

Turkish Capital Markets

February 2021



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STRUCTURE OF THE TURKISH CAPITAL MARKETS



CAPITAL MARKETS BACKGROUND

- 1982: Capital Markets Board established.
- 1985: Istanbul Stock Exchange (ISE) established.
- 1992: Takasbank (Settlement & Custody Bank) established.
- 1995: Istanbul Gold Exchange (IGE) established.
- 1997: Banks are forbidden to trade equities.
- 2001: Association of Capital Markets Intermediary Institutions of Turkey established. Central Registry Agency established. Investors' Protection Fund established.
- 2002: Private pension system introduced.
- 2005: IFRS adopted for financial intermediaries and listed companies. Turkish Derivatives Exchange (TurkDex) established. Dematerialization of equities completed.
- 2006: Dematerialization of corporate bonds & mutual funds completed.
- 2009: Automated Disclosure Platform introduced. Istanbul International Financial Centre strategy announced.
- 2011: Forex regulation passed.
- 2012: New Capital Markets Law passed. ISE demutualised and merged with Istanbul Gold Exchange under Borsa Istanbul.
- 2013: Borsa Istanbul announced strategic partnership with Nasdaq. Borsa Istanbul and TurkDex merged.
- 2014: The structure of the Association has changed and the membership base was expanded to cover asset management companies and investments trusts, in addition to brokerage firms and banks. The name of the Association was revised to Turkish Capital Markets Association.
- 2015: Takasbank introduced the Electronic Fund Distribution Platform - TEFAS. Borsa Istanbul introduced new trading platform - BISTECH.
- 2016: TCMA arbitration committees established. Turkey Wealth Fund established.
- 2017: Auto-enrollment in the private pension system introduced.
- 2018: Presidential Finance Office established.

REGULATORY STRUCTURE OF THE FINANCIAL MARKETS

Banking

Banking Regulation and Supervision Agency (BRSA)

- Banks' Association of Turkey
- Participation Banks' Association of Turkey
- Association of Financial Institutions

- Banks
- Participation Banks
- Savings Deposit Insurance Fund
- Leasing Companies
- Factoring Companies
- Consumer Finance Companies
- NPL Management Companies
- Payment Companies
- Electronic Money Companies
- Rating, Audit Firms
- Financial Holding Companies

Capital Markets

Capital Markets Board (CMB)

- Turkish Capital Markets Association
- Borsa Istanbul
- Turkish Appraisers Association

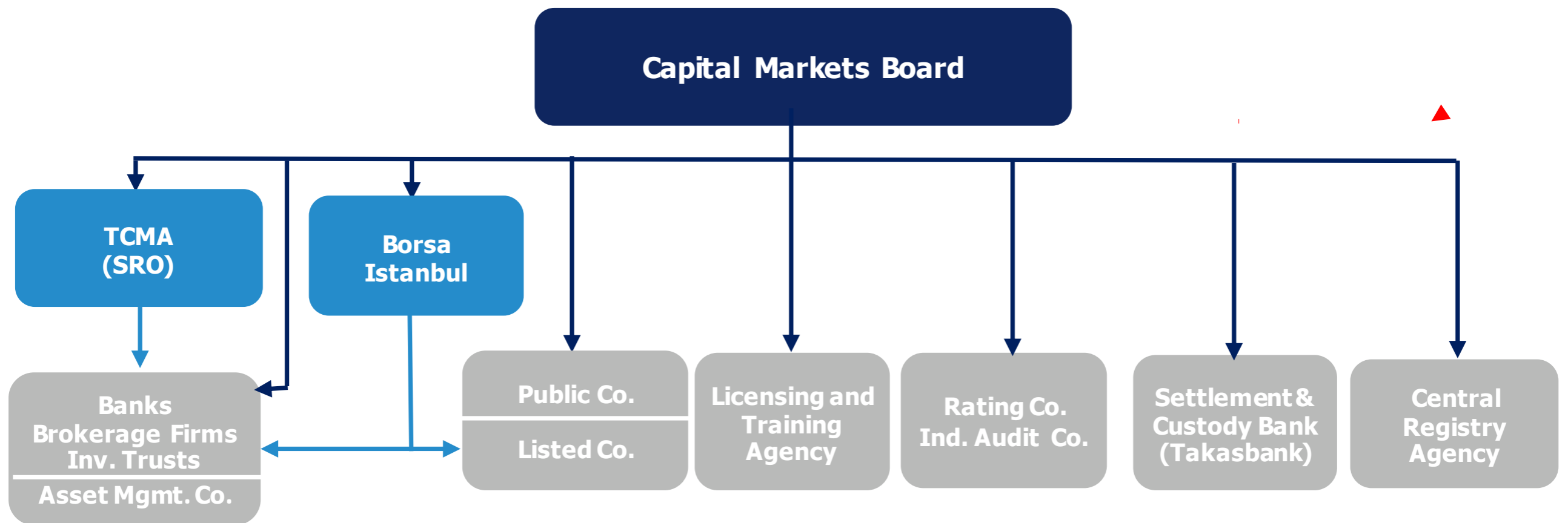
- Banks
- Brokerage Firms
- Asset Management Firms
- Investment Trusts
- Central Registry Agency
- Settlement and Custody Bank
- Capital Markets Licensing and Training Agency
- Investor Compensation Center
- Public and Listed Companies
- Rating, Appraisal, Audit Firms

Insurance

Insurance and Private Pension Regulation and Supervision Agency

- Insurance Association of Turkey
- Insurance Companies
- Pension Companies

CAPITAL MARKET INSTITUTIONS IN TURKEY



- Capital Markets Board (CMB) is the main regulatory and supervisory authority for the securities markets and institutions in Turkey.
- The Board is responsible for the protection of rights and interests of investors.
- The CMB's jurisdiction areas:
 - Primary markets,
 - Secondary markets,
 - Investment services.

- Borsa Istanbul, formerly named as Istanbul Stock Exchange, was established in 1985.
- The exchange was demutualised in 2013.
- The exchanges operating in Turkey, namely Istanbul Stock Exchange, Istanbul Gold Exchange and the Turkish Derivatives Exchange merged under the roof of Borsa Istanbul.
- The main markets and the traded securities on Borsa Istanbul are:
 - Equity Market: Shares, rights coupons, ETFs, warrants, certificates, real estate funds.
 - Debt Securities Market: Government bonds, corporate bonds, asset backed securities, Islamic bonds, repo-reverse repo transactions, Turkish eurobonds, money market and swap transactions.
 - Derivatives Market: Single stock, equity index, gold, currency, commodity, overnight repo, metal, ETF and power futures. Single stock, currency, equity index and mini index options.
 - Precious Metals and Diamond Market: Gold, silver, platinum and palladium.

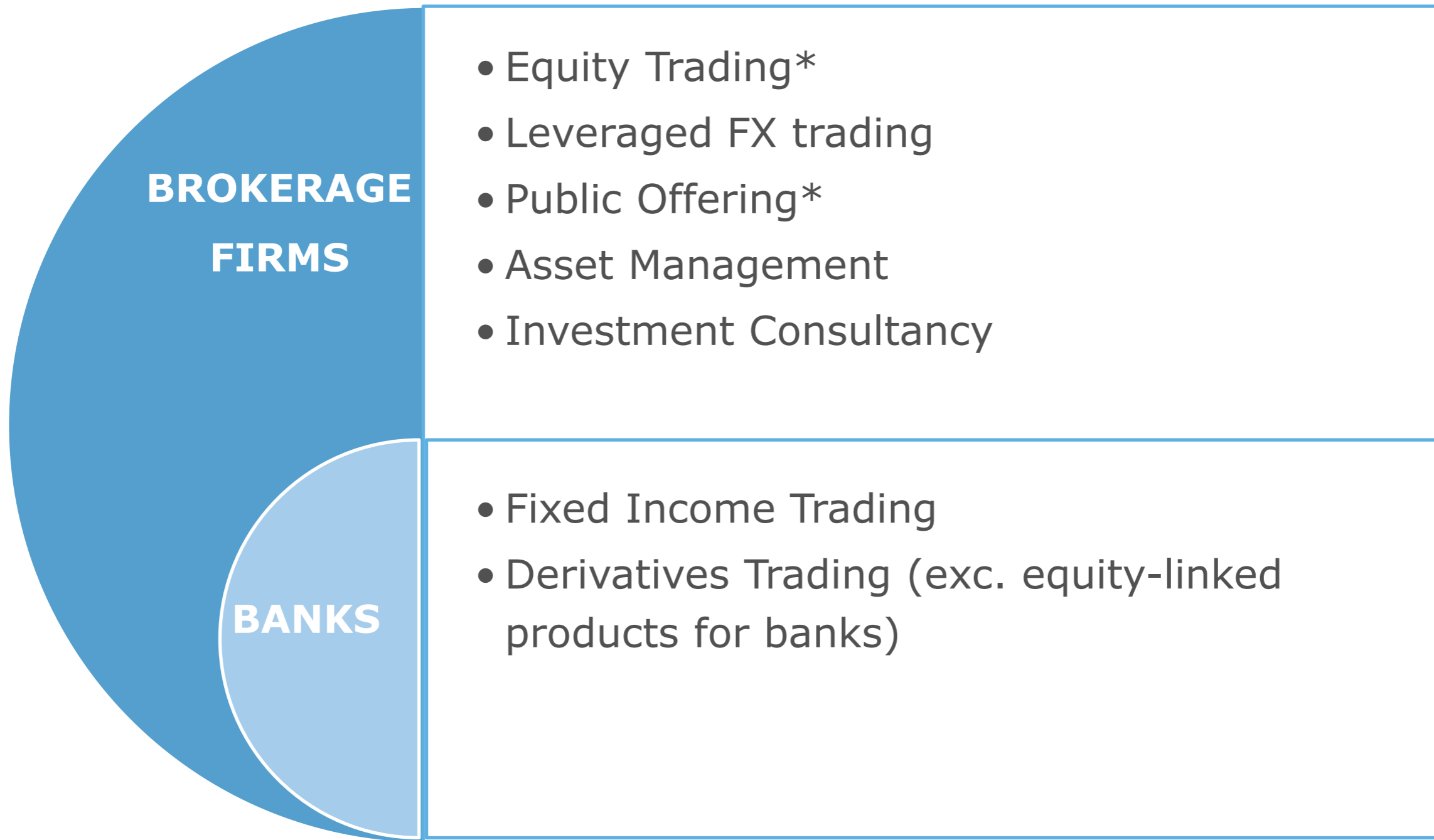
TAKASBANK (ISTANBUL SETTLEMENT AND CUSTODY BANK)

- Takasbank was established in 1988 as a department of Borsa Istanbul. It was incorporated as a separate company in 1992 and became a non-deposit taking bank in 1995.
- Takasbank is:
 - The clearing and settlement centre for Borsa Istanbul,
 - The central counterparty for Borsa Istanbul Futures & Options, Debt Securities, Equities, Money and Swap markets
 - The national numbering agency of Turkey.
- Takasbank operates the Securities Lending & Borrowing Market and Takasbank Money Market, and acts as CCP in those markets
- It offers clearing and central counter party services for Turkish Lira IRS (Interest Rate Swap) and OIS (Overnight Index Swap) contracts in OTC markets
- It serves as a custodian to private pension system.
- It operates the Electronic Fund Distribution Platform (TEFAS).
- It records leveraged transactions and handles collateral management as an authorized trade repository institution.

- Merkezi Kayit Istanbul – CSD of Turkey was established in 2001 as a private company.
- It is the only central depository for all dematerialized capital market instruments.
- The dematerialization process is completed for equities, mutual funds, corporate bonds, warrants, certificates, asset backed securities, government debt holdings (excluding investment institutions), real estate certificates and electronic warehouse receipts.
- Operates the Public Disclosure Platform.
- Runs various electronic services for investors and public companies such as; Investor Notification and Alert System (eCAS), Companies Information Portal (e-Company), Electronic General Assembly (e-GEM), corporate management and investor relations portal (e-Governance) or Electronic Warehouse Receipt Center (e-Warehouse).

- Investors' Protection Fund, which covered equity settlement obligations, was established in 2001.
- Investor Compensation Centre replaced the Investors' Protection Fund in 2013 with the renewed Capital Market Law.
- It covers settlement obligations of all capital market instruments, up to TL 237,643 (~\$ 32,000) in 2021, in case of liquidation or bankruptcy of investment institutions.
- All investment institutions must be a member of the Investor Compensation Centre.

ACTIVITIES OF INTERMEDIARIES



*Authorized activities for Investment Banks

TYPES OF BROKERAGE FIRMS



Market Makers

- execution of orders from their own account by positioning their customers as counterparty
- minimum capital: TL 29.2 mn.

Execution Brokers

- execution of orders of in the name of customers and/or their own account
- offering custody services
- minimum capital: TL 11.7 mn.

Introducing Brokers

- reception of orders and transfer them to other brokers
- minimum capital: TL 2.3 mn.



Portfolio Management Companies

- May establish stock, bond, balanced mutual funds
- Mn. capital required varies btw. TL 3.1 million and TL 15.8 million depending on AUM.

Real Estate/ Venture Capital Portfolio Management Companies

- May establish only real estate or venture capital investment funds
- Mn. capital required varies btw. TL 1.5 million and TL 7.9 million depending on AUM.

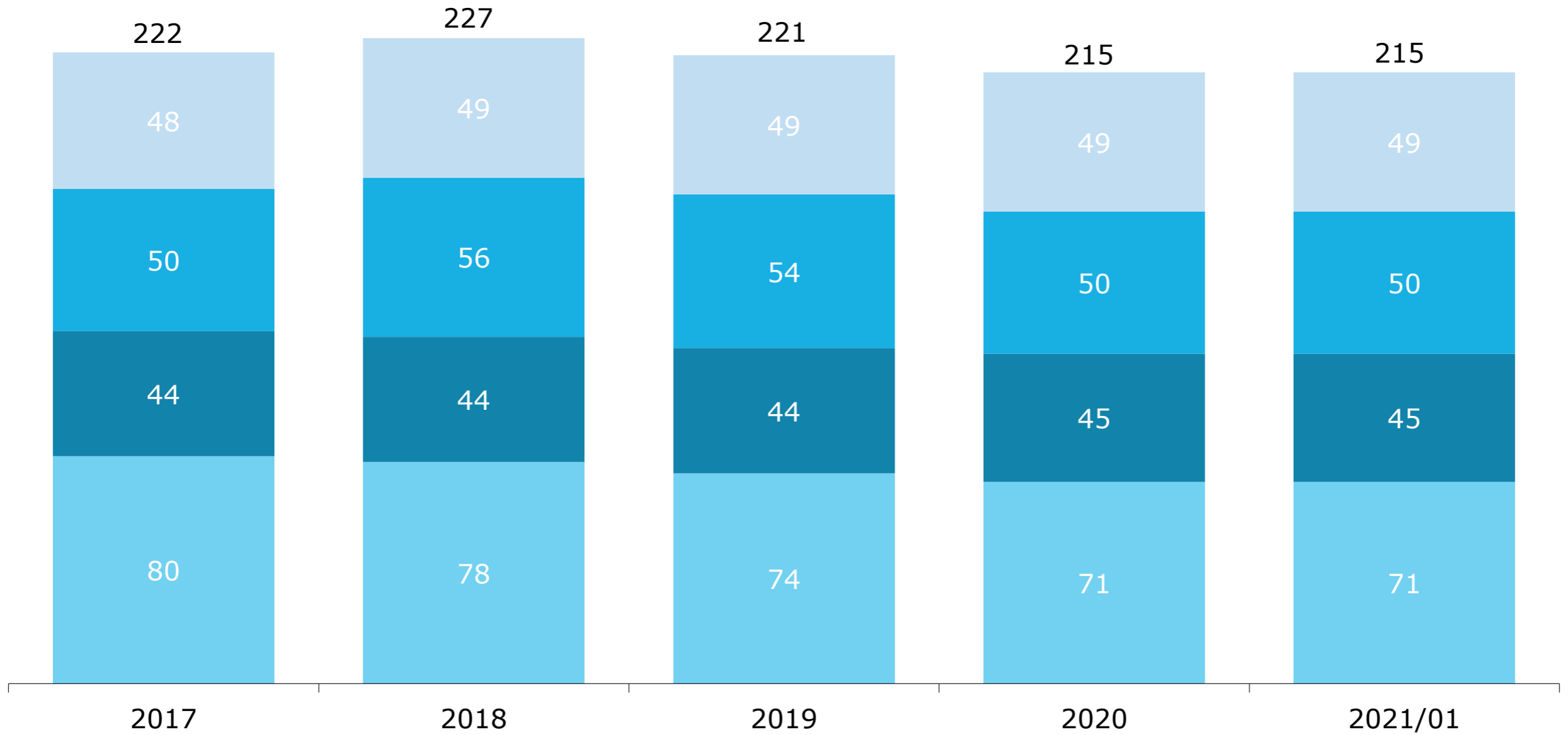
TURKISH CAPITAL MARKETS ASSOCIATION



- TCMA is the self-regulatory professional organization in the Turkish capital markets.
- Brokerage firms, banks, asset management companies, and investment trusts are members of the Association.
- Founded in April 2001 according to the Capital Markets Law.
- Membership base expanded in 2014 with new law.
- Membership is mandatory.
- Under CMB supervision

MEMBERS

■ Investment Trusts ■ Asset Management Firms ■ Banks ■ Brokerage Firms

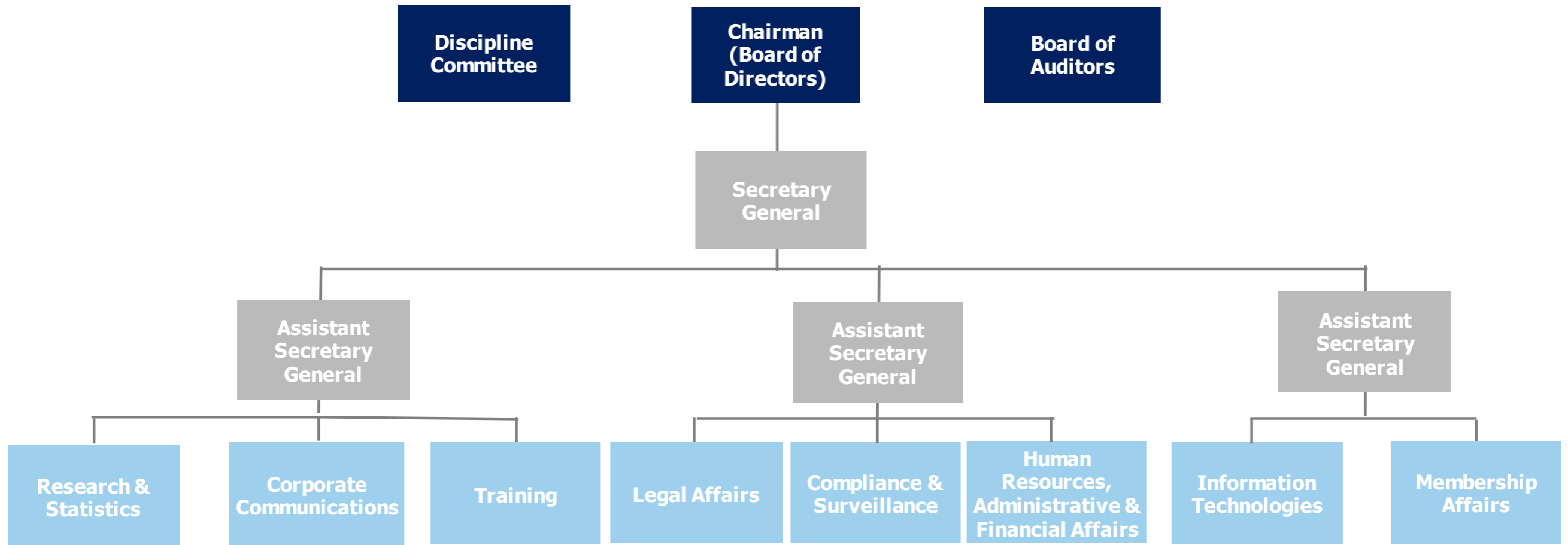


- Contribute to the development of the capital market
- Meet the collective needs of members and facilitate solidarity among its members,
- Prevent unfair competition between its members,
- Enhance know-how in the sector.

FUNCTIONS

- Establish code of ethics for the profession,
- Establish professional rules and regulations,
- Conduct research,
- Offer educational programs,
- Assist in the resolution of disputes,
- Cooperate with related foreign institutions,
- Engage in financial literacy activities.

ORGANISATION



INTERNATIONAL MEMBERSHIPS

- Asia Securities Forum (ASF) member since 2009.
- OECD International Network on Financial Education (INFE) affiliate member since 2015.
- International Council of Securities Associations (ICSA) member since 2006.
- International Forum for Investor Education (IFIE) member since 2009. International Forum for Investor Education/Asia Chapter founding member since 2010.
- International Organization of Securities Commissions (IOSCO) affiliate member since 2003.

PARTICIPATIONS

CENTRAL REGISTRY AGENCY

- 5% stake
- one seat at the board of directors, out of 8 members

BORSA ISTANBUL

- 1.3% stake

CAPITAL MARKETS LICENSING & TRAINING AGENCY

- 49% stake
- 2 seats at the board of directors, out of 7 members

JCR EURASIA CREDIT RATING AGENCY

- 6% stake

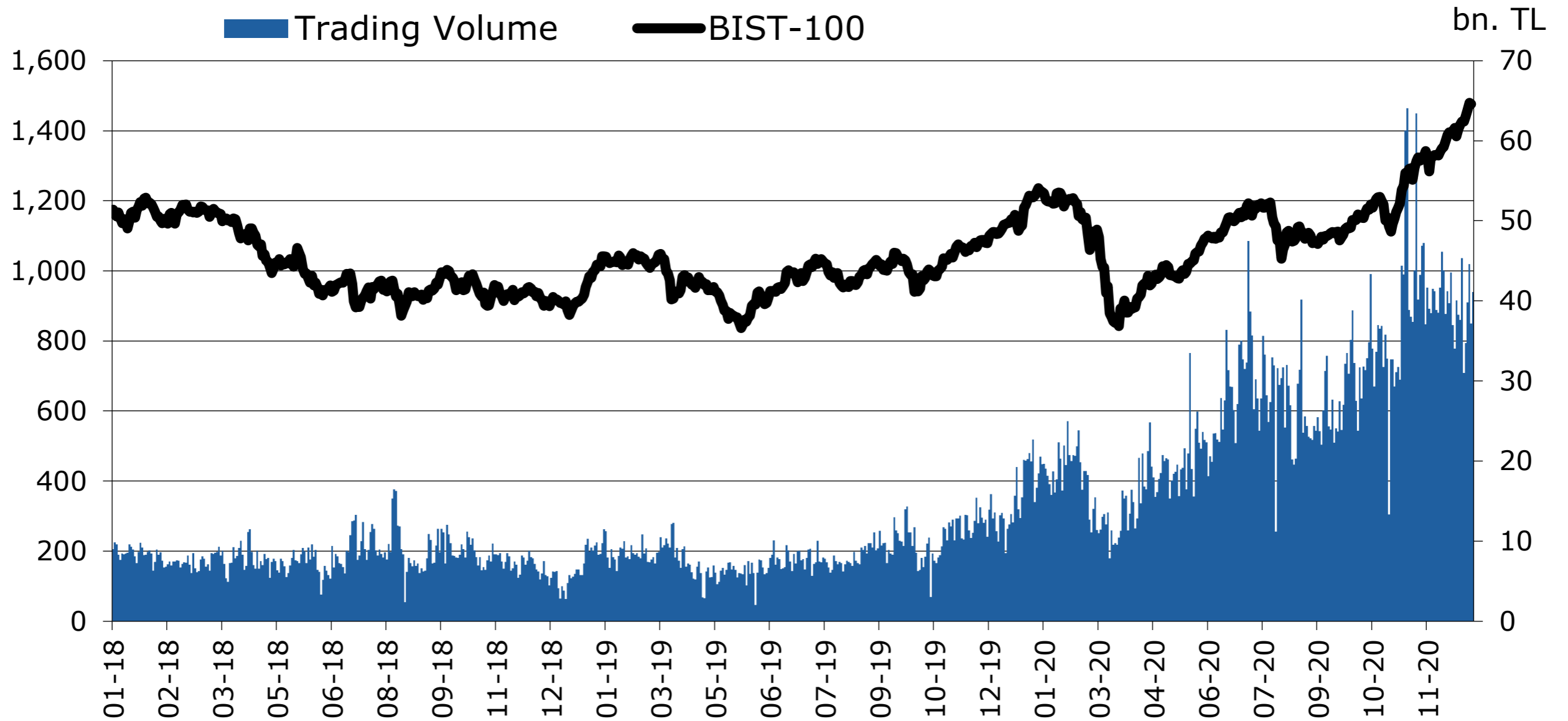
JOINT MORTGAGE FINANCE CORPORATION

- 5% stake
- one seat at the board of directors, out of 7 members

TURKISH CAPITAL MARKETS

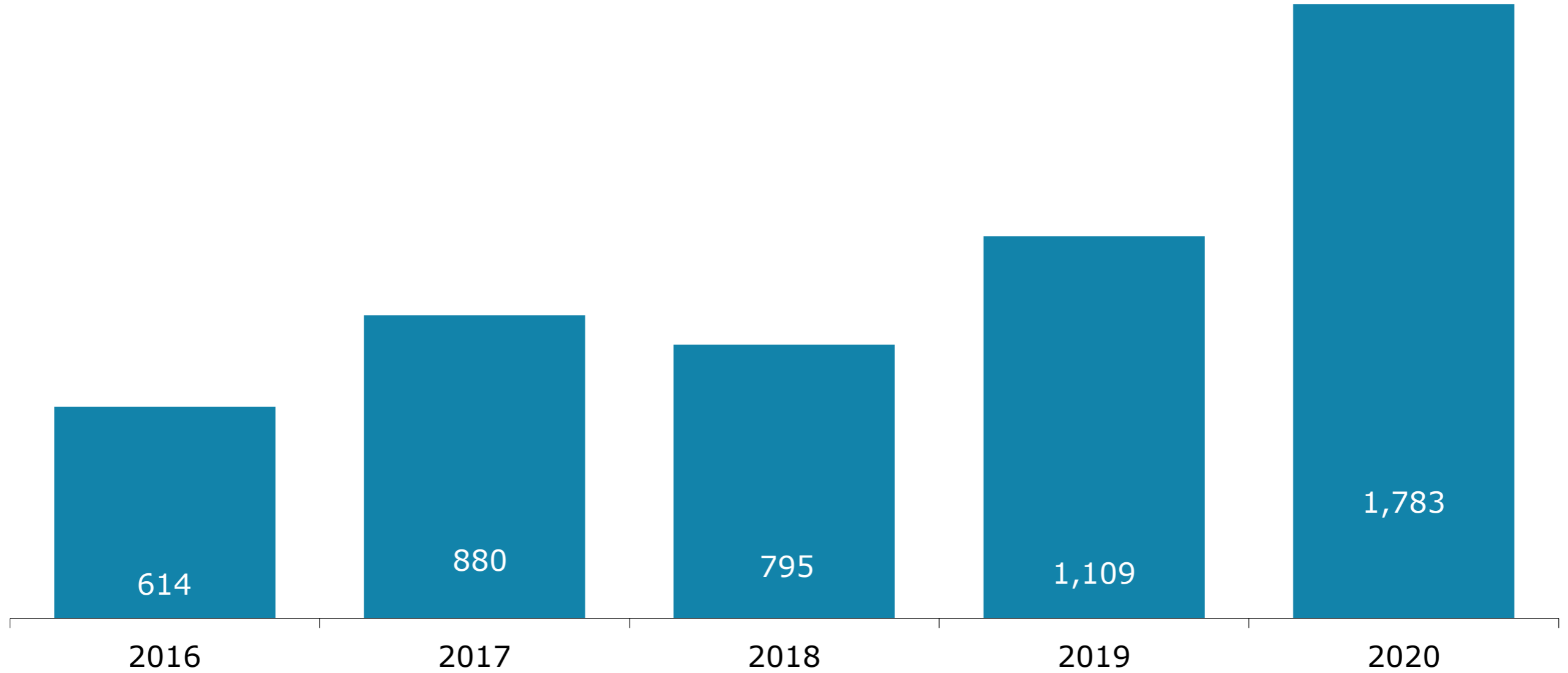


BIST-100 INDEX & TRADING VOLUME



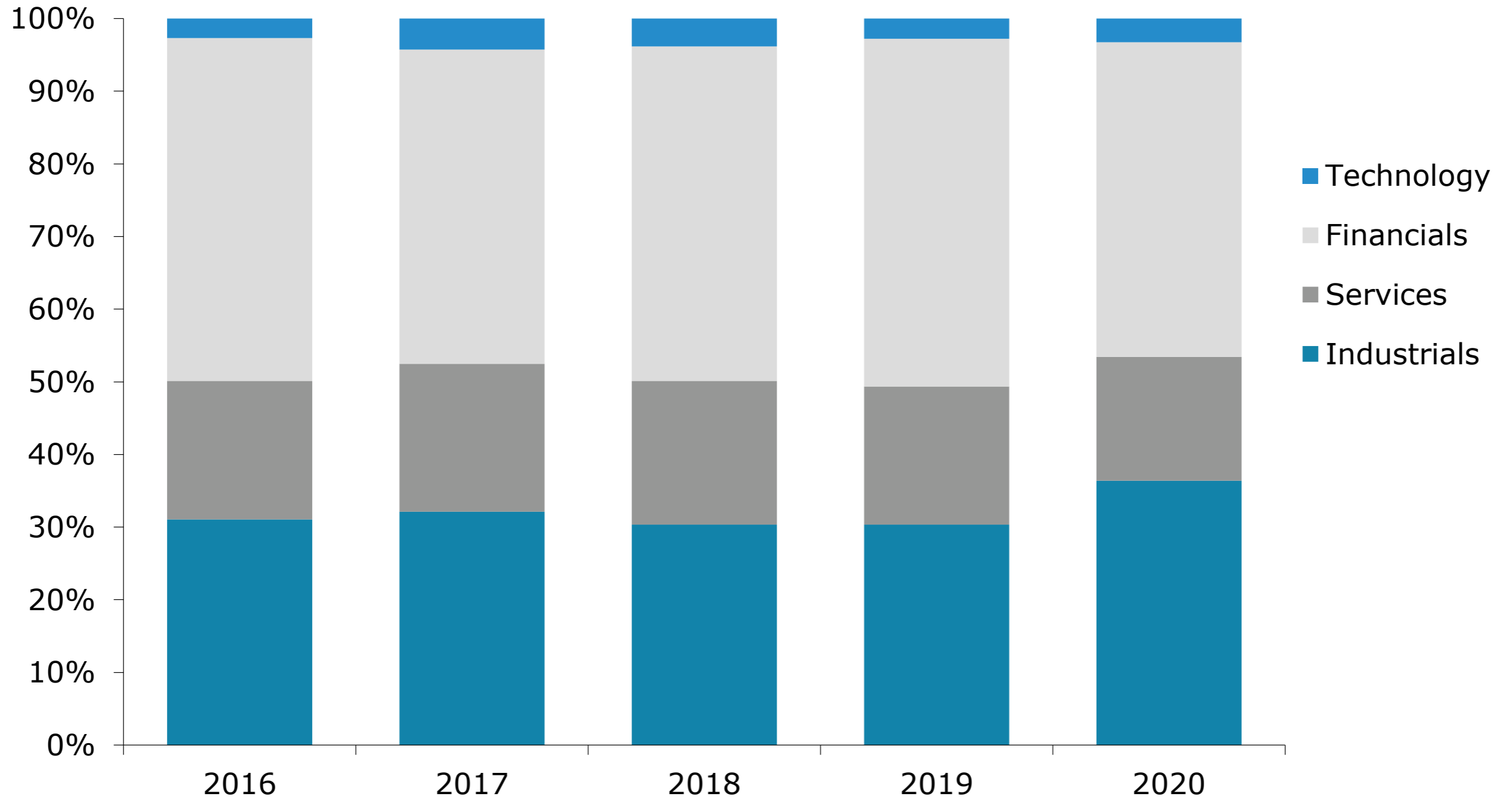
Source: Borsa Istanbul

MARKET CAPITALIZATION OF BORSA ISTANBUL (BILLION TL)



Source: Borsa Istanbul

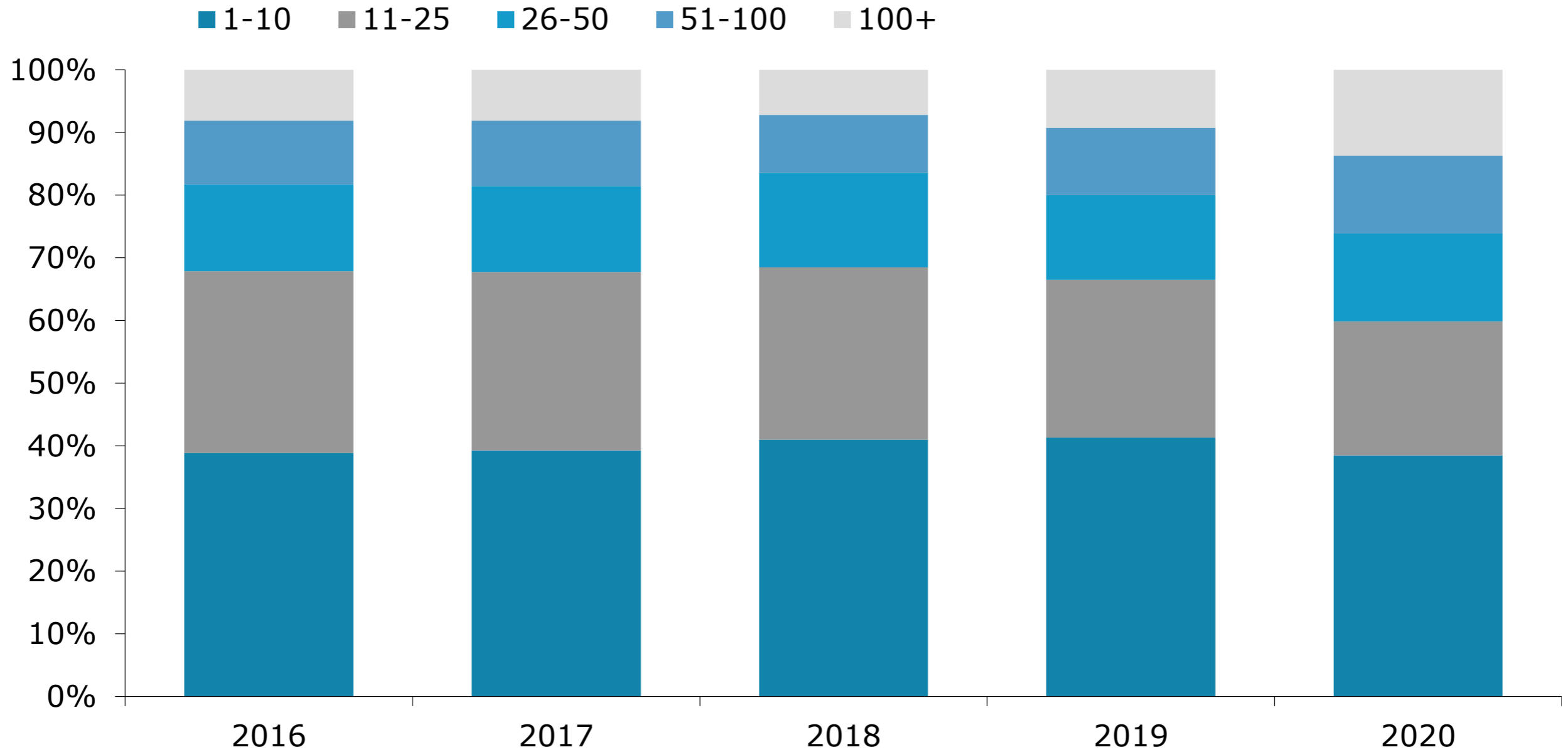
BREAKDOWN OF BORSA ISTANBUL MARKET CAPITALIZATION



Source: Borsa Istanbul

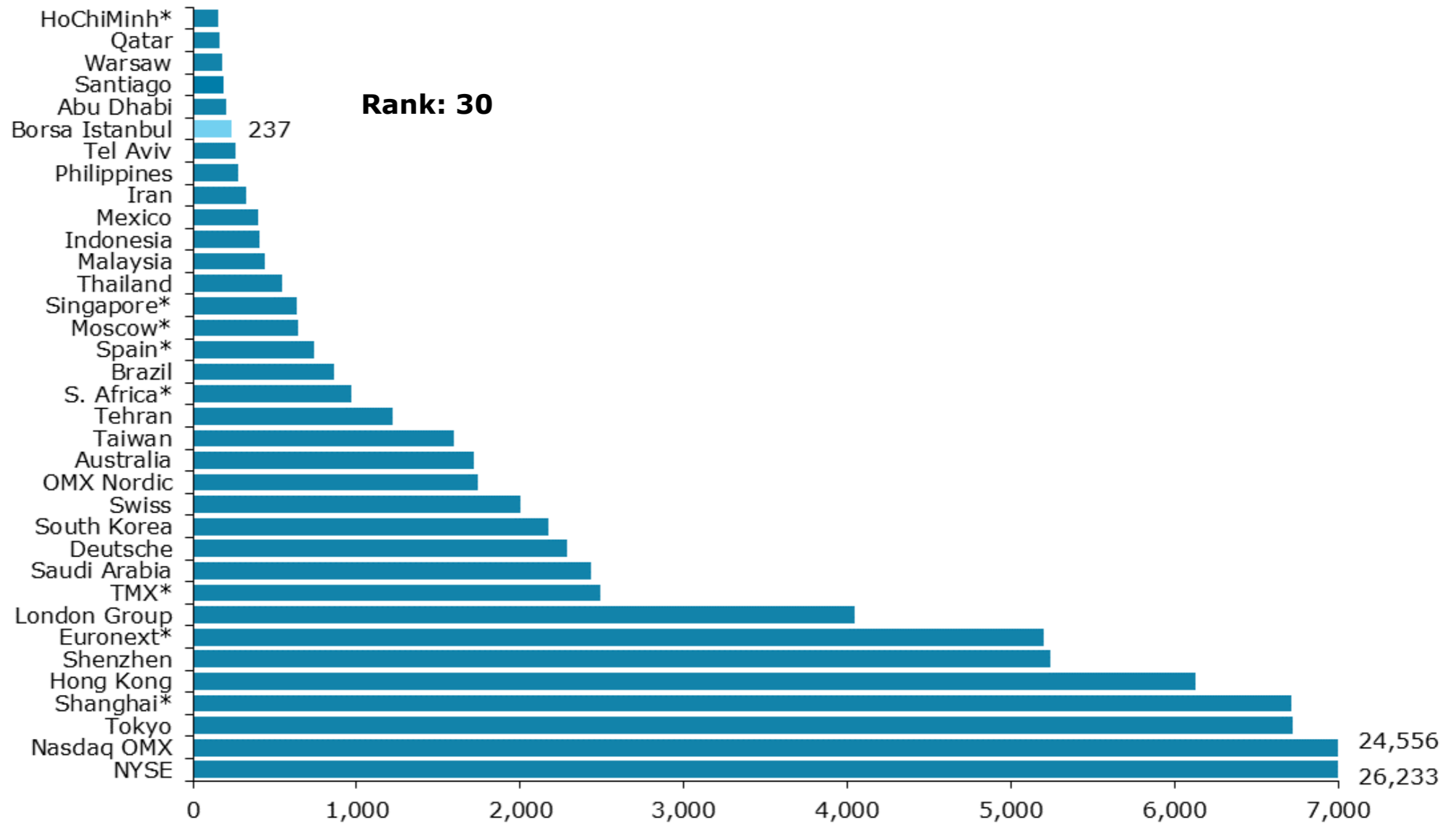
CONCENTRATION IN THE EQUITY MARKET (MCAP)

No. of Equities



Source: Borsa Istanbul

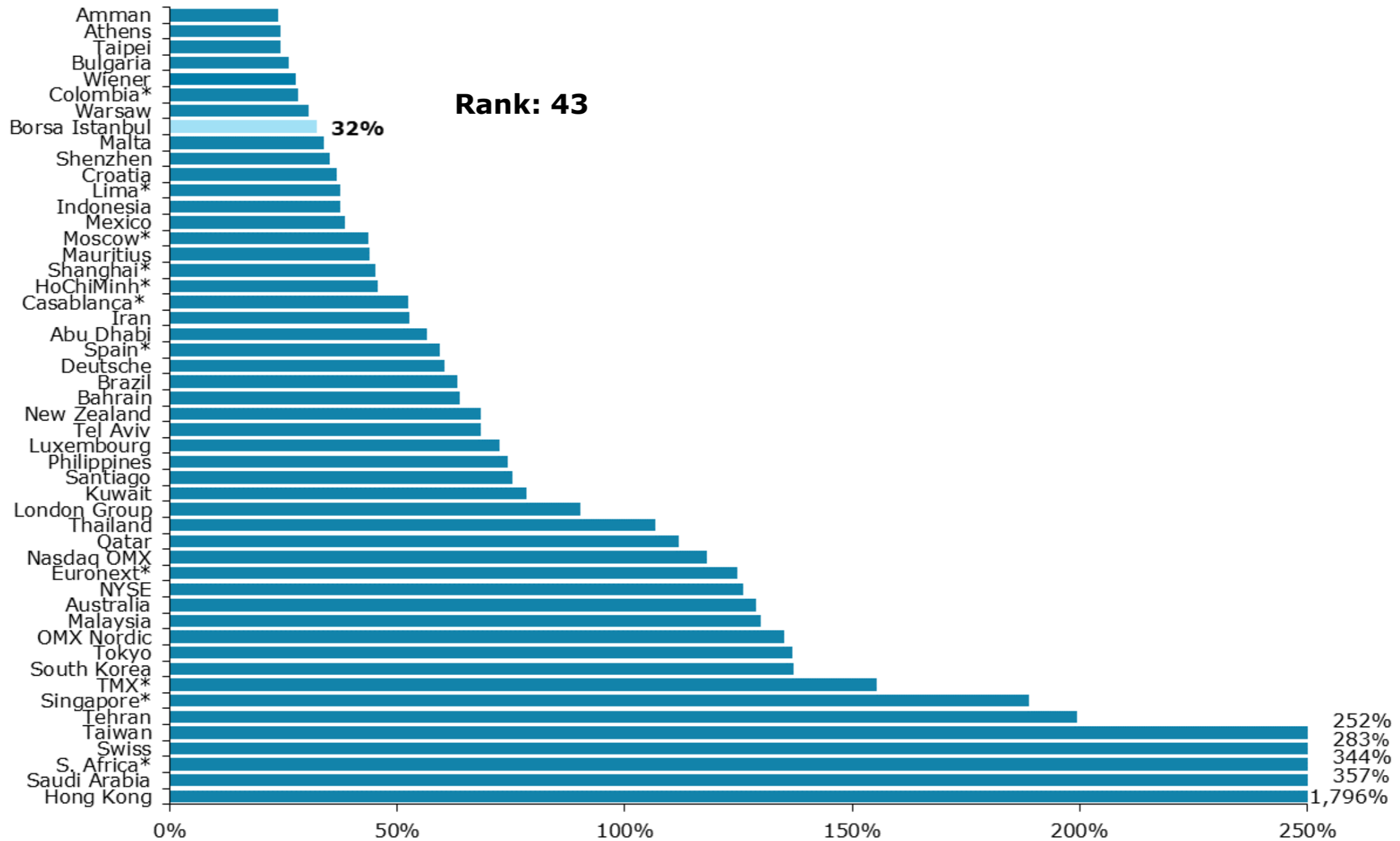
DOMESTIC MARKET CAPITALIZATION (2020, BILLION \$)



Source: WFE

As of November 2020

MARKET CAPITALIZATION/GDP (2020)

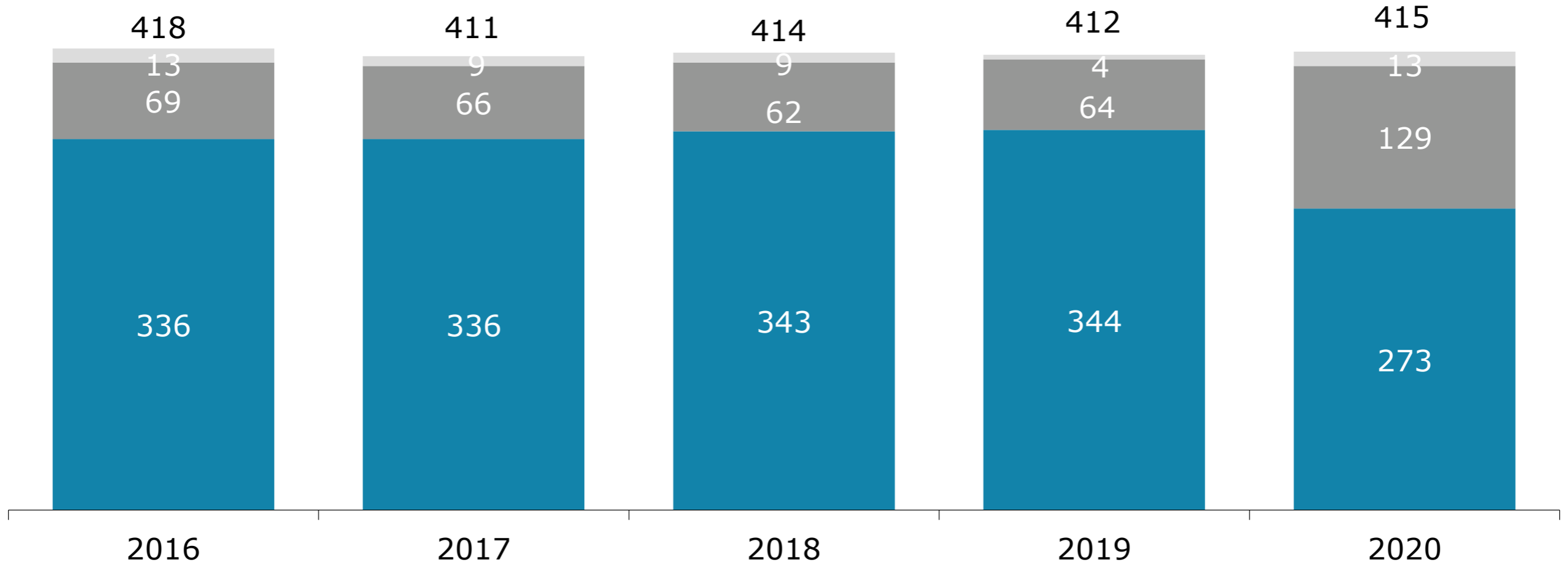


Source: WFE, IMF, Turkstat

*As of November 2020

NUMBER OF SECURITIES IN THE EQUITY MARKET

- Real Estate/Venture Capital Investment Trusts/Funds
- ETF
- Other Equities
- Equities



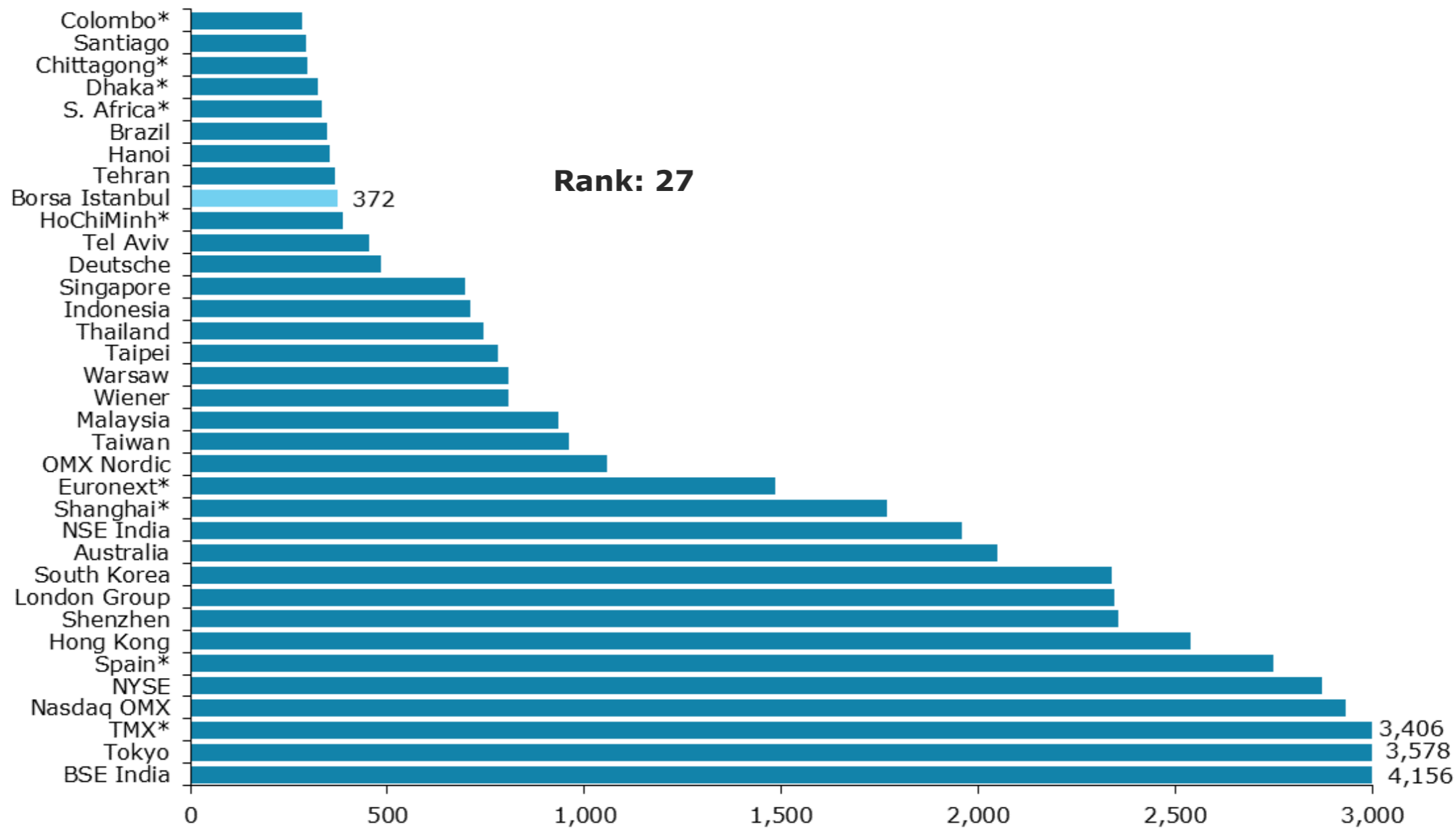
Equities: BIST Main+BIST Star

Other Equities: SubMarket, Watchlist,
Pre-Market Trading Platform,

Source: Borsa Istanbul

Due to changes in the market structure of Bosra İstanbul in 2020, BIST Main Group 2 companies under the former 'companies' classification became a part of SubMarket and were re-classified as 'other companies'

NUMBER OF LISTED COMPANIES** (2020)

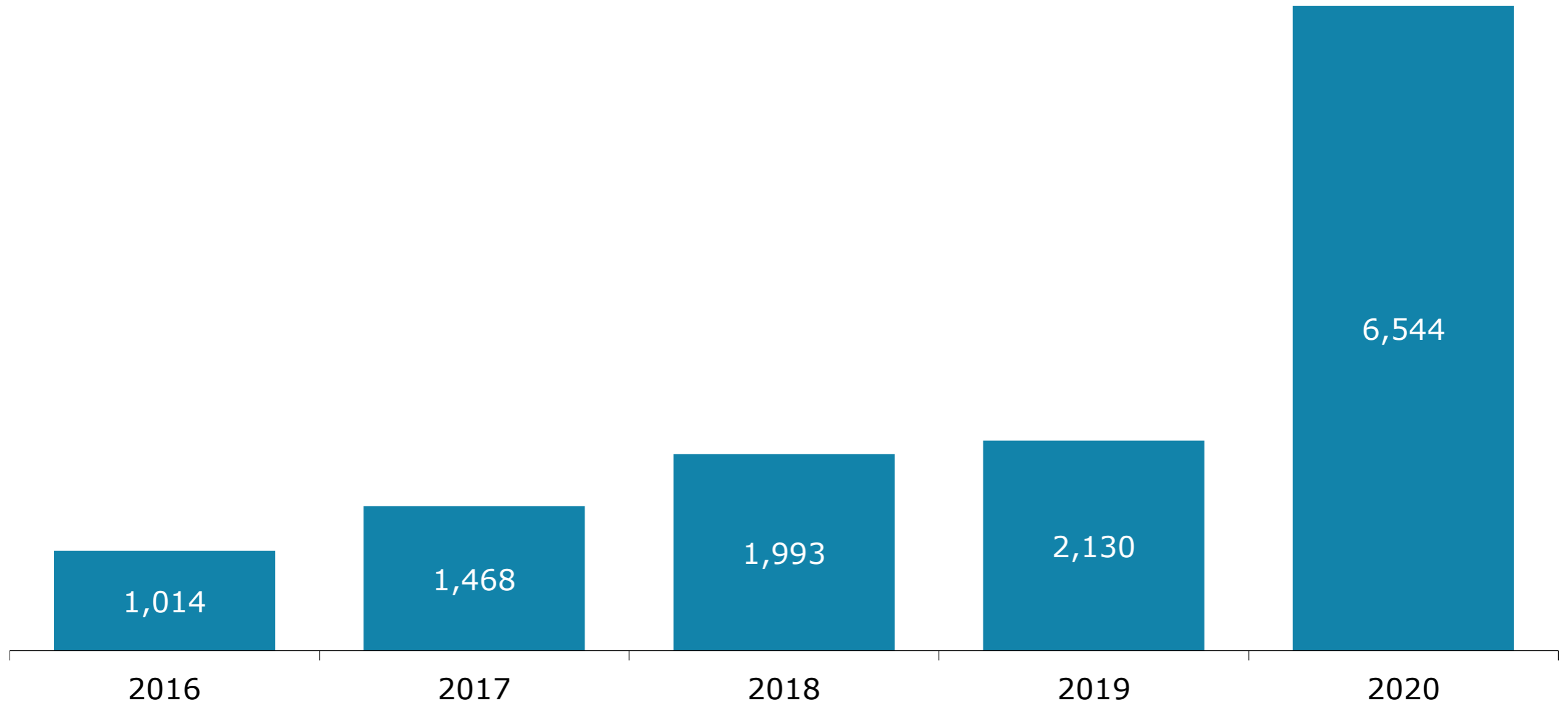


*As of November 2020

**Borsa Istanbul data excludes mutual funds, investment trusts and Pre-Market Trading Platform

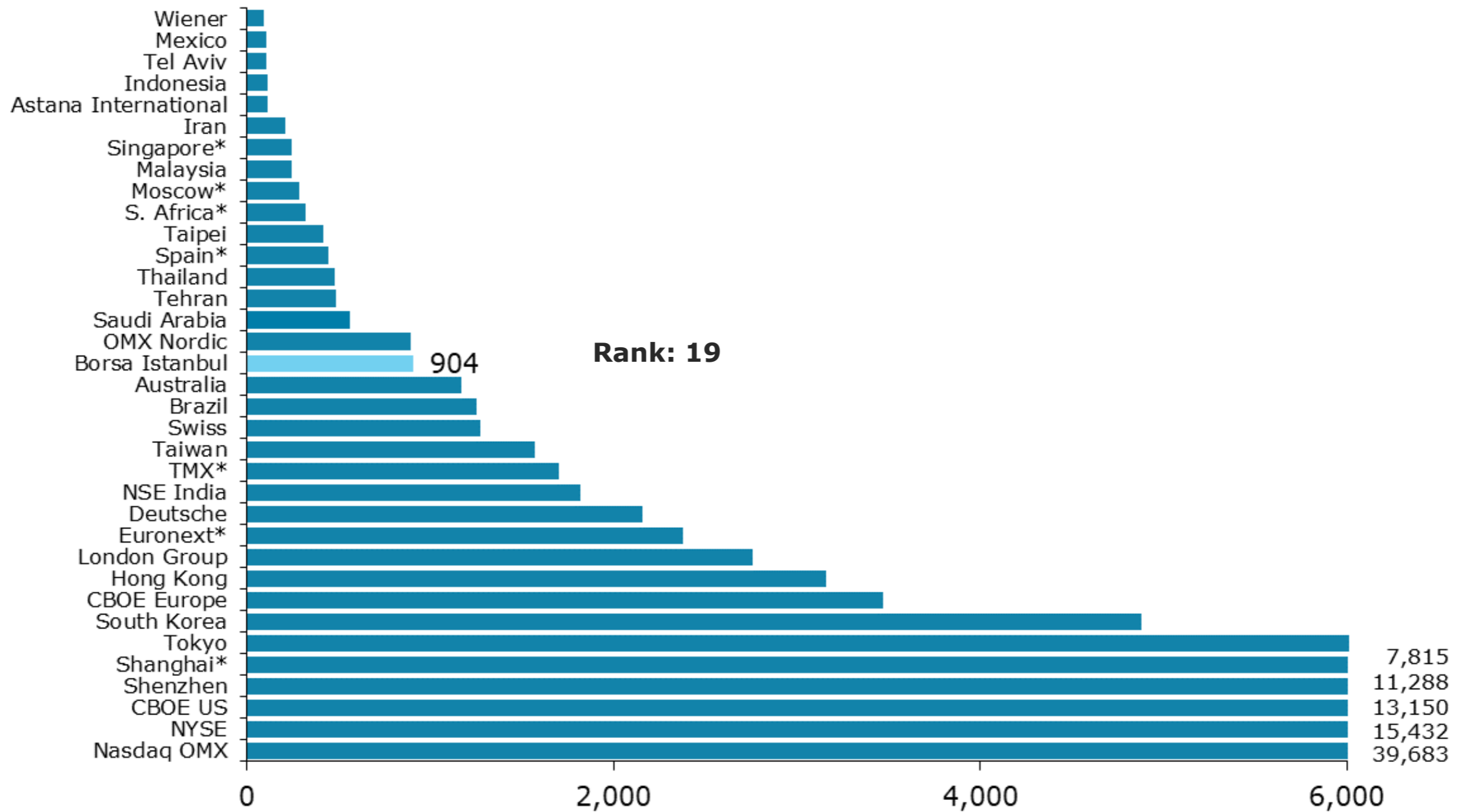
Source: WFE

EQUITY TRADING VOLUME OF BORSA ISTANBUL (BILLION TL)



Source: Borsa Istanbul

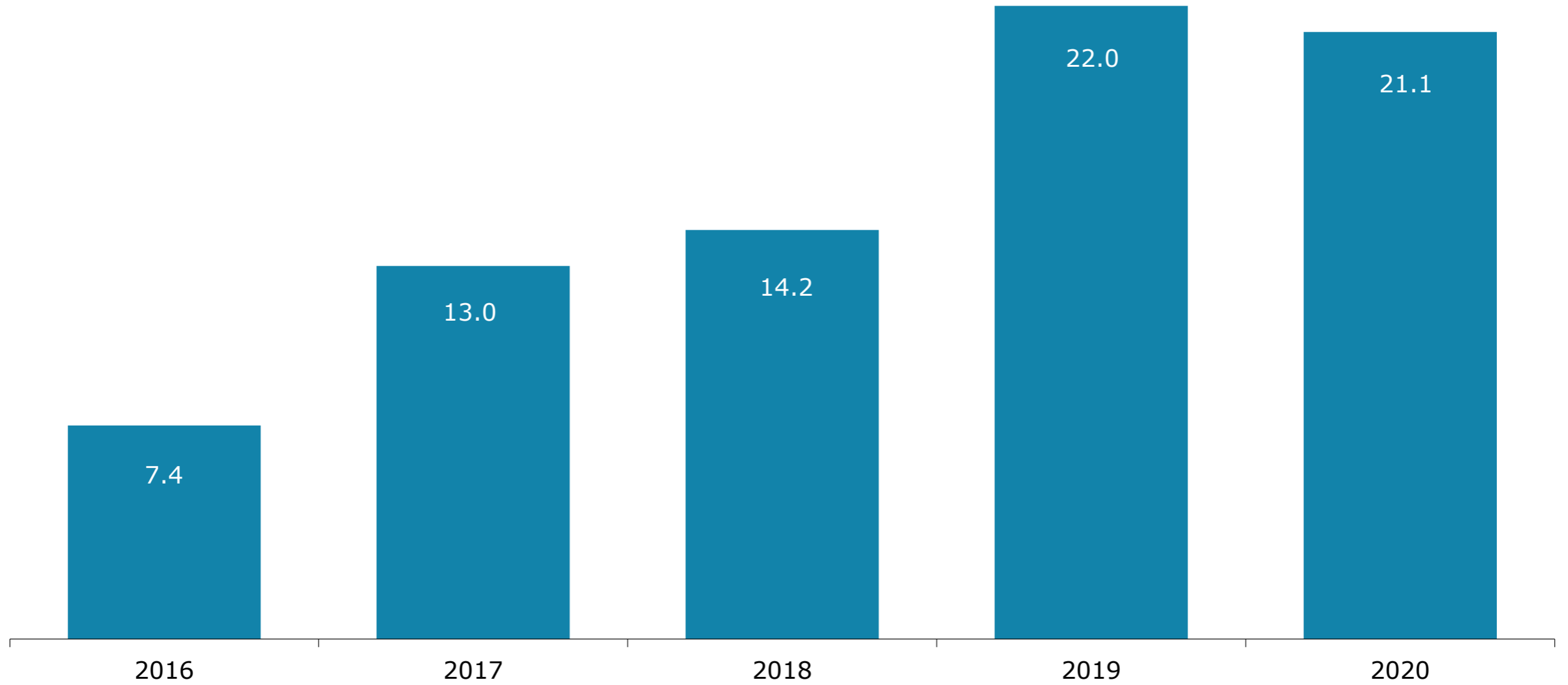
EQUITY TRADING VOLUME (2020, BILLION \$)



Source: WFE

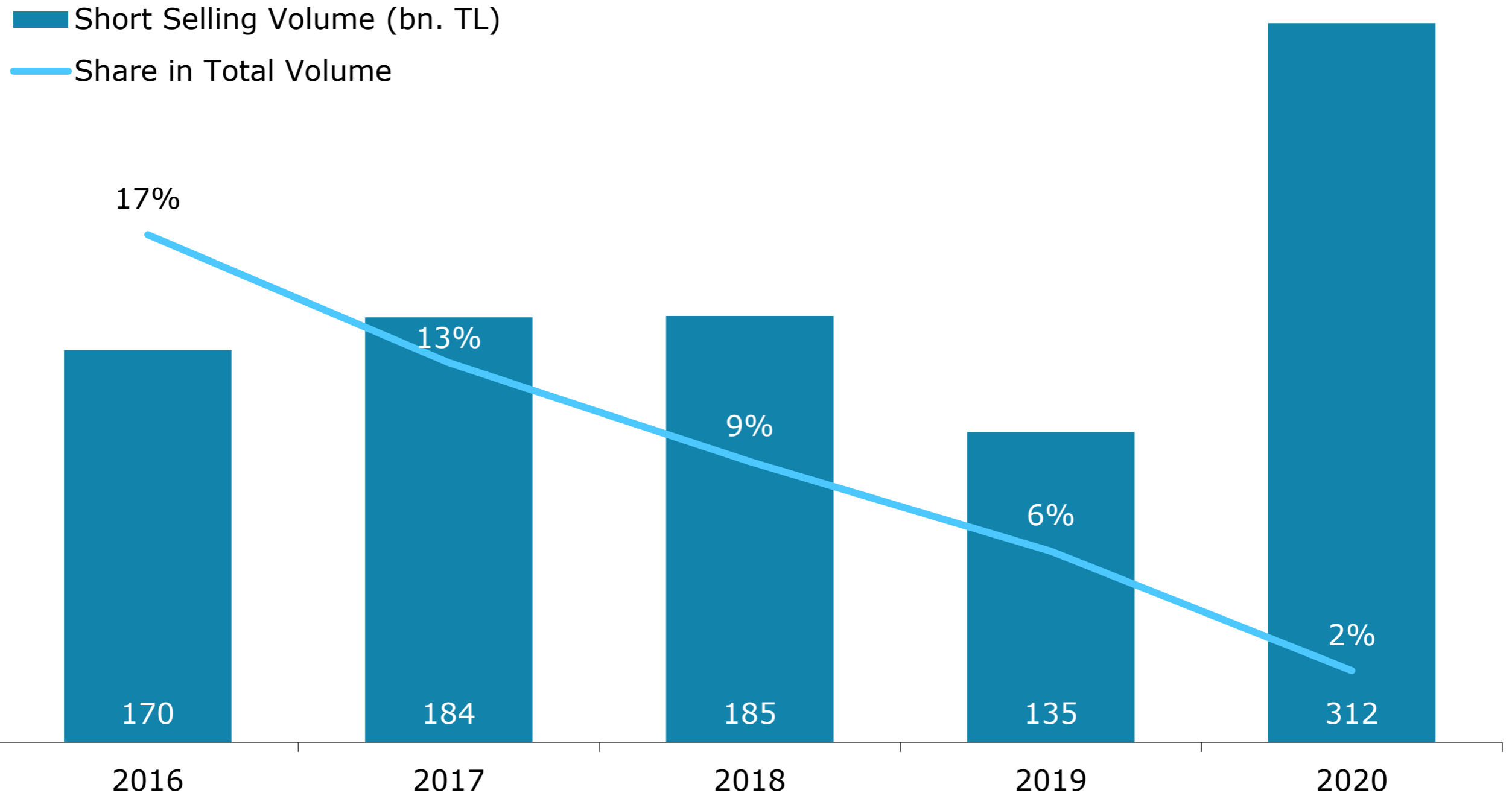
* As of November 2020

SECURITIES LENDING/BORROWING IN BORSA ISTANBUL (BILLION TL)



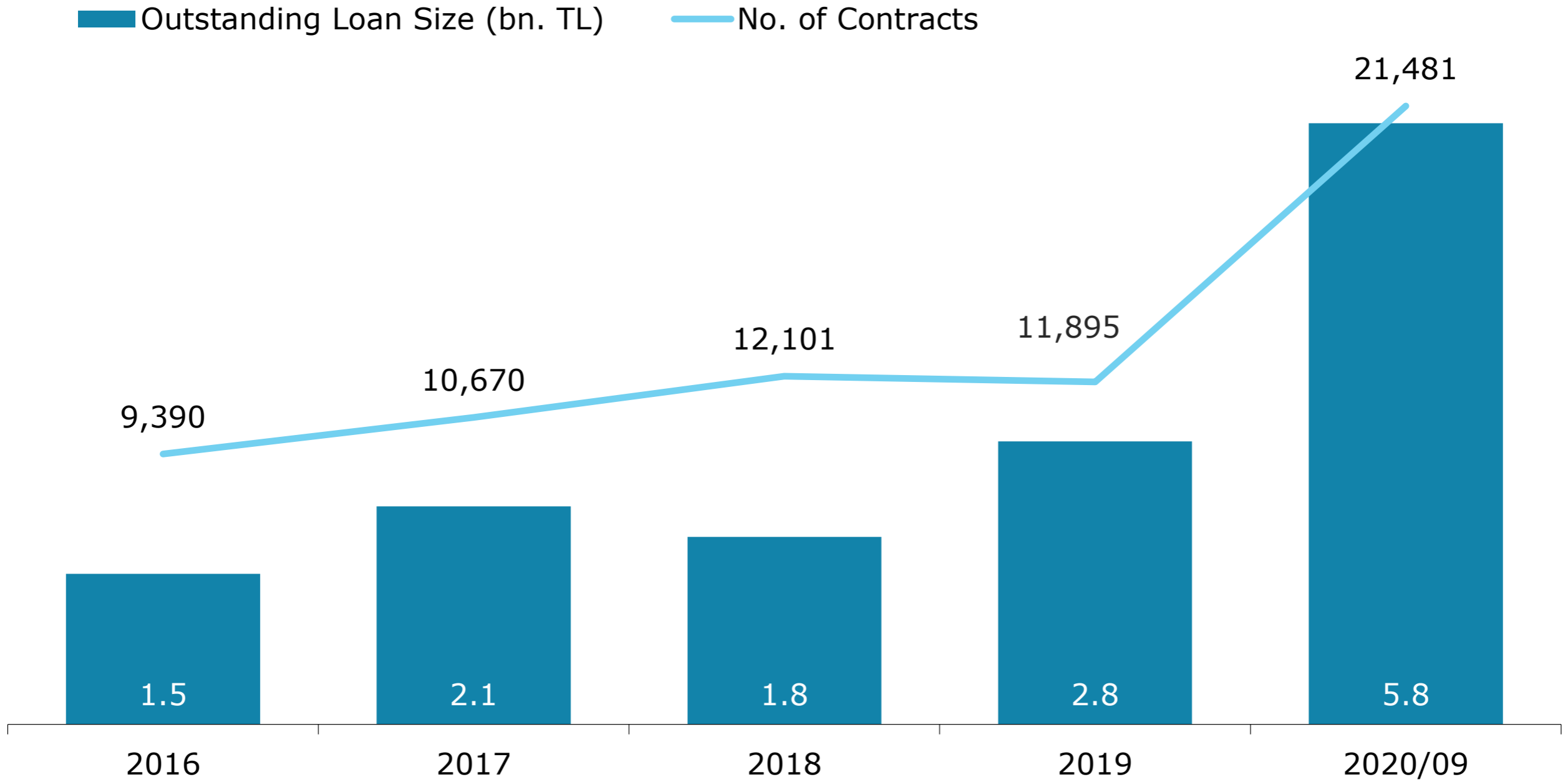
Source: Takasbank

SHORT SELLING IN BORSA ISTANBUL



Source: Borsa Istanbul

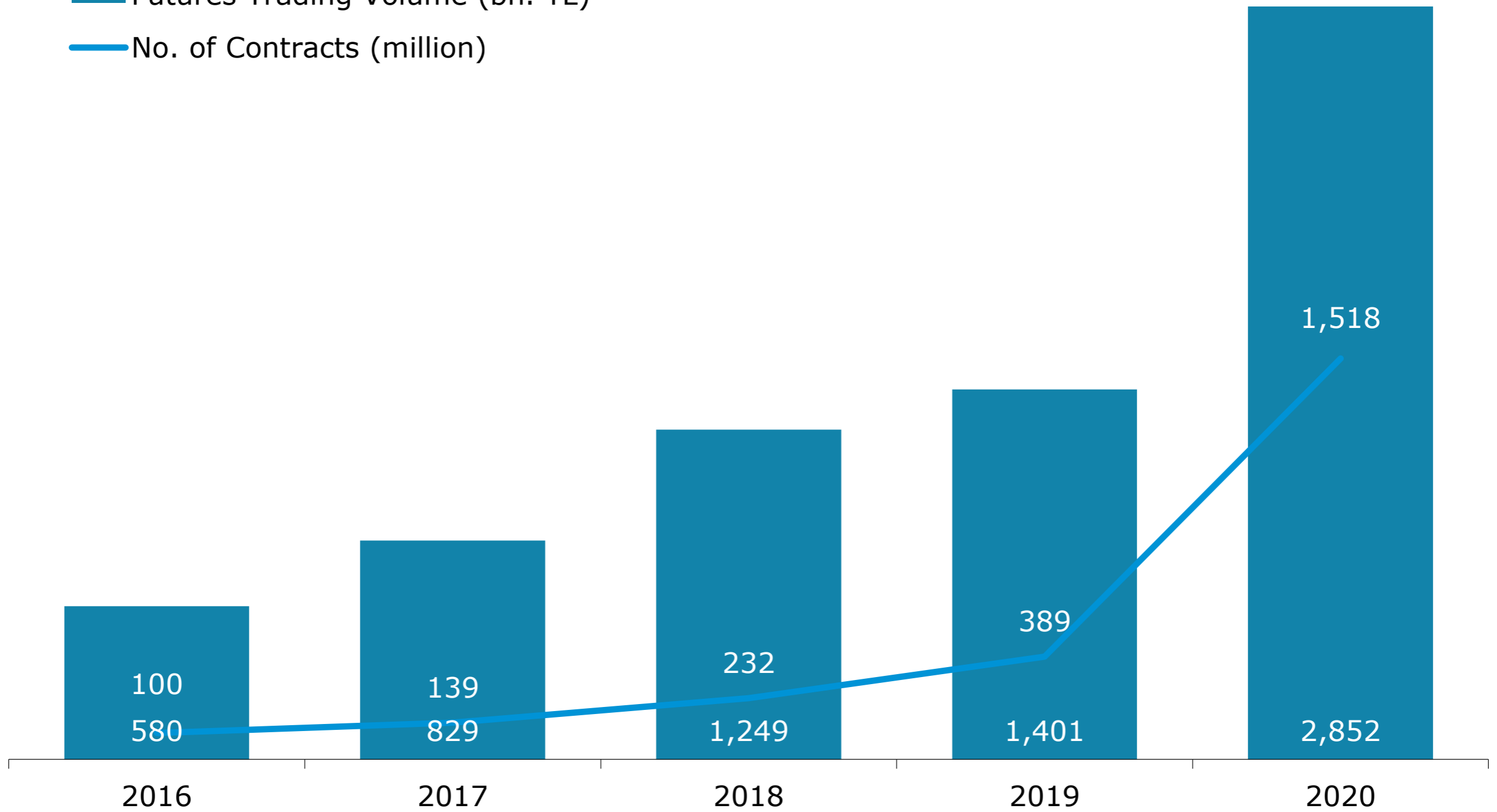
MARGIN TRADING



Source: TCMA

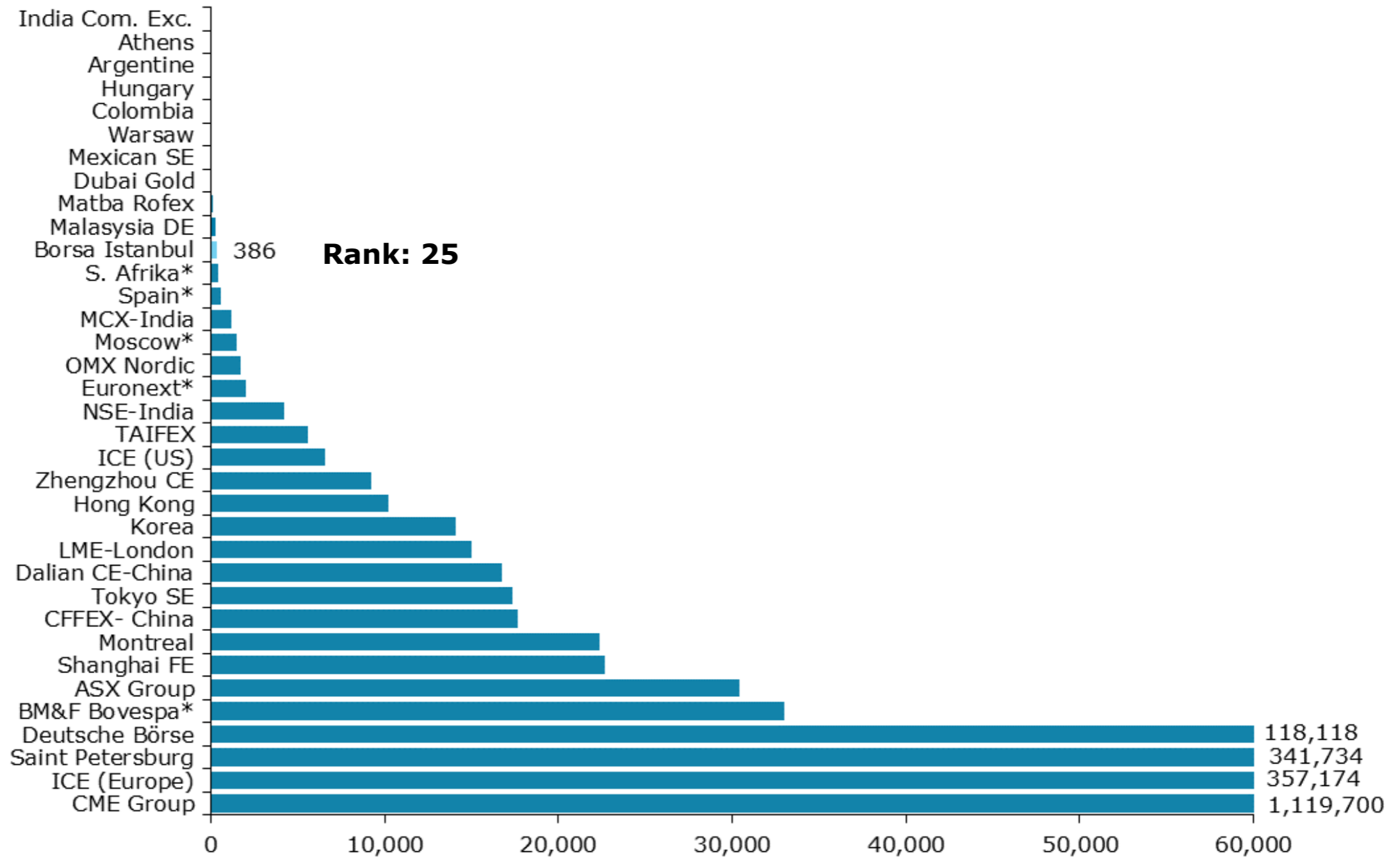
FUTURES TRADING VOLUME OF BORSA ISTANBUL

- Futures Trading Volume (bn. TL)
- No. of Contracts (million)



Source: Borsa Istanbul

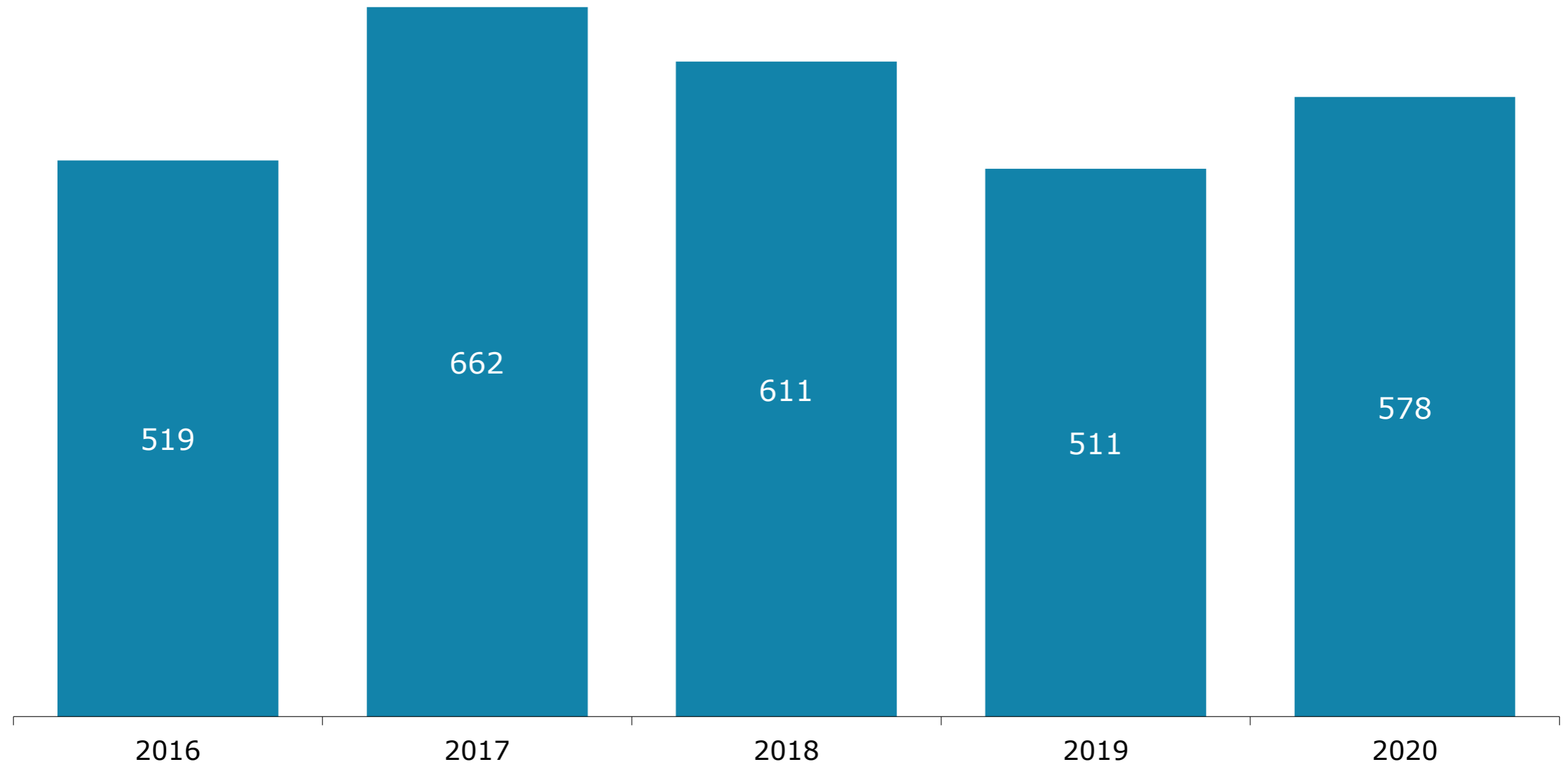
TRADING VOLUME IN FUTURES MARKETS (2020, BILLION \$)



Source: WFE

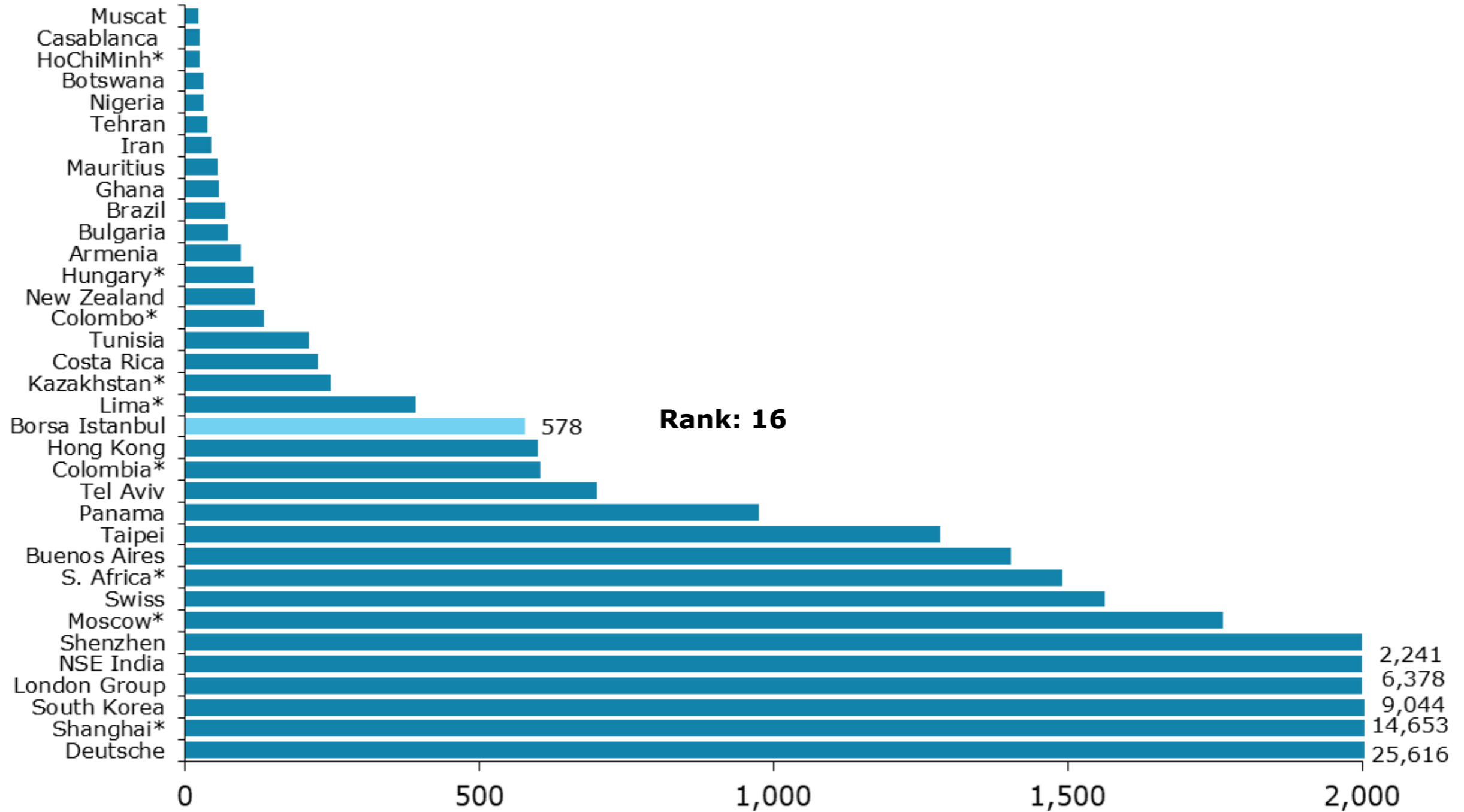
* As of November 2020

NUMBER OF LISTED CORPORATE BONDS IN BORSA ISTANBUL



Source: WFE

NUMBER OF LISTED CORPORATE BONDS (2020)

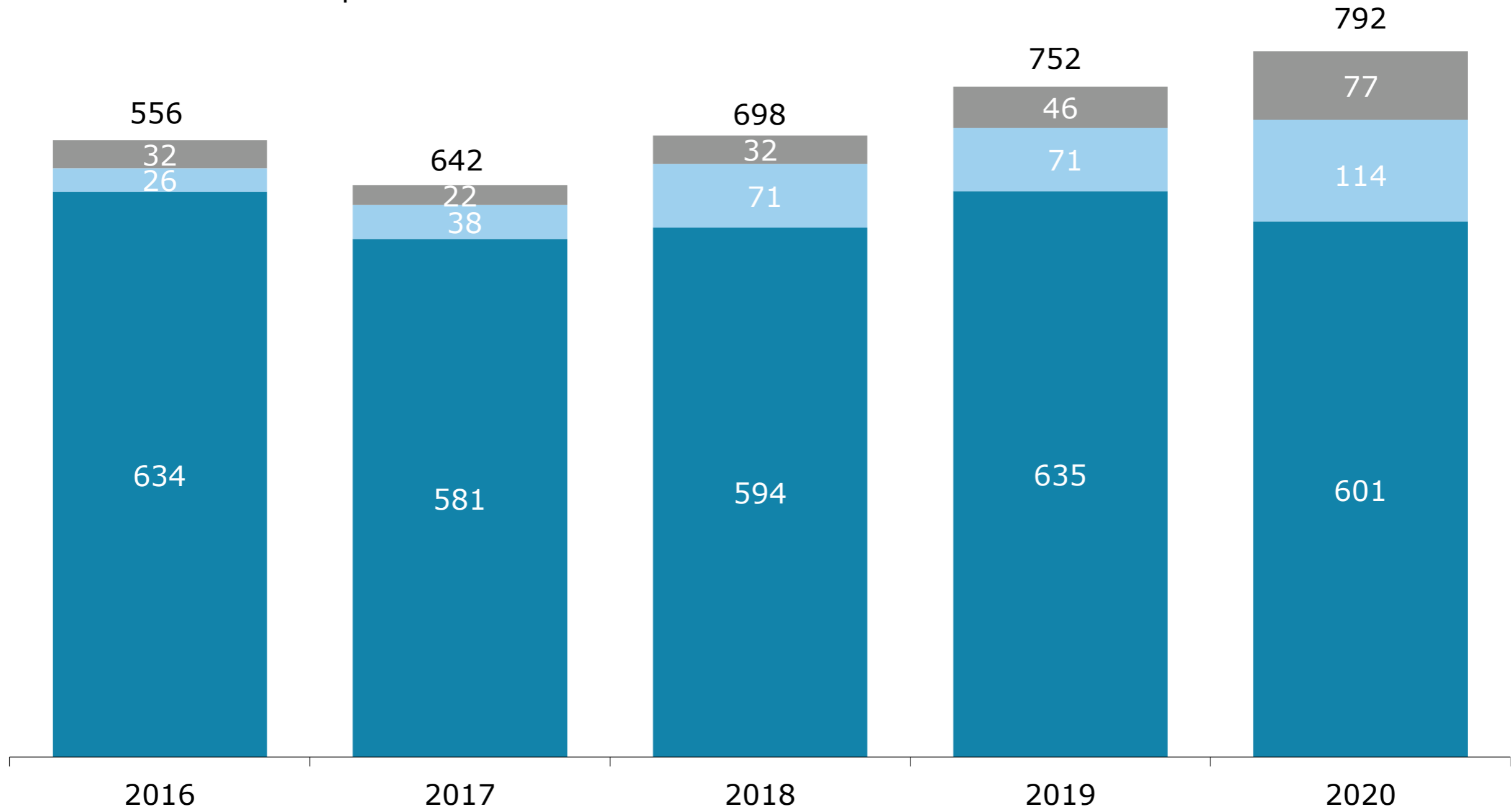


Source: WFE

* As of November 2020

BOND TRADING VOLUME

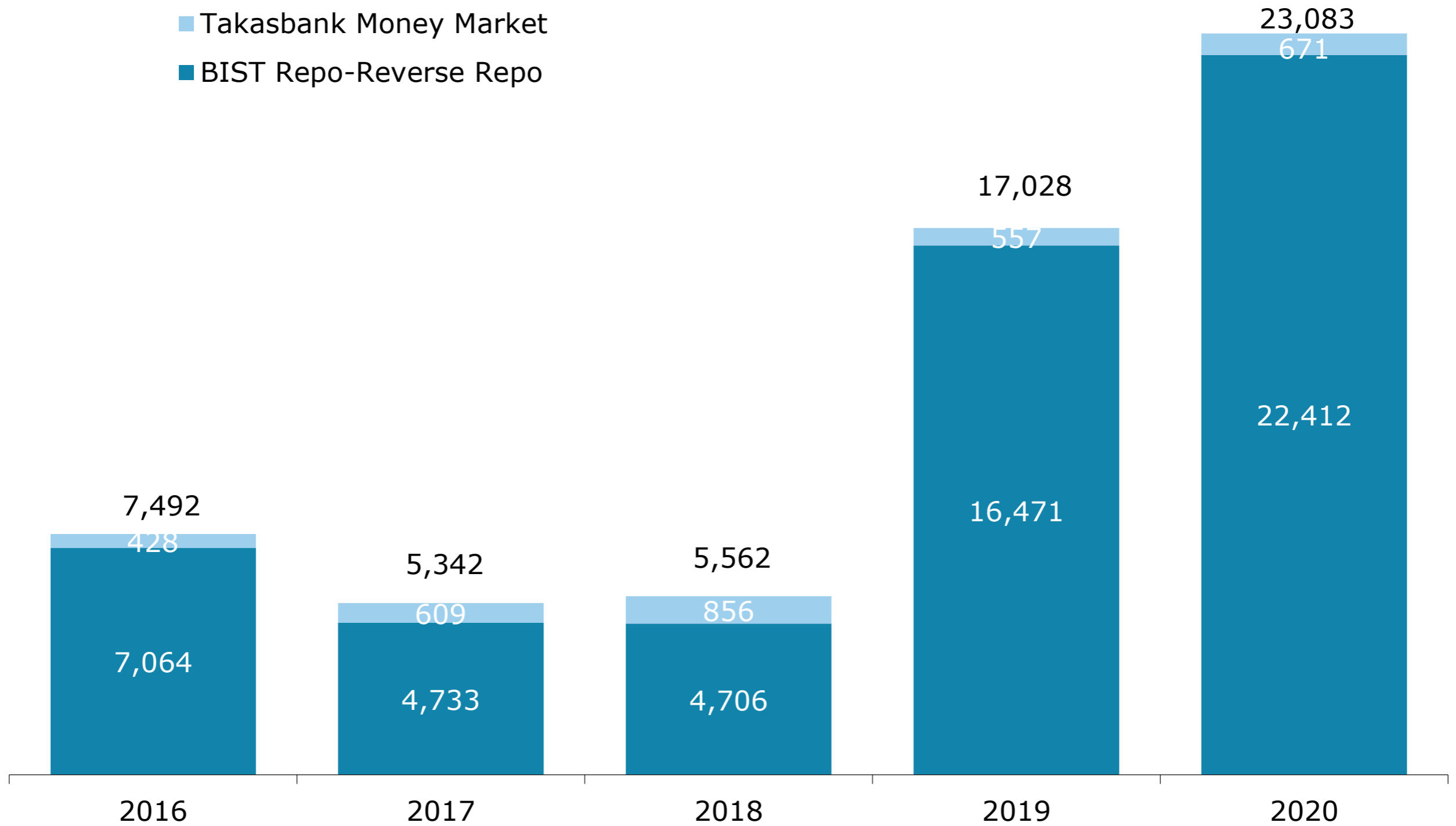
■ Eurobond ■ Corporate Bonds ■ Government Bonds



Source: Borsa Istanbul

REPO-REVERSE REPO AND TAKASBANK MONEY MARKET TRADING VOLUME

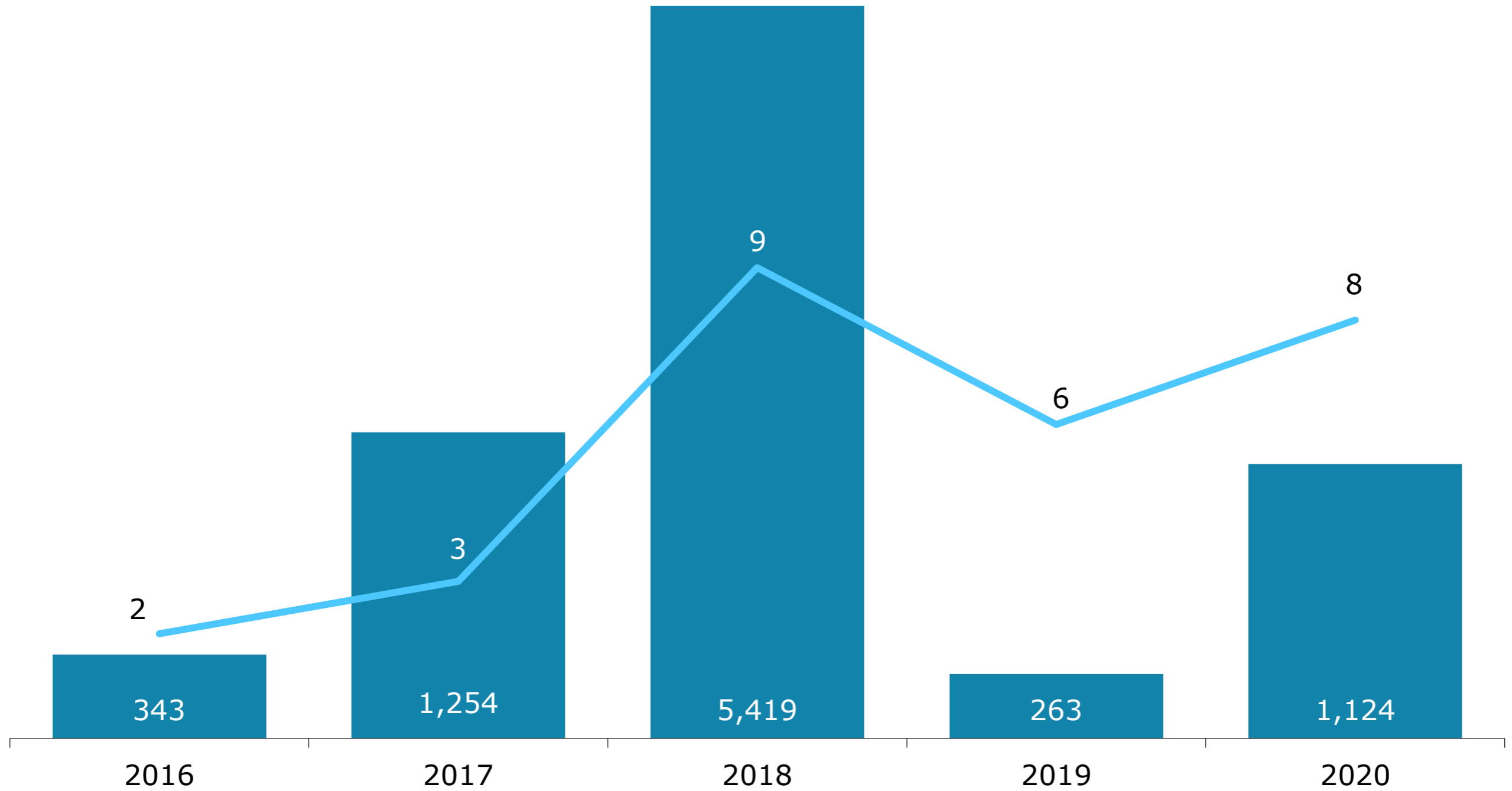
- Takasbank Money Market
- BIST Repo-Reverse Repo



Source: Borsa Istanbul

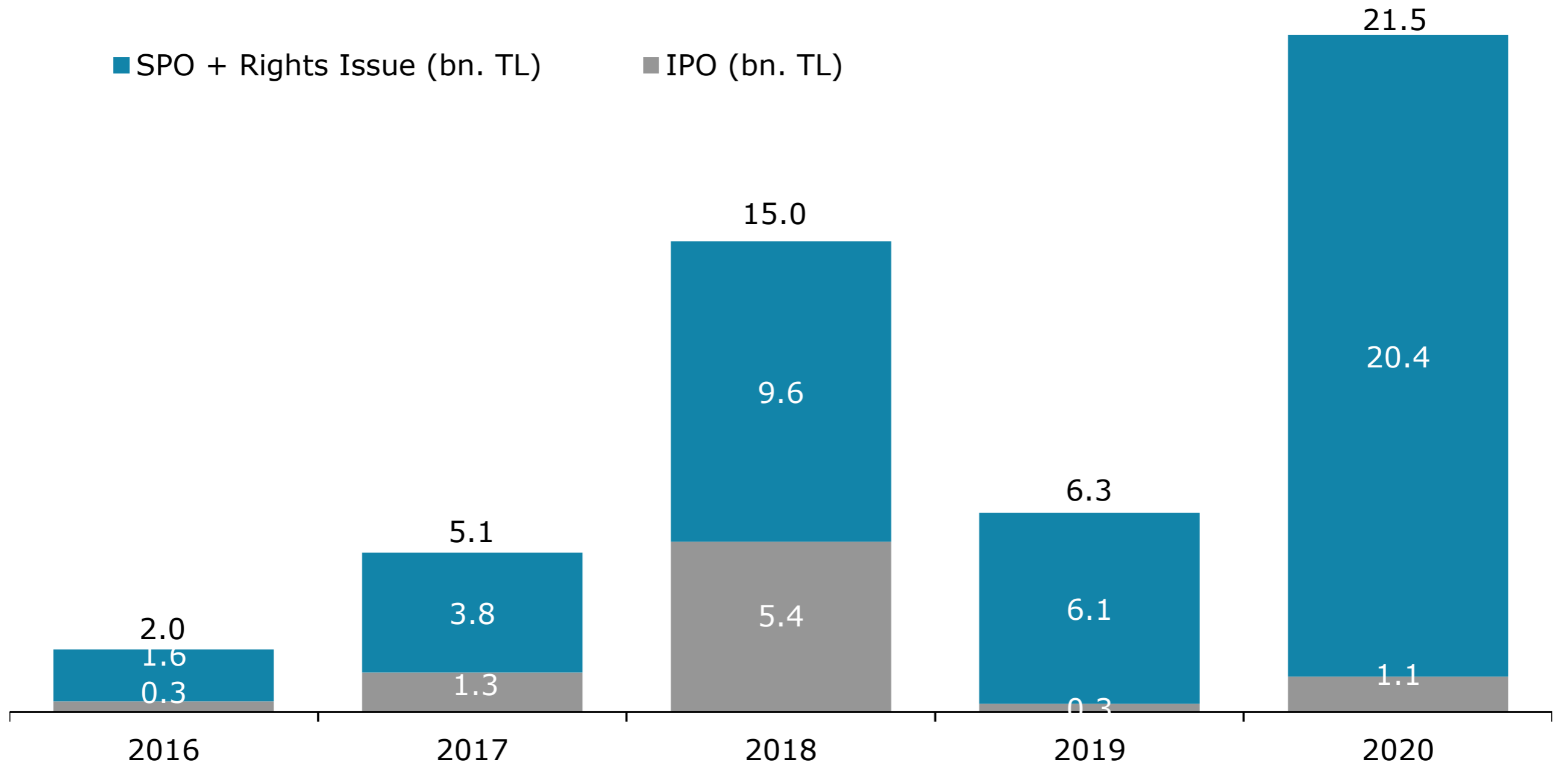
INITIAL PUBLIC OFFERINGS

IPO Volume (mn. TL) No. of IPOs



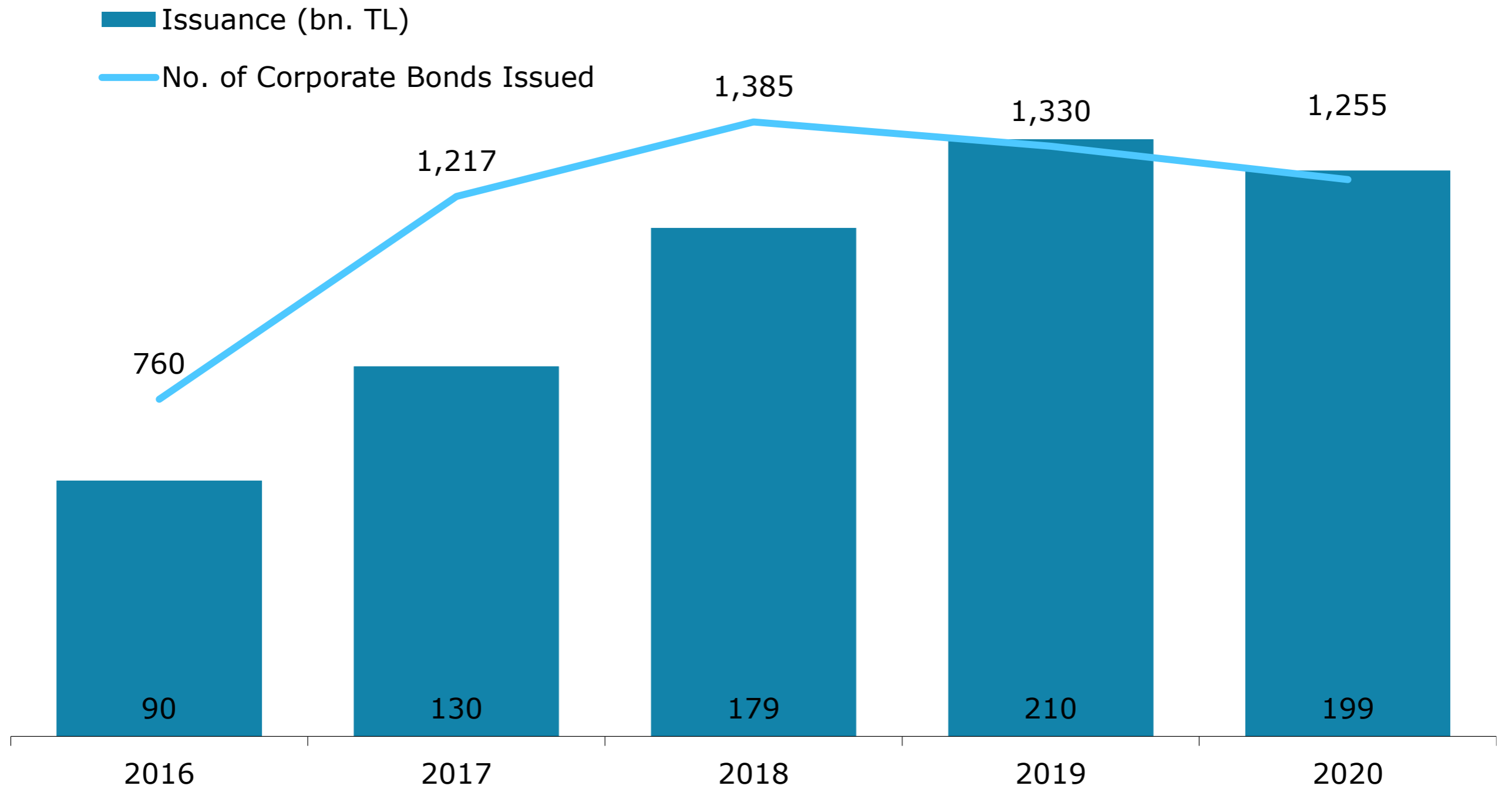
Source: Borsa Istanbul

EQUITY FINANCING



Source: Borsa Istanbul

CORPORATE DEBT SECURITIES ISSUANCE



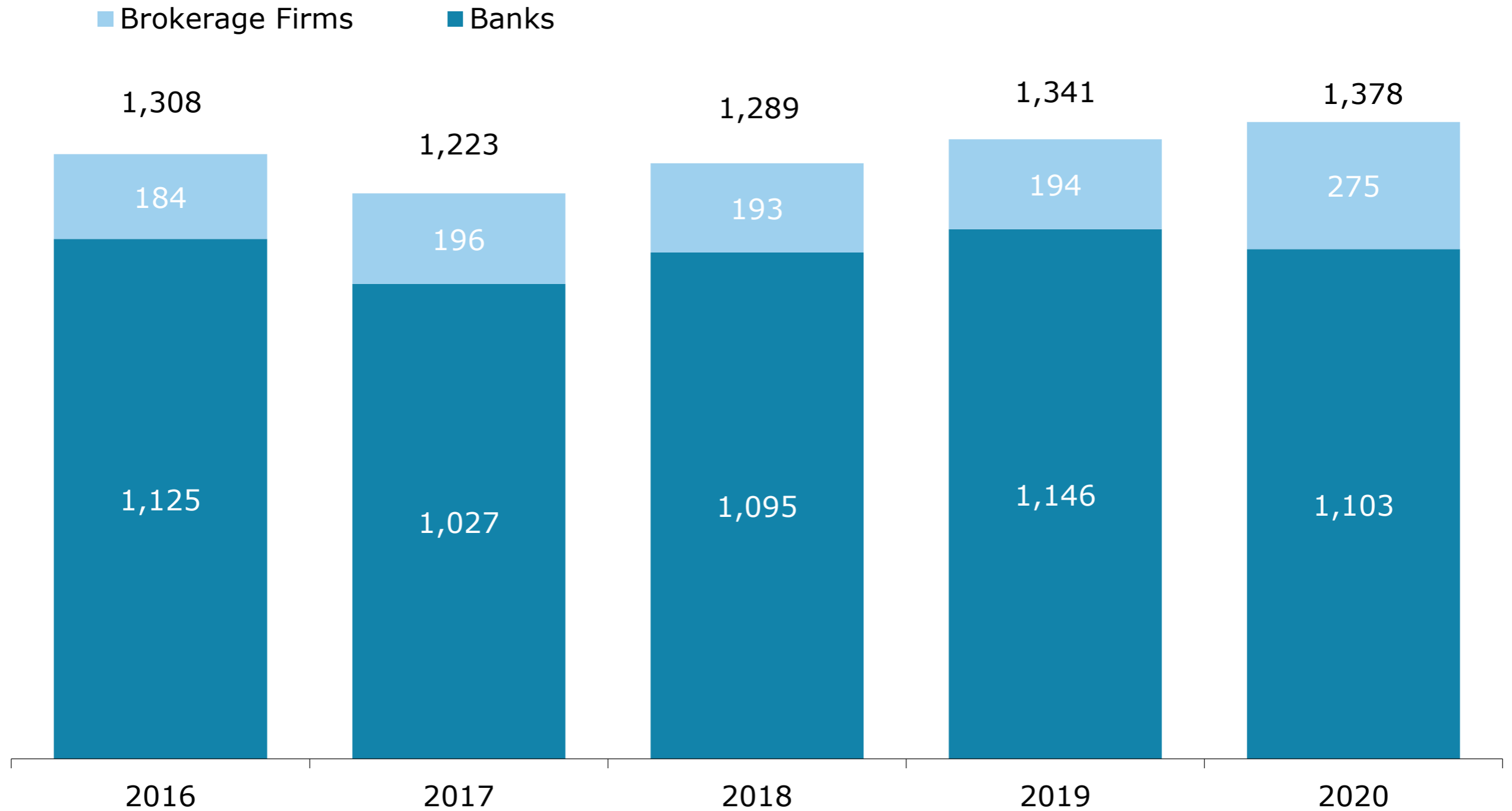
Source: Borsa Istanbul

Excluding private placement

INVESTMENT INSTITUTIONS



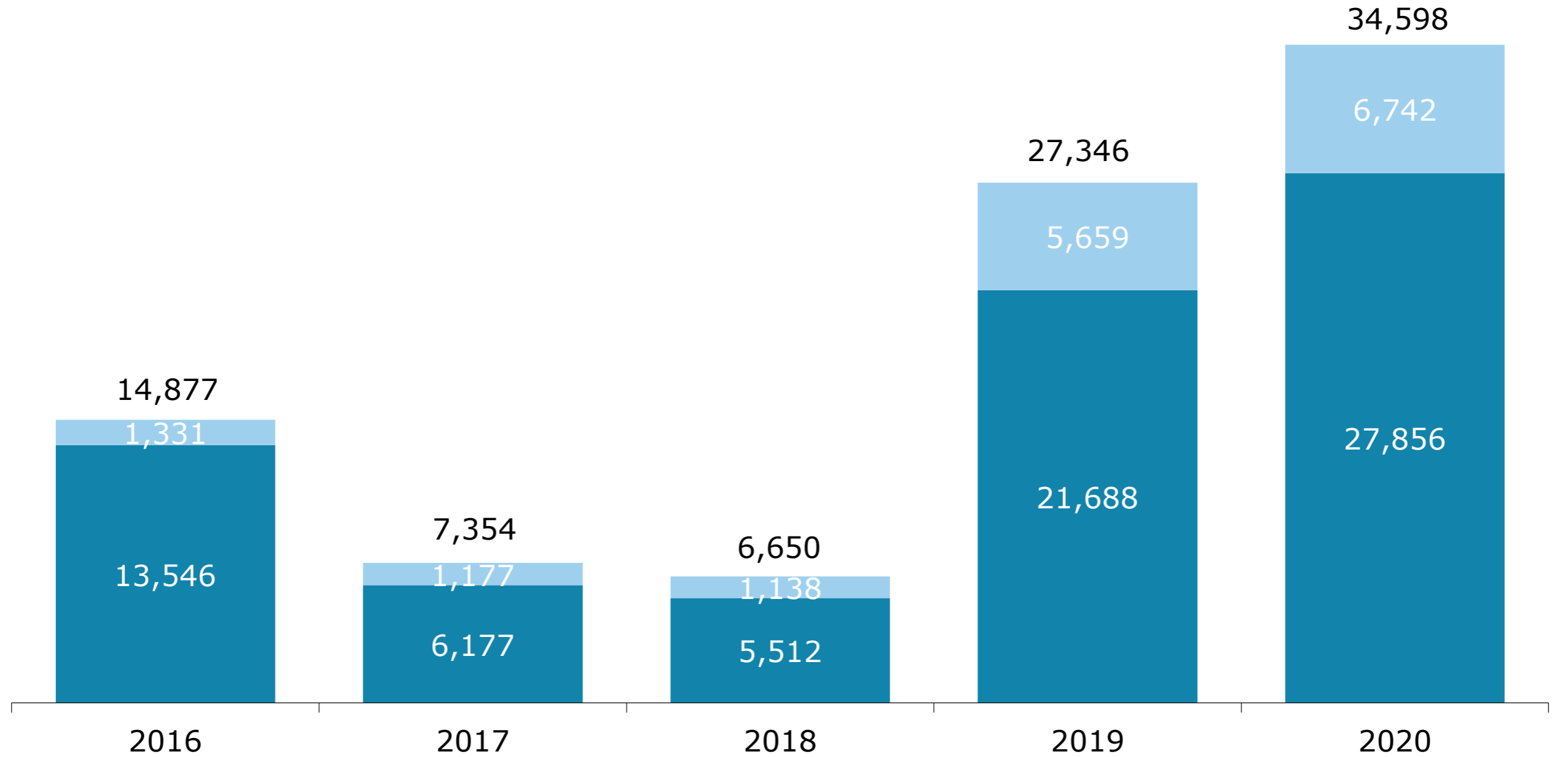
FIXED INCOME TRADING VOLUME OF INTERMEDIARIES (BILLION TL)



Source: Borsa Istanbul

REPO-REVERSE REPO TRADING VOLUME OF INTERMEDIARIES (BILLION TL)

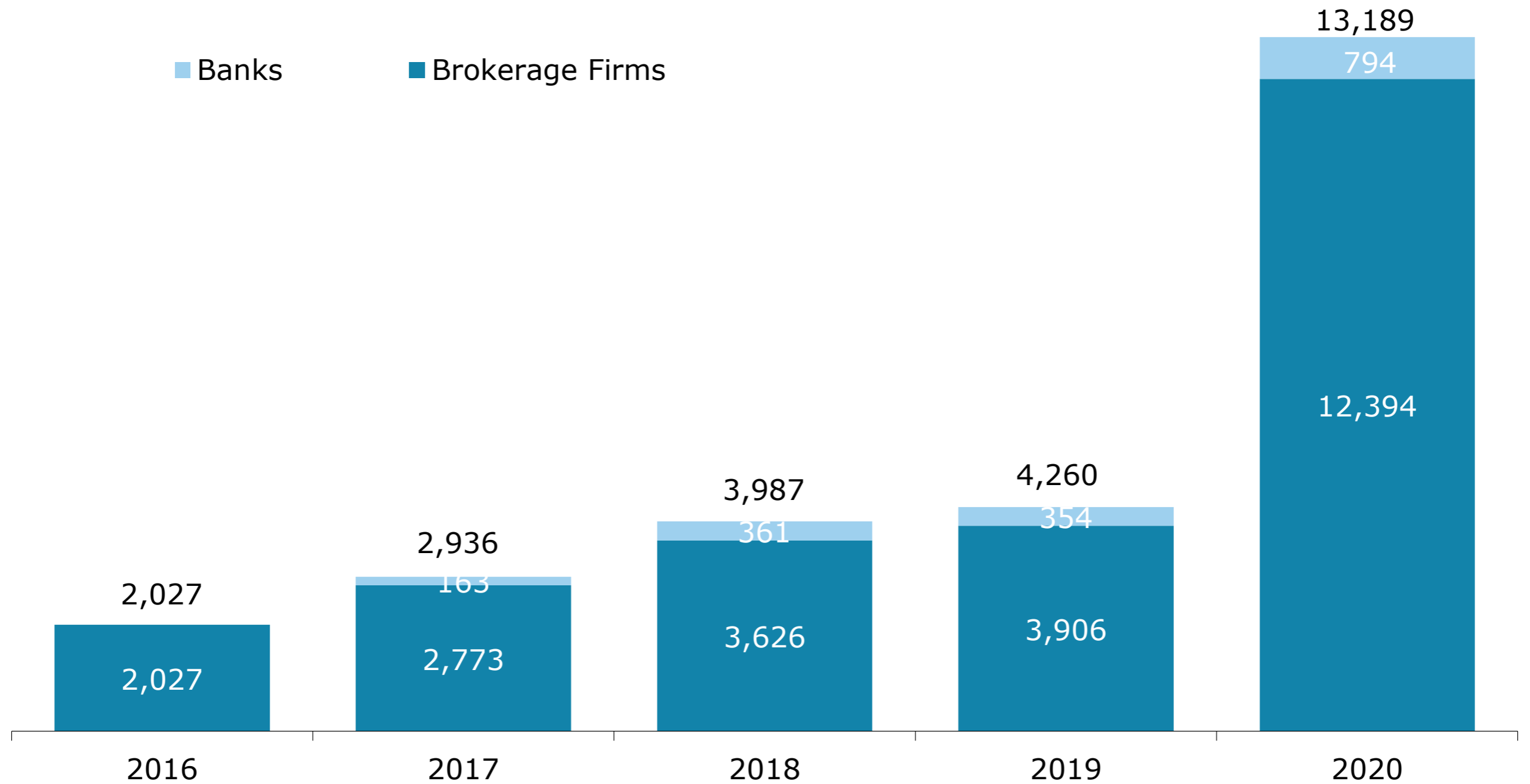
■ Brokerage Firms



Source: Borsa Istanbul

Excluding Central Bank and Takasbank

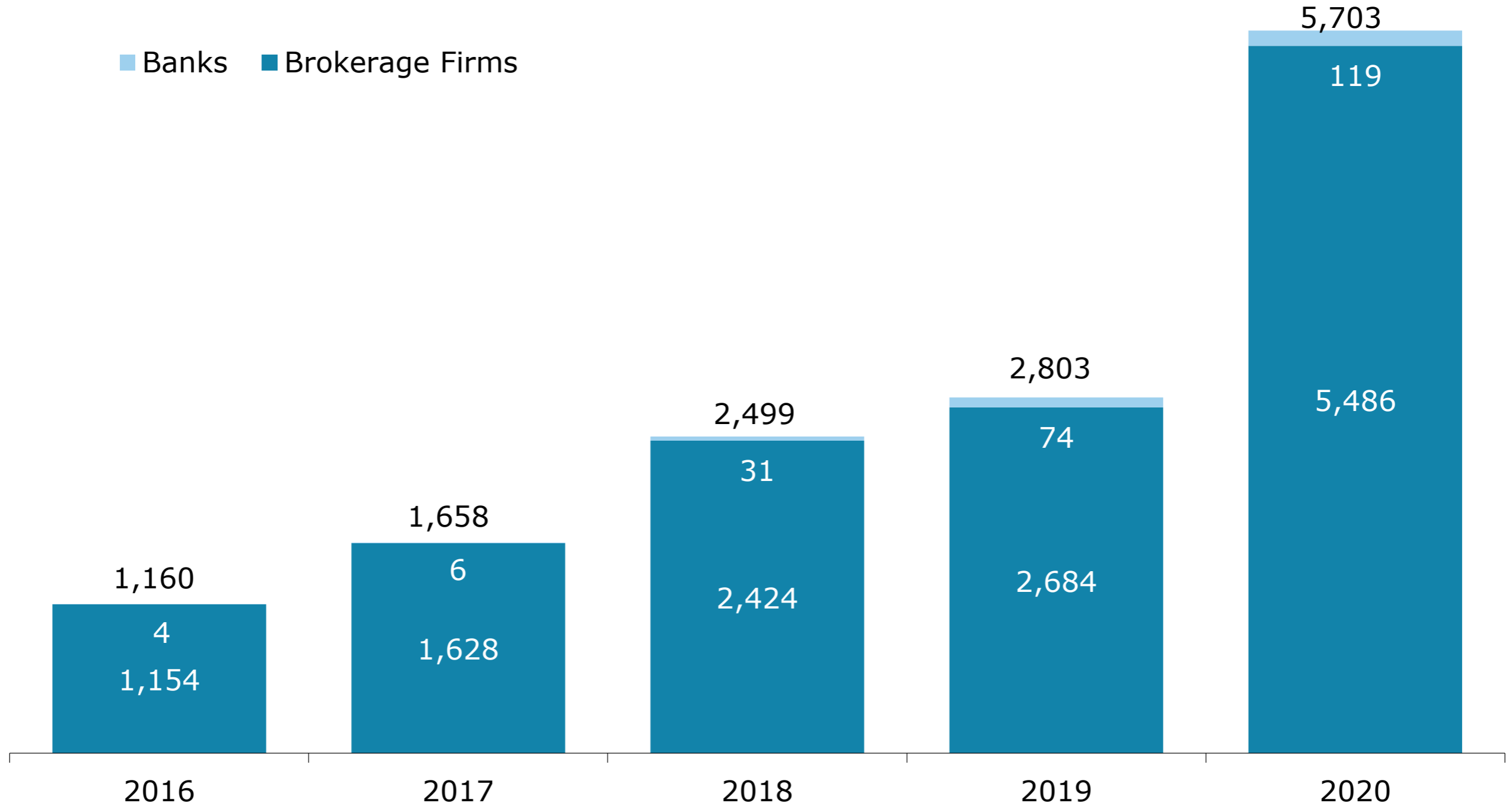
EQUITY TRADING VOLUME OF INTERMEDIARIES (BILLION TL)



Source: Borsa Istanbul

FUTURES TRADING VOLUME OF INTERMEDIARIES (BILLION TL)

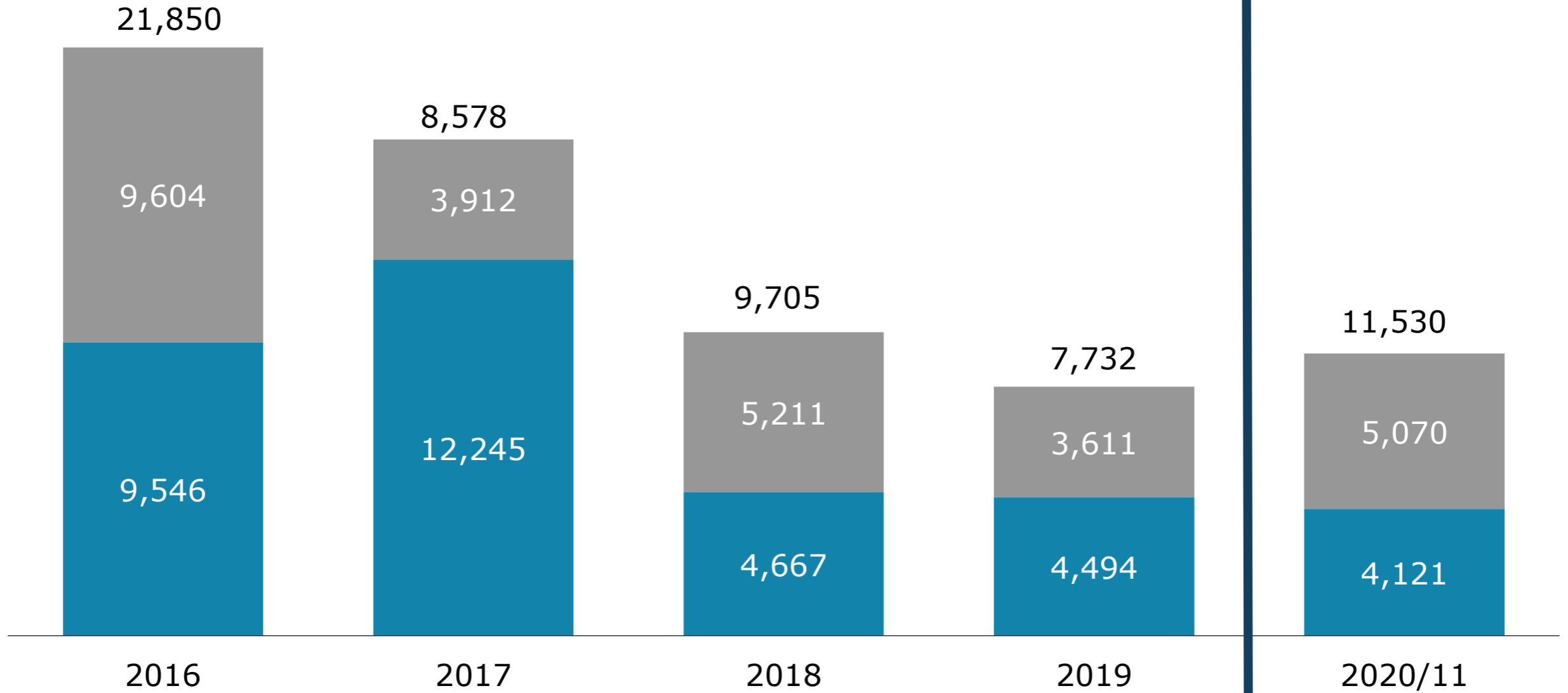
■ Banks ■ Brokerage Firms



Source: Borsa Istanbul

FOREX TRADING VOLUME (BILLION TL)

- Liquidity Provider
- Client

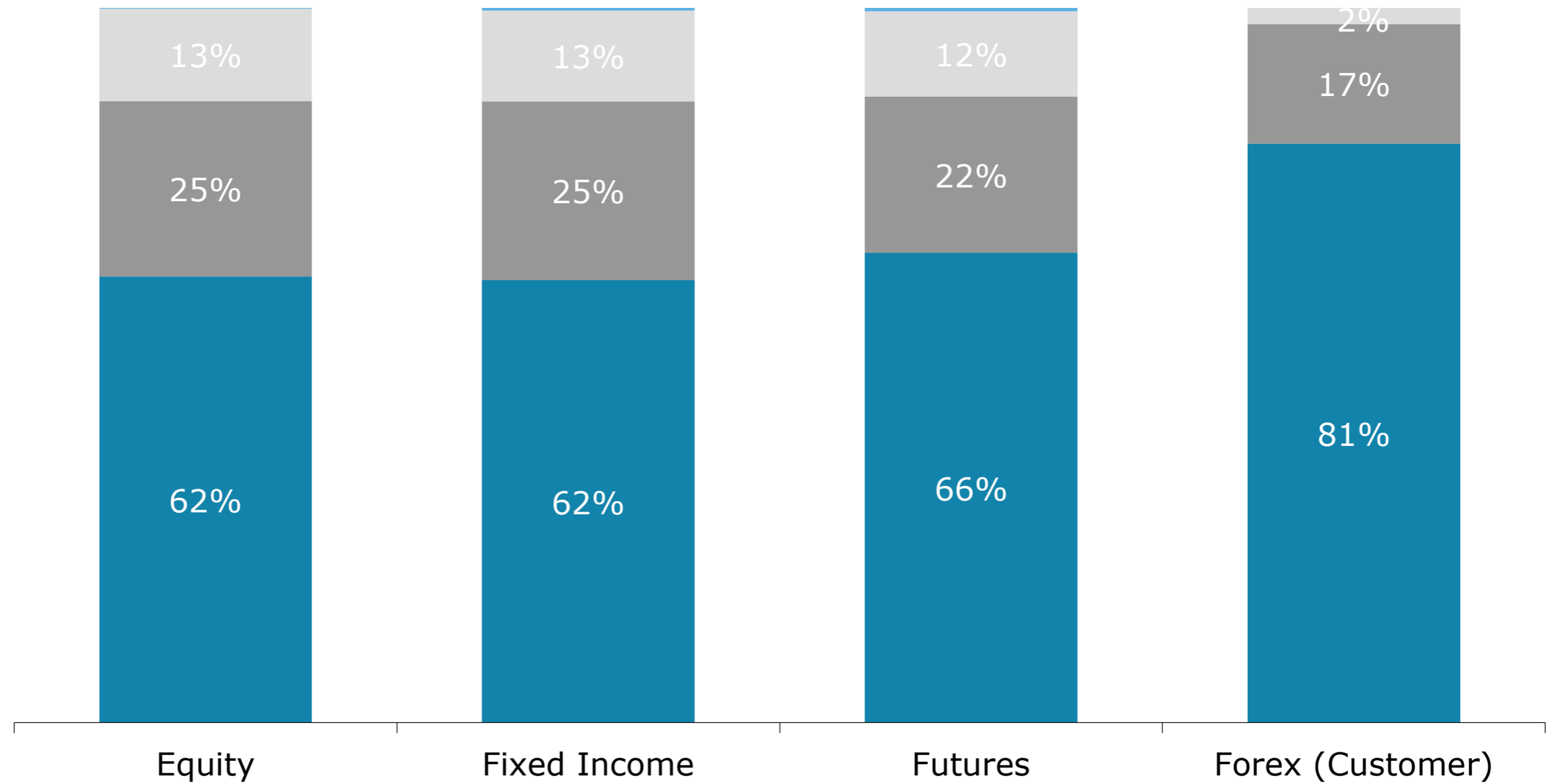


Source: TCMA

CONCENTRATION IN TRADING VOLUMES (2020)

No. of Intermediaries

■ 51+ ■ 21-50 ■ 11-20 ■ 1-10



Source: Borsa Istanbul, TCMA

TOP 10 MEMBERS IN THE MARKETS (2020)

Equity Market

1	YAPI KREDİ YATIRIM	14%
2	İŞ YATIRIM	10%
3	MERRILL LYNCH YATIRIM BANK	6%
4	GARANTİ YATIRIM	6%
5	AK YATIRIM	6%
6	QNB FİNANS YATIRIM	5%
7	GEDİK YATIRIM	5%
8	İNFO YATIRIM	4%
9	VAKIF YATIRIM	4%
10	A1 CAPITAL YATIRIM	4%
	Total (billion TL)	13,189

Futures Market

1	YAPI KREDİ YATIRIM	18%
2	İŞ YATIRIM	9%
3	QNB FİNANS YATIRIM	7%
4	GARANTİ YATIRIM	5%
5	İNFO YATIRIM	5%
6	TACİRLER MENKUL	5%
7	DENİZ YATIRIM	5%
8	AK YATIRIM	4%
9	TEB YATIRIM	4%
10	GEDİK YATIRIM	4%
	Total (billion TL)	5,703

Fixed Income Market

1	HSBC BANK	11%
2	TÜRKİYE GARANTİ BANKASI	9%
3	TÜRK EKONOMİ BANKASI	8%
4	AKBANK	6%
5	AK YATIRIM	6%
6	TÜRKİYE İŞ BANKASI	5%
7	AKTİF YATIRIM BANKASI	5%
8	JPMORGAN CHASE BANK	4%
9	YAPI VE KREDİ BANKASI	4%
10	TÜRKİYE VAKIFLAR BANKASI	4%
	Total (trillion TL)	1,378

Forex Market* (Customer)

1	AK YATIRIM	15%
2	İŞ YATIRIM	13%
3	GCM	13%
4	MEKSA YATIRIM	13%
5	İNTEGRAL YATIRIM	8%
6	İNFO YATIRIM	5%
7	GEDİK YATIRIM	4%
8	İŞİK	3%
9	DENİZ YATIRIM	3%
10	ALB	3%
	Total (billion TL)	6,460

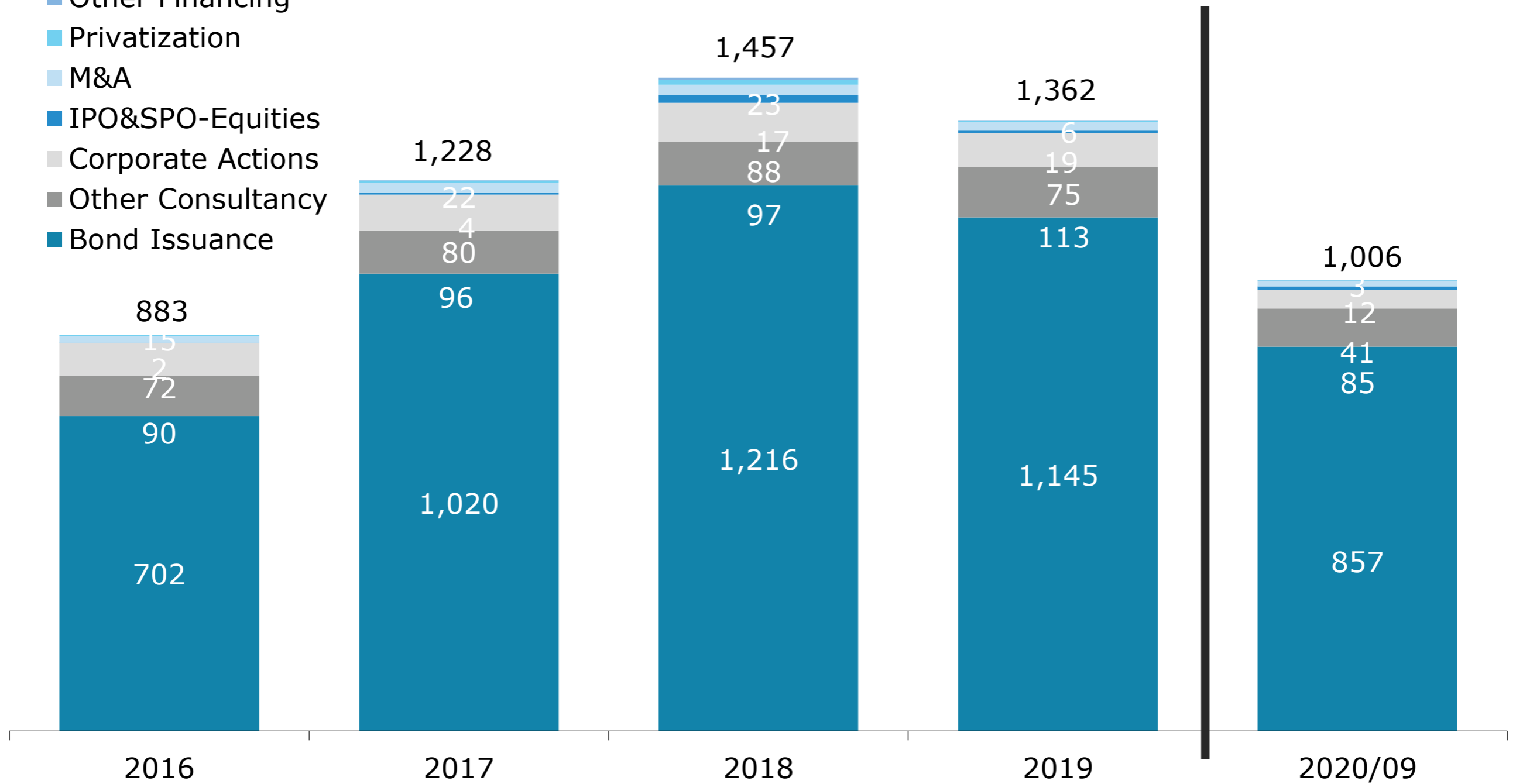
Source: Borsa Istanbul, TCMA

Fixed Income excluding Central Bank and Takasbank

*As of November 2020

NUMBER OF FINALIZED CORPORATE FINANCE DEALS (BROKERAGE FIRMS ONLY)

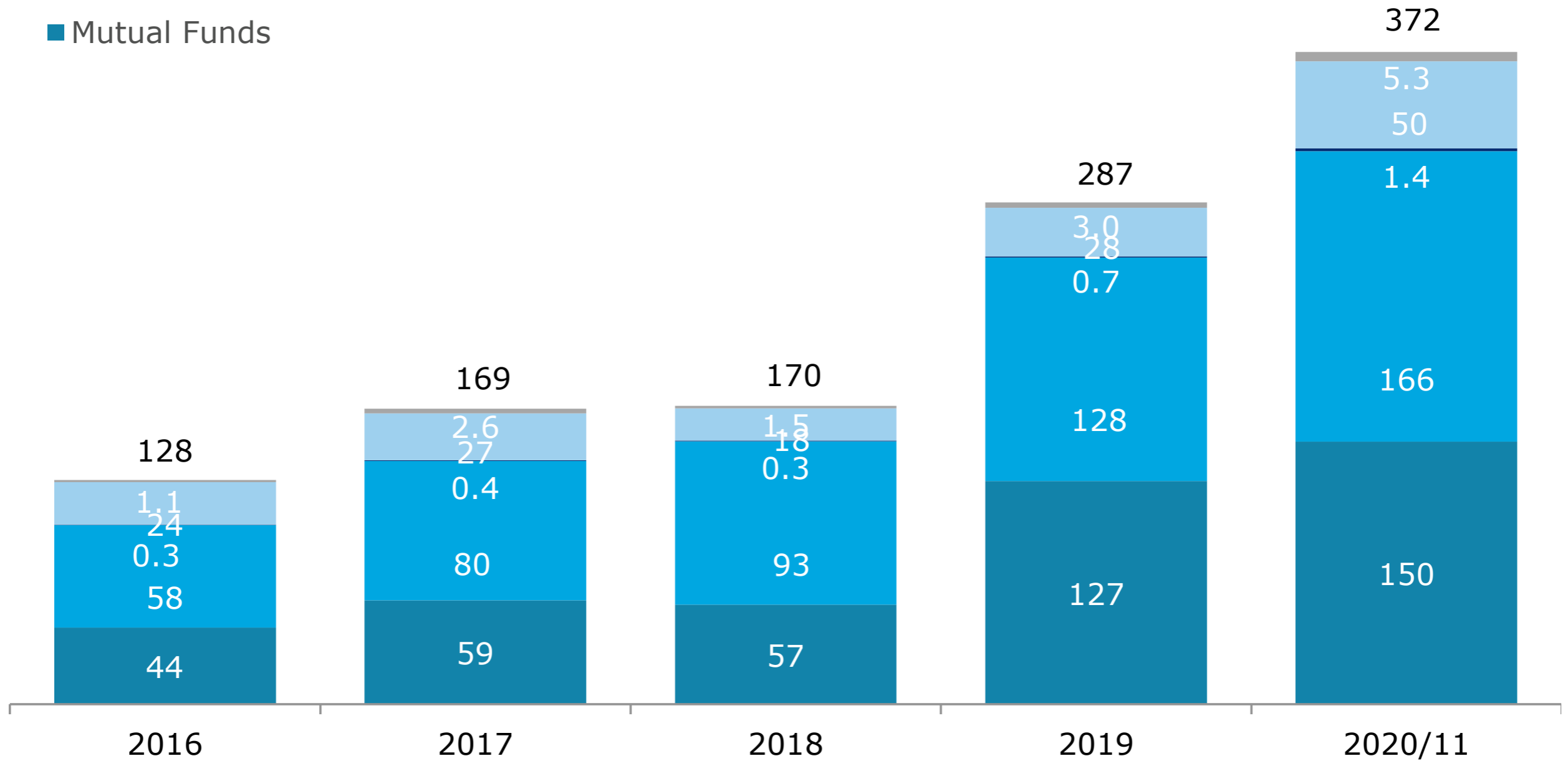
- Other Financing
- Privatization
- M&A
- IPO&SPO-Equities
- Corporate Actions
- Other Consultancy
- Bond Issuance



Source: TCMA

INSTITUTIONAL INVESTMENTS (BILLION TL)

- Venture Capital Inv. Trusts
- Investment Trusts
- Mutual Funds
- REITs
- Pension Funds

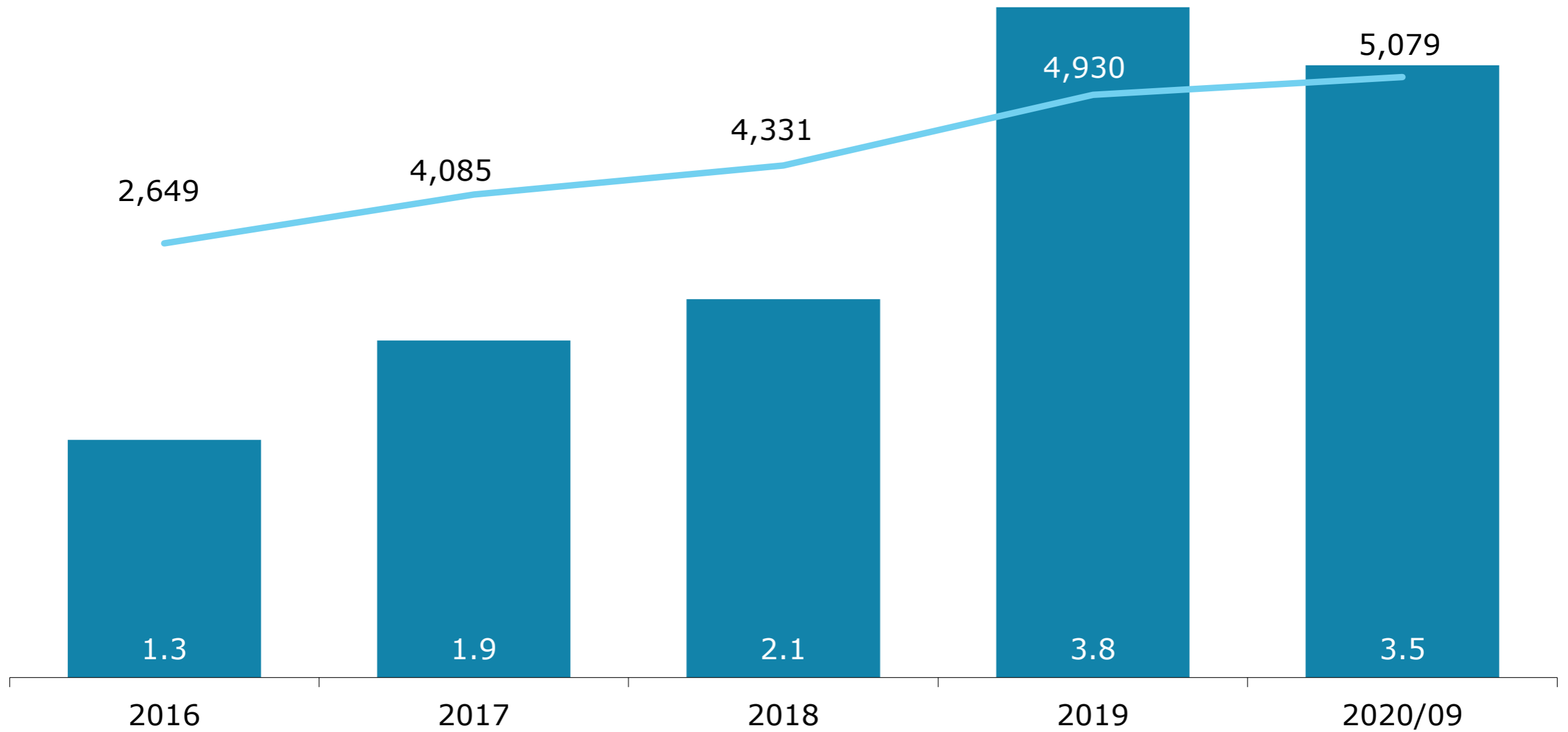


Source: Borsa Istanbul, TCMA

ASSET MANAGEMENT BY BROKERAGE FIRMS

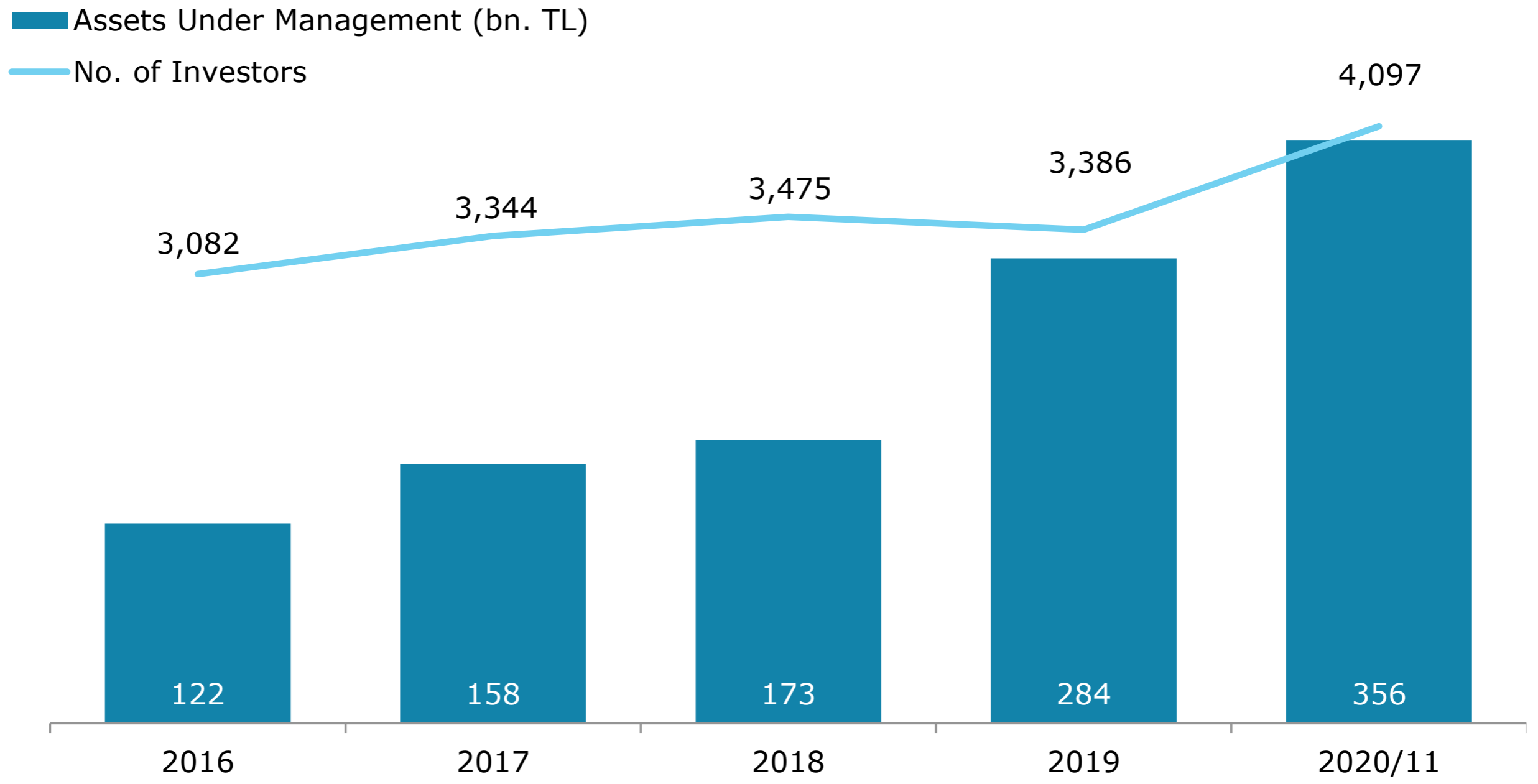
■ Assets Under Management (bn. TL)

— No. of Investors



Source: TCMA

ASSET MANAGEMENT BY ASSET MANAGEMENT COMPANIES

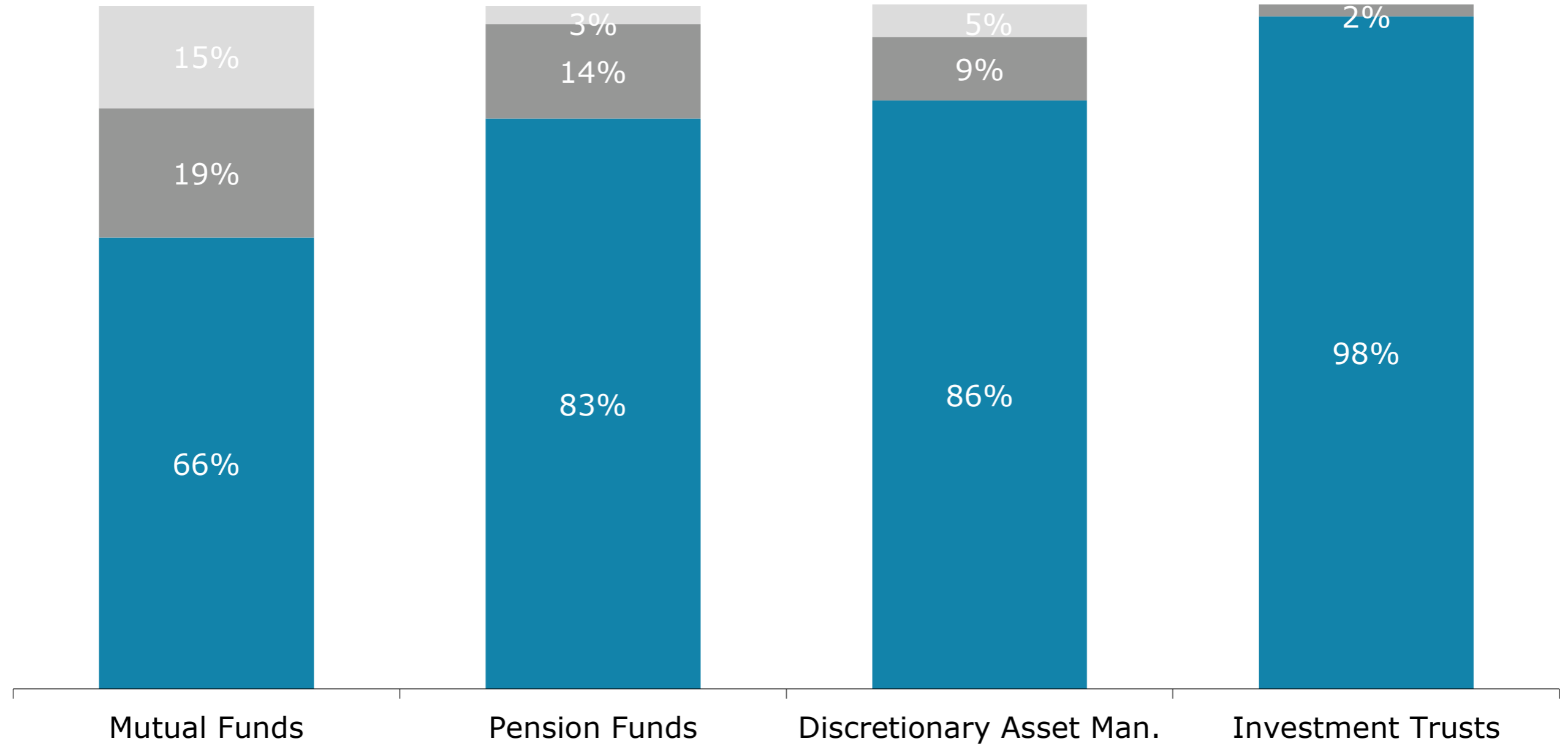


Source: CMB, TCMA

CONCENTRATION IN PORTFOLIO MANAGEMENT FIRMS (2020 NOVEMBER)

Number of Asset Management Companies

■ 10+ ■ 6-10 ■ 1-5



Source: TCMA

TOP 5 MEMBERS IN PORTFOLIO MANAGEMENT ACTIVITIES (2020 NOVEMBER)

Mutual Funds

1	İŞ PORTFÖY	17%
2	YAPI KREDİ	14%
3	ZİRAAT PORTFÖY	14%
4	AK PORTFÖY	13%
5	AZİMUT PORTFÖY	9%
	Total (billion TL)	149.8

Pension Funds

1	ZİRAAT PORTFÖY	21%
2	AK PORTFÖY	19%
3	İŞ PORTFÖY	17%
4	YAPI KREDİ PORTFÖY	13%
5	GARANTİ PORTFÖY	13%
	Total (billion TL)	166.0

Discretionary Asset Management

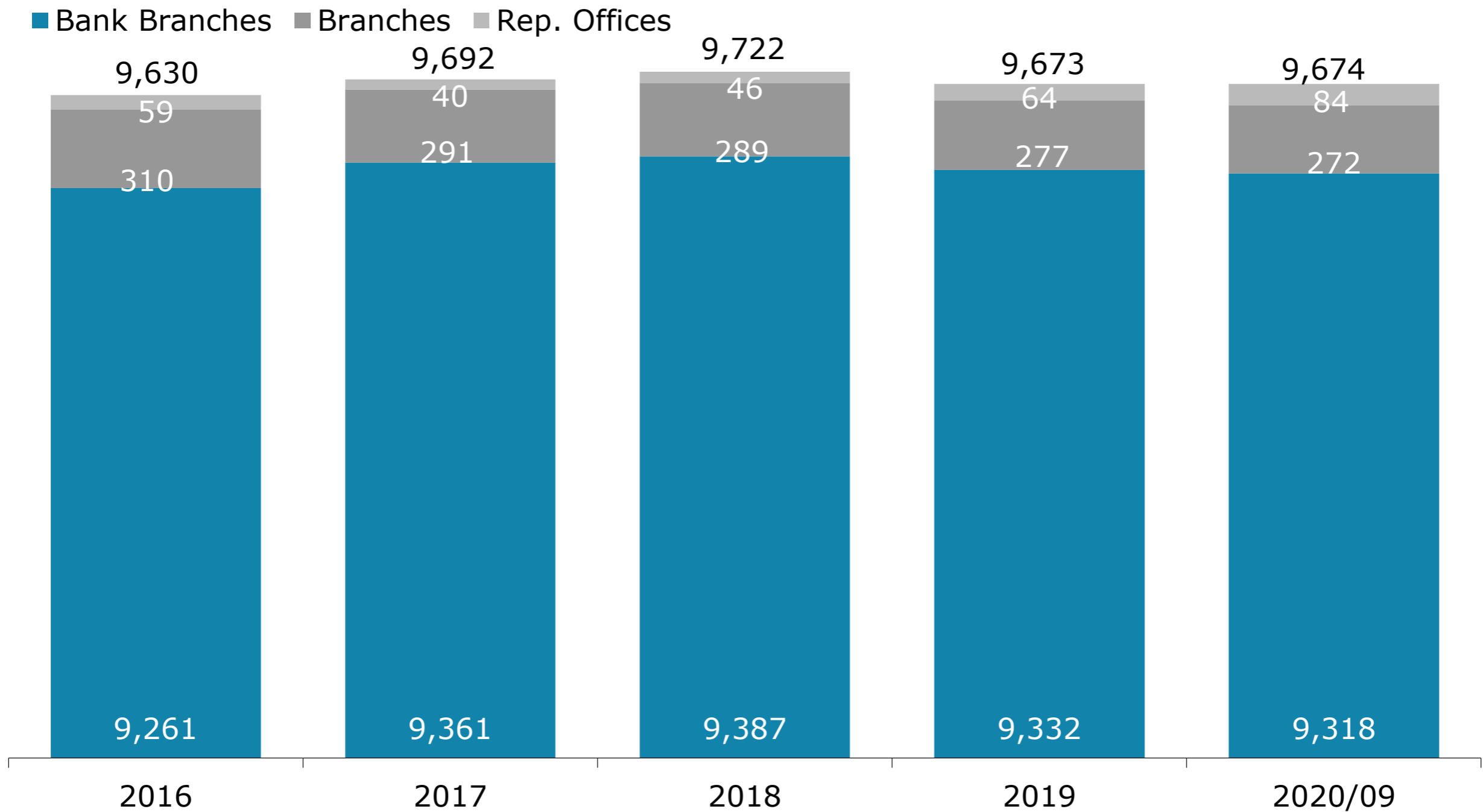
1	ZİRAAT PORTFÖY	24%
2	AK PORTFÖY	20%
3	AZİMUT PORTFÖY	19%
4	İŞ PORTFÖY	15%
5	İSTANBUL PORTFÖY	8%
	Total (billion TL)	39.9

Investment Trusts

1	METRO PORTFÖY	41%
2	İŞ PORTFÖY	35%
3	HEDEF PORTFÖY	12%
4	GARANTİ PORTFÖY	6%
5	OYAK PORTFÖY	5%
	Total (billion TL)	0.701

Source: TCMA

BROKERAGE FIRMS' BRANCH NETWORK

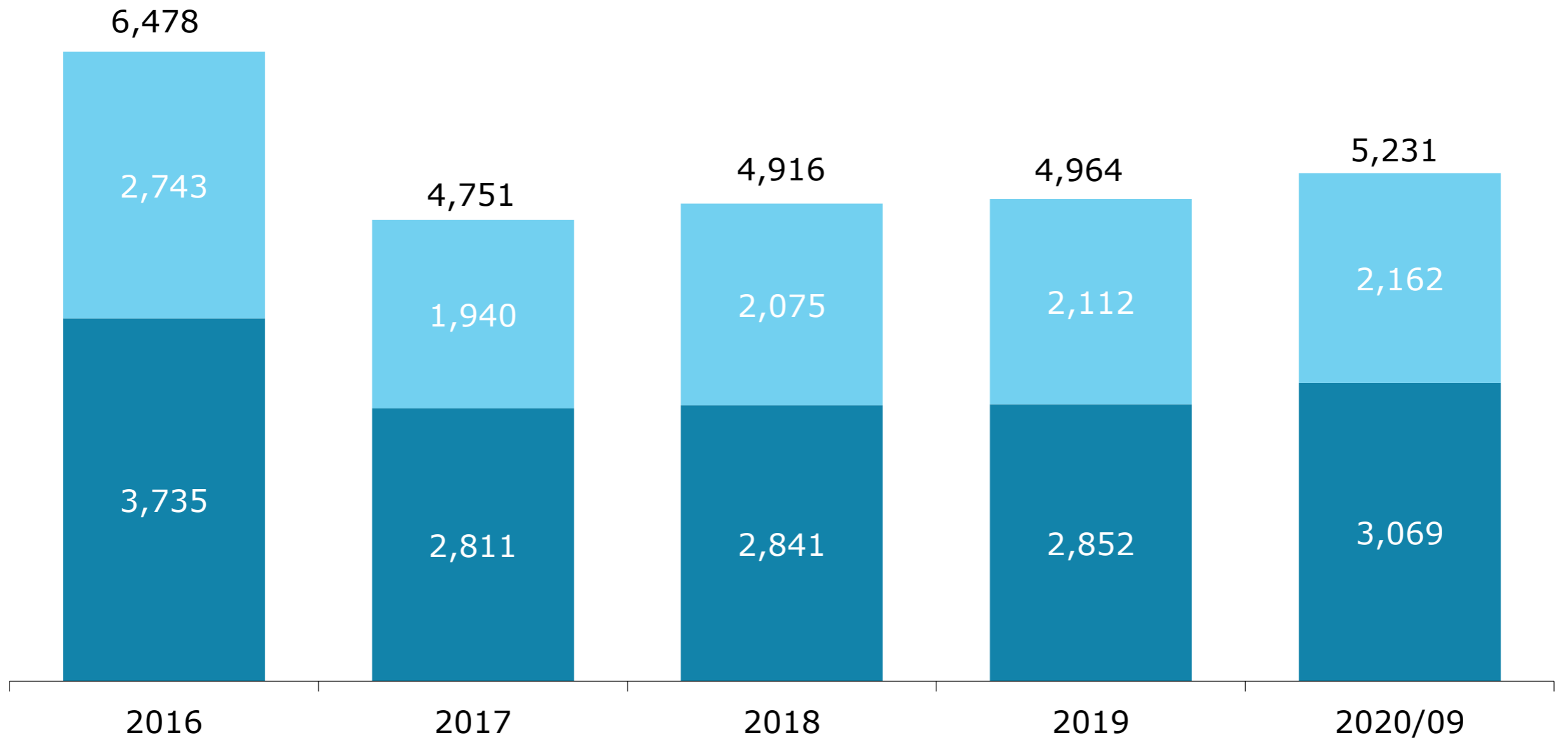


Source: TCMA

BROKERAGE FIRMS' EMPLOYEES

■ Male Employees

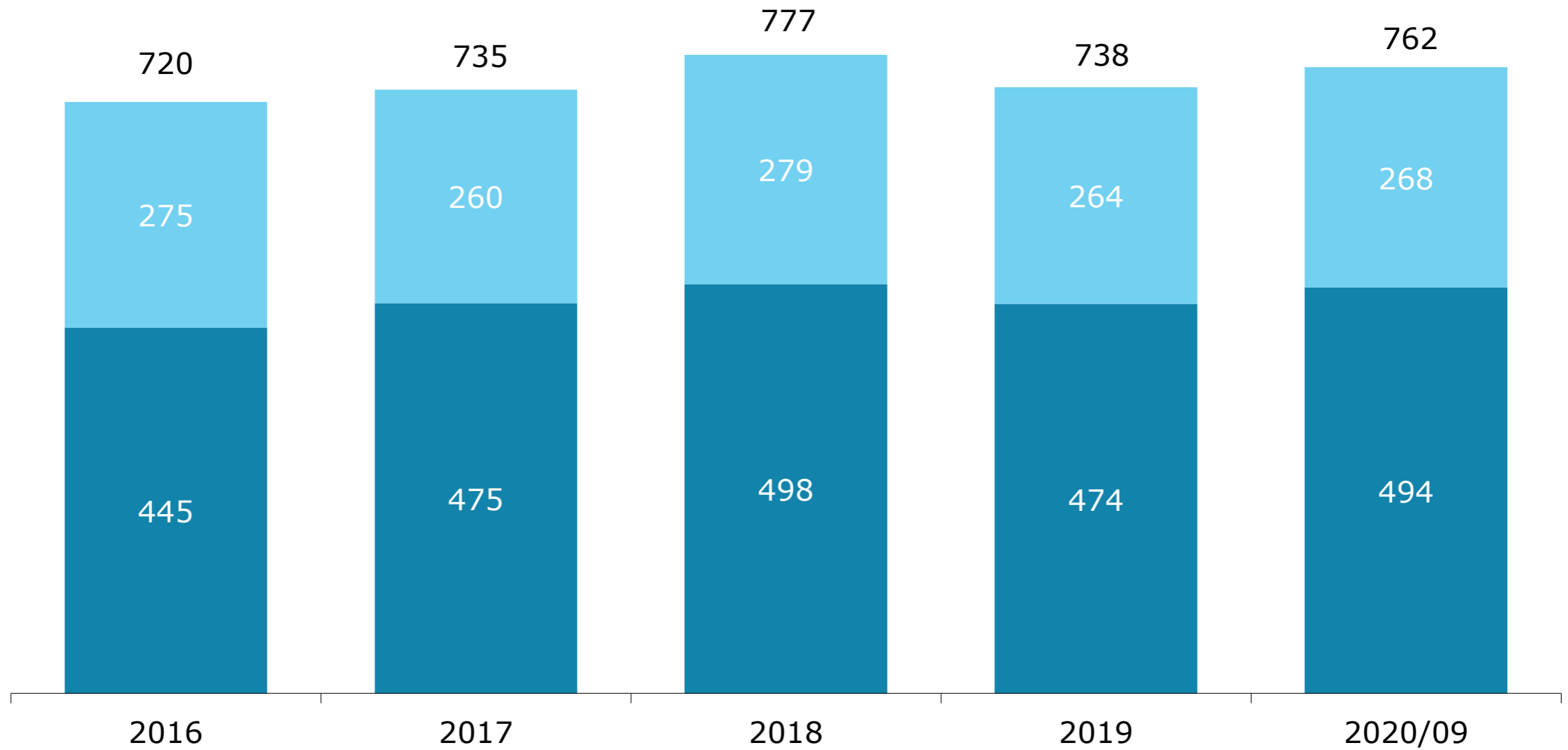
■ Female Employees



Source: TCMA

ASSET MANAGEMENT COMPANIES' EMPLOYEES

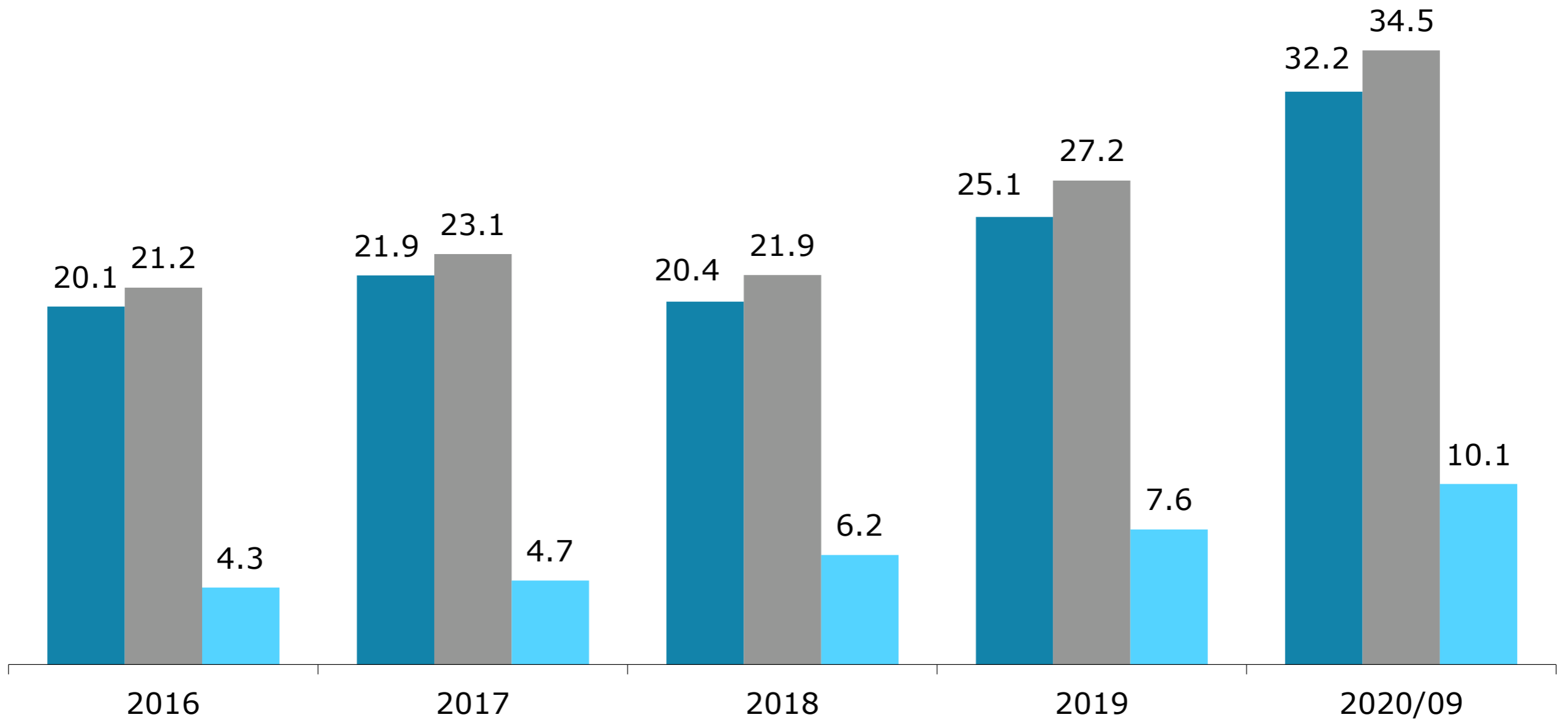
■ Male Employees ■ Female Employees



Source: TCMA

BALANCE SHEET OF BROKERAGE FIRMS (BILLION TL)

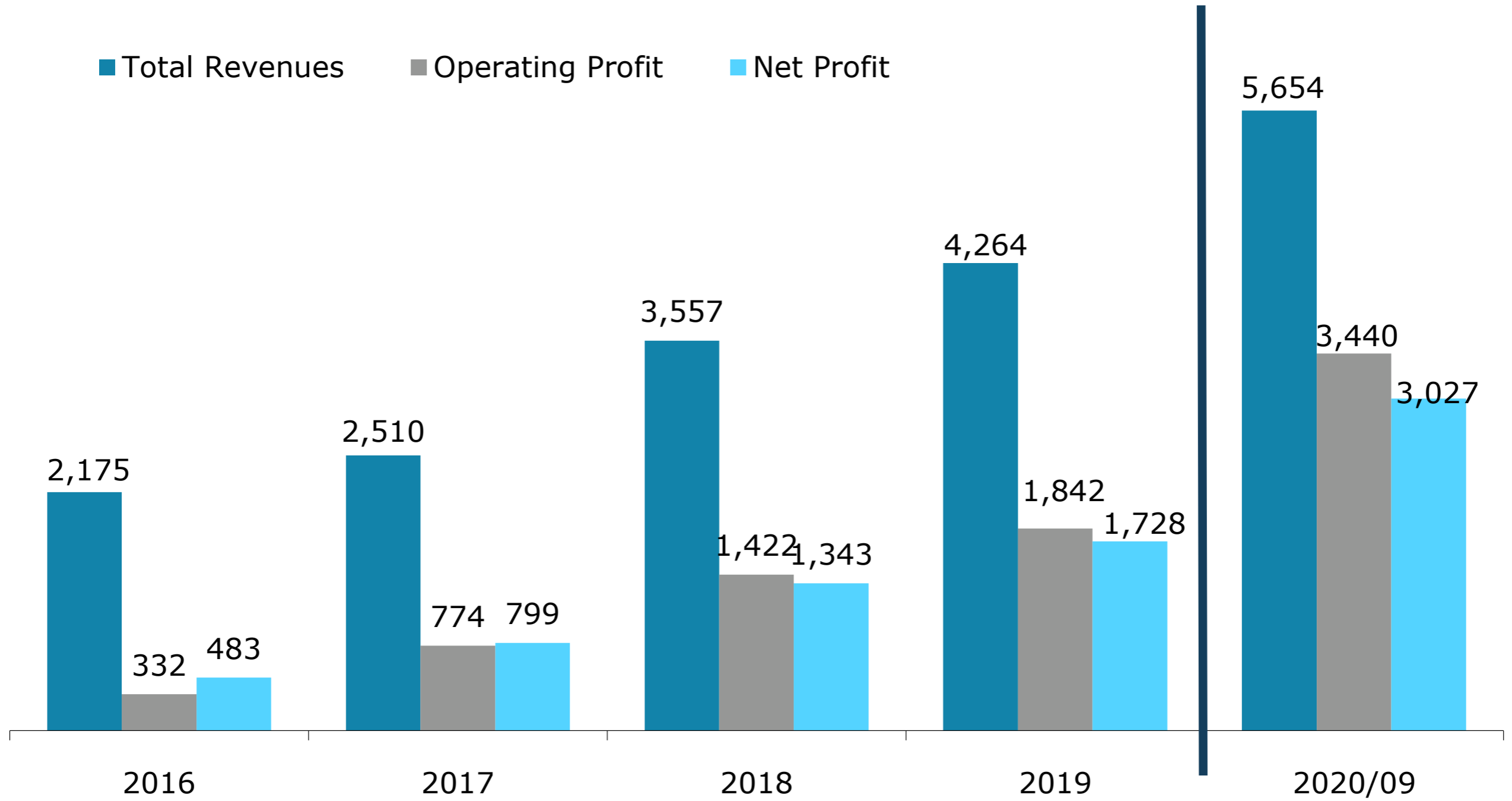
■ Current Assets ■ Total Assets ■ Shareholders' Equity



Source: TCMA

INCOME STATEMENT OF BROKERAGE FIRMS (MILLION TL)

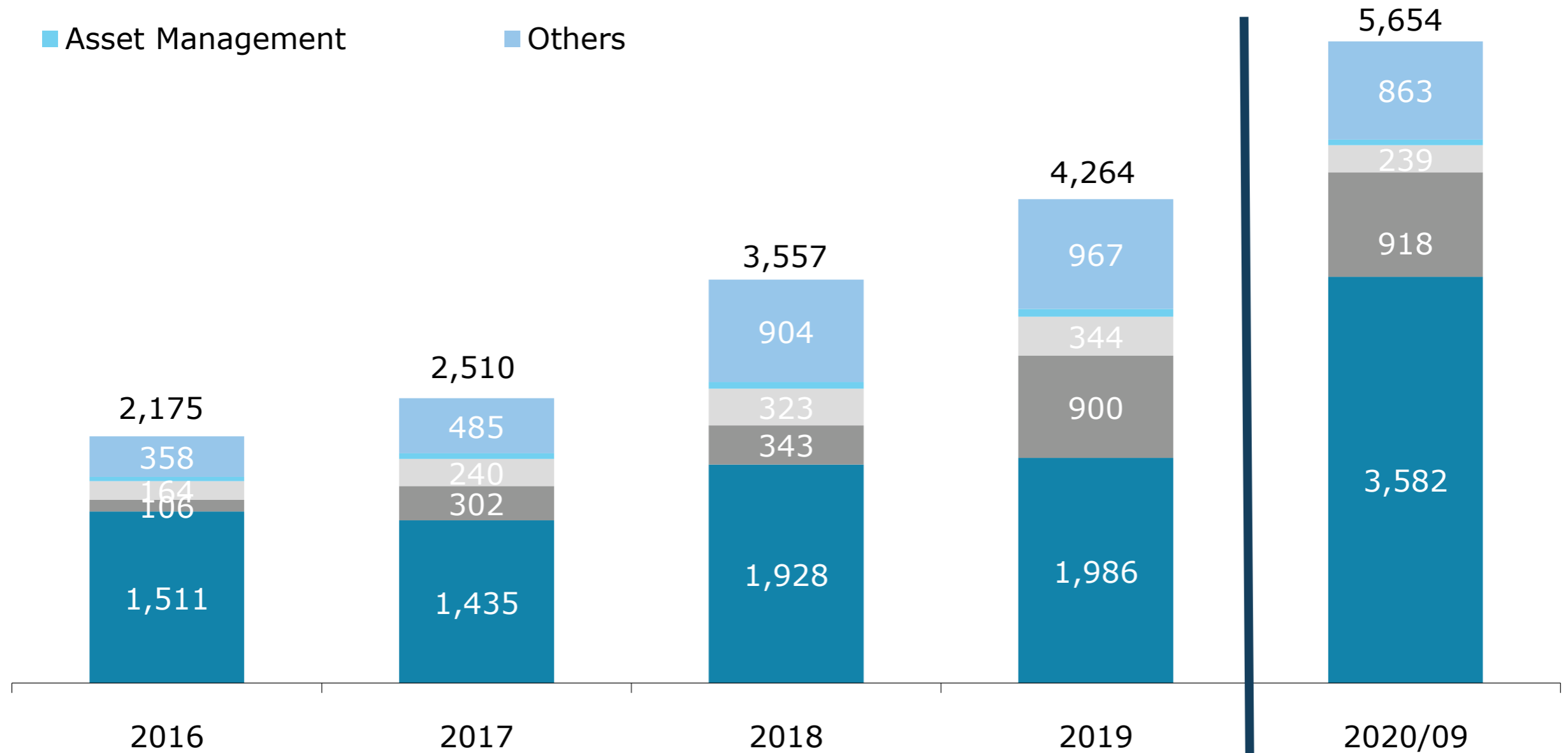
■ Total Revenues ■ Operating Profit ■ Net Profit



Source: TCMA

BREAKDOWN OF BROKERAGE FIRMS' REVENUES (MILLION TL)

- Brokerage Commissions
- Proprietary Trading Profits
- Corporate Finance
- Asset Management
- Others



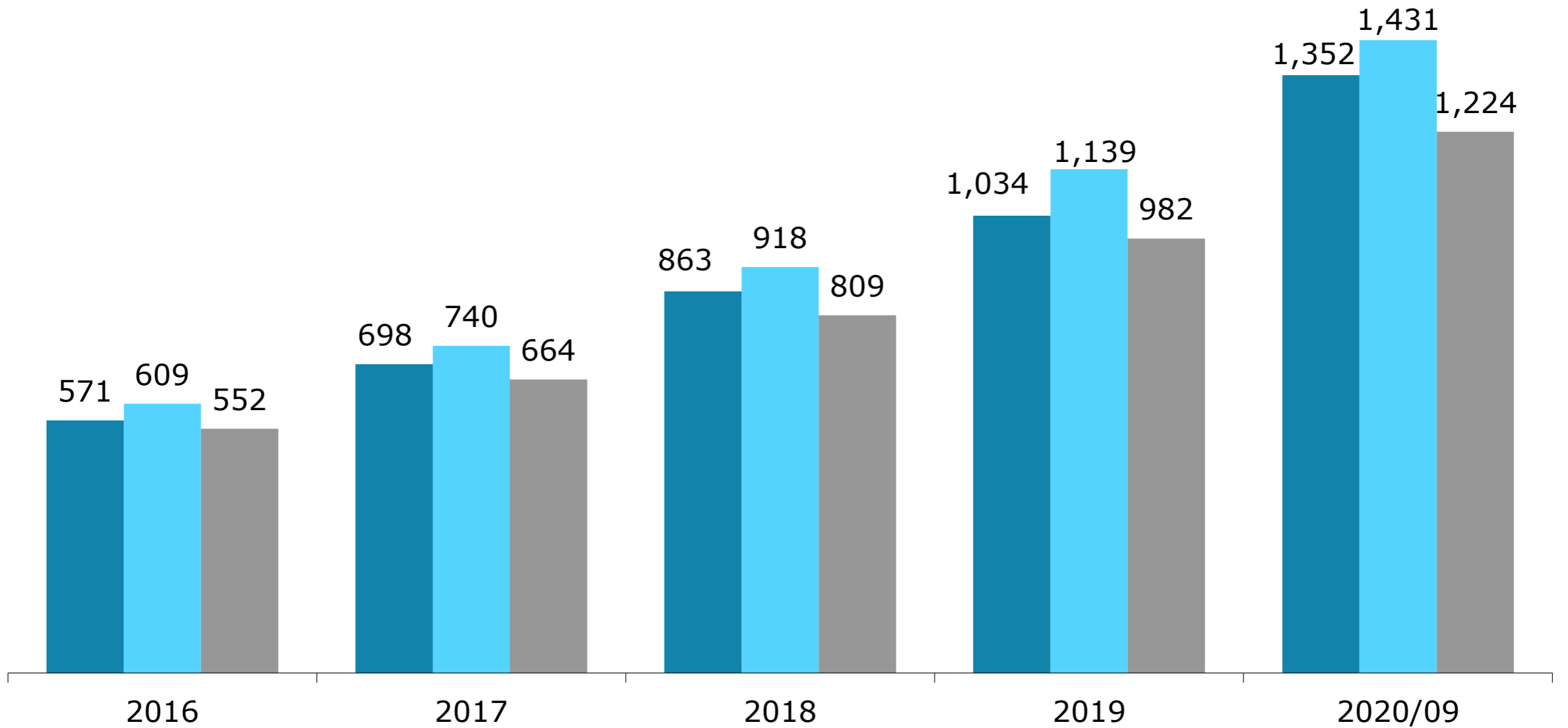
Source: TCMA

BALANCE SHEET OF ASSET MANAGEMENT COMPANIES (MILLION TL)

■ Current Assets

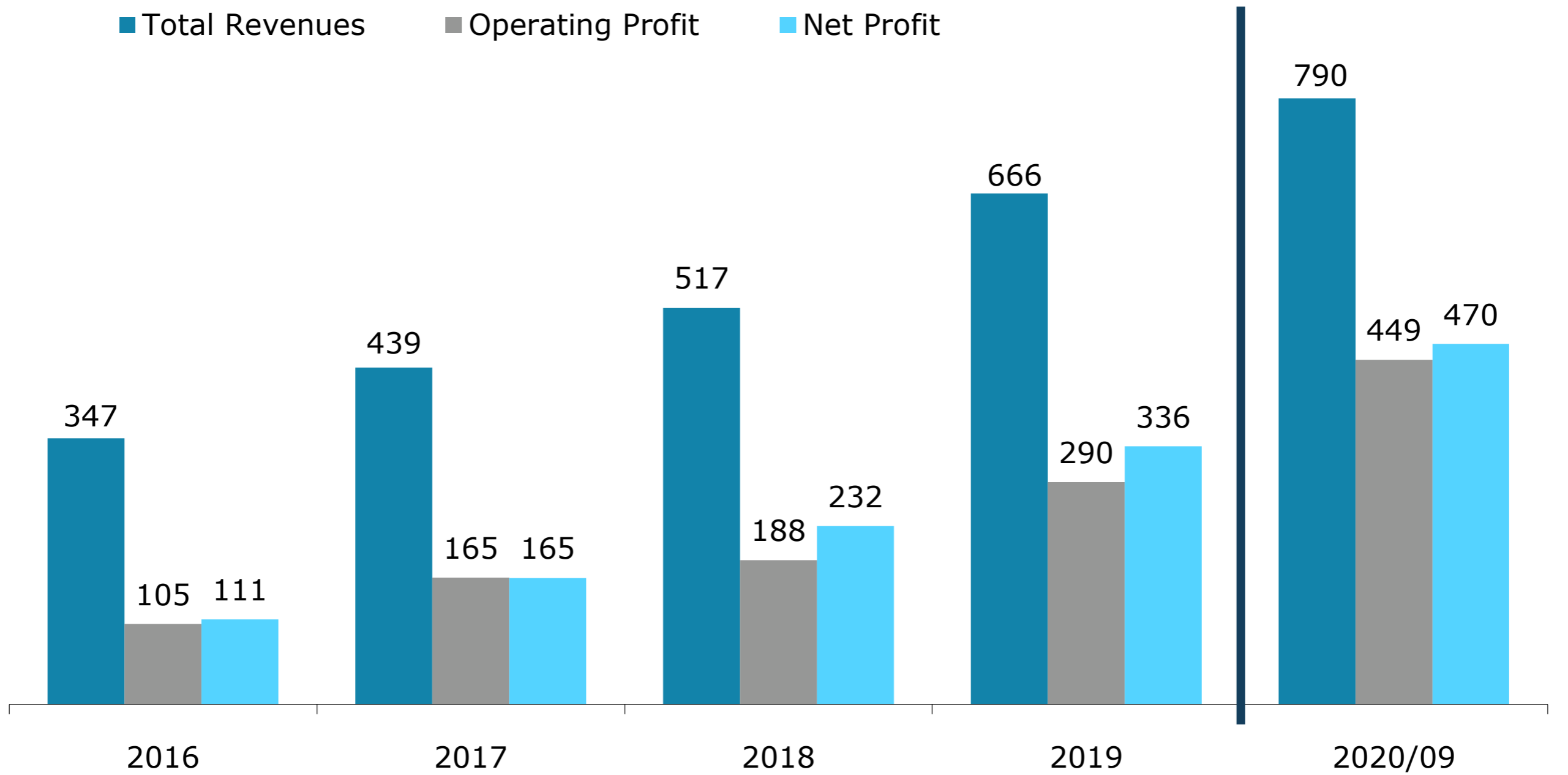
■ Total Assets

■ Shareholders' Equity



Source: TCMA

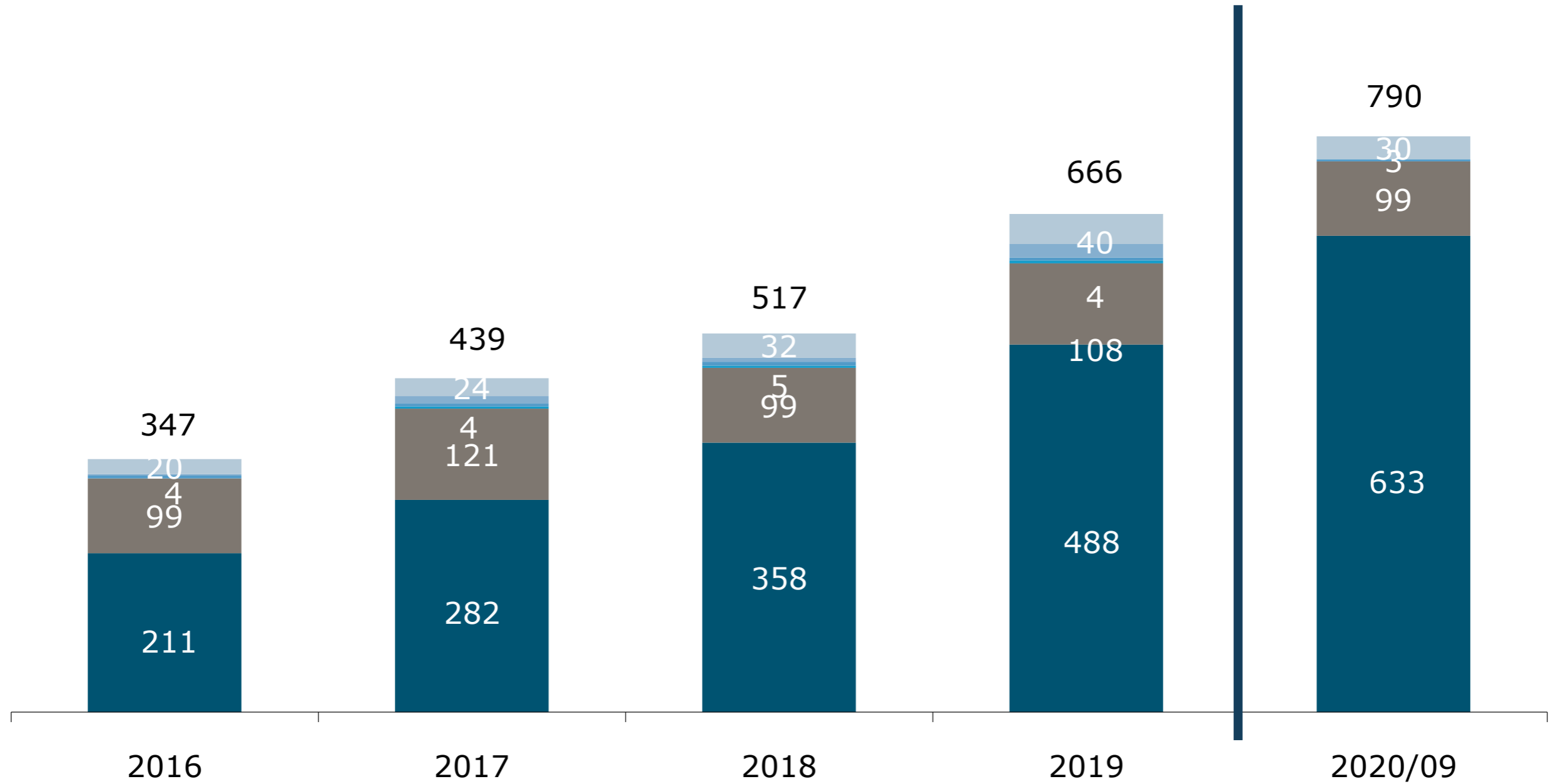
INCOME STATEMENT OF ASSET MANAGEMENT COMPANIES (MILLION TL)



Source: TCMA

BREAKDOWN OF ASSET MANAGEMENT COMPANIES' REVENUES (MILLION TL)

- Discretionary Asset Mgmt.
- Financial Advisory
- Pension Fund Mgmt.
- Other
- Investment Trust Mgmt.
- Mutual Fund Mgmt.

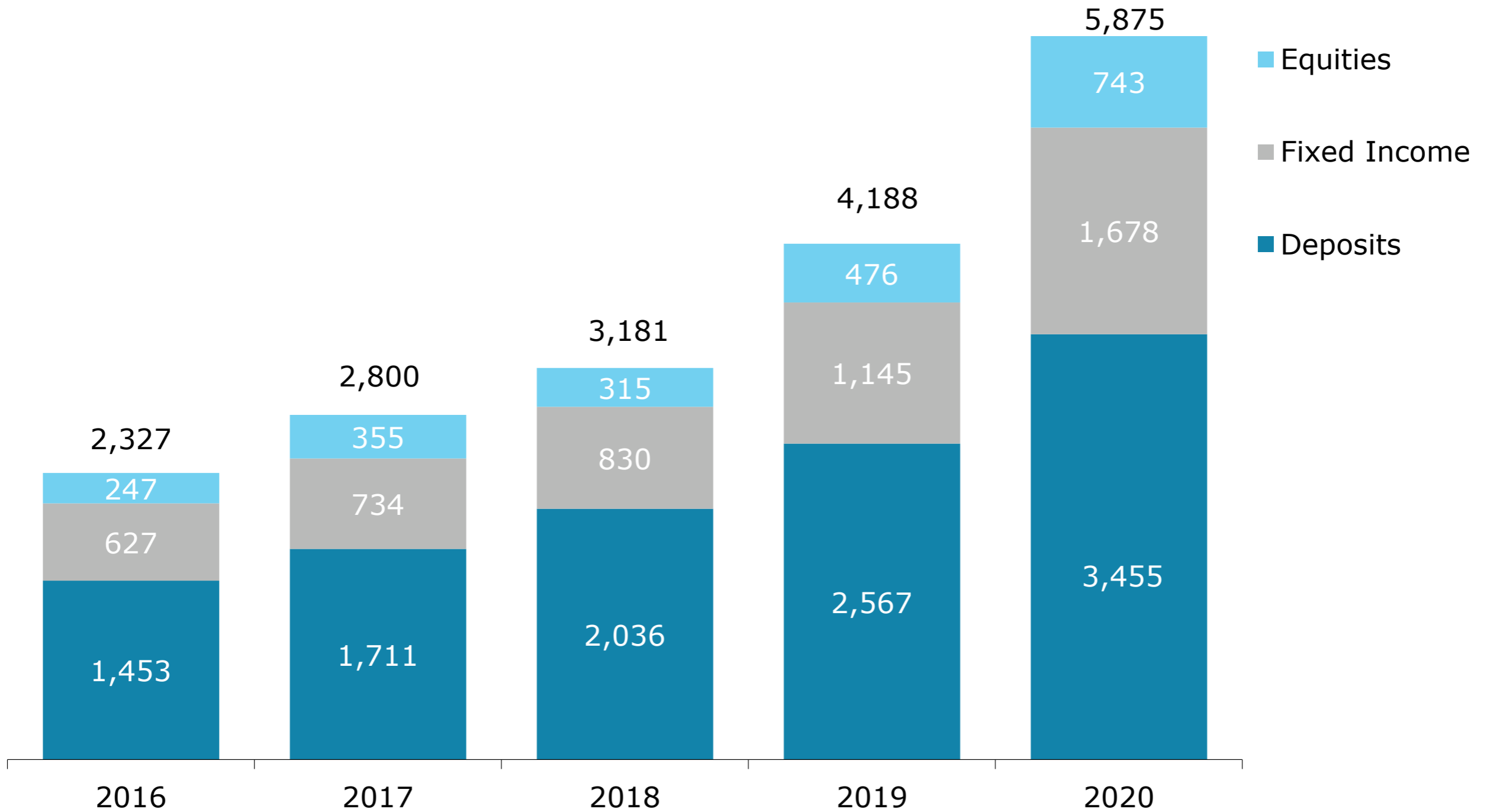


Source: TCMA

INVESTOR PROFILE

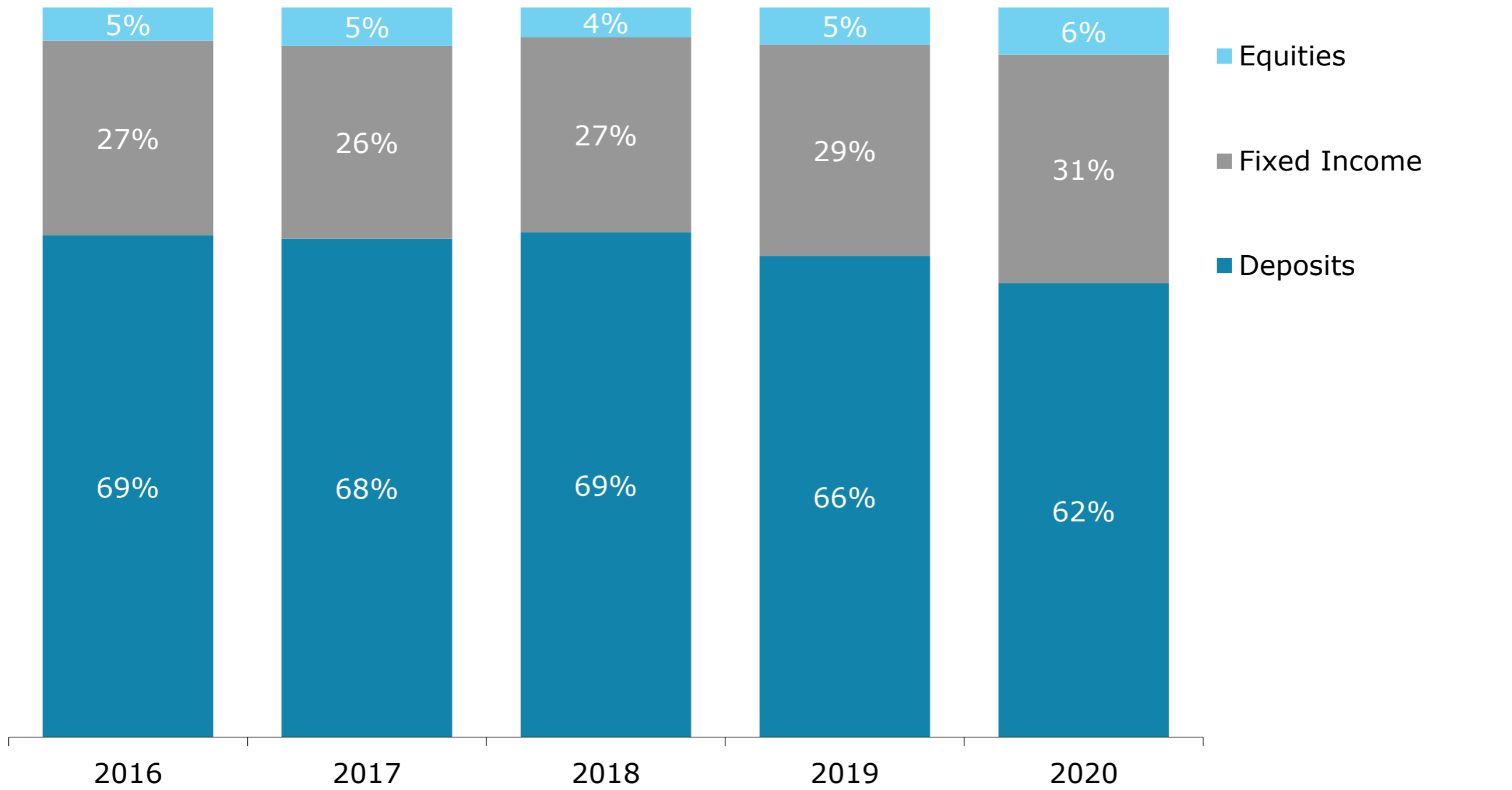


BREAKDOWN OF TOTAL SAVINGS (BILLION TL)



Source: BRSA, CRA, TCMA estimates

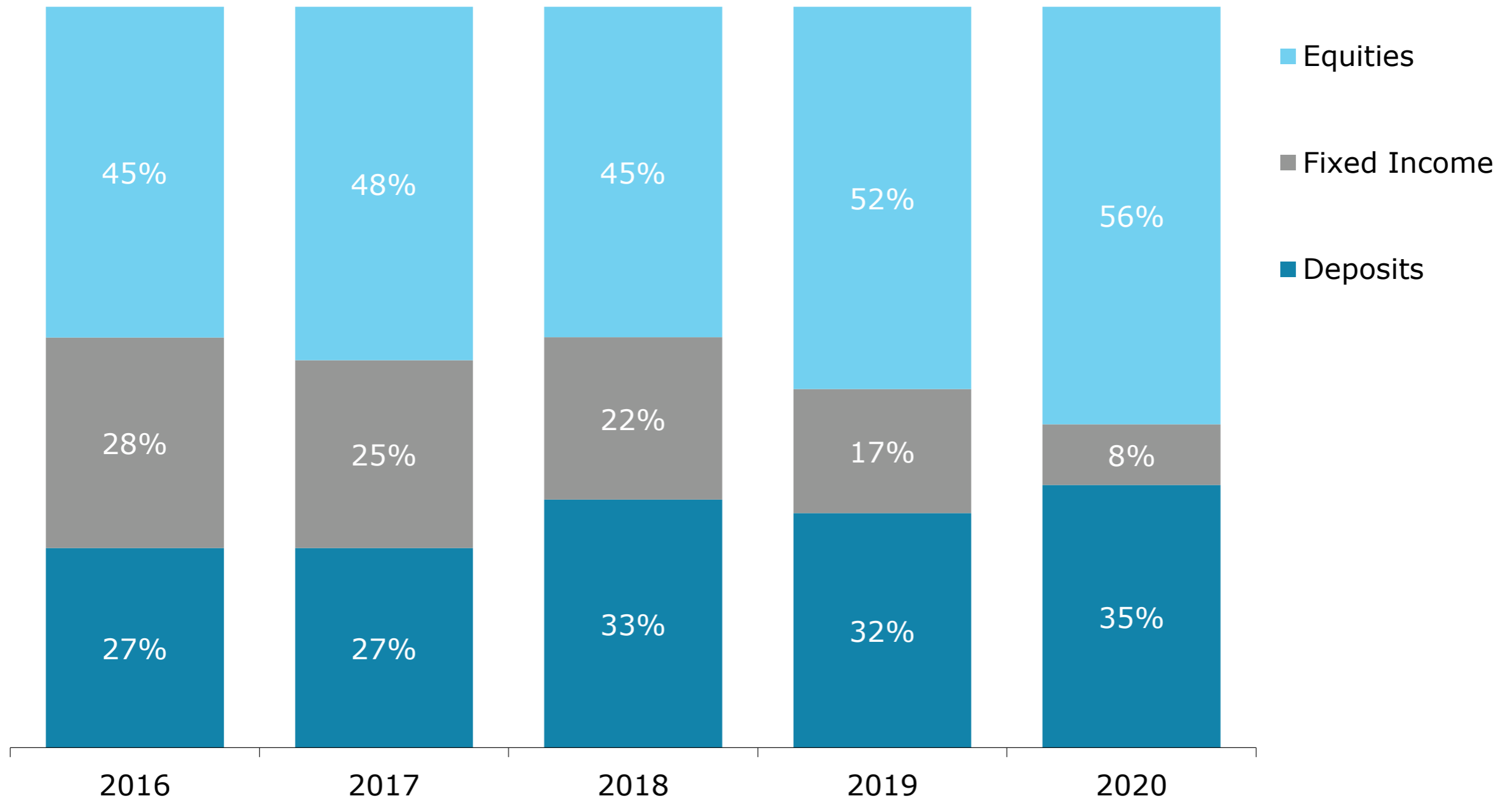
SAVINGS OF DOMESTIC INVESTORS



Source: BRSA, CRA, TCMA estimates

Total Domestic Inv. Savings as of December 2020: TL 5,2 trillion

SAVINGS OF FOREIGN INVESTORS



Source: BRSA, CRA, TCMA estimates

Total Foreign Investors' Savings as of
December 2020: TL 635 bn

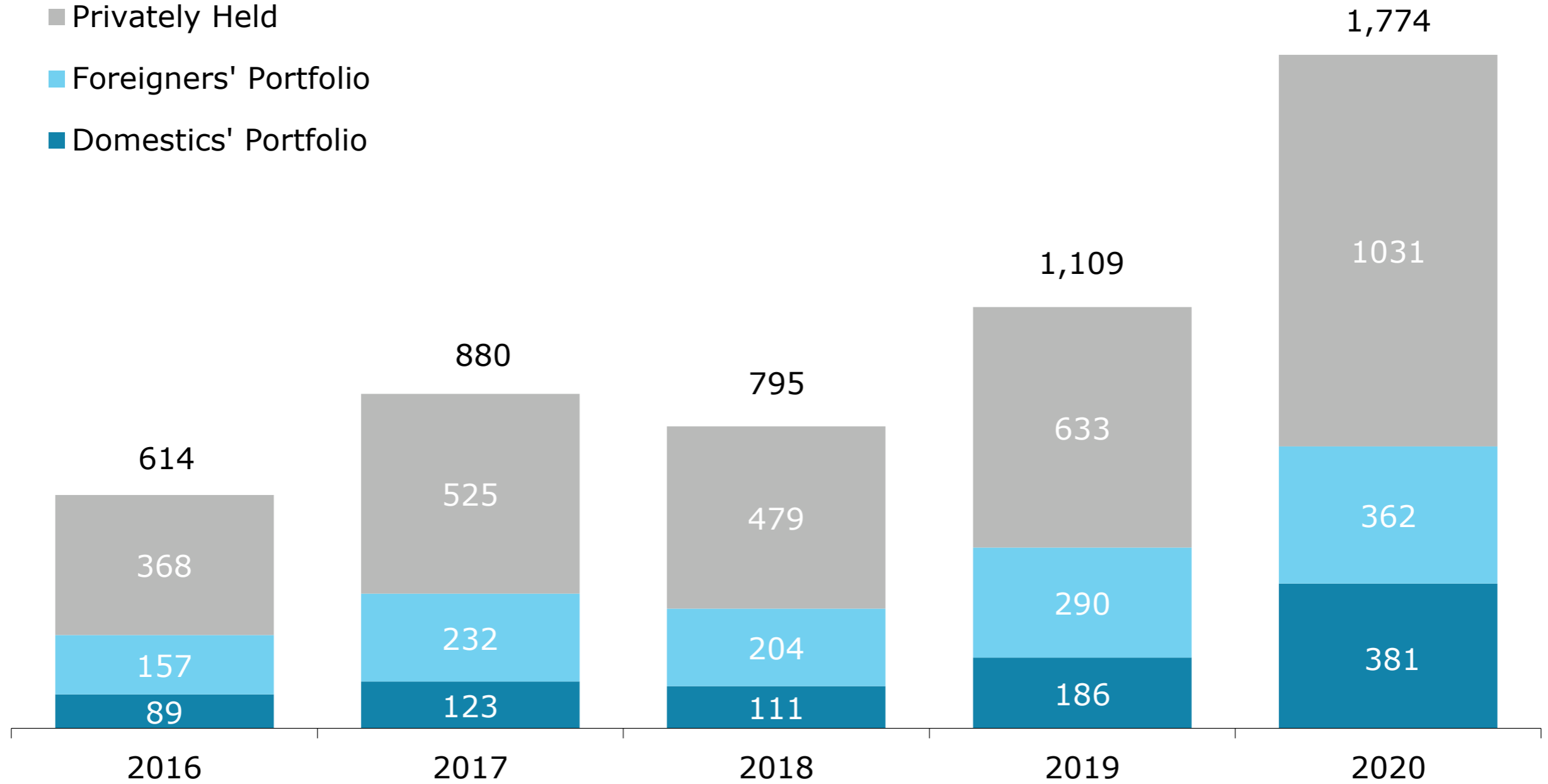
NUMBER OF EQUITY INVESTORS

Number of Equity Investors (thou.)	2016	2017	2018	2019	2020
Domestic Investors	1,049.2	1,031.3	1,081.3	1,193.7	1,977.0
Dom. Individuals	1,043.5	1,025.9	1,076.1	1,188.1	1,970.4
Dom. Corporations	5.0	4.7	4.6	4.9	5.7
Dom. Institutionals	0.7	0.7	0.7	0.7	0.8
Foreign Investors	9.8	9.5	9.6	9.7	12.0
For. Individuals	6.2	6.2	6.2	6.6	9.2
For. Corporations	1.5	1.4	1.5	1.4	1.3
For. Institutionals	2.1	1.9	1.9	1.7	1.5
Total	1,059.0	1,040.8	1,090.9	1,203.4	1,988.9

Source: CRA

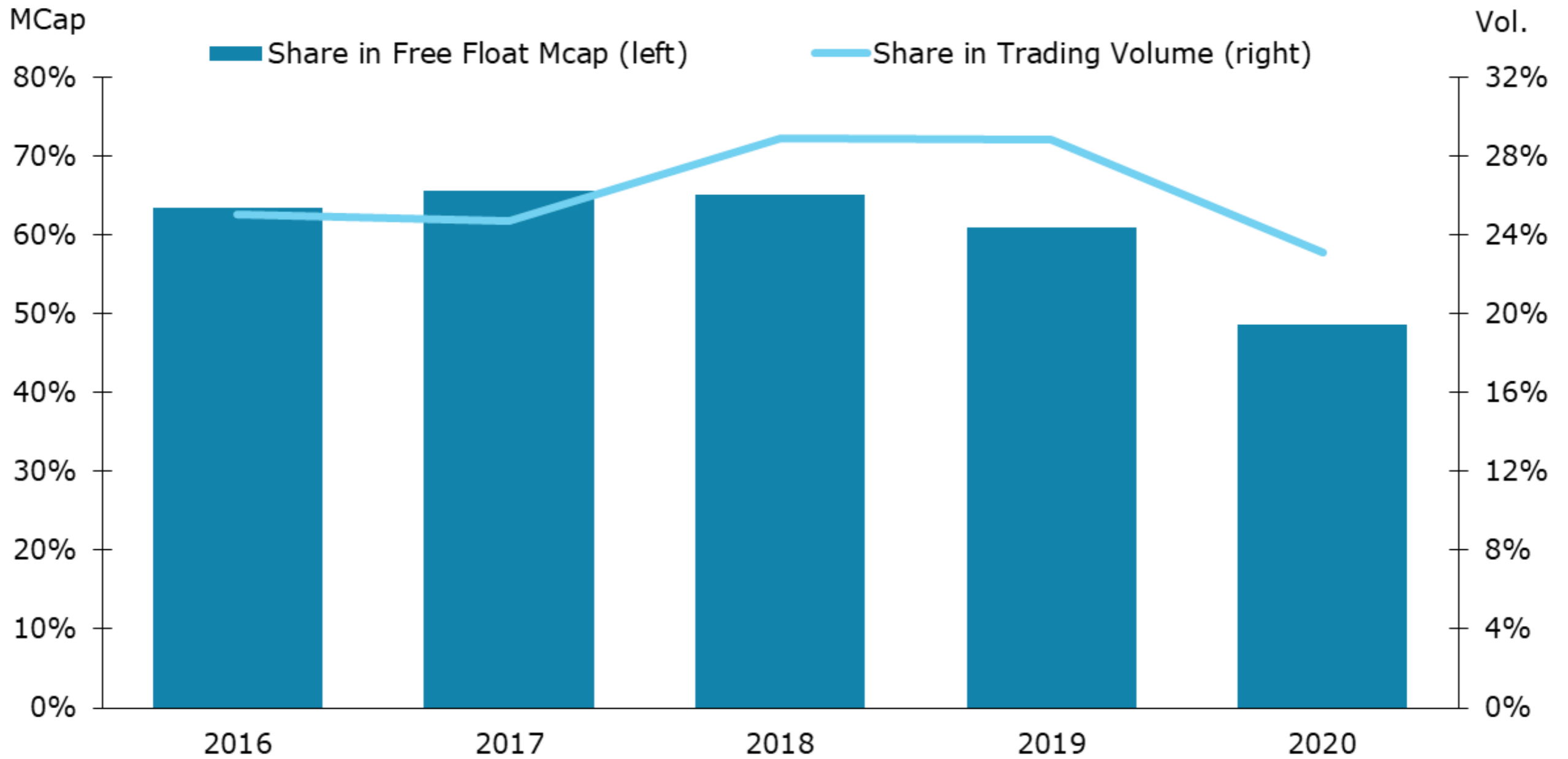
BREAKDOWN OF MARKET CAPITALIZATION (BILLION TL)

- Privately Held
- Foreigners' Portfolio
- Domestics' Portfolio



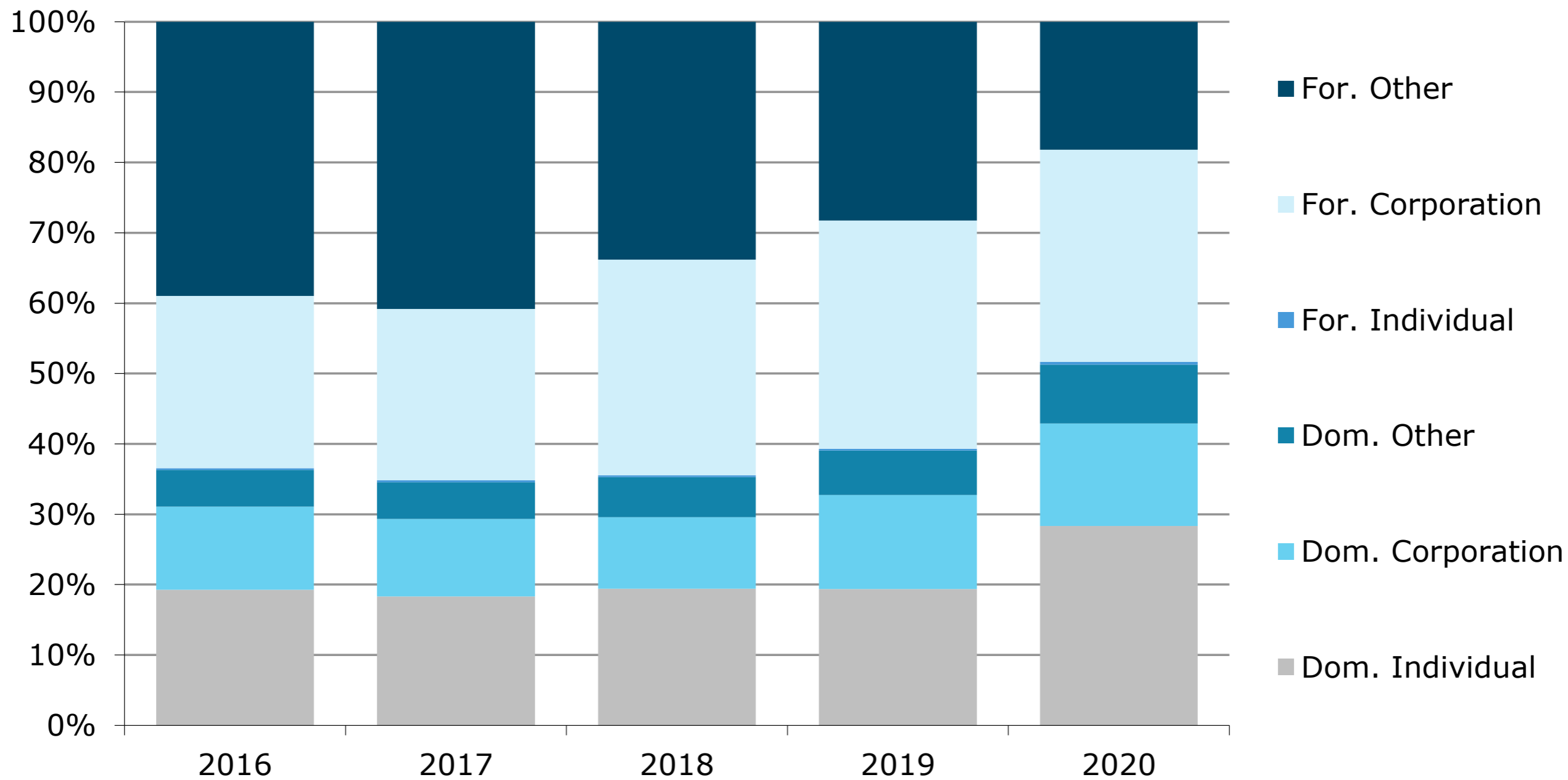
Source: CRA, Borsa Istanbul

SHARE OF FOREIGN INVESTORS



Source: CRA, Borsa Istanbul

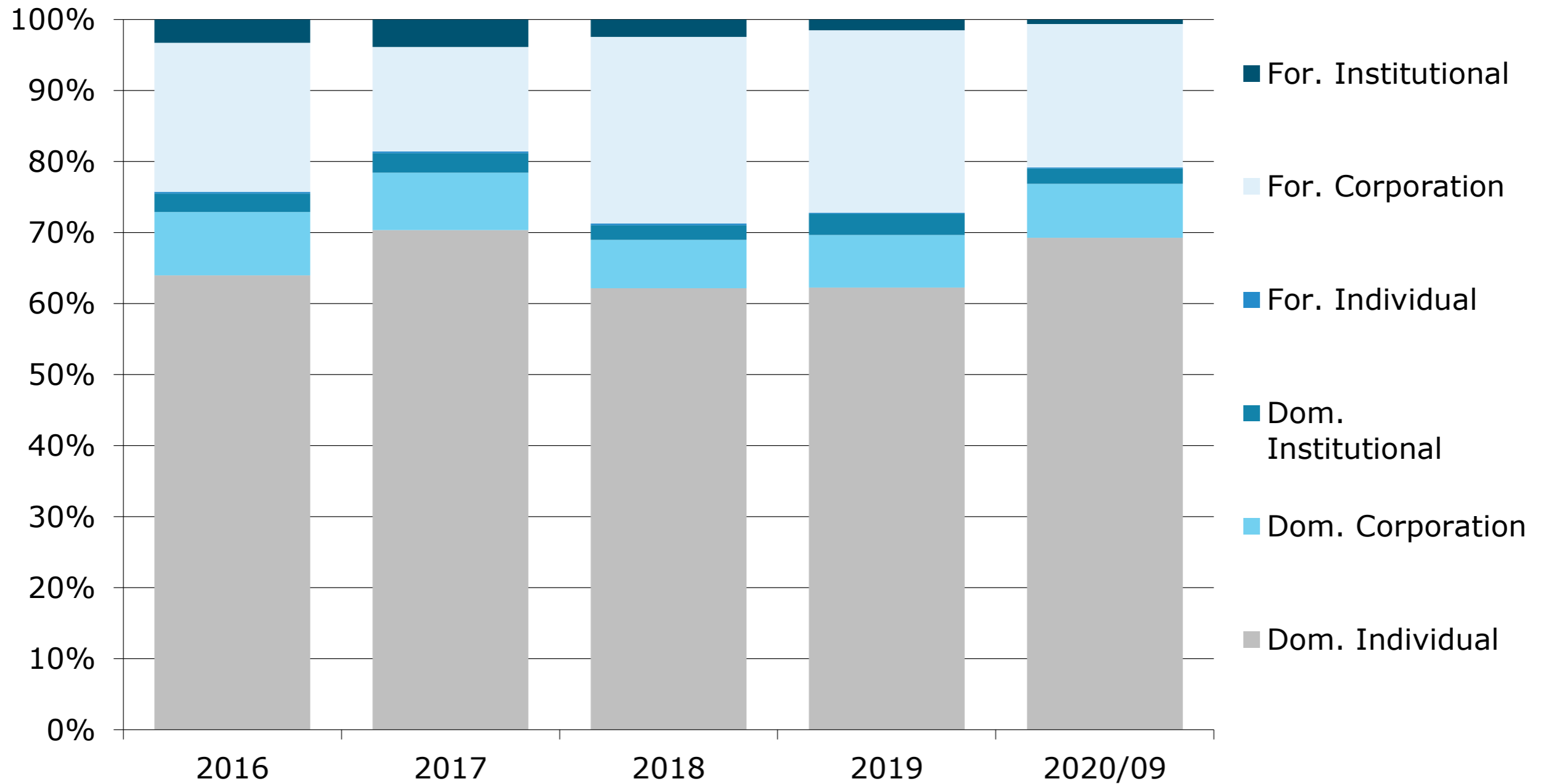
EQUITY OWNERSHIP ACCORDING TO INVESTOR CATEGORIES



Source: CRA

Total equity portfolio as of December 2020: TL 742 bn

EQUITY TRADING VOLUME BY INVESTOR CATEGORIES*



Source: TCMA

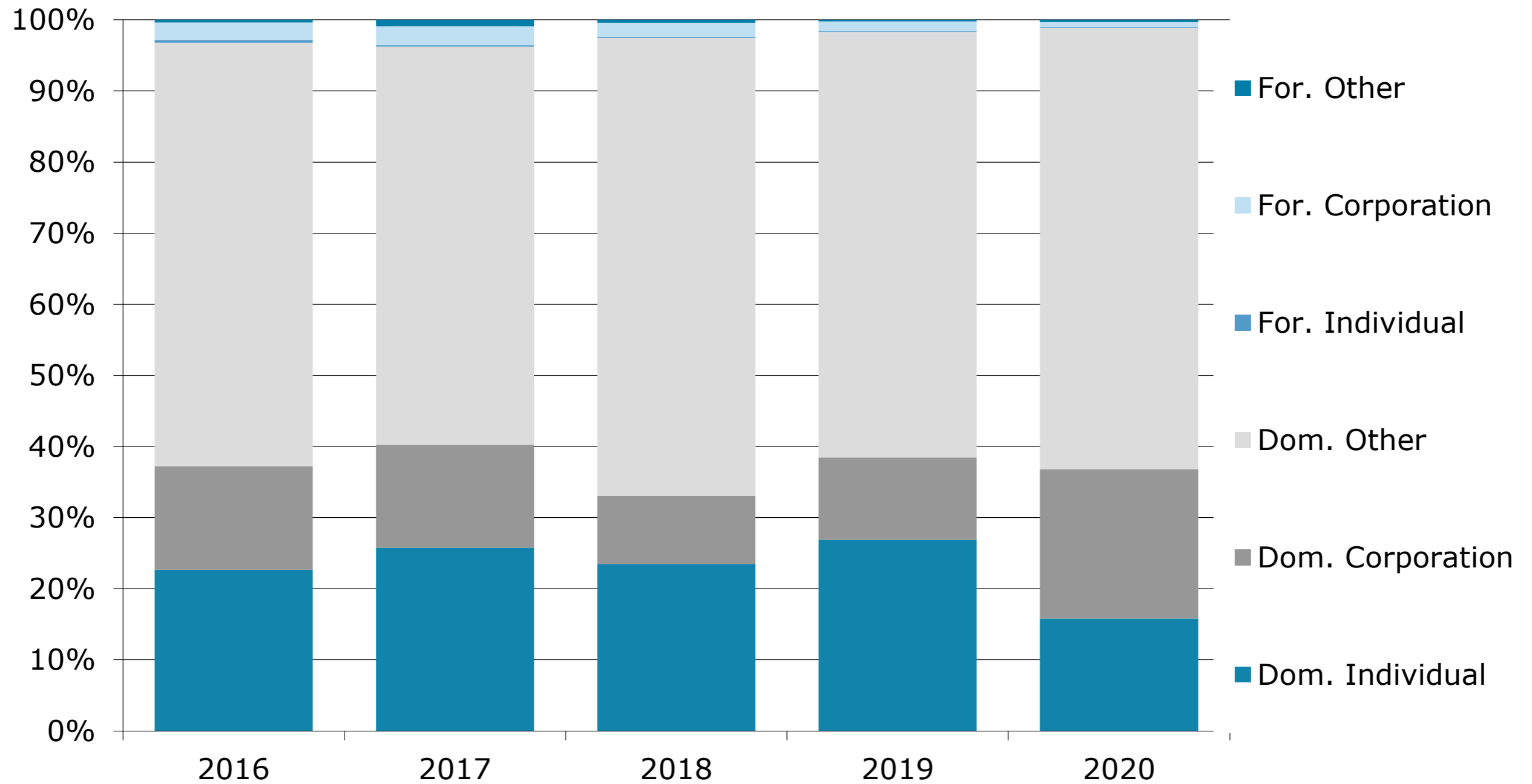
*Brokerage firms and investment banks only

NUMBER OF CORPORATE BOND INVESTORS

Number of Corporate Bond Investors					
	2016	2017	2018	2019	2020
Domestic Investors	96,771	81,865	77,671	65,998	55,378
Dom. Individuals	93,217	78,954	75,361	64,010	53,450
Dom. Corporations	2,886	2,292	1,660	1,344	1,284
Dom. Institutionals	668	619	650	644	644
Foreign Investors	705	622	662	453	475
For. Individuals	677	594	641	431	450
For. Corporations	25	24	18	19	20
For. Institutionals	3	4	3	3	5
Total	97,476	82,487	78,333	66,451	55,853

Source: CRA

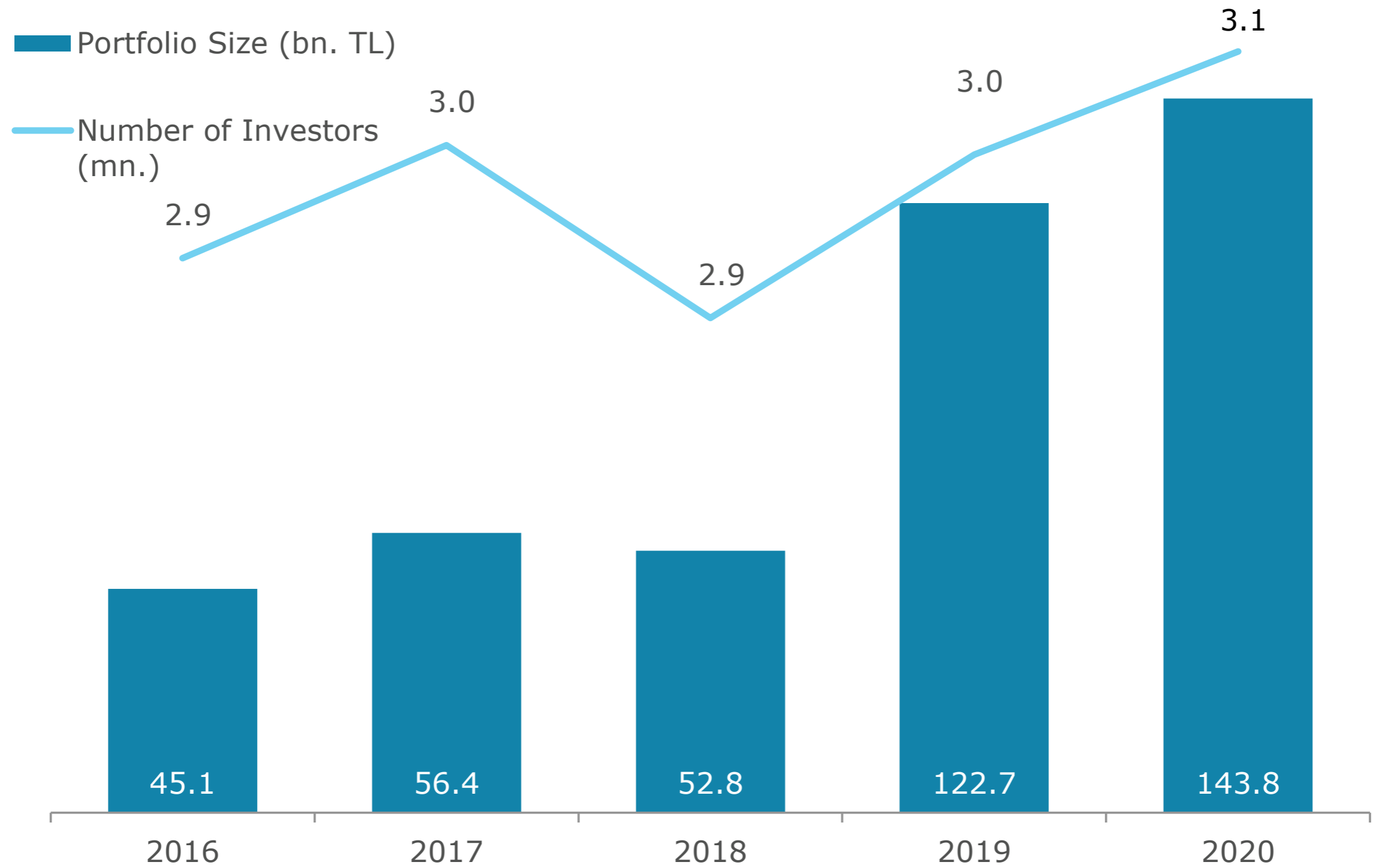
CORPORATE BOND OWNERSHIP ACCORDING TO INVESTOR CATEGORIES



Source: CRA

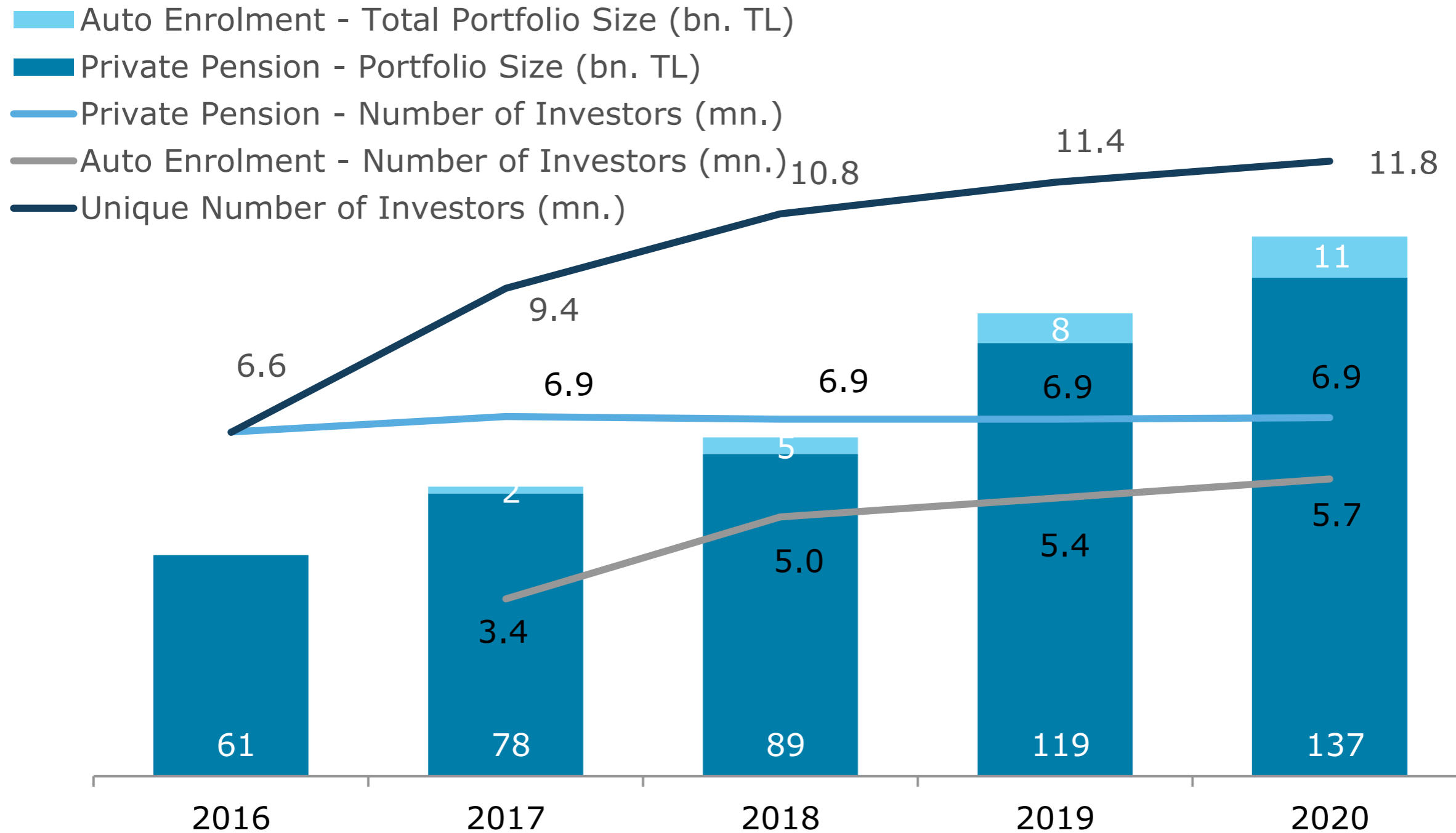
Total corporate bond portfolio as of December 2020: TL 372 bn.

MUTUAL FUND INVESTORS



Source: CRA

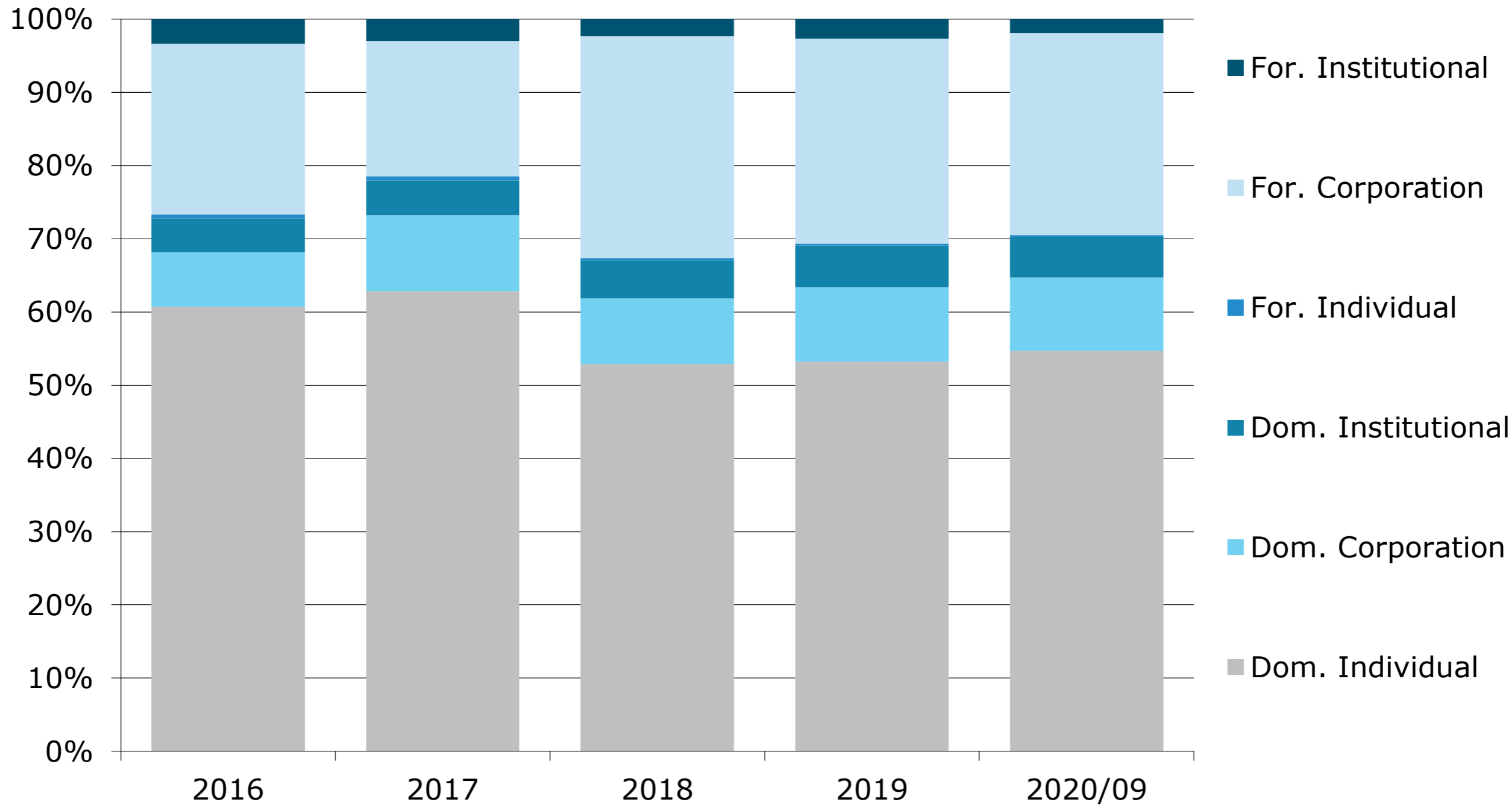
PENSION FUND INVESTORS



Source: PMC

Portfolio size includes government contributions

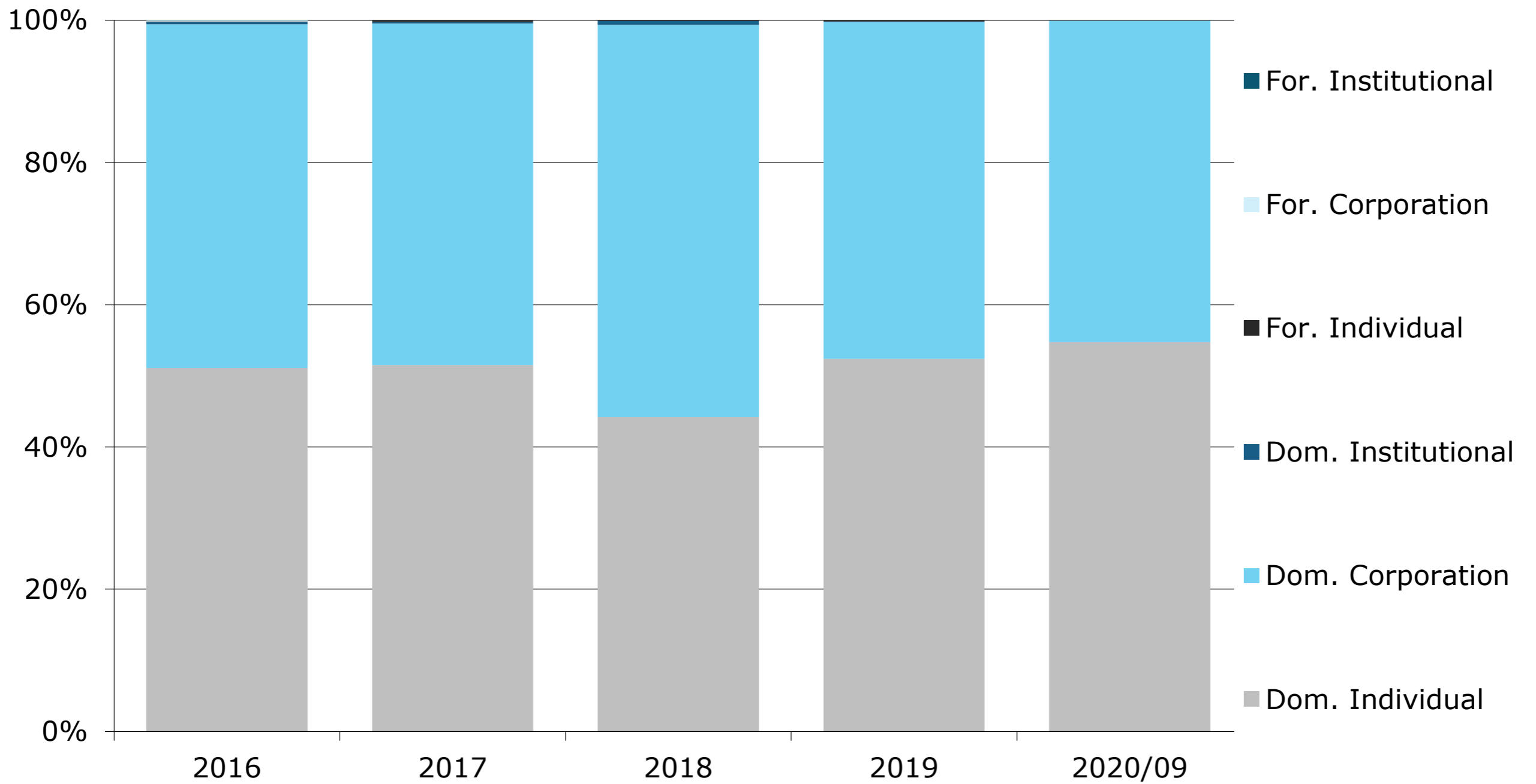
BREAKDOWN OF FUTURES TRADING VOLUME BY INVESTOR CATEGORIES*



Source: TCMA

*Brokerage firms and investment banks only

BREAKDOWN OF FOREX TRADING VOLUME BY INVESTOR CATEGORIES



Source: TCMA

www.tspb.org.tr

info@tspb.org.tr

The logo for TCMA, featuring a blue curved line above the letters "TCMA" in a bold, blue, sans-serif font.