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Indices offered by Vienna Stock Exchange

April 2017



Vienna Stock Exchange – the global expert for CEE Indices



Vienna Stock Exchange has continuously enlarged its network in the CEE region for many years now and cooperate in the fields of indexing and data vending.

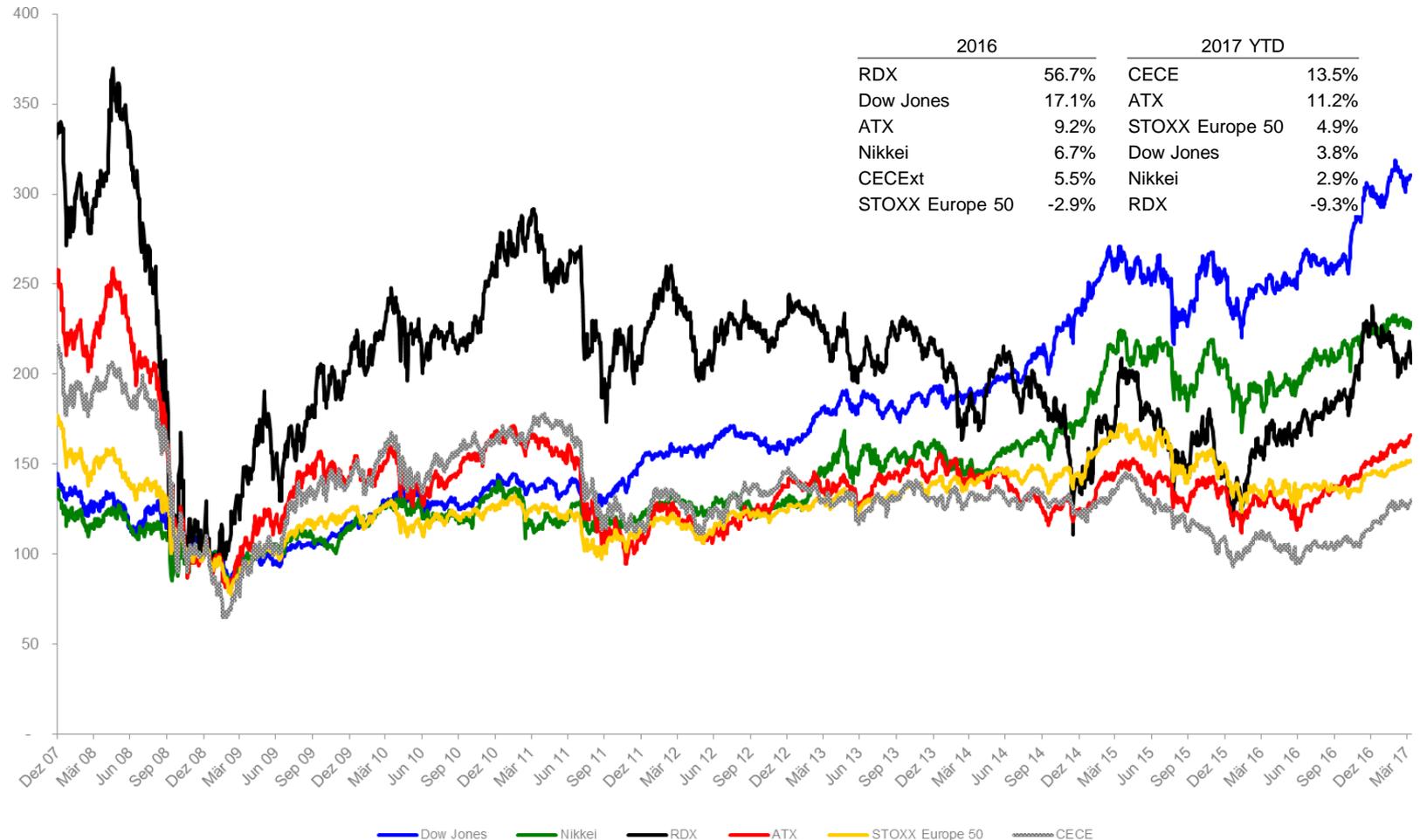
It also acts as exclusive sales agent for the indices of Prague and Ljubljana Stock Exchange.



Emerging Europe vs. Developed Markets

December 2007 – April 2017

(Basis = 100 = 31 Dec 2008)



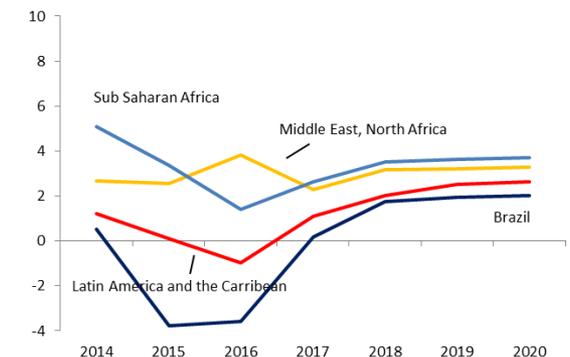
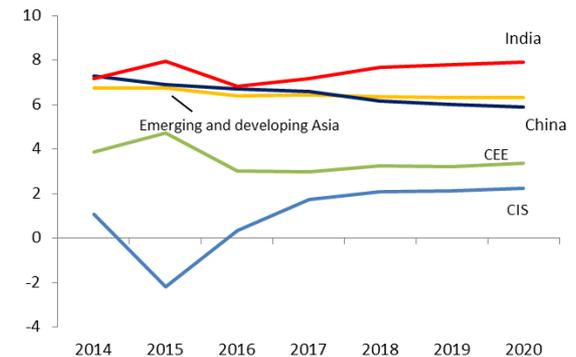
Source: Vienna Stock Exchange, Bloomberg, Indices in EUR



CEE outperforms developed markets

GDP, real change in % against previous year

	2014	2015	2016	2017	2018	2019	2020
Czech Republic	2.7	4.5	2.4	2.8	2.2	2.3	2.3
Hungary	4.0	3.1	2.0	2.9	3.0	2.6	2.4
Poland	3.3	3.9	2.8	3.4	3.2	3.0	2.9
Slovak Republic	2.6	3.8	3.3	3.3	3.7	3.9	3.5
Slovenia	3.1	2.3	2.5	2.5	2.0	2.0	1.8
Bulgaria	1.3	3.6	3.4	2.9	2.7	2.5	2.5
Romania	3.1	3.9	4.8	4.2	3.4	3.3	3.3
Estonia	2.8	1.4	1.6	2.5	2.8	2.7	2.8
Latvia	2.1	2.7	2.0	3.0	3.3	3.6	3.7
Lithuania	3.5	1.8	2.3	2.8	3.1	3.2	3.2
Russia	0.7	-2.8	-0.2	1.4	1.4	1.5	1.5
Kazakhstan	4.3	1.2	1.1	2.5	3.4	2.8	3.2
Euro Area	1.2	2.0	1.7	1.7	1.6	1.6	1.5
Austria	0.6	1.0	1.5	1.4	1.3	1.3	1.1
Central and Eastern Europe	3.9	4.7	3.0	3.0	3.3	3.2	3.4
United States	2.4	2.6	1.6	2.3	2.5	2.1	1.8
Japan	0.3	1.2	1.0	1.2	0.6	0.8	0.2



Source: IMF World Economic Outlook (April 2017)

estimates



CEE is reasonable priced

	Dividend Yield	est. PE Ratio	Correlation MSCI Europe	Correlation MSCI EM Eastern Europe	Correlation MSCI World
Russian Depository Index	5.04	6.12	0.48	0.90	0.47
Kazakh Traded Index	2.96	7.00	0.51	0.47	0.46
Slovenian Blue Chip Index	4.68	11.33	0.14	-0.03	-0.03
Polish Traded Index	2.62	11.64	0.56	0.66	0.42
CECE	3.17	11.65	0.70	0.70	0.53
Hungarian Traded Index	3.24	11.94	0.61	0.49	0.48
Prague SE Index	4.81	12.80	0.63	0.44	0.49
Austrian Traded Index	3.11	13.95	0.84	0.62	0.65
FTSE	4.26	14.80	0.94	0.59	0.75
STOXX Europe 50	4.04	15.27	0.99	0.61	0.81
Nikkei	1.94	16.40	0.17	0.18	0.31
MSCI World	2.54	16.98	0.79	0.57	1.00

Source: Bloomberg, April 2017

Central & South-Eastern European exchanges

March 2017 in bn EUR

Regional Market Capitalisation:	366
Regional Turnover YTD:	57

Vienna	
Equity MCap	104.52
Equity Turnover YTD	16.62
No. of listed companies	81

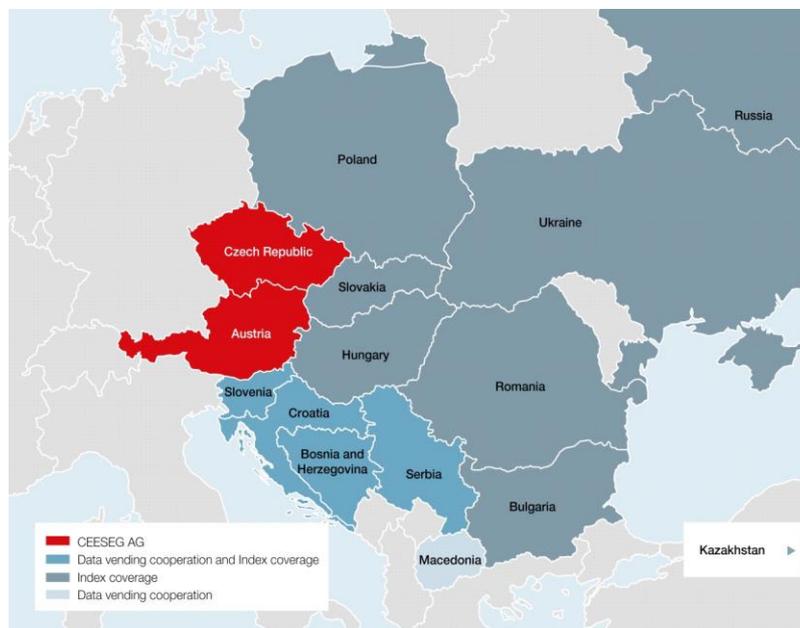
Prague	
Equity MCap	23.40
Equity Turnover YTD	3.00
No. of listed companies	25

Ljubljana	
Equity MCap	5.28
Equity Turnover YTD	0.20
No. of listed companies	38

Budapest	
Equity MCap	21.08
Equity Turnover YTD	4.22
No. of listed companies	40

Belgrade*	
Equity MCap	2.45
Equity Turnover YTD	0.03
No. of listed companies	37

Skopje*	
Equity MCap	1.97
Equity Turnover YTD	0.020
No. of listed companies	108



Warsaw	
Equity MCap	152.95
Equity Turnover YTD	31.08
No. of listed companies	888

Bucharest	
Equity MCap	18.84
Equity Turnover YTD	1.03
No. of listed companies	86

Bratislava	
Equity MCap	4.37
Equity Turnover YTD	0.002
No. of listed companies	68

Sofia	
Equity MCap	4.17
Equity Turnover YTD	0.06
No. of listed companies	89

Zagreb*	
Equity MCap	19.13
Equity Turnover YTD	0.31
No. of listed companies	146

Podgorica*	
Equity MCap	2.91
Equity Turnover YTD	0.006
No. of listed companies	63

Sarajevo*	
Equity MCap	2.77
Equity Turnover YTD	0.028
No. of listed companies	285

Banja Luka*	
Equity MCap	2.07
Equity Turnover YTD	0.002
No. of listed companies	255

Source: FESE, *FEAS or website of stock exchanges

Equity MCap: Month-end March 2017; Turnover: YTD March 2017, double counted domestic & foreign turnover

No. of listed companies: Month-end March 2017



Derivative products

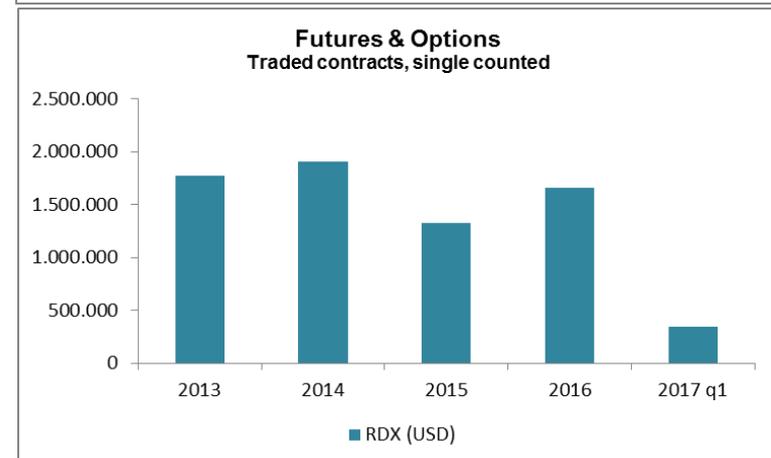
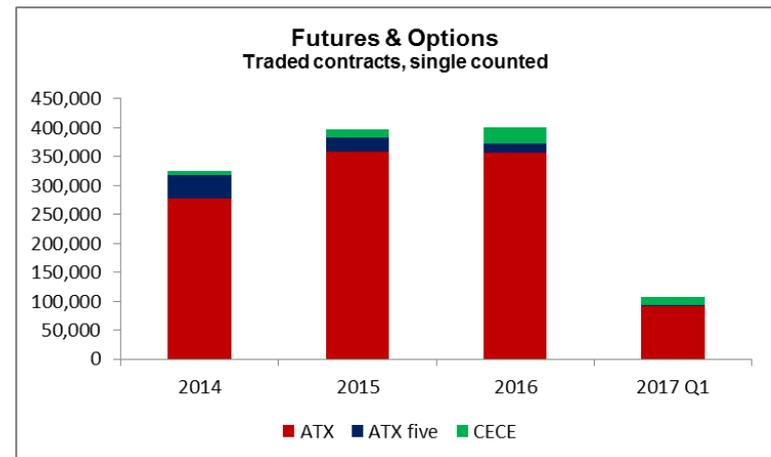
linked to indices of Vienna Stock exchange

■ Futures and Options

Eurex Exchange offers Futures and options based on ATX, ATXfive, CECE and RDX

■ Non standardized products

More than 5000 structured products such as index-linked-certificates, warrants, etc are available to be traded either on exchanges (SIX Structured Products, Vienna Stock exchange, Euwax trading segment of Boerse Stuttgart, Frankfurt stock exchange ...) or OTC.





ETFs and passively managed funds

linked to indices of Vienna Stock exchange and its partner

Index	Issuer	Product name	ISIN	Trading Platform	AuM in m. EUR
ETFs					
ATX	BlackRock (Deutschland)	iShares ATX UCITS ETF	DE000A0D8Q23	Vienna, Frankfurt	66
ATX	ComStage	ComStage ATX® UCITS ETF	LU0392496690	Frankfurt, Stuttgart, Zurich	13
ATX NTR	db x-trackers	db x-trackers ATX UCITS ETF	LU0659579063	London, Frankfurt	194
CECE NTR	Lyxor	Lyxor ETF Eastern Europe	FR0010204073, FR0010654095	Vienna, Frankfurt, Milan, Madrid, Paris, Zurich, Singapore, London	226
RDX	Source	Source RDX ETF	IE00B5NDLN01	London, Frankfurt	21
passively managed funds					
PX	Horizon (KBC)	Horizon Access Fund CSOB Cesky Akciovy	BE6224091866, BE6224093888	no listing	8
ATX	BT Asset Management	BT Index AUSTRIA	ROFDIN0001K4	no listing	2
ATX	J. Meini Asset Management	ATX Fonds	AT0000A1AWA2	no listing	165



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Austrian Indices

Name	Last	Chg. %	Chg. YTD %	Date	Time
▼ ATX	2,615.64	-0.21%	+9.35%	12/14/2016	09:27:57
▼ ATX PRIME	1,324.69	-0.13%	+7.99%	12/14/2016	09:13:03
▼ ATX FIVE	1,366.47	-0.26%	+6.27%	12/14/2016	09:13:03
▲ IATX	249.36	+0.21%	+5.52%	12/14/2016	09:12:27
▲ WBI	1,028.15	+0.41%	+9.99%	12/13/2016	17:36:19

CEE Indices

Name	Last	Chg. %	Chg. YTD %	Date	Time
▲ CECE EUR	1,451.22	+0.14%	+3.36%	12/14/2016	09:13:00
▲ SETX EUR	1,032.84	+0.05%	+4.04%	12/14/2016	09:13:02
▲ CECEXT EUR	937.32	+0.13%	+3.43%	12/14/2016	09:13:02
▲ CECE MID EUR	1,305.16	+0.18%	+14.92%	12/14/2016	09:13:02
▼ NTX EUR	1,000.08	-0.08%	+4.31%	12/14/2016	09:13:04
▲ IBTX EUR	616.81	+0.15%	-9.11%	12/14/2016	09:13:01

ATX
ATX PRIME
CECE
RDX

Last 2,615.64 Chg.% -0.21% [Real-time]

News

Index Committee

The Committee Decisions are available under the following link...

→ Committee Decisions

Tips

Index Navigator

Seek and find your index

→ Go To Navigator

<https://www.wienerborse.at/en/indices>



Indexing at Vienna Stock Exchange

- Historical milestones
 - 31 Dec. 1967: first index launched (WBI – Wiener Börse Index)
 - 1991: ATX Index Family
 - 1996 – 1997 CECE Index Family, RTX, RDX
 - 2003 – 2005: customized indices, ROTX, NTX
 - 2006 – 2008: SETX, CECExt, CEE Sectors, CECE INF, CERX, SRX, CROX, BTX, RDXxt, KTX, UTX, Short Indices, TR indices, Mid Cap indices
 - 2009 – 2011: CEERIUS, CEESEG indices, CEESEG sectors, BATX, CECE FND, RTX sectors, RDX sectors, ATX FND, ATX sectors, Dividend indices, DVP Indices, NTR indices
 - 2012 – 2014: ATX GP, KTX LOCAL Index, Leverage Indices, Distributing Indices
 - 2016: ATX PC8
- National and regional approach (CEE area)
- Real-time and tradable indices
- Covering 14 markets and servicing over 140 clients worldwide

Indices of Vienna Stock Exchange

Vienna Stock Exchange

Austria		Central and Eastern Europe (CEE)			Commonwealth o. Indep.States (CIS)	
Country Indices	Sector Indices	Country Indices	Regional Indices	Sector Indices	Country Indices	Sector Indices
ATX* Austrian Traded Index	ATX BI ATX Basic Industries	CTX Czech Traded Index	CECE* CECE Composite Index	CECE BNK CECE Banking	RDX* Russian Depository Index	RTX OIL RTX Oil & Gas
ATX Prime	ATX CPS ATX Consumer Products & Services	HTX Hungarian Traded Index	SETX* South-east Europe Traded Index	CECE OIL CECE Oil & Gas	RDXxt RDX Extended	RTX MET RTX Mining & Metals
ATX five	ATX FIN ATX Financials	PTX Polish Traded Index	CECExt CECE Extended Index	CECE TEL CECE Telecom	RTX Russian Traded Index	RTX NRG RTX Energy
WBI Wiener Börse Index	ATX IGS ATX Industrial Goods & Services	ROTX Romanian Traded Index	NTX New Europe Blue Chip Index	CECE HCA CECE Health Care	RTX MID Russian Traded Mid Cap Index	RDX OIL RDX Oil & Gas
	IATX Immobilien ATX	CROX Croatian Traded Index	CECE MID CECE Mid Cap Index	CECE INF CECE Infrastructure	UTX Ukrainian Traded Index	RDX MET RDX Mining & Metals
		SRX Serbian Traded Index		CERX CEE Real Estate Index	KTX Kazakh Traded Index	
		BTX Bulgarian Traded Index			KTX LOCAL Kazakhstan Traded Index Local	
		BATX Bosnian Traded Index				

* also available as Total Return (TR) and Net Total Return (NTR) Index

Indices of Vienna Stock Exchange and its partner

Vienna Stock Exchange				Prague Stock Exchange**	Ljubljana Stock Exchange**
Theme- & Style Indices				Czech Republic	Slovenia
Austria		CEE	CIS	Country Indices	Country Indices
ATX FND ATX Fundamental	ATX TD DSTB ATX Top Dividend Distributing	CECE FND CECE Fundamental	SRDX Short RDX	PX* PX Index	SBI TOP Slovene Blue Chip Index
ATX DVP ATX Dividend Points	ATX PC8* ATX Prime Capped 8	CECE DVP CECE Dividend Points	SRDX2 Double Short RDX	PX-GLOB PX-GLOB Index	
ATX TD* ATX Top Dividend	ATX GP ATX Global Players	CECE TD* CECE Top Dividend	RDX LV2 RDX NTR Lev x2		
SATX Short ATX	VÖNIX** Österreichischer Nachhaltigkeitsindex	CEERIUS CEE Responsible Investment Universe	RDX LV4 RDX NTR Lev x4		
SATX2 Double Short ATX		SCECE Short CECE			
ATX LV2 ATX NTR Lev x2		SCECE2 Double Short CECE			
ATX LV4 ATX NTR Lev x4		CECE LV2 CECE NTR Lev x2			
ATX DSTB ATX Distributing		CECE LV4 CECE NTR Lev x4			

* also available as Total Return (TR) and Net Total Return (NTR) Index

** not a trademark of the Vienna Stock Exchange



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