

# Stock Exchange Turnover

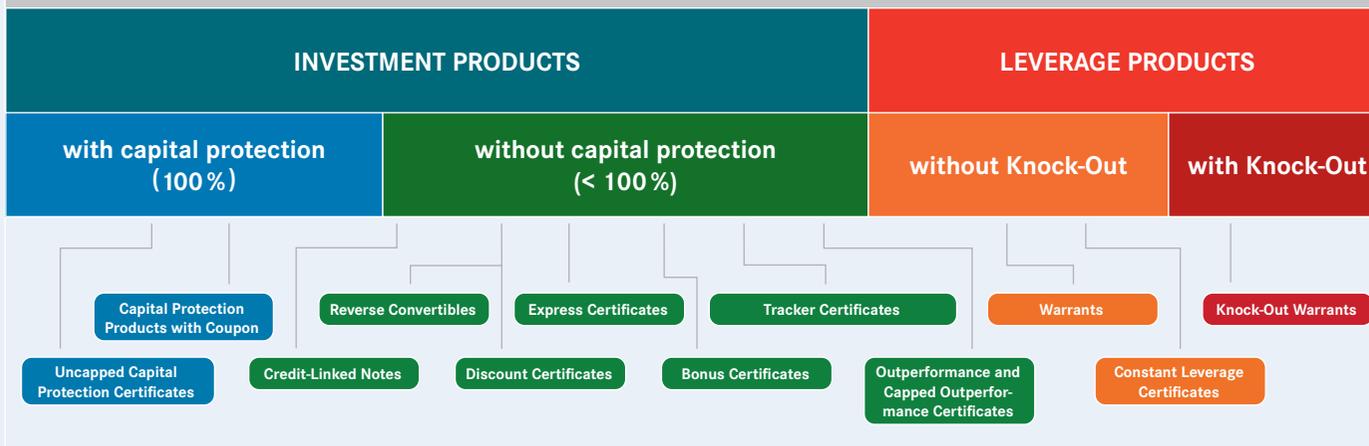
of Structured Products



## Lively trading in a positive environment

Investors focus increasingly on single-stock selection in the stock market rally

### STRUCTURED PRODUCTS



### DDV Product Classification System

### CONTENTS

Year overview stock exchange turnover	4
Turnover volume by stock exchange	5
Number of client orders by stock exchange	5
Turnover by product category	6
Investment products by underlying	7
Leverage products by underlying	7
Number of new issues	8
Total number of products	9
Statistical methodology	9

## May | 2020

- In May, the Stuttgart and Frankfurt stock exchanges recorded EUR 4.3 billion turnover in structured products, remaining above the average for the previous 12 months (EUR 4.1 billion).
- At the end of the month, investors could choose between a total of 442,488 investment products and 1,104,640 leverage products.
- Due to increasing order volumes in the major product categories of Reverse Convertibles and Bonus Certificates, turnover across investment products fell by only 5.0 per cent.
- Indices as an underlying were in less demand in the ongoing stock market recovery. The focus on single-stock selection increased, resulting in growth in equities as an underlying for both investment and leverage products.

## Lively trading in a positive environment

Investors focus increasingly on single-stock selection in the stock market rally

In an environment of continuing recovery on the stock markets and largely declining implied volatilities, the trading volume in structured products in May fell by 16.9 percent compared to the previous month. However, the total turnover of EUR 4.3 billion in investment and leverage products remained above the EUR 4.1 billion average for the previous 12 months, which largely reflects the calmer pre-crisis period. At 768,732, the number of client orders executed in May was around 9.5 percent lower than in the previous month.

As the trading volume in investment products fell by only 5.0 percent to around EUR 1.1 billion, they increased their share of total turnover to 26.2 percent (up from 22.9 percent in the previous month). In contrast, the almost EUR 3.2 billion turnover in leverage products represented a steep drop of 20.5 percent compared to the previous month.

### New issuances

In May, 427,493 new products were launched. This corresponds to a slight decrease of 2.2 percent compared to the previous month. The number of leverage products issued also fell only slightly (down 2.3 percent to 352,907). The 74,586 new investment products represented a small (1.6 percent) decrease in issuances as well. At the end of May, the product range of the Stuttgart and Frankfurt stock exchanges comprised some 442,488 investment products and 1,104,640 leverage products.

### Stock exchange turnover by product category

#### Investment products

The fact that only slight declines in turnover were recorded in investment products was due to the continuing momentum and even growth in trading activities for some of the most

significant product categories. Turnover in **Reverse Convertibles** rose by 21.6 percent, and increased by 5.1 percent for **Bonus Certificates**. Order volumes for **Discount Certificates** and **Tracker Certificates** also recorded lower declines than the market as a whole (-10.6 percent and -10.8 percent respectively).

#### Leverage products

While **Constant Leverage Certificates** and **Knock-Out Warrants** recorded respective declines in turnover of 28.5 percent and 23.6 percent on the previous month, trading in **Warrants** was only slightly quieter, dropping 7.2 percent to EUR 820.4 million, and so increased their market share to 25.8 percent (up from 22.1 percent in the previous month). Nevertheless, **Knock-Out Warrants** remained the strongest product category, with their order volume of EUR 2.0 billion corresponding to 64.2 percent of the leverage segment. ▶▶

## Stock exchange turnover by underlying

### Investment products

In the ongoing market rally, investors focused on single-stock selection in **equities as an underlying asset**, with turnover defying the general market trend and increasing by 10.9 percent to EUR 383.1 million. This increased the market share of the second-most important category in the investment products segment by 4.8 percentage points to 33.9 percent. In contrast, **indices as an underlying asset** fell by 7.6 percent to EUR 606.0 million, bringing their market share down to 53.7 percent. Demand for **commodities as an underlying asset** fell even more steeply, with the 45.9 percent drop in turnover bringing their market share in the investment products segment down to 3.5 percent (from the previous month's 6.1 percent).

### Leverage products

In contrast, investor interest in **commodities as an underlying asset** for leverage products remained relatively stable at EUR 459.6 million, representing a decrease of only 0.6

percent, and so boosting their market share by 2.9 percentage points to 14.5 percent. As with investment products, interest grew in single-stock selection, and turnover in leverage products with **equities as an underlying asset** rose by 1.5 percent to EUR 989.8 million, pushing up their market share by 6.8 percentage points to 31.2 percent. However, turnover in leverage products with **indices as an underlying asset** fell by 32.2 percent to just under EUR 1.6 billion, driving down their market share by 8.6 percentage points to 49.9 percent.

## Stock exchange turnover by stock exchange

As its turnover volume fell by only 11.3 percent, the Stuttgart Stock Exchange increased its market share by 4.2 percentage points to 66.6 percent in May. As a result of a 26.3 percent decline in turnover, Frankfurt's market share fell to 33.4 percent. Some 37.3 percent of the 768,732 client orders were executed in Frankfurt, and 62.7 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 structured products in Germany, who represent more than 90 percent of the German structured products market: BayernLB, BNP Paribas, Citigroup, DekaBank, Deutsche Bank, DZ BANK, Goldman Sachs, Helaba, HSBC Trinkaus, HypoVereinsbank, J.P. Morgan AG, LBBW, Morgan Stanley, Société Générale, UBS and Vontobel. Furthermore, the Association's work is supported by 17 sponsoring members, which include the Stuttgart and Frankfurt Exchanges, Baader Bank, the direct banks comdirect bank, Consorsbank, DKB, flatex, ING-DiBa, maxblue and S Broker, as well as finance portals and other service providers.

Berlin Office, Pariser Platz 3, 10117 Berlin, Germany  
Frankfurt a.M. Office, Feldbergstr. 38, 60323 Frankfurt a.M., Germany

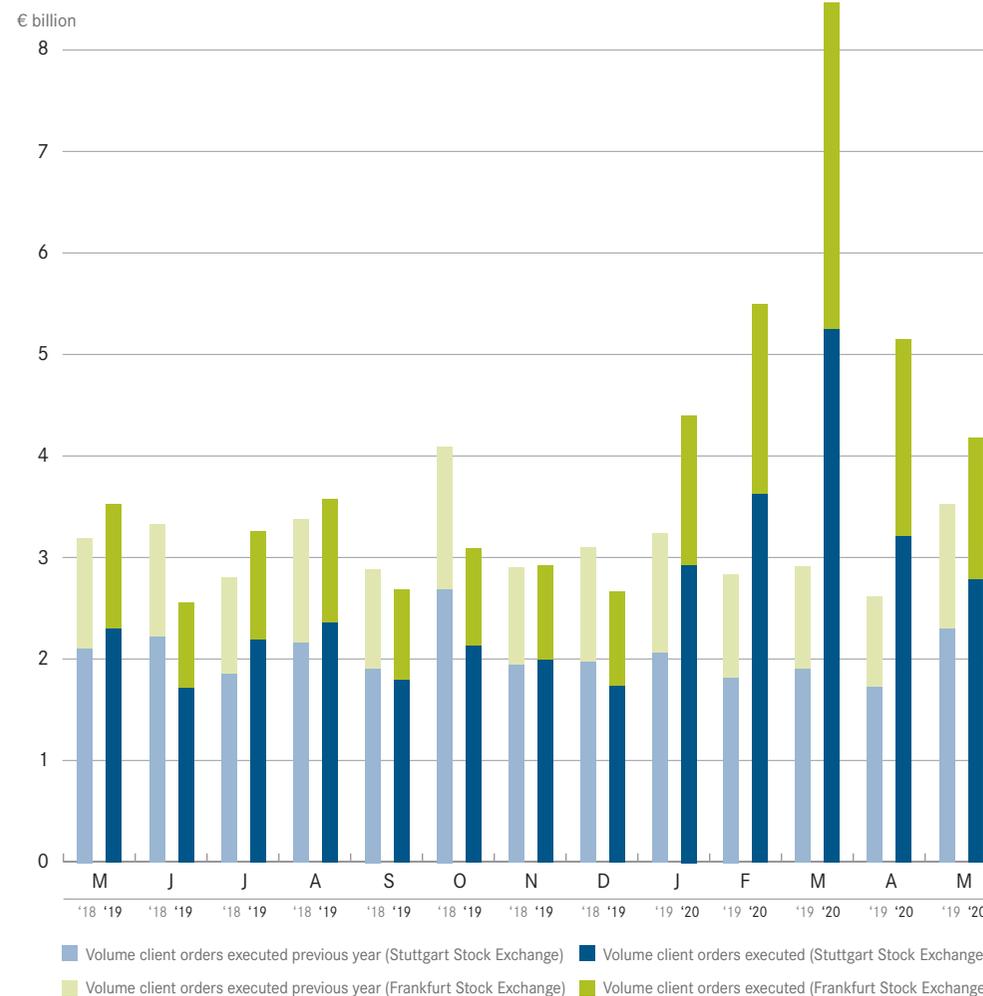
#### Your contact:

Lars Brandau, Managing Director | phone: +49 (0)69 244 33 03 60  
brandau@derivateverband.de

[www.derivateverband.de](http://www.derivateverband.de)

## Year overview of stock exchange turnover May 2020

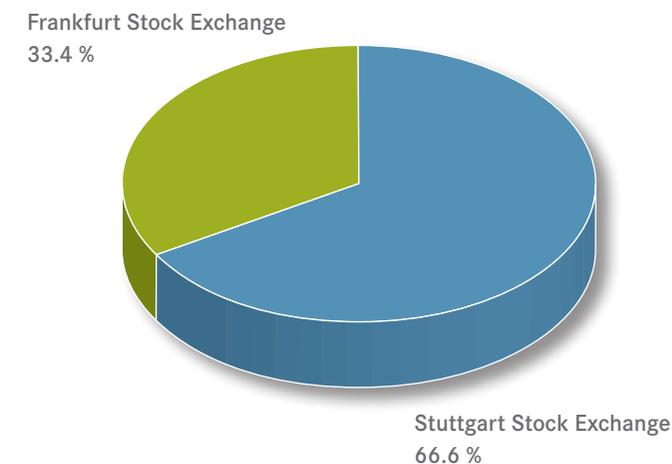
Month	Total		Stuttgart Stock Exchange		Frankfurt Stock Exchange	
	€ ,000	Number of orders	€ ,000	Number of orders	€ ,000	Number of orders
May 2019	3,566,034	542,082	2,321,421	318,674	1,244,613	223,408
June 2019	2,586,710	389,507	1,731,429	232,172	855,281	157,335
July 2019	3,294,982	467,216	2,209,454	281,254	1,085,528	185,962
August 2019	3,613,860	536,836	2,379,928	321,639	1,233,932	215,197
September 2019	2,717,978	435,174	1,811,068	262,935	906,909	172,239
October 2019	3,120,751	449,610	2,148,200	270,420	972,551	179,190
November 2019	2,922,247	414,695	1,993,863	254,580	928,384	160,115
December 2019	2,693,714	381,611	1,753,094	229,209	940,621	152,402
January 2020	4,437,980	681,076	2,955,496	412,114	1,482,485	268,962
February 2020	5,546,838	823,841	3,660,026	498,531	1,886,813	325,310
March 2020	8,491,148	1,223,674	5,269,646	707,421	3,221,502	516,253
April 2020	5,178,794	848,852	3,227,635	492,100	1,951,159	356,752
May 2020	4,303,953	768,732	2,866,481	481,883	1,437,472	286,849



## Turnover volume by stock exchange May 2020

	Stuttgart Stock Exchange		Frankfurt Stock Exchange		Total	
	Volume (€ ,000)	Share	Volume (€ ,000)	Share	Volume (€ ,000)	Share
Investment products with capital protection	4,851	0.2 %	4,930	0.3 %	9,782	0.2 %
Investment products without capital protection	787,636	27.5 %	331,358	23.1 %	1,118,994	26.0 %
<b>Investment products total</b>	<b>792,487</b>	<b>27.6 %</b>	<b>336,288</b>	<b>23.4 %</b>	<b>1,128,776</b>	<b>26.2 %</b>
Leverage products without Knock-Out	1,284,621	44.8 %	753,793	52.4 %	2,038,414	47.4 %
Leverage products with Knock-Out	789,372	27.5 %	347,391	24.2 %	1,136,763	26.4 %
<b>Leverage products total</b>	<b>2,073,993</b>	<b>72.4 %</b>	<b>1,101,184</b>	<b>76.6 %</b>	<b>3,175,177</b>	<b>73.8 %</b>
<b>Total</b>	<b>2,866,481</b>	<b>100.0 %</b>	<b>1,437,472</b>	<b>100.0 %</b>	<b>4,303,953</b>	<b>100.0 %</b>

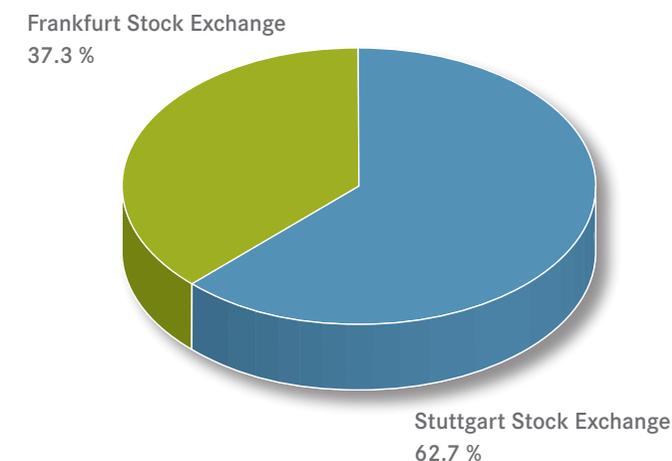
## Turnover volume by stock exchange in percent



## Number of client orders by stock exchange May 2020

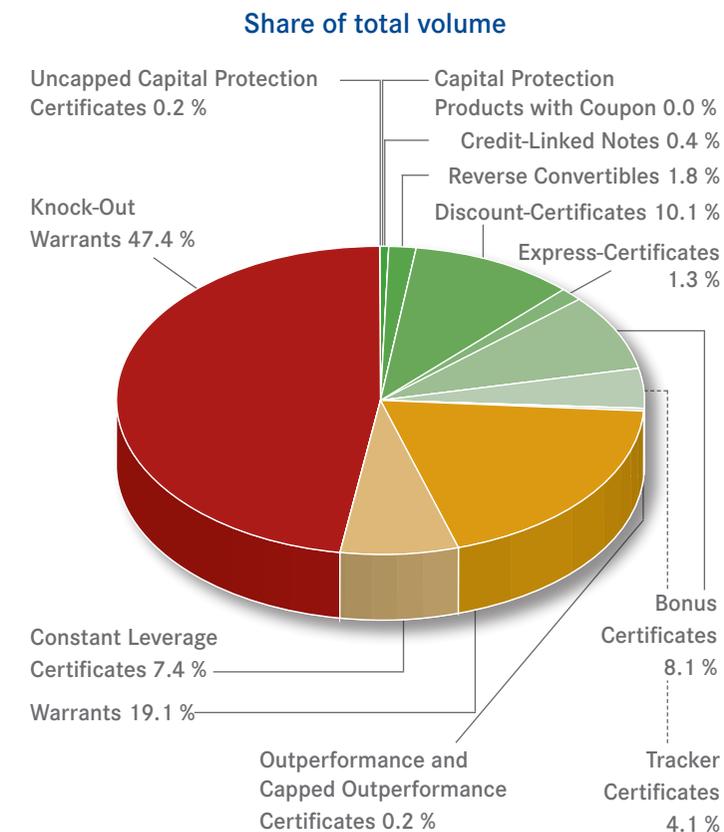
	Stuttgart Stock Exchange		Frankfurt Stock Exchange		Total	
	Number	Share	Number	Share	Number	Share
Investment products with capital protection	298	0.1 %	206	0.1 %	504	0.1 %
Investment products without capital protection	32,007	6.6 %	17,165	6.0 %	49,172	6.4 %
<b>Investment products total</b>	<b>32,305</b>	<b>6.7 %</b>	<b>17,371</b>	<b>6.1 %</b>	<b>49,676</b>	<b>6.5 %</b>
Leverage products without Knock-Out	236,136	49.0 %	172,121	60.0 %	408,257	53.1 %
Leverage products with Knock-Out	213,442	44.3 %	97,357	33.9 %	310,799	40.4 %
<b>Leverage products total</b>	<b>449,578</b>	<b>93.3 %</b>	<b>269,478</b>	<b>93.9 %</b>	<b>719,056</b>	<b>93.5 %</b>
<b>Total</b>	<b>481,883</b>	<b>100.0 %</b>	<b>286,849</b>	<b>100.0 %</b>	<b>768,732</b>	<b>100.0 %</b>

## Number of client orders by stock exchange in percent



## Turnover by product category May 2020

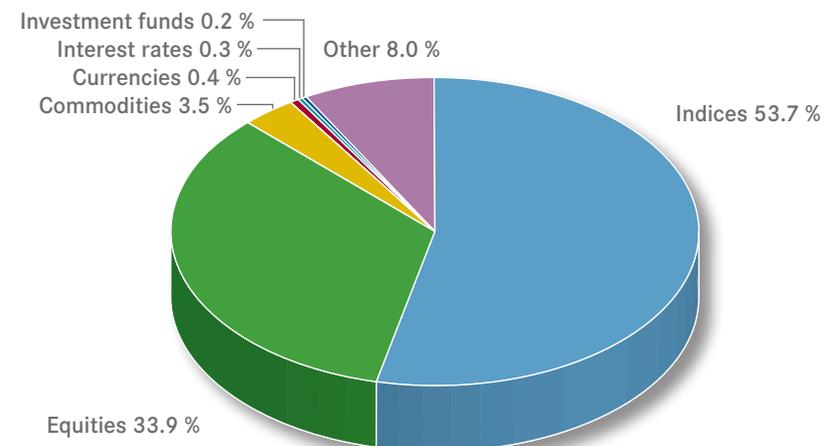
Product categories	Change on previous month			Number of orders	Change on previous month			Change on previous month	
	Volume	Share	Share		Volume per order	Share	Share	Volume	Share
	(€, 000)	in %	in %		#	in %	in %	(€, 000)	in %
■ Uncapped Capital Protection Certificates	8,085	-39.6	0.2	417	-24.7	0.1	19,389	-19.8	
■ Capital Protection Products with Coupon	1,696	4.3	0.0	87	-26.3	0.0	19,498	41.4	
■ Credit-Linked Notes	18,743	-33.4	0.4	840	-7.7	0.1	22,313	-27.8	
■ Reverse Convertibles	75,989	21.6	1.8	3,727	14.9	0.5	20,389	5.8	
■ Discount Certificates	432,907	-10.6	10.1	10,024	8.9	1.3	43,187	-17.9	
■ Express Certificates	56,555	-13.5	1.3	4,604	-8.5	0.6	12,284	-5.5	
■ Bonus Certificates	349,162	5.1	8.1	8,282	-0.8	1.1	42,159	6.0	
■ Tracker Certificates	177,472	-10.8	4.1	21,659	-17.6	2.8	8,194	8.3	
■ Outperformance and Capped Outperformance Certificates	8,165	334.8	0.2	36	-65.0	0.0	226,814	1,144.1	
<b>Investment products</b>	<b>1,128,776</b>	<b>-5.0</b>	<b>26.2</b>	<b>49,676</b>	<b>-7.7</b>	<b>6.5</b>	<b>22,723</b>	<b>2.9</b>	
■ Warrants	820,383	-7.2	19.1	232,638	5.6	30.3	3,526	-12.1	
■ Constant Leverage Certificates	316,380	-28.5	7.4	78,161	-30.5	10.2	4,048	2.9	
■ Knock-Out Warrants	2,038,414	-23.6	47.4	408,257	-11.8	53.1	4,993	-13.4	
<b>Leverage products</b>	<b>3,175,177</b>	<b>-20.5</b>	<b>73.8</b>	<b>719,056</b>	<b>-9.6</b>	<b>93.5</b>	<b>4,416</b>	<b>-12.0</b>	
<b>Total</b>	<b>4,303,953</b>	<b>-16.9</b>	<b>100.0</b>	<b>768,732</b>	<b>-9.5</b>	<b>100.0</b>	<b>5,599</b>	<b>-8.2</b>	



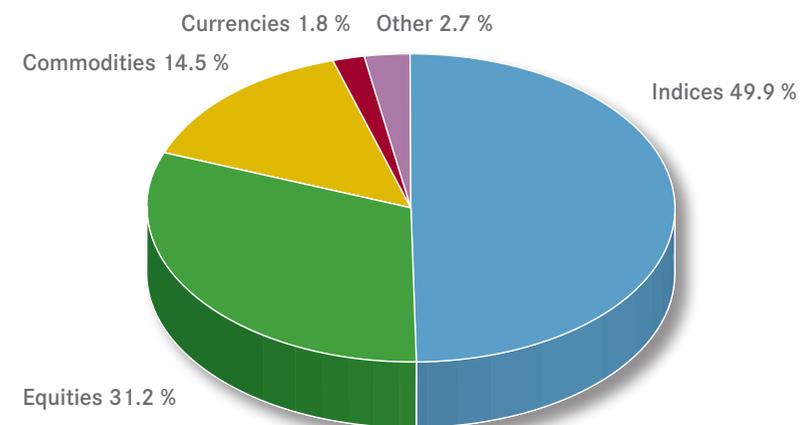
## Stock exchange turnover volume by underlying May 2020

Underlying	Volume	Change on previous month	Share
	€ ,000	in %	in %
<b>Investment products</b>			
Indices	606,004	-7.6 %	53.7 %
Equities	383,137	10.9 %	33.9 %
Commodities	38,986	-45.9 %	3.5 %
Currencies	3,952	-16.3 %	0.4 %
Interest rates	3,635	-40.8 %	0.3 %
Investment funds	2,484	194.6 %	0.2 %
Other	90,579	-12.1 %	8.0 %
<b>Investment products total</b>	<b>1,128,776</b>	<b>-5.0 %</b>	<b>100.0 %</b>
<b>Leverage products</b>			
Indices	1,584,556	-32.2 %	49.9 %
Equities	989,804	1.5 %	31.2 %
Commodities	459,601	-0.6 %	14.5 %
Currencies	56,898	-16.9 %	1.8 %
Interest rates	0	0 %	0.0 %
Investment funds	0	0 %	0.0 %
Other	84,319	-44.2 %	2.7 %
<b>Leverage products total</b>	<b>3,175,177</b>	<b>-20.5 %</b>	<b>100.0 %</b>
<b>Total</b>	<b>4,303,953</b>	<b>-16.9 %</b>	

## Investment products by underlying



## Leverage products by underlying



## Number of new issuances May 2020

Month	Investment products									Leverage products			Total	
	With capital protection		Without capital protection							Without Knock-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	Outperformance and Capped Outperformance Certificates	Warrants	Constant Leverage Certificates	Knock-Out Warrants		
January 2020	1	1	15	9,670	19,791	448	32,574	116	1	110,291	3,246	269,091	445,245	
February 2020	3		27	10,230	10,762	474	31,193	138	1	82,466	5,751	270,467	411,512	
March 2020	5		15	13,897	26,682	495	40,768	76	3	164,716	13,372	458,830	718,859	
April 2020	5		3	10,402	31,643	433	33,133	181	11	117,330	12,032	231,833	437,006	
May 2020	3		5	13,707	17,628	293	42,856	94		92,453	14,939	245,515	427,493	
1/20 - 5/20	17	1	65	57,906	106,506	2,143	180,524	605	16	567,256	49,340	1,475,736	2,440,115	
1/20 - 5/20	18		347,765									616,596	1,475,736	2,440,115
1/20 - 5/20	347,783									2,092,332			2,440,115	

### Legal Notice / Disclaimer

The information contained in this document does not constitute a recommendation to buy or sell a financial product, and cannot substitute for individual advice from a bank or an advisor. This document does not contain all relevant information on structured products (like investment certificates and warrants) or other financial products. For comprehensive information, especially on the risks of investing in structured products, investors should read the prospectus of the relevant financial product. The information and statements in this document were current at the time of writing and are not updated.

## Total number of products May 2020

Month	Investment products									Leverage products			Total	
	With capital protection		Without capital protection							Without Knock-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	Outperformance and Capped Outperformance Certificates	Warrants	Constant Leverage Certificates	Knock-Out Warrants		
May 2019	1,024	33	1,696	120,007	228,148	9,406	229,858	10,813	842	687,705	33,918	571,314	1,894,764	
June 2019	1,012	32	1,711	105,914	202,668	9,462	201,338	10,847	759	624,048	35,930	576,858	1,770,579	
July 2019	1,012	33	1,679	108,631	205,317	9,608	218,337	10,959	762	643,667	39,688	611,951	1,851,644	
August 2019	996	35	1,692	109,343	210,133	9,841	218,892	10,901	693	661,594	44,406	600,086	1,868,612	
September 2019	966	34	1,707	99,047	198,175	9,834	211,584	11,000	635	605,214	52,705	582,822	1,773,723	
October 2019	952	34	1,672	96,297	204,097	9,898	226,935	10,929	611	621,910	57,554	600,543	1,831,432	
November 2019	936	33	1,696	98,441	206,859	9,843	227,420	11,067	980	623,684	60,289	617,096	1,858,344	
December 2019	929	31	1,705	90,192	185,046	9,679	206,534	11,012	1,209	535,650	62,175	553,143	1,657,305	
January 2020	915	31	1,671	94,039	186,794	9,661	221,210	11,078	1,209	569,776	63,992	562,171	1,722,547	
February 2020	899	30	1,697	88,771	171,763	9,560	215,465	11,184	1,095	551,168	67,327	482,609	1,601,568	
Mach 2020	891	30	1,709	76,428	155,538	9,900	114,546	11,203	1,095	533,475	64,225	399,892	1,368,932	
April 2020	876	30	1,677	84,719	175,724	10,237	117,816	11,327	872	581,435	62,628	403,265	1,450,606	
May 2020	864	29	1,681	95,589	172,532	10,427	149,152	11,384	830	608,445	68,340	427,855	1,547,128	
<b>May 2020</b>	<b>893</b>		<b>441,595</b>									<b>676,785</b>	<b>427,855</b>	<b>1,547,128</b>
			<b>442,488</b>									<b>1,104,640</b>		<b>1,547,128</b>

### Statistical methodology

The statistics cover the stock exchange turnover in structured products at the stock exchanges in Stuttgart (Börse Stuttgart) and Frankfurt (Börse Frankfurt Zertifikate). The turnover data are taken from Xitara. The number of client orders executed has been integrated into the statistics. The statistics cover all orders entered into the system by clients (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 trade made in error) 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 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 structured products have been classified according to the product classification system developed by Deutscher Derivate Verband (DDV).

© Deutscher Derivate Verband (DDV) 2020. Although the data in this document originate from sources deemed to be reliable, no responsibility can be taken for their correctness, completeness, or relevance. All the figures for volumes and market shares are based on freely available data. They are provided for information purposes only, and should be taken only as a guide. This document and the information contained in it may only be distributed or published in countries where such distribution or publication are permitted by the relevant statutory provisions. The direct or indirect distribution of this document in the United States, the United Kingdom, Canada or Japan is prohibited, as is its forwarding to U.S. residents.