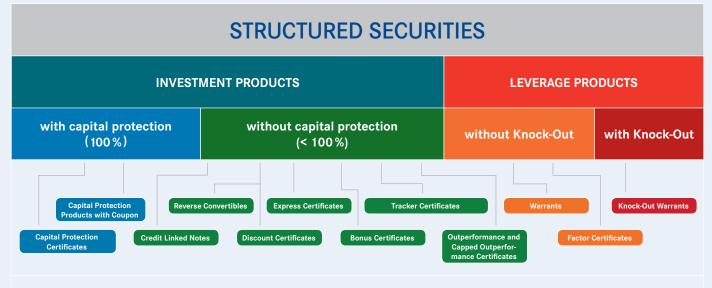
Market Volume

in Derivatives



Structured products market grows

Sustained high demand for Express Certificates and Reverse Convertibles



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DDV Classification System

March I 2017

- The total volume of the German structured products market rose to EUR 69.5 billion in March.
- Particularly strong growth was recorded in Express Certificates, where the volume grew by 7.2 percent to EUR 11.5 billion.
- The market volume of leverage products fell by 2.3 percent to just below EUR 1.9 billion, contrary to the overall positive trend.
- Investment products with indices as an underlying recorded growth of 2.2 percent. The volume invested in these products was EUR 19.5 billion.

Structured products market grows

Sustained high demand for Express Certificates and Reverse Convertibles

The outstanding volume of the German structured products market has risen again as at the end of the first quarter. When the figures are extrapolated to all issuers, the total volume of the German structured products market in March 2017 works out at EUR 69.5 billion. This represents growth of 1.3 percent, or EUR 0.9 billion, compared with the previous month. These trends are shown by the latest set of the figures collected each month from 15 banks by the European Derivatives Group (EDG AG) on behalf of the German Derivatives Association (Deutscher Derivate Verband, DDV).

The ratio of investment products to leverage products shifted in favour of investment products.

Investment products by product category

As in the past number of months, Express Certificates and Reverse Convertibles continued to be in particularly high demand. The volume invested in these two types of product altogether in March was EUR 21.3 billion. The volume of Credit Linked Notes and Discount Certificates fell, contrary to the overall upward trend. However, Bonus Certificates recorded further growth, continuing their positive trend started at the beginning of the year. The market volume invested in Bonus Certificates was EUR 2.5 billion.

Contrary to the overall upward trend, the volume of Capital Protection Products fell during the month of March. Altogether, 36.4 percent of the market volume was invested in Capital Protection Products with Coupon and Uncapped Capital Protection Certificates in March.

Leverage products by product category

The market volume of **leverage products** fell to EUR 1.9 billion in March, in contrast to the general trend. The volumes invested in all three product categories were down.

Investment products by underlying

Investment products with interest rates as an underlying remained the most popular category. However, their volume fell again to EUR 21.8 billion. Investment products with indices as an underlying and those with equities as an underlying saw further growth. A total of EUR 28.6 billion was invested in these two classes of underlying. Investment products with commodities as an underlying saw slight growth for the second consecutive month, with a volume of EUR 794.0 million.

Leverage products by underlying

The picture among the dominant classes of underlying for leverage products in March was mixed. The market volume of leverage products with equities as an underlying fell to EUR 1.0 billion, whereas leverage products with indices as an underlying recorded an increase to EUR 586.4 million. The volume invested in leverage products with commodities as an underlying fell significantly to EUR 194.4 million.



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 fourteen 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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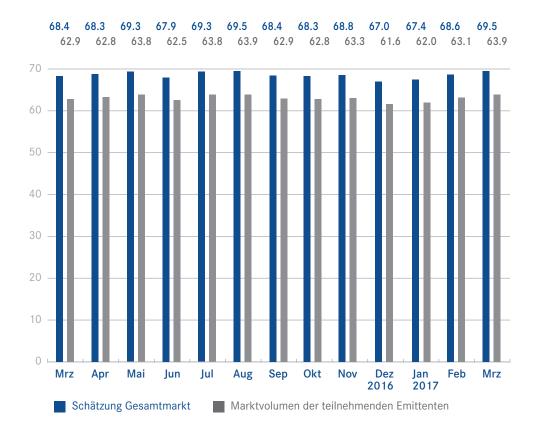
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Market volume since March 2016



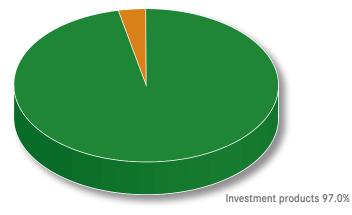
Product classes

Market volume as at 31 March 2017

roduct classes	Market volume	Share	
	T€	%	
Investment products with capital protection	22,539,469	36.4%	
Investment products without capital protection	39,416,852	63.6%	
Total Investment products	61,956,320	100.0%	
Leverage products without Knock-Out	1,065,478	56.1%	
Leverage products without Knock-Out	833,135	43.9%	
Total Leverage products	1,898,612	100.0%	
Total Investment products	61,956,320	97.0%	
Total Leverage products	1,898,612	3.0%	
Total Derivatives	63,147,293	100.0%	

Product classes Market volume as at 31 March 2017

Leverage products 3.0%



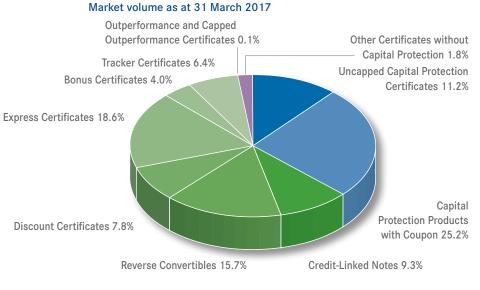
Market volume by product category as at 31 March 2017

Product categories	Market volume		Market volume price-adjusted		Number of Products	
	T€	in %	T€	in %	#	in %
Uncapped Capital Protection Certificates	6,927,458	11.2%	6,917,055	11.2%	1,947	0.4%
Capital Protection Products with Coupon	15,612,011	25.2%	15,636,409	25.4%	2,636	0.5%
Credit-Linked Notes	5,737,363	9.3%	5,742,195	9.3%	2,318	0.4%
Reverse Convertibles	9,707,458	15.7%	9,616,596	15.6%	123,652	23.3%
Discount Certificates	4,835,144	7.8%	4,777,318	7.8%	161,588	30.4%
Express Certificates	11,534,354	18.6%	11,321,518	18.4%	10,274	1.9%
Bonus Certificates	2,461,763	4.0%	2,432,359	4.0%	224,778	42.3%
Tracker Certificates	3,953,493	6.4%	3,905,322	6.3%	1,667	0.3%
Outperformance and Capped	83,891	0.1%	80,770	0.1%	1,683	0.3%
Outperformance Certificates						
Other Certificates without Capital Protection	1,103,387	1.8%	1,091,913	1.8%	837	0.2%
Investment products total	61,956,320	97.0%	61,521,455	96.9 %	531,380	38.9%
Warrants	703,081	37.0%	750,167	38.4%	458,724	55.0%
Factor Certificates	362,397	19.1%	381,441	19.5%	4,429	0.5%
Knock-Out Warrants	833,135	43.9%	824,295	42.1%	370,747	44.5%
Leverage products total	1,898,612	3.0%	1,955,903	3.1%	833,900	61.1%
Total	63,854,933	100.0%	63,477,359	100.0%	1,365,280	100.0%

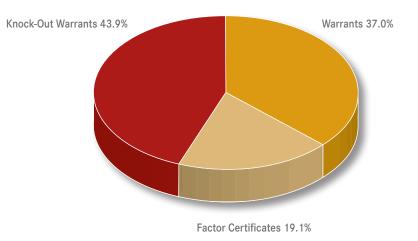
Change in market volume by product category in comparison with previous month

Product categories	Change		Change price-adjusted		Price effect	
—	T€	in %	T€	in %	in %	
Uncapped Capital Protection Certificates	-143,154	-2.0%	-153,556	-2.2%	0.1%	
Capital Protection Products with Coupon	-53,665	-0.3%	-29,267	-0.2%	-0.2%	
Credit-Linked Notes	-52,000	-0.9%	-47,168	-0.8%	-0.1%	
Reverse Convertibles	258,515	2.7%	167,653	1.8%	1.0%	
Discount Certificates	-99,323	-2.0%	-157,149	-3.2%	1.2%	
Express Certificates	772,147	7.2%	559,311	5.2%	2.0%	
Bonus Certificates	40,334	1.7%	10,931	0.5%	1.2%	
Tracker Certificates	-6,843	-0.2%	-55,014	-1.4%	1.2%	
Outperformance and Capped	4,842	6.1%	1,721	2.2%	3.9%	
Outperformance Certificates						
Other Certificates without Capital Protection	32,258	3.0%	20,784	1.9%	1.1%	
Investment products total	753,110	1.2%	318,245	0.5%	0.7%	
Warrants	-17,324	-2.4%	29,762	4.1%	-6.5%	
Factor Certificates	-7,797	-2.1%	11,247	3.0%	-5.1%	
Knock-Out Warrants	-20,349	-2.4%	-29,189	-3.4%	1.0%	
Leverage products total	-45,471	-2.3%	11,820	0.6%	-2.9%	
Total	707,640	1.1%	330,066	0.5%	0.6%	

Investment products by product category



Leverage products by product category Market volume as at 31 March 2017

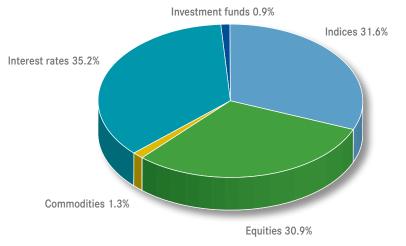


Market volume by underlying asset as at 31 March 2017

Underlying	Mark	et volume	Market volume price-adjusted [*]		Number of	Products
-	T€	%	T€	%	#	%
Investment products						
Indices	19,596,965	31.6%	19,362,017	31.5%	133,946	25.2%
Equities	19,144,739	30.9%	18,899,447	30.7%	389,791	73.4%
Commodities	794,025	1.3%	818,959	1.3%	2,387	0.4%
Currencies	32,975	0.1%	34,013	0.1%	47	0.0%
Interest rates	21,831,855	35.2%	21,862,086	35.5%	5,046	0.9%
Investment funds	555,762	0.9%	544,934	0.9%	163	0.0%
	61,956,320	97.0%	61,521,455	96.9%	531,380	38.9%
Leverage products						
Indices	586,385	30.9%	639,816	32.7%	192,314	23.1%
Equities	1,017,529	53.6%	986,999	50.5%	549,139	65.9%
Commodities	194,444	10.2%	227,649	11.6%	42,169	5.1%
Currencies	57,351	3.0%	60,968	3.1%	46,437	5.6%
Interest rates	42,881	2.3%	40,449	2.1%	3,833	0.5%
Investment funds	22	0.0%	22	0.0%	8	0.0%
	1,898,612	3.0%	1,955,903	3.1%	833,900	61.1%
Total	63,854,933	100.0%	63,477,359	100.0%	1,365,280	100.0%

*Market volume adjusted for price changes = quantity outstanding as at 31 March 2017 x price as at 28 February 2017

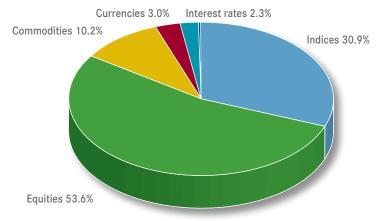
Investment products by underlying asset Market volume as at 31 March 2017



Change in the market volume by underlying asset in comparison with previous month

Underlying		Change	price	Change e-adjusted	Price effect
_	T€	%	T€	%	%
Investment products					
Indices	423,033	2.2%	188,085	1.0%	1.2%
Equities	420,656	2.2%	175,363	0.9%	1.3%
Commodities	5,136	0.7%	30,071	3.8%	-3.2%
Currencies	-506	-1.5%	532	1.6%	-3.1%
Interest rates	-123,198	-0.6%	-92,967	-0.4%	-0.1%
Investment funds	27,989	5.3%	17,162	3.3%	2.1%
	753,110	1.2%	318,245	0.5%	0.7%
Leverage products					
Indices	20,962	3.7%	74,394	13.2%	-9.4%
Equities	-46,284	-4.4%	-76,814	-7.2%	2.9%
Commodities	-15,631	-7.4%	17,573	8.4%	-15.8%
Currencies	-5,403	-8.6%	-1,786	-2.8%	-5.8%
Interest rates	886	2.1%	-1,546	-3.7%	5.8%
Investment funds	0	0.2%	0	0.0%	0.2%
	-45,471	-2.3%	11,820	0.6%	-2.9%
Total	707,640	1.1%	330,066	0.5%	0.6%

Leverage products by underlying asset Market volume as at 31 March 2017



Collection, validation and analysis methodology

1. Calculation of the market volume

In calculating the outstanding volume, the first step is to establish the market volume for an individual issue by multiplying the quantity outstanding by the market price on the last trading day of the month under review. The total market volume is calculated by adding the individual values. The price-adjusted figure is obtained by valuing the outstanding quantities at the market prices on the last trading day of the previous month. Newly launched products are valued at the price on the last trading day in the month under review.

2. Calculation of the turnover

Turnover is calculated at the relevant exercise price by aggregating the individual trades per issue and period and then adding them up. Purchases and sales are included at their relevant absolute amounts. The only turnover recorded is that relating to end customers. Also, issues are not classified as turnover until their value dates. By contrast, repayments are not included in the turnover figures, since they do not constitute actual trades. This means that there is a natural outflow of funds at the maturity date of the products, although this is offset by new issues if investors continue to invest in these investment classes. This turnover calculation can lead to inflows of funds in one investment class in one month that exceed the turnover recorded for that month in terms of their amounts. Also, large price fluctuations can lead to a change in the market volume that exceeds the turnover amount in terms of its amount.

3. Definition of the retail products covered

The collection and analysis process covers market volume and turnover in retail products that are publicly offered and listed on at least one German stock exchange in the relevant survey period. Private placements, institutional transactions and white-label trading are not covered. The possibility that parts of an issue may be bought by institutional investors, for instance through the stock exchange, cannot be ruled out.

4. DDV classification system (Derivatives League)

The product classification system used is based on DDV's Derivatives League concept. Investment products include Uncapped Capital Protection Certificates, Capital Protection Products with Coupon, Reverse Convertibles, Discount Certificates, Express Certificates, Bonus Certificates, Tracker Certificates, Outperformance and Capped Outperformance Certificates, as well as other investment products without capital protection. Leverage products comprise Warrants and Knock-Out Warrants. (For further details please refer to http://www.derivateverband.de/DE/MediaLibrary/Document/ddv_klassifizierung_final.pdf).

5. Differentiation by investment class

Retail products are differentiated by the investment class of the underlying. All products with an equity component are included among the equity-based investment or leverage products. Products with a purely bond-based underlying (e.g. index certificates based on the German REX bond index, capital protected certificates based on the EURIBOR Euro Interbank Offered Rate) are included in the investment class of bonds. The currencies and commodities investment class comprises products based on goods, commodities and currencies. Hedge fund products are also shown separately.

6. Collection of the data

Each month, the issuers provide the relevant data in a specified scope and format from their internal systems (trading, risk management and pricing systems etc.). The mandatory information comprises ISIN, product type, asset class of the underlying, product category, turnover, market volume, quantity outstanding, maturity date of the products, product name, issue date, issue volume (quantity issued). The optional information includes details of the underlying, the knock-out thresholds, market prices and listings on German stock exchanges.

7. Monitoring of compliance with the self-commitment

Compliance with the code of conduct is monitored by means of onsite and off-site inspection of data and systems. Random sampling and targeted requests for selected information are backed up by cross-checking of data using stock exchange data, information services and the websites of issuers. In particular, the data are reconciled on a regular basis in cooperation with Boerse Stuttgart, with the main focus on stock exchange listing, the categorisation of products and the substantiation of figures for turnover and outstanding volumes.

DISCLAIMER

EDG AG regularly checks the methods and analyses on which this interpretation is based. However, it does not guarantee the correctness of the analyses. By signing up to the voluntary agreement, the issuers have agreed to ensure the correctness of the transaction data provided by them, and on which the analysis is based. However, EDG AG cannot guarantee the correctness or the completeness of the data from the issuers.

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