

Deutsche Börse Group

An introduction for Warsaw University

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Deutsche Börse Group Who are we?



Innovation and growth (I)

- 1585 Beginning of organised exchange trading in Frankfurt/Main
- 1992 Deutsche Börse AG is established
- 1993 Deutsche Börse AG begins to operate Frankfurter Wertpapierbörse (FWB[®], the Frankfurt Stock Exchange)
- 1997 Launch of the electronic trading platform Xetra®
- 1998 The derivatives exchange Eurex is established on the basis of a merger of DTB Deutsche Terminbörse and Swiss Soffex
- 2000 Merger of Deutsche Börse Clearing and Cedel to form Clearstream International S.A.
- 2001 IPO of Deutsche Börse AG
- 2002 Full integration of Clearstream International S.A.; Deutsche Börse AG shares included in the DAX[®] index
- 2003 Introduction of the central counterparty for the stock market
- 2006 Deutsche Börse AG and SIX Group AG found Scoach, a European stock exchange for structured products



Innovation and growth (II)

- 2007 Eurex acquires the US options exchange International Securities Exchange Holdings, Inc. (ISE)
- 2008 Acquisition of US financial news agency Market News International Inc.
- 2009 Acquisition of US financial news agency Need to Know News, LLC and increase of the interest in STOXX Ltd. to 50 percent plus one share
- 2011 Migration of the floor trading to Xetra[®] technology (Xetra Frankfurt Specialist Trading)
- 2012 Full acquisition of the derivatives exchange Eurex



Globally operating provider of financial services: locations of Deutsche Börse Group

11 locations in Europe	9 locations in Asia / North America
Berlin	Beijing
Brussels	Chicago
Dublin	Dubai
Frankfurt /	Hong Kong
Eschborn	New York
Leipzig	Ottawa
London	Singapore
Luxembourg	Tokyo
Madrid	Washington, D.C.
Moscow	
Paris	
Prague	
Zurich	

Corporate values

Client focus is core for our actions

We deliver excellent services and products. We develop strong and sustainable relationships.

Dedication drives our business

We are committed to our company and goals. We work across boundaries to make it happen.

Innovation shapes our industry

We challenge the industry. We search for opportunities by leveraging our businesses.

Integrity is the basis for our relationships

We act honestly and take personal responsibility. We promote the efficiency, transparency and safety of the market.

Deutsche Börse Group: integrated transaction processing for financial intermediaries

Trading	Clearing	Settlement Custody
Cash market: Xetra	Eurov Clearing	Clearstream
Derivatives: Eurex	Eurex Clearing	
 Listing Connectivity to international trading participants Operation of open electronic order books 	 Verification of trade-related information Central counterparty Risk management 	 Delivery of securities (in exchange for payment) Financing services Custody of securities Related services, e.g. tax, corporate actions

Market Data & Analytics

Data feeds, market data, news services, reference data, reporting services, indices

Information Technology

External IT services, internal IT services, software development

Deutsche Börse Group: diversified business as the basis for sustainable growth

Sales contribution in Q1-3/2012			Major business drivers	
Trading & Clearing 53%	11% Xetra	42% Eurex	 Trading activity Market share vs. OTC trading Product innovation 	
Settlement 7%	5% Settlement 2% Net interest income		 Activity in on- and off-exchange markets Eurobond issuance activity Overnight interest rates 	
Custody 30%	20% Custody 10% Other		 Assets under custody Bonds vs. equities Market share 	
Market Data 10%	10% Market Data & Analytic	Licence fees for indicesSale of data packages		

Leadership structure of Deutsche Börse Group

Group Executive Board			Derivatives &		Information
CEO R. Francioni	CFO G. Pottmeyer	Xetra F. Gerstenschläger	Market Data A. Preuss	Clearstream J. Tessler	Technology M. Kuhn
Programs and -Advisory	Financial Accounting _& Controlling	Market Development	-Executive Office	Client Relations Europe & Americas	Central IT & Coordination
-Internal Auditing	Strategic Finance	-Markets Services	-IT	Client Relations -Asia/South/ME/ Africa	Networks & Infrastructure Ops
-Group Strategy	Investor Relations & - Treasury	Market & Business Analysis	Business Development	Client Relations -GSF & Broker/Dealers	VMS & Xetra/Eurex Operations
Corporate Communications	Group Compliance, Information Security & Risk Management	Trading Surveillance	-Sales & Marketing	_Business Management	AD Cash/Derivatives
-Corporate Office	_Human Resources		-Operations	Operations Clearstream	-Clearstream IT
General Counsel	Organization & Administration		-Clearing	Investment Funds Services	
	SAP & Office Automation		Market Data & Analytics	-CRD IV	

Investments and partnerships strengthen product and service offering

Deutsche Börse AG¹⁾ Scoach Holding S.A. Eurex Global Derivatives AG Clearstream Holding AG Market News Deutsche Börse 100% International Inc. 50% 100% Services s.r.o 100% 100% Scoach Schweiz AG Eurex Zürich AG Need to Know News, LLC Clearstream 100% $100\%^{4)}$ nternational S.A. 100% 100% Scoach Europa AG Eurex Frankfurt AG Clearstream Banking AG Infobolsa S.A. 100% 00% 100% 50% STOXX Ltd. BrainTrade Gesellschaft für Eurex Clearing AG Link-Up Capital Markets, S.L. Börsensysteme mbH 50% 100% $21\%^{2}$ 23% Eurex Repo GmbH Clearstream Banking S.A. Deutsche Börse **Commodities GmbH** 100% 100% 16% Eurex Bonds GmbH Tradegate Exchange GmbH **Clearstream Banking** 75%³⁾ 79% Japan, Ltd. 100% U.S. Exchange REGIS-TR S.A. Holdings, Inc. 50% 100% International Securities Clearstream Services S.A. Exchange Holdings, Inc. 100% 100% European Energy **Clearstream Operations** Exchange AG Prague s.r.o 56% 100% LuxCSD S.A. 50%

- 1) Simplified presentation of main shareholdings, as at 1 May 2012
- 2) Direct equity interest Deutsche Börse AG: 14%
- 3) Plus an equity interest of 1%, which is held indirectly via Tradegate AG Wertpapierhandelsbank
- 4) Direct equity interest Deutsche Börse AG: 50%

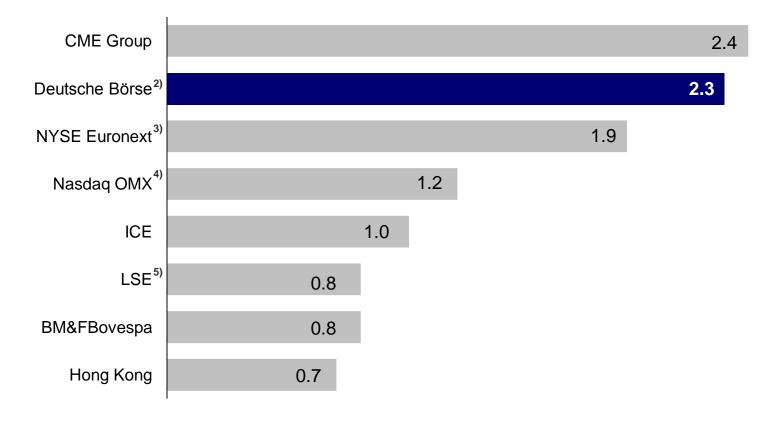


Deutsche Börse Group: facts and figures Performance



Company strategy: good position of Deutsche Börse Group in competitive environment

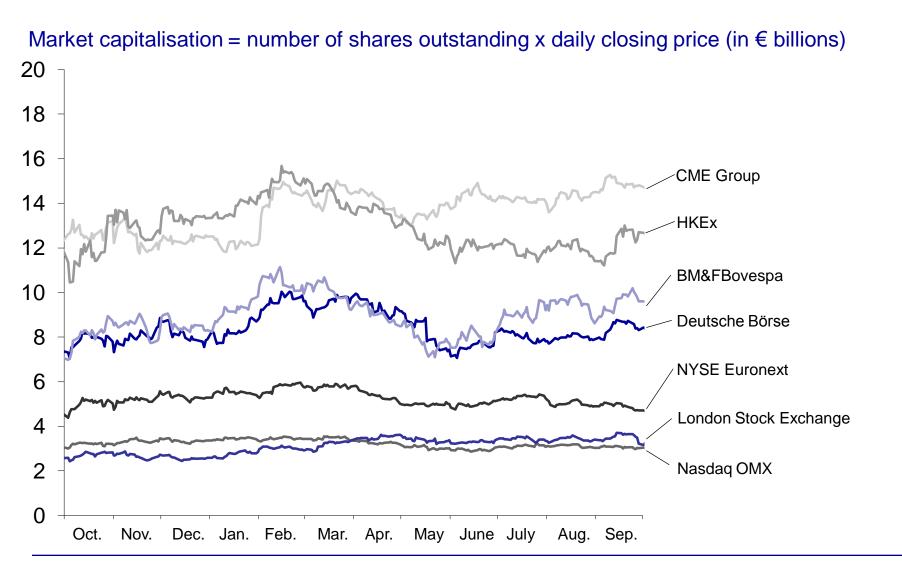
Sales revenue 2011 (in € billions)¹⁾



- 1) Source: companies listed, Reuters
- 2) Sales revenue including net interest income from banking business; net income adjusted for costs of efficiency programmes and the ISE impairment charge
- Total revenue excluding transaction-based expenses; net income adjusted for merger expenses / exit costs
- 4) Total revenue excluding liquidity rebates, brokerage, clearance and exchange fees
- 5) Net income adjusted for goodwill impairment

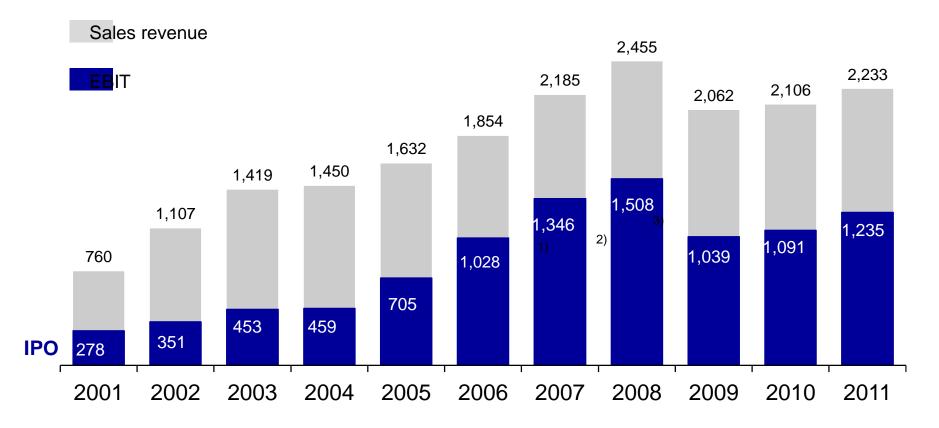
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Comparison of market capitalisation



Deutsche Börse: sustainable growth

Sales revenue and EBIT (in € millions)



1) Adjusted for ISE impairment charge

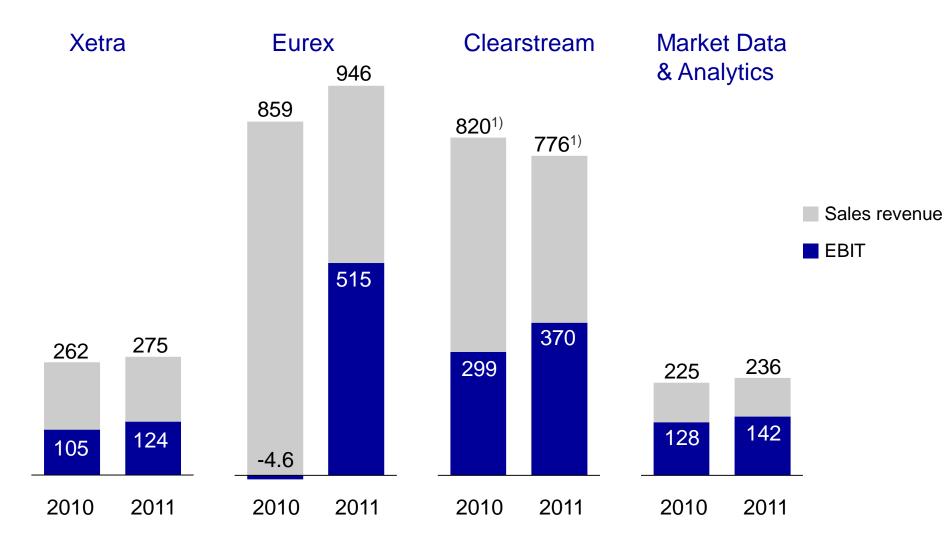
2) Adjusted for ISE impairment charge and costs for efficiency programmes

3) Adjusted for merger and acquisition costs and costs for efficiency programmes

4) CAGR = compound annual growth rate

Source: annual reports Deutsche Börse AG, as at 31 December 2011

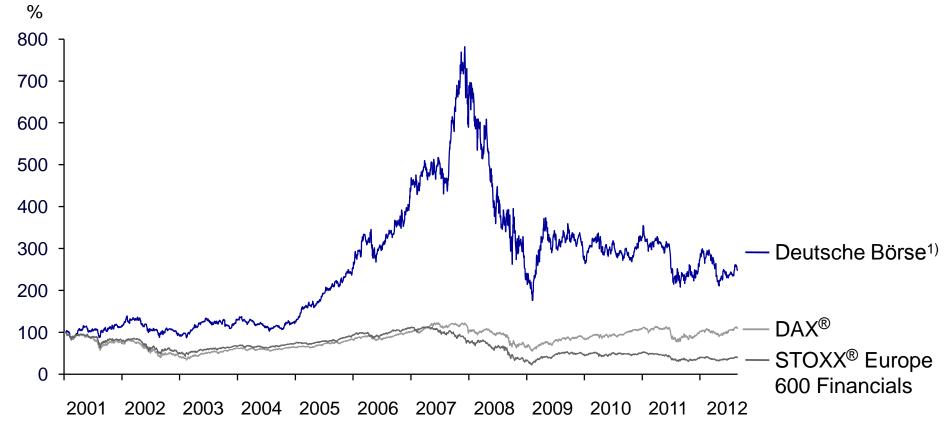
Annual sales revenue and EBIT by segment (in € millions)



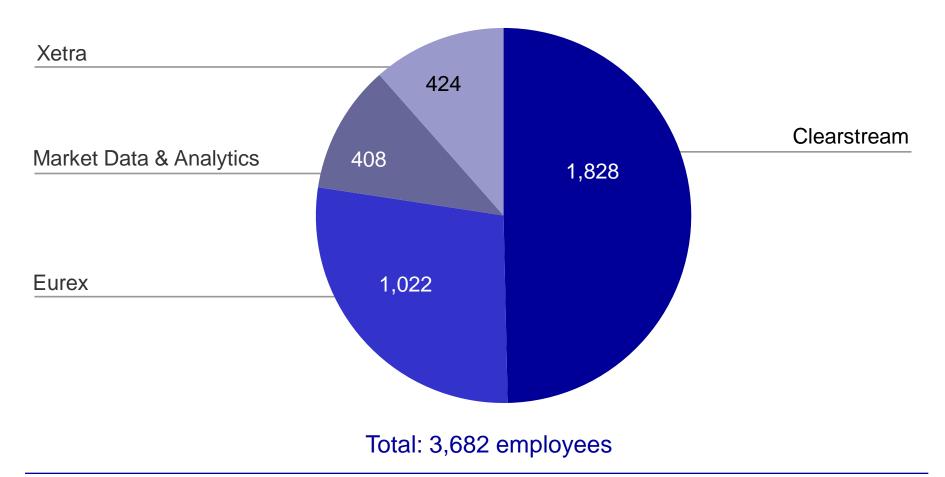
1) Sales revenue and net interest income Source: annual report 2011 Deutsche Börse AG, as at 31 December 2011

Performance of Deutsche Börse share compared to DAX[®] and STOXX[®] Europe 600 Financials





Deutsche Börse Group employees by business areas





Business area Derivatives and Market Data Eurex



What are derivatives?

Derivatives are financial instruments whose value is based on one underlying from which it is derived.

Derivatives come in many varieties and can be defined by how they are traded, the underlying they "derive" from, and the product type (futures, options)

The derivatives market is predominately a globally connected, professional and wholesale market with banks, investment firms, insurance companies and corporates as its main participants

There are two competing segments in the derivatives market: the bilateral over-the-counter (OTC) segment and the multilateral on-exchange segment.

The main distinguish feature of derivatives traded on-exchange is the multilateral market organization with the use of safe and efficient central counterparty clearing



Motivation for trading futures and options

Hedging:

 Protecting existing or planned cash market positions by entering into an opposite position in the derivatives market

Speculation :

- Take a view on the directional development of the underlying asset's price without owning or possessing (e.g. through borrowing) the underlying asset
- The attempt to make a profit from the speculative purchase or sale of futures or options

Arbitrage:

Exploiting price differences between different markets

Customer groups trading at Eurex Exchange

Proprietary traders

- Firms trading at Eurex Exchange with their own money and a speculative trading motivation.
- Strategies can be algorithmic, trend following, contrarian or scalping institutional flows (earning off the bid/offer spreads) for bigger-sized orders from banks and brokers.
- By buying and selling derivatives on a speculative basis, existing liquidity is utilized, and additional liquidity is provided.

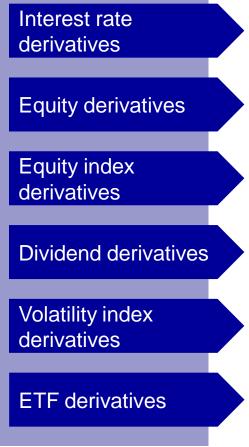
Market Makers

- Liquidity is provided by hedging option positions with comparable products or with cash market instruments, with the intention of earning the bid/offer spread.
- Fee rebates apply for Market Makers who fulfill the exchange's quotation obligations.

Liquidity providers in futures

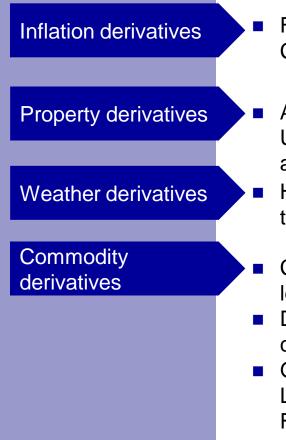
- In the early stage of a new futures contract, institutional and retail trading flows often require provision of liquidity by Market Makers specialized on providing liquidity in futures markets.
- Such liquidity is provided by hedging futures positions with comparable products or with cash market instruments, with the intention of earning the bid/offer spread.
- Fee rebates also apply for such activities.

Eurex: the international derivatives exchange – product portfolio (I)



- High performing derivatives provide the opportunity to trade the European yield curve.
- Strongly expanding futures and options market
- Overall approx. 850 single-stock futures in four currencies from 20 countries can be traded via Eurex Exchange.
- Equity index derivatives were the highest performing segment in 2011.
- Futures on dividend component of the major European benchmark indices as well as futures on the single constituents of the EURO STOXX 50[®] index
- Volatility index derivatives are ideally suited to hedge against fluctuations on the equity market.
- Futures and options on exchange-traded funds as complementary trading and risk management tools

Eurex: the international derivatives exchange – product portfolio (II)



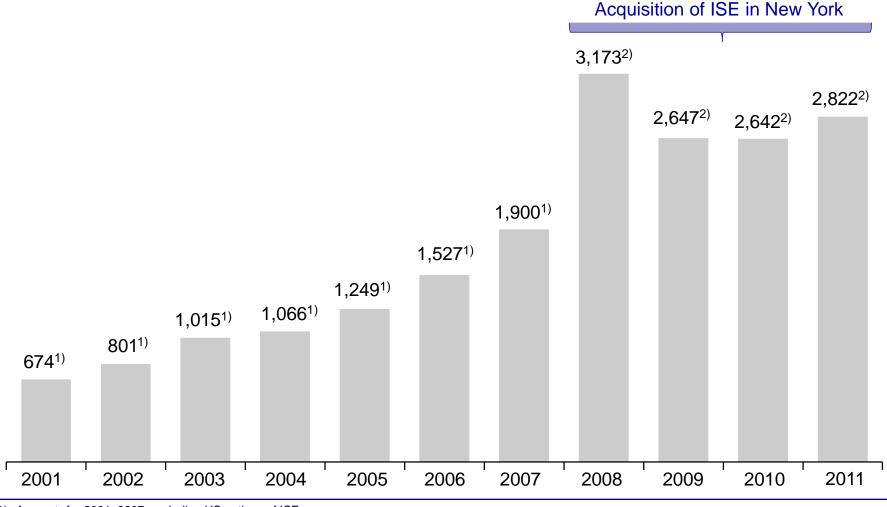
- Futures contracts on the unrevised Harmonised Index of Consumer Prices (HICP) of the euro area excluding tobacco
- Annual futures contracts based on the total returns of the IPD¹) UK Annual All Property Index for individual calendar years as well as other IPD indices
- Hurricane futures provide Eurex members with the opportunity to trade or hedge insured losses related to specific storm events.
- Commodity index derivatives: Eurex futures based on one of the leading benchmarks in commodities trading
- Derivatives on CO₂ and power offered within the framework of the co-operation of Eurex and EEX²)
- Gold and silver derivatives based on fixings provided by The London Gold Market Fixing Ltd. and The London Silver Market Fixing Ltd.

Eurex: a broad range of products — trading opportunities in eleven asset classes

Equity de	erivatives	Equity inde	x derivatives	Dividend	Volat	tility index	ETF
Options	Futures	Options	Futures ¹⁾	derivatives	deriv	ratives	derivatives
Interest rate derivatives ¹⁾)		
Fixed i	ncome	Money r	narket	Euro inflation futures ¹⁾			/
	Commodity derivatives						
CO ₂ derivatives ¹⁾ Precious metal ¹⁾ Dow Jones-UBS Power derivatives ¹⁾ Agricultural derivatives				Il derivatives ¹⁾			
Coal de	erivatives1)	Natural g	ral gas derivatives ¹⁾ Exchange traded commodities derivatives			s derivatives	
Weather derivatives ¹⁾ Property derivatives ¹⁾ USA Florida Gulf							

Trading volumes in the Eurex segment

contracts (in millions)

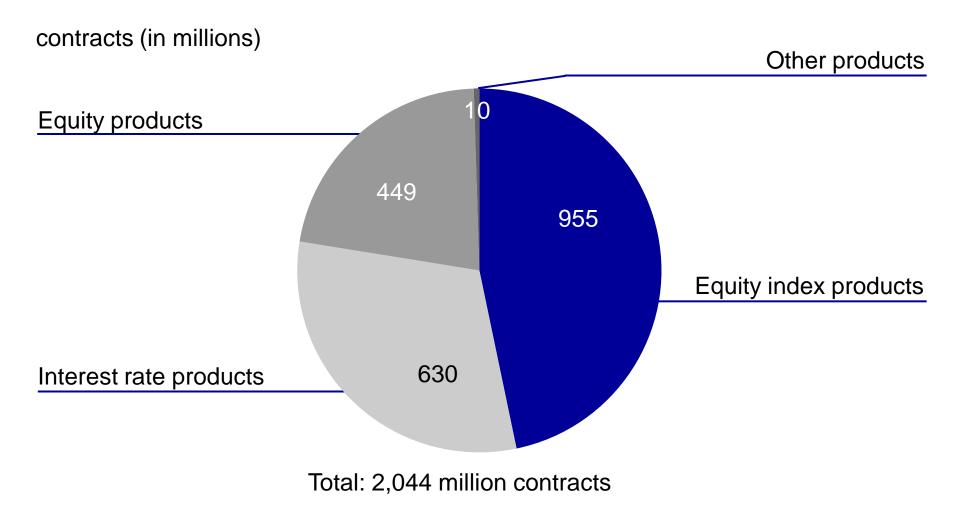


1) Amounts for 2001–2007: excluding US options of ISE

2) Amounts for 2008-2011: including US options of ISE

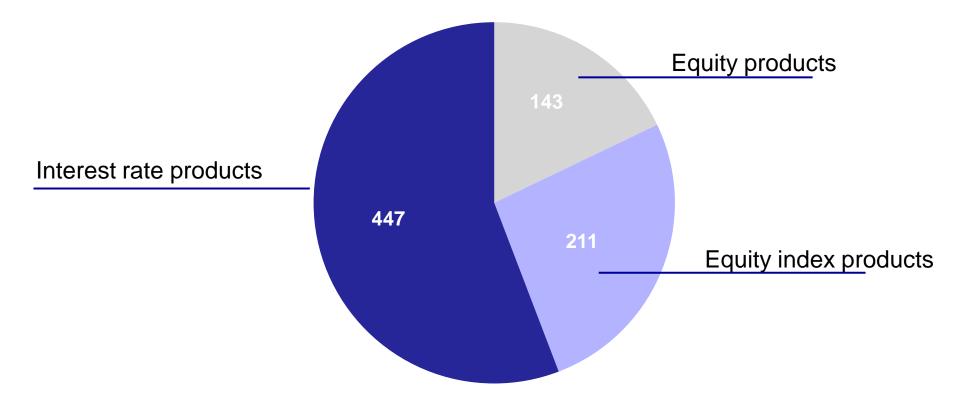
Source: annual report 2011 as at 31 December 2011

Eurex: trading volumes in 2011



Eurex: trading volumes in 2002

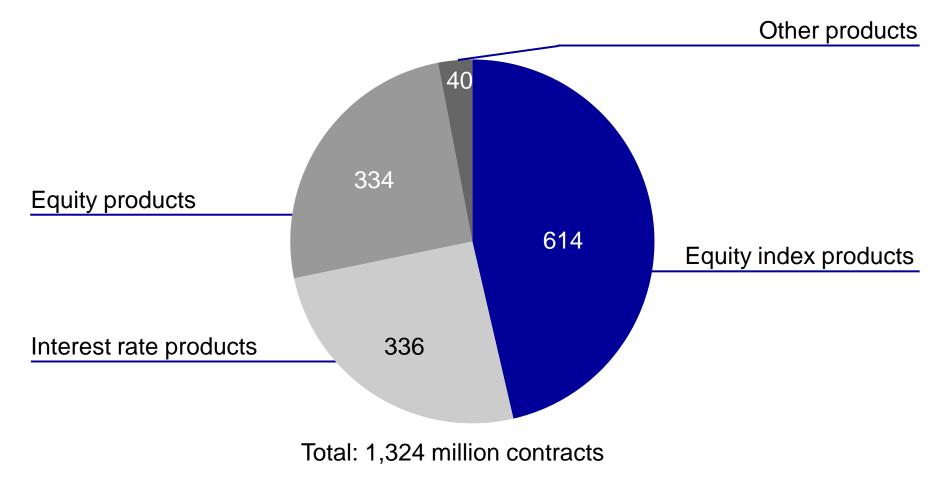
contracts (in millions)



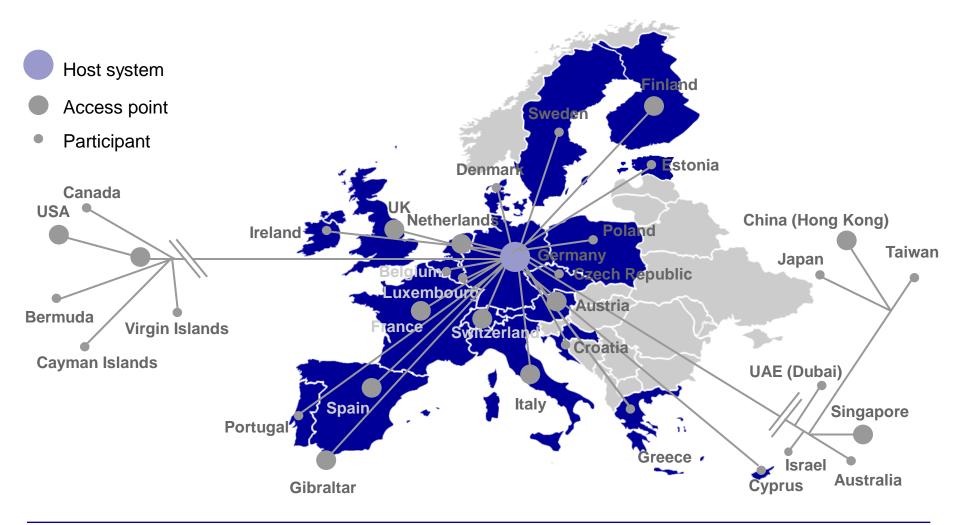
Total: 802 million contracts

Eurex: trading volumes in the first nine months of 2012

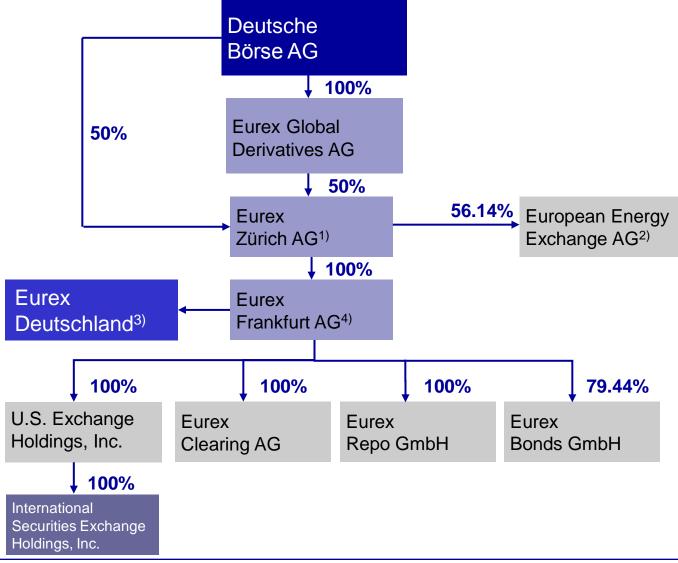
contracts (in millions)



Eurex network: 436 participants trade in 33 markets



Eurex: structure of ownership



1) Exchange under Swiss law at the same time

2) Administrating and operating institution of European Energy Exchange

3) Derivatives exchange under (German) public law

4) Administrating and operating institution of Eurex Deutschland

Functions of the clearing house

- Central counterparty of the original buyer and seller after matching of a buy and a sell order (execution)
- Risk management of the transaction for both sides
 - Calculating margins for buy and sell side
 - Collecting collateral from buy and sell side
- 24-hours or intraday risk management to ensure mark-to-market exposure management
- Delivery management and control to ensure fulfilment of obligations on both sides of the trade

Eurex Clearing AG at a glance

Eurex Clearing is **one of the world's leading clearing houses** offering fully automated and straight-through post-trade services for transactions in the following asset classes:

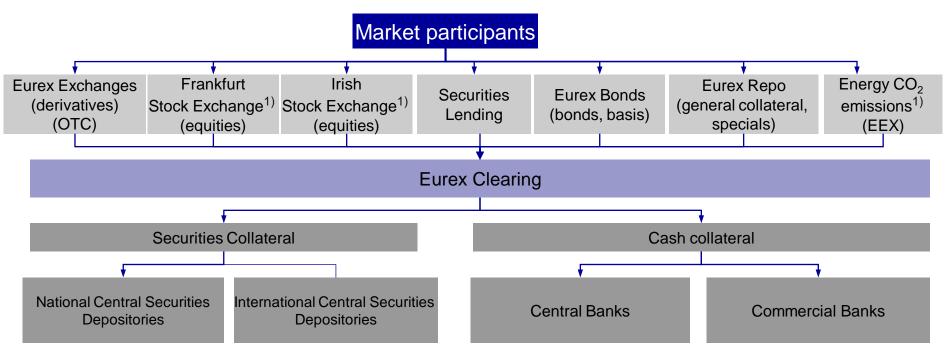
- derivatives
- equities
- repos
- energy
- fixed-income securities

Eurex Clearing acts as a **central counterparty** for these asset classes: it becomes a buyer to all sellers and a seller to all buyers, thereby minimising counterparty risk and improving operational efficiency. Eurex Clearing helps customers to manage trades, risk, collateral and delivery.

Central counterparty (CCP) clearing strengthens market integrity and increases processing efficiency

reduced credit fisk	 Eurex Clearing AG becomes the legal counterparty for all trades and reduces credit risk by multilateral netting. replacement of bilateral credit risk with standard credit risk of CCP. collateralisation of risk exposure and post-default backing.
Reduced capital requirements	• According to the Basel III accord, there are equity capital requirements. In response to that, Eurex Clearing Members have to cover their business operations via the CCP by depositing a moderate amount of liable equity. NCMs ¹) can reduce their capital adequacy requirements if their positions are segregated by the relevant Clearing Member.
interedeed proceeding	 Standardised straight-through processing post-trading approach Netting of volumes and trades across trading locations reduces back-office complexity. fails and financing needs.

Eurex Clearing offers central counterparty services for asset classes on different trading platforms



Advantages:

- Effective risk and collateral management
- Reduction of cross-border settlements

- Mitigation of counterparty risk
- Straight-through processing (STP)

¹⁾ For Frankfurter Wertpapierbörse (FWB[®], the Frankfurt Stock Exchange), the Irish Stock Exchange and the European Energy Exchange, Eurex Clearing is the central counterparty only for CCP eligible trades.



Business area Information Technology



Information Technology: business model

- Information Technology has decades of experience with the core processes of trading, clearing, settlement and the entire financial services sector.
- IT is renowned as a reliable operator of highly performant and highly reliable applications at low cost.
- Partnerships with leading consultants and product providers give Deutsche Börse IT a good starting position for optimising its business-critical core processes.

We aim at becoming the leading outsourcing partner for core processes in the financial services industry.

Deutsche Börse Group operates systems for 32 exchanges and trading venues worldwide

Exchanges / trading venues	Market type		Launch	
Exchanges / trading venues	Spot	Derivative	Launch	
Eurex		✓	January 1990	
Xontro ¹⁾	√ (7)		June 1992	
FWB® (Xetra®)	√		November 1997	
NASDAQ OMX Helsinki		✓	September 1999	
Vienna Exchange	√	\checkmark	November 1999 / April 2010	
ISE (International Securities Exchange)		✓	February 2000	
Irish Stock Exchange	√		June 2000	
EEX (European Energy Exchange) ²⁾	√ (2)	✓	Aug. 2000 / March 2001 / Aug. 2005	
Eurex Bonds [®]	✓		October 2000	
Eurex Repo [®]	✓		July 2003	
Scoach	\checkmark		January 2007	
Capacity Service	√		May 2007	
Bulgarian Stock Exchange	√		June 2008	
Southpool	√		November 2008	
European Power Exchange	√		September 2009	
European Market Coupling Company	✓		November 2009	
Xetra International Market	\checkmark		November 2009	
Central European Gas Hub	✓	✓	December 2009 / December 2010	
Ljubljana Stock Exchange	✓		December 2010	
Xetra Frankfurt Specialist	√		May 2011	
GridLoss Service	√		August 2011	
Malta Stock Exchange	√		July 2012	

1) electronic, broker-supported trading system for floor trading at seven securities exchanges in Germany: Berlin, Dusseldorf, Frankfurt/Main, Scoach, Hamburg-Hanover (BÖAG Börsen AG), Munich, Stuttgart

2) spot markets for natural gas and EU emission allowances (EUAs) As at 30 June 2012



Corporate Responsibility at Deutsche Börse Group



- Employees
- Economy
- Environment
- Corporate citizenship

Corporate Responsibility Initiatives

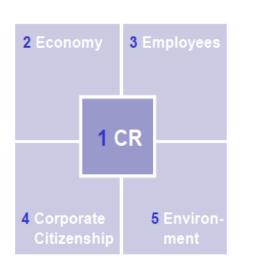
1 Corporate Responsibility - overall topics

- Proactively shape the sustainability debate
- Group wide sustainability committee with decision competence established
- DBG publishes integrated report

2 Economy

 DBG with ESG listing requirements/ESG segment that have been aligned with other exchanges

 Leading position in sustainability ratings/rankings



3 Employees

- DBG disposes of exemplary gender diversity ratio
- Corporate Responsibility engagement is awarded within StAPP
- Conduction of regular employee satisfaction surveys

4 Corporate Citizenship

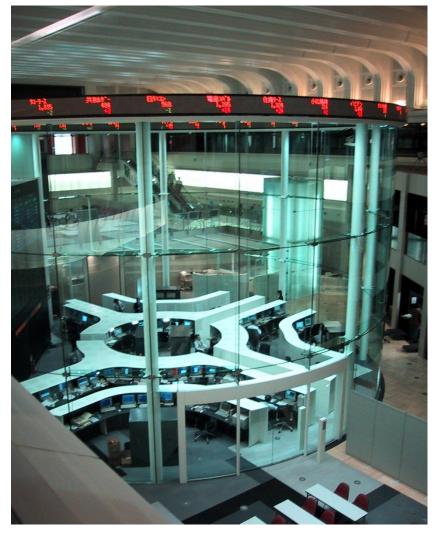
- Focus on Corporate Citizenship initiatives worldwide where DBG is in the lead (DB Photography Prize, DB Arche, etc.)
- International expansion of Phineo gAG

5 Environment

- Ecological footprint of trading day has been calculated and is constantly being reduced
- DBG is awarded for state-of-the-art "Green IT" management

Students, Universities, and Deutsche Börse

- As an active participant in the capital markets in financial centres around the world, we are highly dependent on the quality of our future employees' academic proficiency
- We are also interested in cutting-edge research into new products, new technologies and new strategies that enhance our capabilities as an exchange provider
- Our support comprises the personal involvement of our staff as well as the provision of financial assistance and market experience to our partners
- We believe it is important to build strong relationships which allow us to share knowledge and expertise with academic, social, and research organizations across the globe



Selected teaching assignments of Deutsche Börse staff

Employee	Position at Deutsche Börse	University
Dr. Reto Francioni Dr. Martin Reck	Chief Executive Officer Managing Director	University of Basel University of Frankfurt
Dr. Stefan Mai	Head of Market Policy & European Public Affairs	University of Frankfurt
Jochen Theil	Senior Project Manager	University of Frankfurt
Bernd Mack	Head of VMS & Xetra/Eurex Operations	RheinMain University of Wiesbaden
Dr. Kai-Oliver Maurer	Head of Market & Business Research	University of Fulda

University partnerships

 Deutsche Börse supports the education and training of the next generation of financial market participants through various outreach programs and partnerships



university





香港中文大學 The Chinese University of Hong Kong

SINGAPORE MANAGEMENT



THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE



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