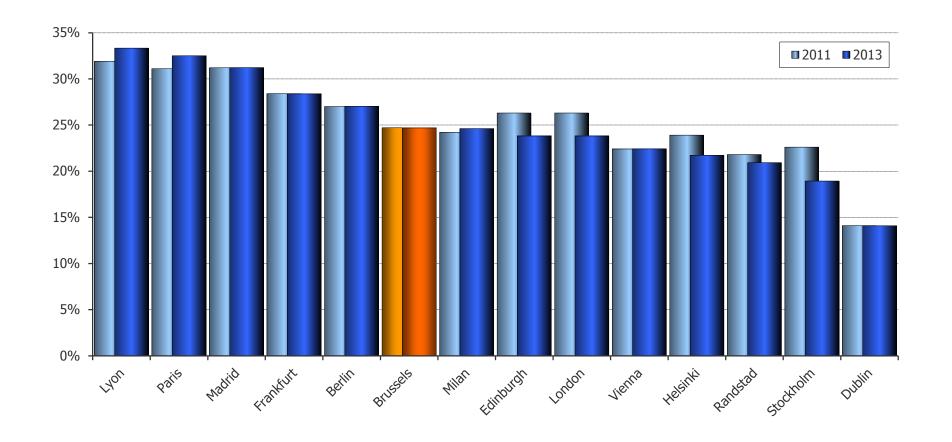
Company taxation and taxation of highly qualified* manpower 2013



Note Source Effective average tax rates (EATR) in %, *disposable income of EUR 100'000/single person BAKBASEL, ZEW



Company taxation 2011 and 2013

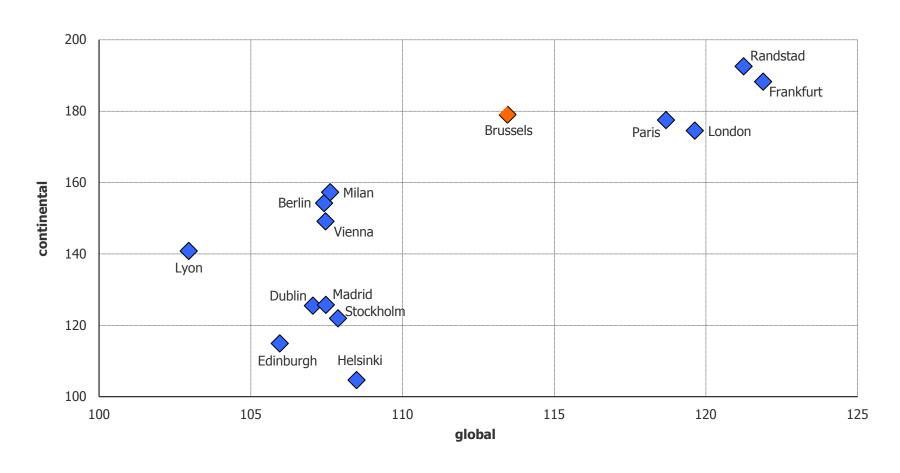


Note Source Effective average tax rates (EATR) in %

BAKBASEL, ZEW



Global and continental accessibility 2012



Note Source Index (average accessibility of regions 2002 = 100)

BAKBASEL, IVT



Definition Benchmarking Regions

Region	IBC notation	Country	IB Key	Туре	Delimitation
Brussels	Greater Brussels	BEL	BELMB	IB-Member	Metropolitan Region
Paris	Ile de France	FK	FK11	NUTS	ZEAT
London	Greater London	UK	UKI	NUTS	Region of England
Berlin	Berlin	DE	BN	NUTS	Bundesland
Frankfurt	FrankfurtRheinMain	DE	RM	BAKBASEL	IB-Aggregat
Milan	Milano	IT	IT205	NUTS	Provincie
Randstad	Randstad	NL	RD	BAKBASEL	Metropolitan Region
Vienna	Wien	AT	AT13	NUTS	Bundesland
Dublin	Greater Dublin Area	IR	IRGD	BAKBASEL	Metropolitan Region
Stockholm	Stockholm	SE	SE01	NUTS	Riksområden
Lyon	Rhône	FK	FK716	NUTS	Département
Madrid	Comunidad de Madrid	ES	ES3	NUTS	Agrupación de CCAA
Helsinki	Uusimaa	FI	FI181	NUTS	Maakunnat
Edinburgh	Metropolitan Edinburgh	UK	UKME	BAKBASEL	Metropolitan Region
Western Europe	Western Europe (17)		WE17	BAKBASEL	Group of countries

Note: All regions are either official statistical regions (NUTS-classification) or an aggregate thereof



Sources

All data in this Chart-Set are from the «International Benchmarking Database 2013» by BAKBASEL. For the BAKBASEL list of data within the International Benchmarking Programme please consult the «International Benchmarking Report».

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The data included herein are taken or derived from various data sources, among them particularly:

- National and regional statistical offices, EUROSTAT
- International Comparisons of Output and Productivity (ICOP), University of Groningen
- Thomson Scientific Ltd. (TS), London, UK, © Copyright Thomson Scientific 2006
- Shanghai Jiao Tong University
- Organisation for Economic Cooperation and Development, Paris (OECD)
- Centre for European Economic Research, Mannheim (ZEW)
- Institute for traffic planning and transportation systems, Zürich (IVT)

For further Information please contact: Marc Bros de Puechredon Marc.puechredon@bakbasel.com

