Stock Exchange Turnover



in Derivatives

Structured products market sees growth in turnover

Sharp increase in Discount Certificates and Bonus Securities

STRUCTURED SECURITIES INVESTMENT PRODUCTS LEVERAGE PRODUCTS with capital protection without capital protection without Knock-Out with Knock-Out (100%) (< 100%) Capital Protection Tracker Certificates **Reverse Convertibles Express Certificates Knock-Out Warrants** Products with Coup Factor Certificates **Credit Linked Notes Discount Certificates Bonus Certificates** Capped Outperformance Certificates **DDV Classification System**

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May I 2018

- The exchanges in Stuttgart and Frankfurt achieved turnover of EUR 3.2 billion in investment and leverage products in May.
- Exchange-based turnover in investment products went up by 32.8 percent and outperformed the overall market. This category made up 47.3 percent of the total trading turnover.
- Turnover in Discount Certificates rocketed by 44.1 percent and stood at EUR 563.8 million.
- Investment products with indices as an underlying saw turnover growth of 39.2 percent to EUR 704.3 million.

Structured products market sees growth in turnover

Sharp increase in Discount Certificates and Bonus Securities

Developments on the capital markets prompted an increase in trading in structured products on the exchanges in Stuttgart and Frankfurt in May. Exchange turnover in structured and leverage products totalled EUR 3.2 billion. The total number of orders executed stood at 435,195, while the average order size was EUR 7,313.

A trading volume of EUR 1.5 billion was generated with investment products in May. It made up 47.3 percent of the total transaction volume. The average order size was EUR 28,706.

Turnover in leverage products totalled EUR 1.7 billion in the period under review and accounted for 52.7 percent of the total turnover. The average order size was EUR 4,380.

New issues

Banks issued 52,756 new investment products and 309,146 new leverage products at the end of May. In total, 541,892 investment products and 1,155,472 leverage products were available at the exchanges in Stuttgart and Frankfurt.

Exchange turnover by product category

Investment products

Almost all product categories saw a sharp increase in turnover activity. In particular, Discount Certificates und Bonus Securities recorded a significant rise in absolute terms. Turnover in Discount Certificates rose to EUR 563.8 million in May, while turnover in Bonus Certificates stood at EUR 511.2 million. Express Certificates saw brisk trading as well, whereas Credit Linked Notes fell to EUR 9.1 million in turnover. The exchange-based turnover for Uncapped Capital Protection Products offering full capital protection stood at EUR 19.6 million in total.

Leverage products

All product categories recorded a significant increase in turnover. Warrants saw turnover growth of EUR 428.1 million. Trading activity in Knock-Out Warrants stood at EUR 975.3 million, and at EUR 272.9 million in Factor Certificates.

Exchange turnover by underlying

Investment products

Trading in products with indices as an underlying rose to EUR 704.3 million in May. Therefore indices were the most popular underlying among investment products, accounting for a 46.8 percent share. Turnover in products with equities as an underlying also rose to EUR 678.8 million. Following a slight upsurge in the previous month, turnover in products with commodities as an underlying went up to EUR 10.9 million. Turnover in investment products with currencies as an underlying rose to EUR 14.0 million, and turnover in investments products with interest rates as an underlying decreased markedly.

Leverage products

The picture was mixed when it came to exchange-based turnover by underlying. While products with indices as an underlying climbed up to 51.0 percent, the market share of products with equities as an underlying dropped to 37.4 percent. After the losses recorded in the previous month, commodities as an underlying fell again and stood at EUR 34.3 million. The trading volume of leverage products based on currencies saw a substantial increase.

Exchange-based turnover

The exchange in Stuttgart recorded a turnover volume of EUR 2.1 billion in May. Its market share of the total turnover amounted to 66.1 percent. Frankfurt's exchange generated a trading volume of EUR 1.1 billion. The figure accounted for 33.9 percent of the total exchange-based turnover. 41.7 percent of all customer orders were executed in Frankfurt and 58.3 percent in Stuttgart.































Deutscher Derivate Verband (DDV)

Deutscher Derivate Verband (DDV), the German Derivatives Association, is the industry representative body for the leading issuers of derivative securities in Germany, who represent more than 90 percent of the German structured products market: BayernLB, BNP Paribas, Citigroup, Commerzbank, Deka-Bank, Deutsche Bank, DZ BANK, Goldman Sachs, Helaba, HSBC Trinkaus, HypoVereinsbank, LBBW, Société Générale, UBS and Vontobel. Furthermore, the Association's work is supported by sixteen sponsoring members, which include the Stuttgart and Frankfurt Exchanges, Baader Bank, the direct banks comdirect bank, Consorsbank, DAB Bank, flatex, ING-DiBa and S Broker, as well as finance portals and other service providers.

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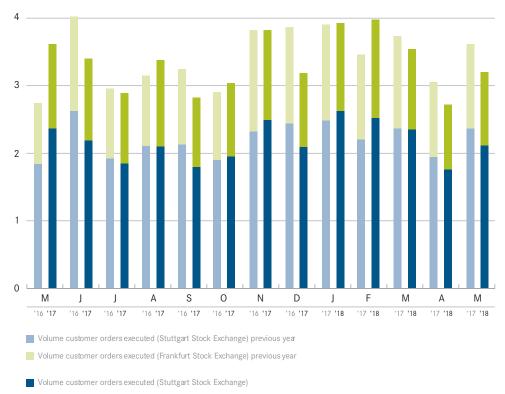
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Year Overview Stock Exchange Turnover May 2018

Month		Total	Stuttgart Stoo	Frankfurt Stoc	Stock Exchange			
		Number of		Number of	Number of			
	in T€	orders	in T€	orders	in T€	orders		
May 2017	3,640,768	446,440	2,376,169	244,843	1,264,600	201,597		
June 2017	3,421,454	453,382	2,196,531	243,120	1,224,923	210,262		
July 2017	2,911,359	424,463	1,852,962	232,910	1,058,398	191,553		
August 2017	3,361,404	485,230	2,085,003	264,830	1,276,401	220,400		
September 2017	2,806,304	420,047	1,786,501	222,331	1,019,803	197,716		
October 2017	3,013,092	444,144	1,936,767	239,074	1,076,324	205,070		
November 2017	3,810,208	578,559	2,476,476	314,925	1,333,731	263,634		
December 2017	3,178,408	443,457	2,083,628	247,558	1,094,780	195,899		
January 2018	3,925,542	576,336	2,623,866	319,033	1,301,677	257,303		
February 2018	3,978,912	606,726	2,519,290	330,209	1,459,622	276,517		
March 2018	3,529,187	579,196	2,337,247	331,649	1,191,940	247,547		
April 2018	2,699,781	419,262	1,739,813	242,480	959,967	176,782		
May 2018	3,182,457	435,195	2,103,841	253,752	1,078,616	181,443		





Volume customer orders executed (Frankfurt Stock Exchange)

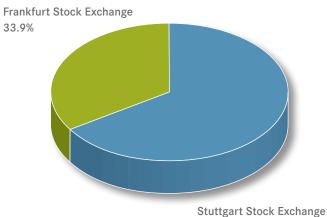
Turnover volume by stock exchange May 2018

Stuttgart Stock	Exchange	Frankfurt Stock	Exchange		Total
Volume	Share	Volume	Share	Volume	Share
10,886	0.5%	9,028	0.8%	19,914	0.6%
963,285	45.8%	522,937	48.5%	1,486,222	46.7%
974,171	46.3%	531,966	49.3%	1,506,136	47.3%
631,637	30.0%	343,668	31.9%	975,306	30.6%
498,033	23.7%	202,982	18.8%	701,015	22.0%
1,129,670	53.7%	546,650	50.7%	1,676,320	52.7%
2,103,841	100.0%	1,078,616	100.0%	3,182,457	100.0%
	Volume 10,886 963,285 974,171 631,637 498,033 1,129,670	10,886 0.5% 963,285 45.8% 974,171 46.3% 631,637 30.0% 498,033 23.7% 1,129,670 53.7%	Volume Share Volume 10,886 0.5% 9,028 963,285 45.8% 522,937 974,171 46.3% 531,966 631,637 30.0% 343,668 498,033 23.7% 202,982 1,129,670 53.7% 546,650	Volume Share Volume Share 10,886 0.5% 9,028 0.8% 963,285 45.8% 522,937 48.5% 974,171 46.3% 531,966 49.3% 631,637 30.0% 343,668 31.9% 498,033 23.7% 202,982 18.8% 1,129,670 53.7% 546,650 50.7%	Volume Share Volume Share Volume 10,886 0.5% 9,028 0.8% 19,914 963,285 45.8% 522,937 48.5% 1,486,222 974,171 46.3% 531,966 49.3% 1,506,136 631,637 30.0% 343,668 31.9% 975,306 498,033 23.7% 202,982 18.8% 701,015 1,129,670 53.7% 546,650 50.7% 1,676,320

Number of customer orders by stock exchange May 2018

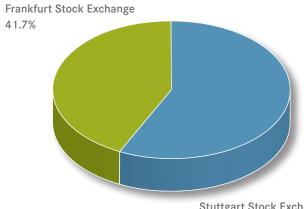
	Stuttgart Stock	Exchange	Frankfurt Stock	Exchange		Total	
	Number	Share	Number	Share	Number	Share	
Investment products with capital protection	661	0.3%	490	0.3%	1,151	0.3%	
Investment products without capital protection	34,697	13.7%	16,619	9.2%	51,316	11.8%	
Investment products total	35,358	13.9%	17,109	9.4%	52,467	12.1%	
Leverage products without knock-out	120,424	47.5%	106,261	58.6%	226,685	52.1%	
Leverage products with knock-out	97,970	38.6%	58,073	32.0%	156,043	35.9%	
Leverage products total	218,394	86.1%	164,334	90.6%	382,728	87.9%	
Total	253,752	100.0%	181,443	100.0%	435,195	100.0%	

Turnover volume by stock exchange as a percentage



66.1%

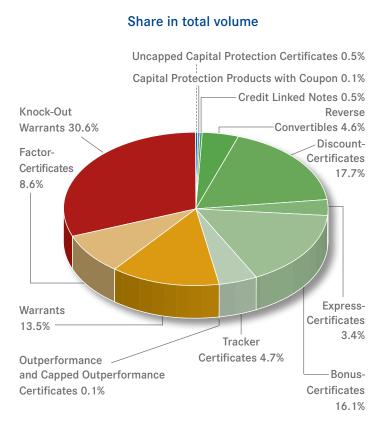
Number of customer orders by stock exchange as a percentage



Stuttgart Stock Exchange 58.3%

Turnover by product category May 2018

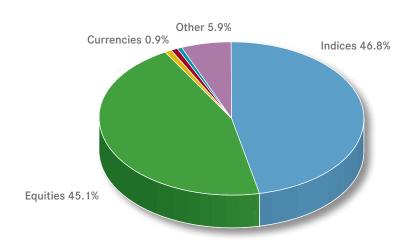
Pro	duct categories	Volume	Change in comparison with previous month	Share	Number of orders	Change in comparison with previous month	Share	Volume per order	Change in comparison with previous month
		in T €	in %	in %	#	in %	in %	in T €	in %
•	Uncapped Capital Protection Certificates	17,024	-3.4	0.5	960	-0.4	0.2	17,733	-3.0
	Capital Protection Products with Coupon	2,614	22.6	0.1	191	-24.2	0.0	15,132	65.0
	Credit Linked Notes	9,056	-9.1	0.3	373	-8.6	0.1	24,279	-0.6
	Reverse Convertibles	144,823	29.1	4.6	6,875	33.3	1.6	21,065	-3.2
	Discount Certificates	563,849	44.1	17.7	14,958	36.8	3.4	37,695	5.3
	Express Certificates	107,313	43.1	3.4	4,787	21.2	1.1	22,418	18.0
	Bonus Certificates	511,230	31.1	16.1	12,148	24.0	2.8	42,083	5.8
	Tracker Certificates	148,613	9.6	4.7	12,116	10.6	2.8	12,243	-0.9
	Outperformance and Capped Outper- formance Certificates	1,614	97.8	0.1	59	43.9	0.0	27,354	37.5
	Investment products	1,506,136	32.8	47.3	52,467	23.6	12.1	28,706	7.4
	Warrants	428,140	2.4	13.5	110,783	-5.9	25.5	3,865	8.8
	Factor Certificates	272,875	24.8	8.6	45,260	8.9	10.4	6,029	14.5
	Knock-Out Warrants	975,306	5.0	30.6	226,685	4.2	52.1	4,302	0.8
	Leverage products	1,676,320	7.1	52.7	382,728	1.6	87.9	4,380	5.4
	Total	3,182,457	17.9	100.0	435,195	3.8	100.0	7,313	13.6



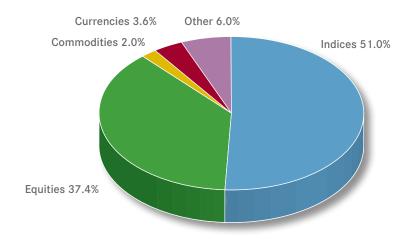
Turnover by underlying May 2018

Underlying		Change in comparison	
	Volume	with previous month	Share
	in T €	in %	in %
Investment products			
Indices	704,276	39.2%	46.8%
■ Equities	678,840	29.1%	45.1%
Commodities	10,906	44.9%	0.7%
Currencies	14,037	2.7%	0.9%
Interest rates	8,278	-11.0%	0.5%
Investment funds	506	-38.0%	0.0%
Other	89,293	25.2%	5.9%
Investment products total	1,506,136	32.8%	100.0%
Leverage products			
Indices	854,517	12.2%	51.0%
Equities	626,378	-1.4%	37.4%
Commodities	34,321	-23.9%	2.0%
Currencies	60,826	82.3%	3.6%
Interest rates	67	19.7%	0.0%
Investment funds	0	0%	0.0%
Other	100,212	11.2%	6.0%
Leverage products total	1,676,320	7.1%	100.0%
Total	3,182,457	17.9%	

Investment products by underlying



Investment products by underlying



Number of new issues May 2018

Month				Ir	nvestment pro	ducts				Leverage products							
	With capital			Wi	Without capital protection					Without knock-out							
	Uncapped Capital Protection Certificates	Capital Protection Products with Coupon	Credit Linked Notes	Reverse Convertibles	Discount Certificates	Express Certificates	Bonus Certificates	Tracker Certificates	•	Warrants	Factor Certificates	Knock-Out Warrants	Total				
January 2018	6		21	10,245	16,415	369	23,889	130	4	63,352	296	224,655	339,382				
February 2018	9		19	12,801	17,261	340	29,717	33	2	68,571	358	253,626	382,737				
March 2018	9	1	31	9,548	13,166	459	23,355	91	2	67,292	1,162	242,083	357,199				
April 2018	18		8	9,181	14,810	411	28,732	190		73,037	919	202,897	330,203				
May 2018	15	2	68	10,362	22,261	417	19,527	103	1	57,239	676	251,231	361,902				
1/18 - 5/18	57	3	147	52,137	83,913	1,996	125,220	547	9	329,491	3,411	1,174,492	1,771,423				
		60				263,969)			3	32,902	1,174,492	1,771,423				
1/18 - 5/18					264,029						1,507,39	94	1,771,423				

Total number of products May 2018

Month		Investment products										Leverage products			
-	With capital	protection			Wi	thout capital p	rotection				hout ck-out	With knock-out			
	Uncapped Capital Protection Certificates	Capital Protection Products with Coupon	Credit Linked Notes	Reverse Convertibles	Discount Certificates	Express Certificates	Bonus Certificates	Tracker Certificates		Warrants	Factor Certificates				
May 2017	1,318	129	1,427	123,720	190,046	5,607	252,882	9,153	1,582	551,388	9,583	396,656	1,543,491		
June 2017	1,285	118	1,449	118,897	172,643	5,483	228,607	9,204	1,341	525,563	10,962	383,370	1,458,922		
July 2017	1,243	112	1,424	127,838	183,595	5,526	251,188	9,500	1,337	557,121	10,908	404,243	1,554,035		
August 2017	1,195	108	1,444	129,322	183,128	5,492	258,542	9,600	1,351	592,107	10,904	430,955	1,624,148		
September 2017	1,179	100	1,456	123,411	168,780	5,520	231,174	9,906	1,115	571,071	11,107	435,983	1,560,802		
October 2017	1,167	94	1,421	120,849	169,748	5,538	241,717	9,981	1,035	628,012	11,186	455,640	1,646,388		
November 2017	1,136	92	1,466	121,683	171,478	5,537	233,565	10,017	1,037	651,209	12,063	474,974	1,684,257		
December 2017	1,105	86	1,491	114,254	157,301	5,559	208,924	10,083	1,393	613,239	12,562	454,492	1,580,489		
January 2018	1,080	82	1,491	119,423	164,173	5,591	215,058	10,139	1,396	620,671	12,817	491,634	1,643,555		
February 2018	1,107	42	1,509	124,874	172,299	5,656	227,170	10,118	1,331	628,698	13,044	506,743	1,692,591		
March 2018	1,095	37	1,530	115,676	162,686	5,916	214,579	10,137	1,216	603,034	13,879	482,254	1,612,039		
April 2018	1,098	37	1,466	119,874	169,138	6,167	228,730	10,265	1,108	621,157	14,744	495,520	1,669,304		
May 2018	1,094	38	1,532	118,424	179,351	6,418	223,621	10,305	1,109	622,836	15,374	517,262	1,697,364		
	1	,132				540,760)			622,836	15,374	517,262	1,697,364		
May 2018 -		-			541,892						1,155,472		1,697,364		

The statistics include the turnover in derivatives at the stock exchanges in Stuttgart (EUWAX) and Frankfurt (EUWAX statistics. The statistics cover all orders entered into the system by customers (not issuers or market makers) and executed by price determination. Issuers' market making activities (provision of liquidity for own securities) are not taken into account. Orders routed via an order flow provider offering an intermediary service are only counted once. Each partial execution of an order counts as an order. Later corrections made in stock exchange systems (e.g. a cancellation following a mistrade) are not taken into account. The securities are allocated using securities master data from WM Gruppe (Wertpapier-Mitteilungen), the German numbering agent and provider of securities information, as well as the securities master data from boerse-stuttgart AG. This allows the best possible classification of the turnover data by stock exchange, product group and issuer. From January 2010, the derivatives are classified according to the product classification developed by Deutscher Derivate Verband (DDV).

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