

Turkish Capital Markets

JANUARY 2022



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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.

CAPITAL MARKETS BACKGROUND

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.

2019: TURIB- e-Warehouse Market started to operate.

Debt based crowd funding regulations established.

2021: Takasbank launched the private pension fund trading platform BEFAS.
Equity based crowd funding regulations 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
- Turkish Merchantile Exchange
- Crowdfunding Platforms

Insurance

Insurance and Private Pension Regulation and Supervision Agency

- Insurance Association of Turkey
- Insurance Companies
- Pension Companies

- 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 center for Borsa Istanbul,
 - The central counterparty for Borsa Istanbul Futures & Options, Debt Securities, Equities, Money and Swap markets
 - The national numbering agency of Turkey.
- Services offered:
 - Securities Lending & Borrowing Market and Takasbank Money Market. Takasbank acts as CCP in those markets
 - Clearing and central counter party services for Turkish Lira IRS (Interest Rate Swap) and OIS (Overnight Index Swap) contracts in OTC markets
 - Custodian to private pension system.
 - Electronic fund (TEFAS) and private pension fund distribution platforms (BEFAS)
 - Record keeping for leveraged transactions and collateral management as an authorized trade repository institution.

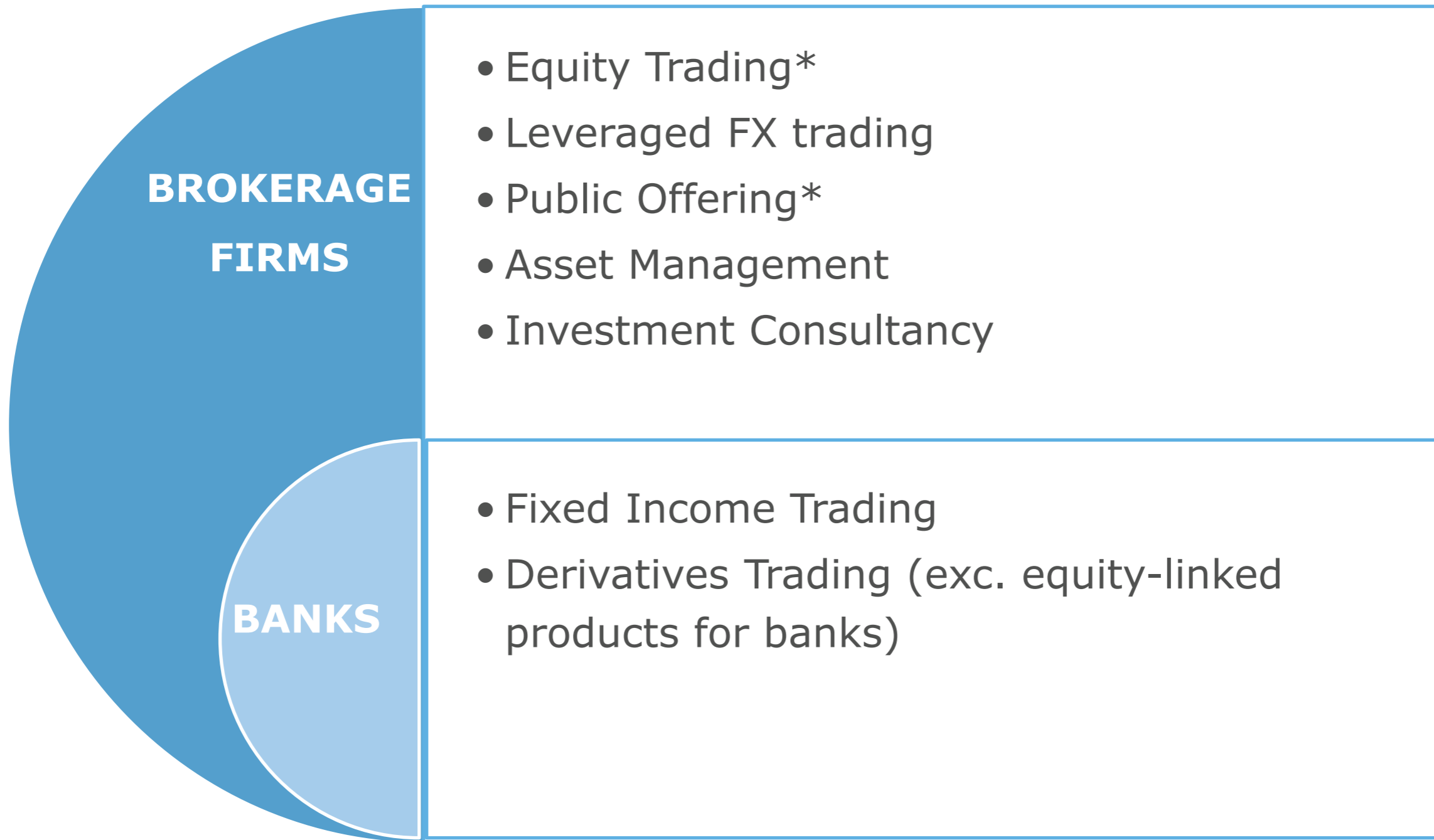
- Merkezi Kayit Istanbul – CSD of Turkey was established in 2001 as a private company.
- The sole only central depository for all dematerialized capital market instruments.

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), TURIB e-Warehouse Market, Crowdfunding System.

- 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 323,670 in 2022, 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 31.3 mn.

Execution Brokers

- execution of orders of in the name of customers and/or their own account
- offering custody services
- minimum capital: TL 12.5 mn.

Introducing Brokers

- reception of orders and transfer them to other brokers
- minimum capital: TL 2.5 mn.



Portfolio Management Companies

- May establish stock, bond, balanced mutual funds
- Mn. capital required varies btw. TL 7.5 million and TL 25 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 3.75 million and TL 12.5 million depending on AUM.

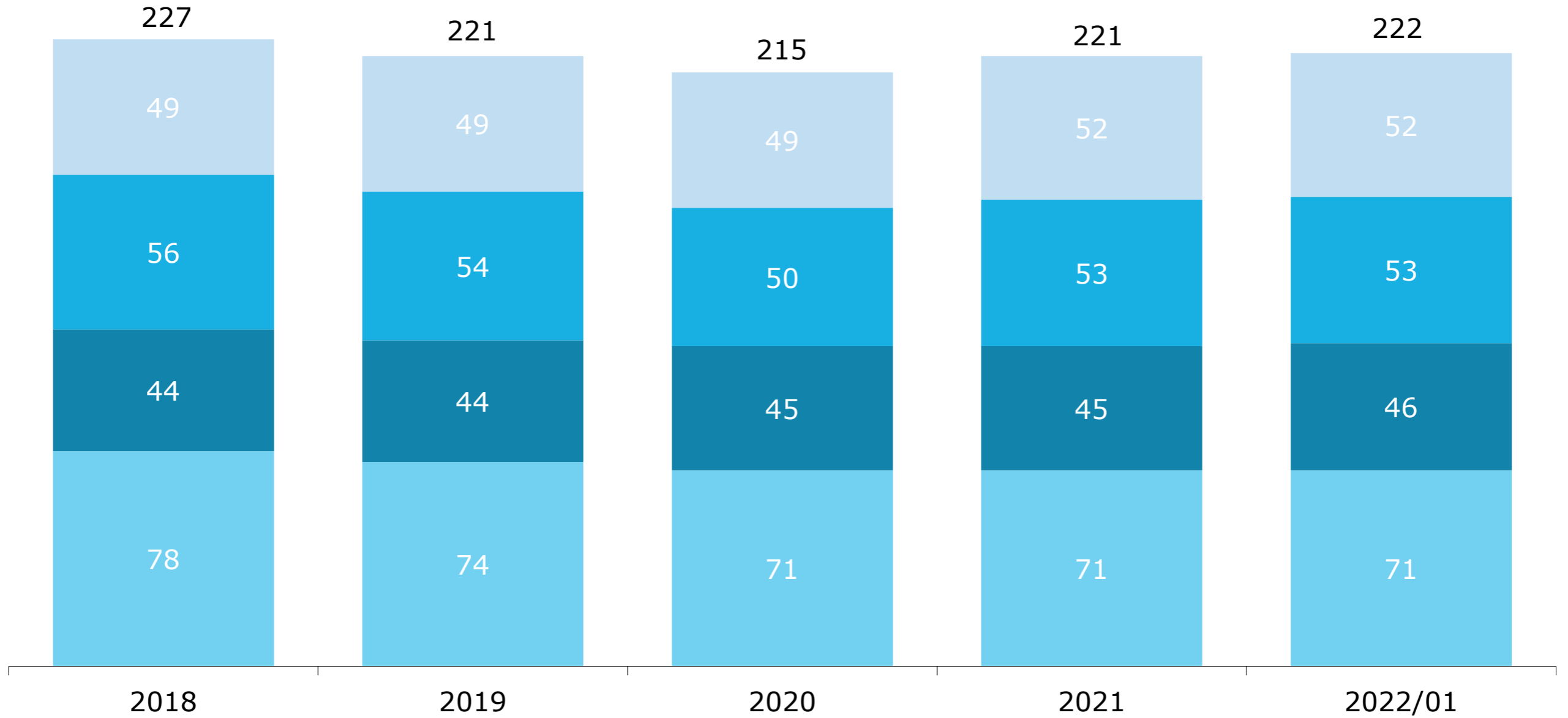
TURKISH CAPITAL MARKETS ASSOCIATION



- 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.

NATIONAL MEMBERSHIPS

- Foreign Economic Relations Board of Turkey (DEİK), founder member since 2008.
- Tax Council, member since 2013.
- Istanbul Arbitration Center (ISTAC), member since 2017.
- Halal Accreditation Agency Advisory Board, member since 2020.
- TUBITAK Venture Capital Funding Program Executive Board, member since 2020.
- Impact Investing Advisory Board (EYDK), member since 2021.

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 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

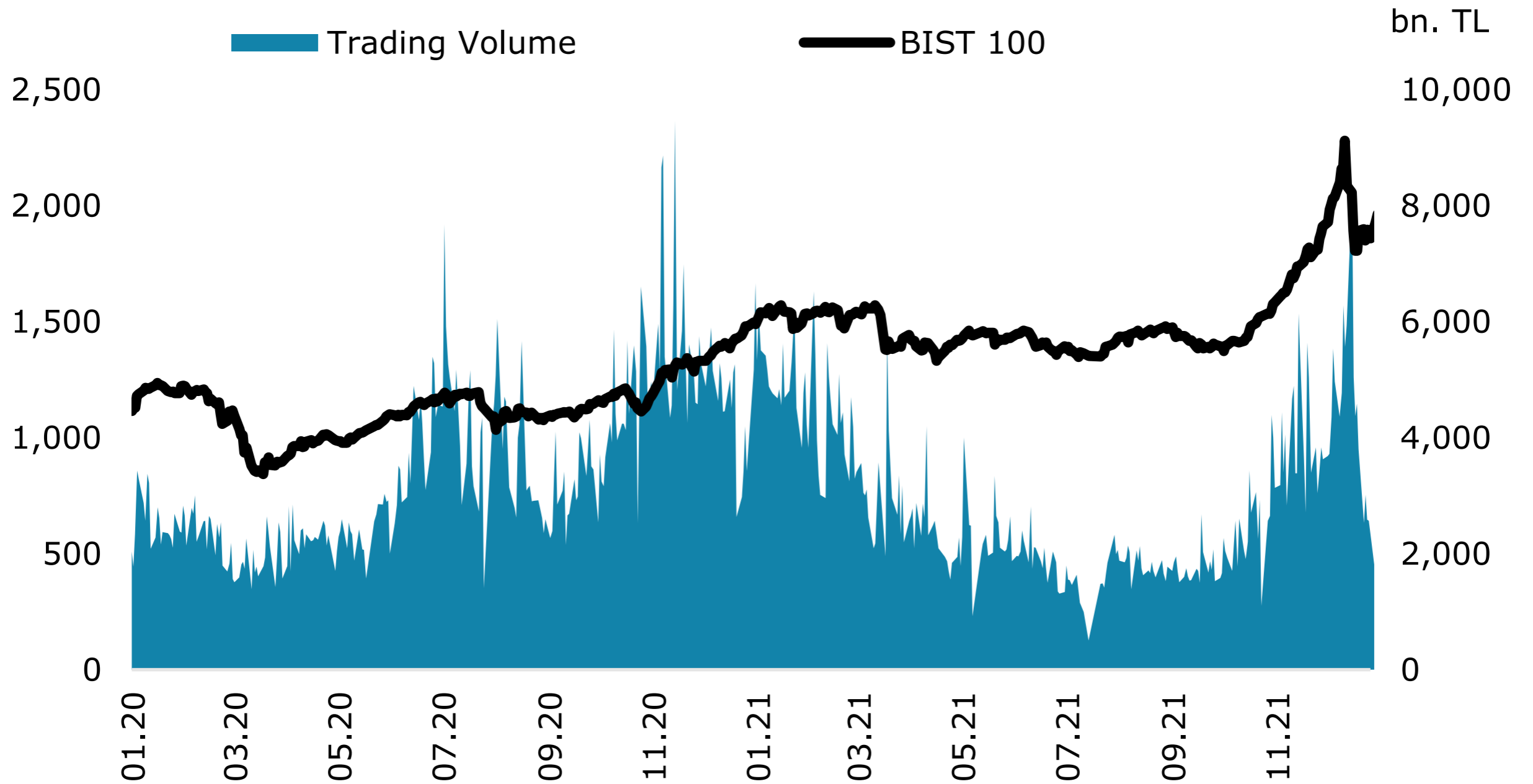
TURKEY SECURITIZATION COMPANY

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

TURKISH CAPITAL MARKETS

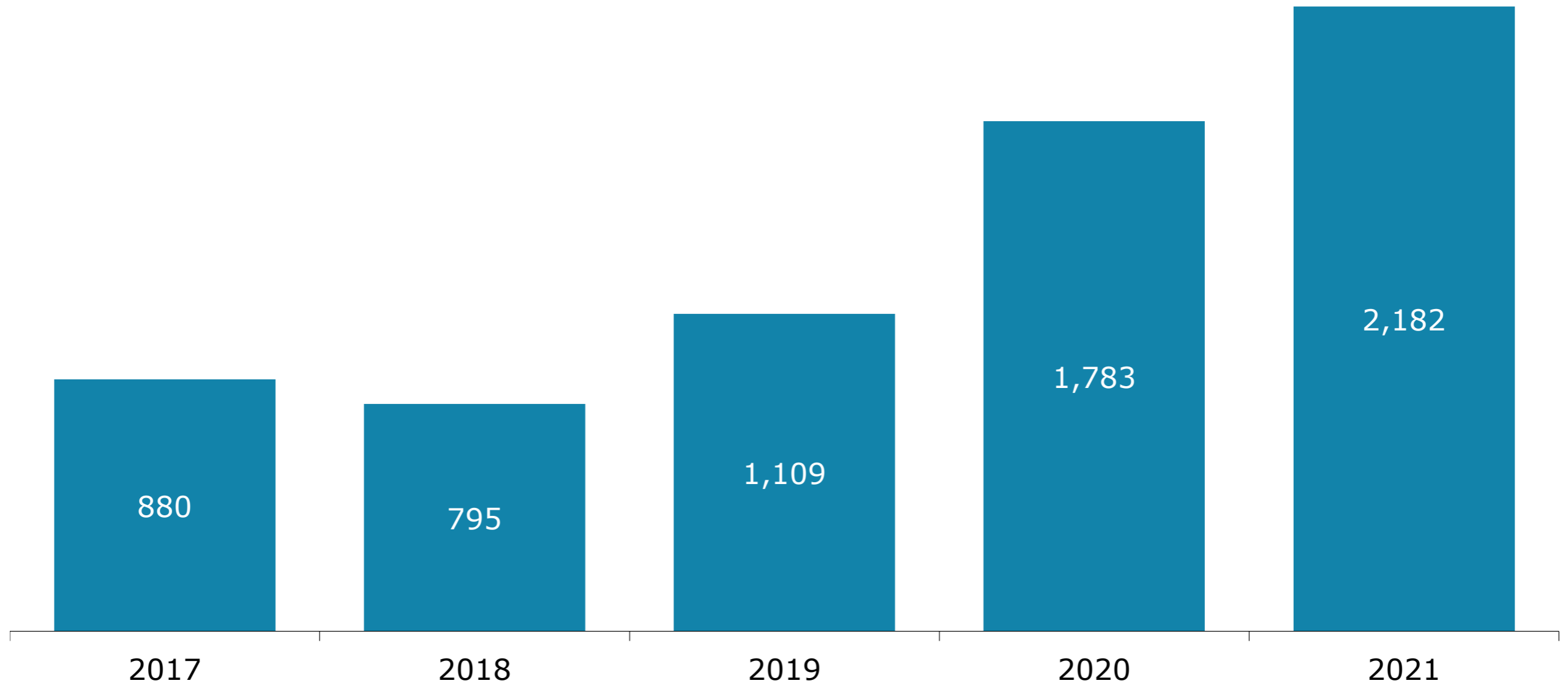


BIST-100 INDEX & TRADING VOLUME



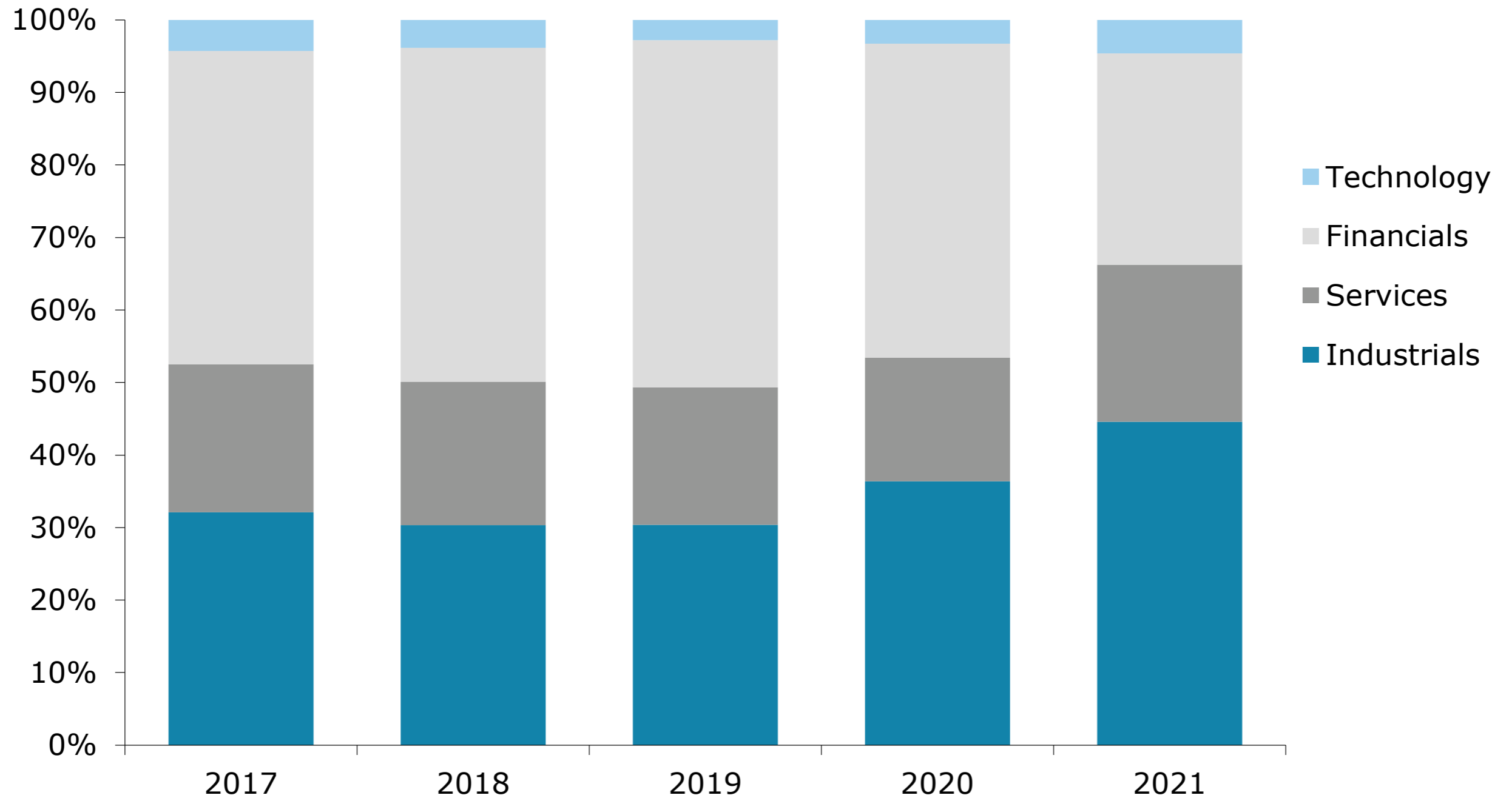
Source: Borsa Istanbul

MARKET CAPITALIZATION OF BORSA ISTANBUL (BILLION TL)



Source: Borsa Istanbul

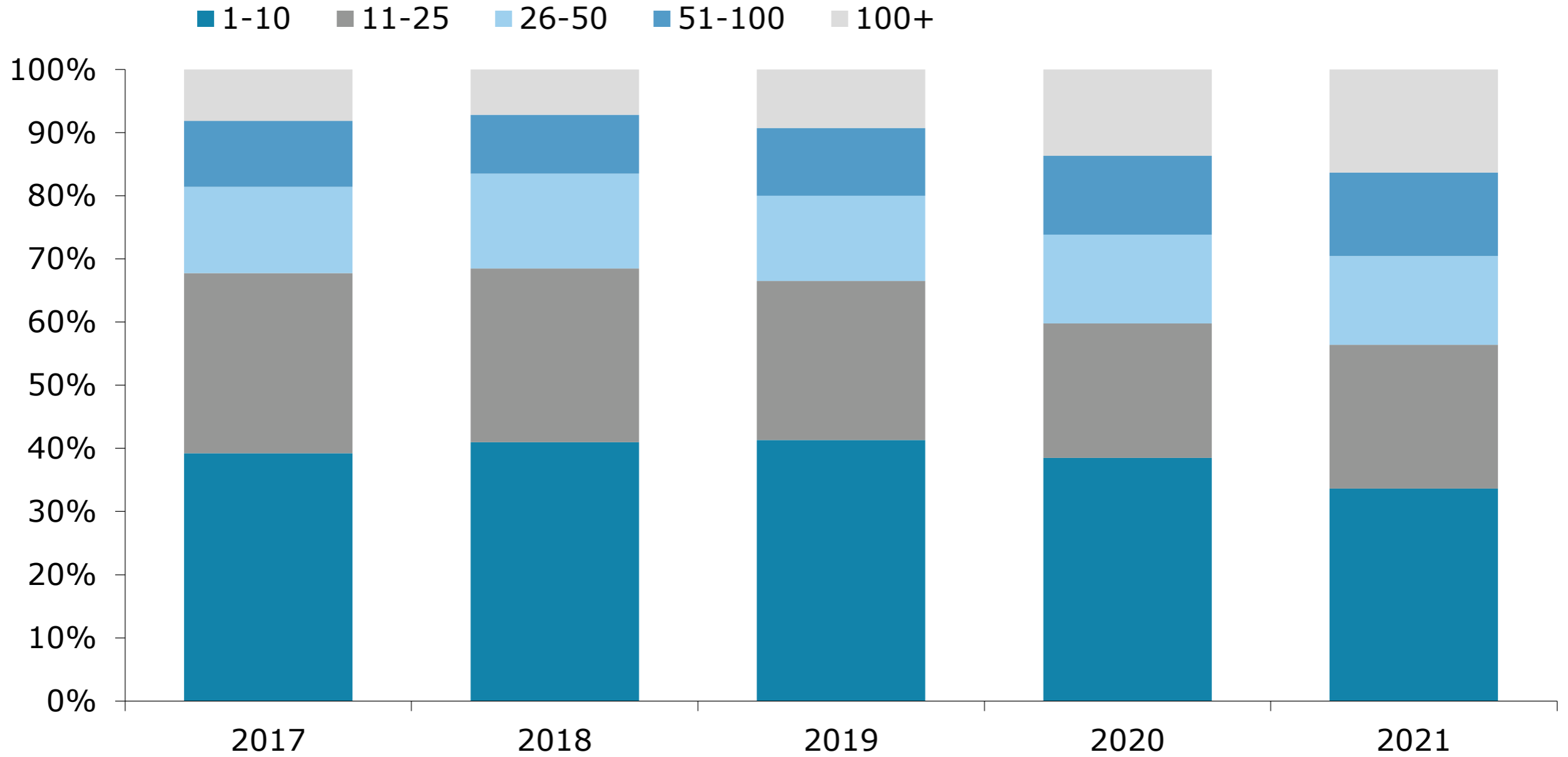
BREAKDOWN OF BORSA ISTANBUL MARKET CAPITALIZATION



Source: Borsa Istanbul

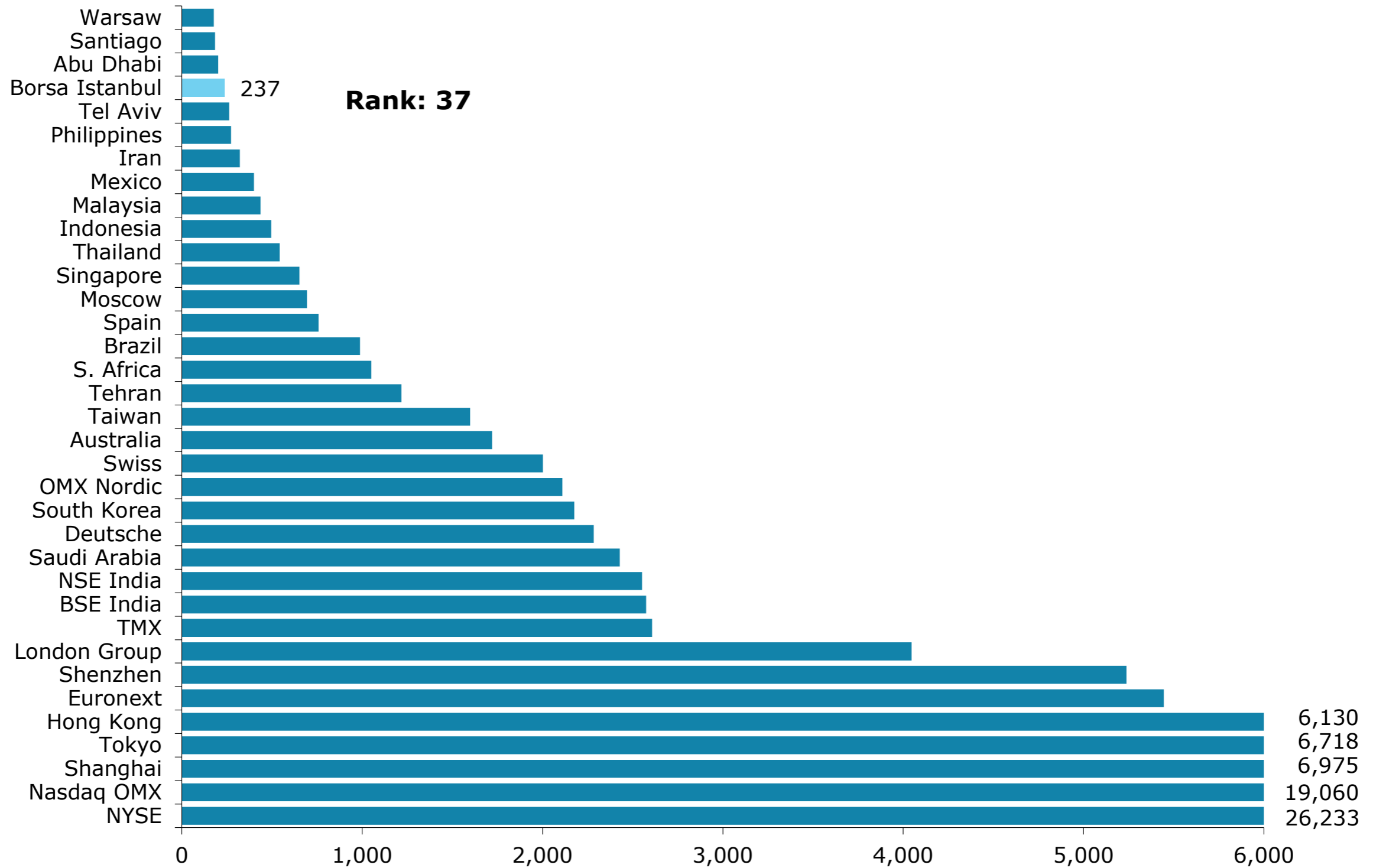
CONCENTRATION IN THE EQUITY MARKET (MCAP)

No. of Equities



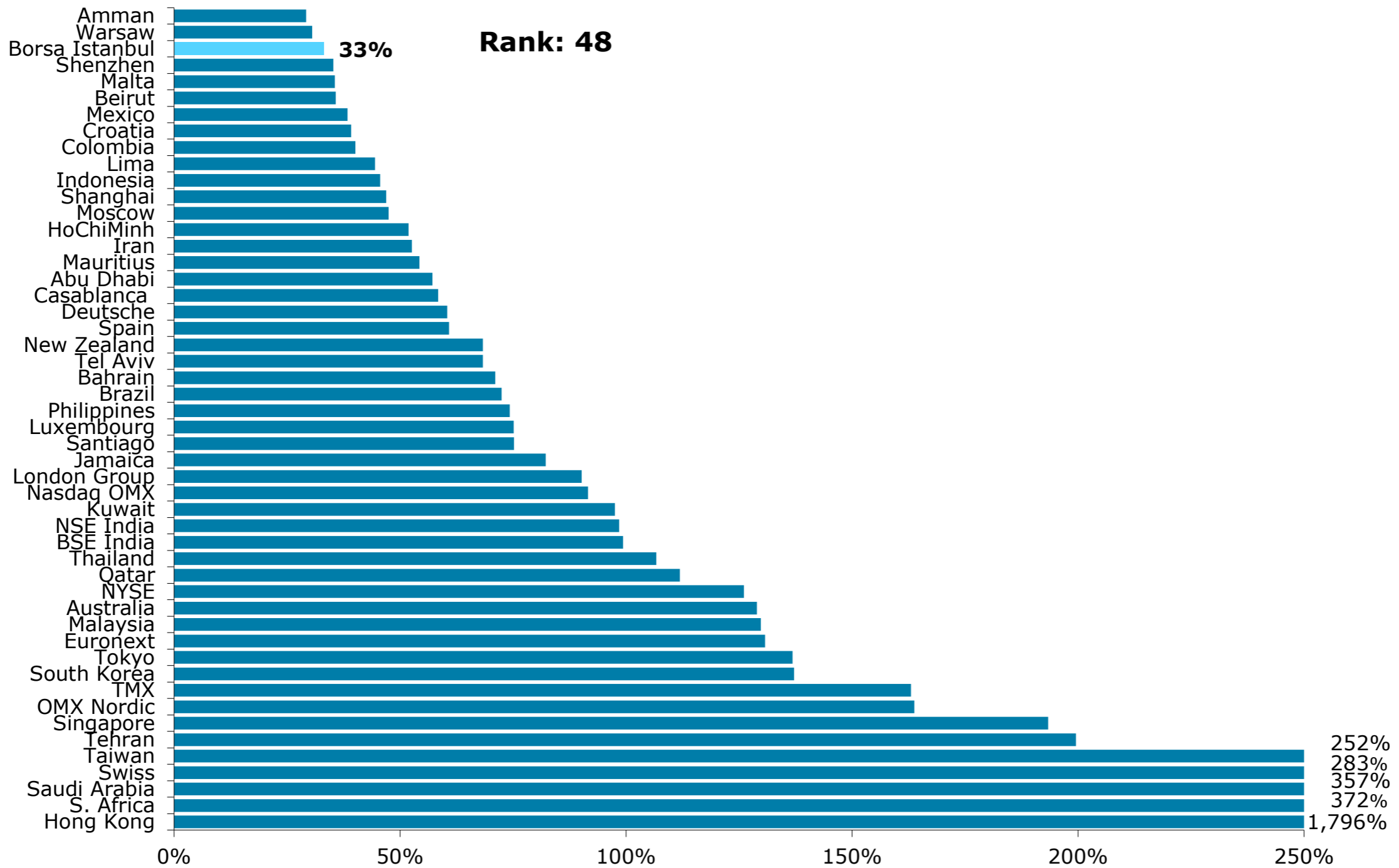
Source: Borsa Istanbul

DOMESTIC MARKET CAPITALIZATION (2021/11, BILLION \$)



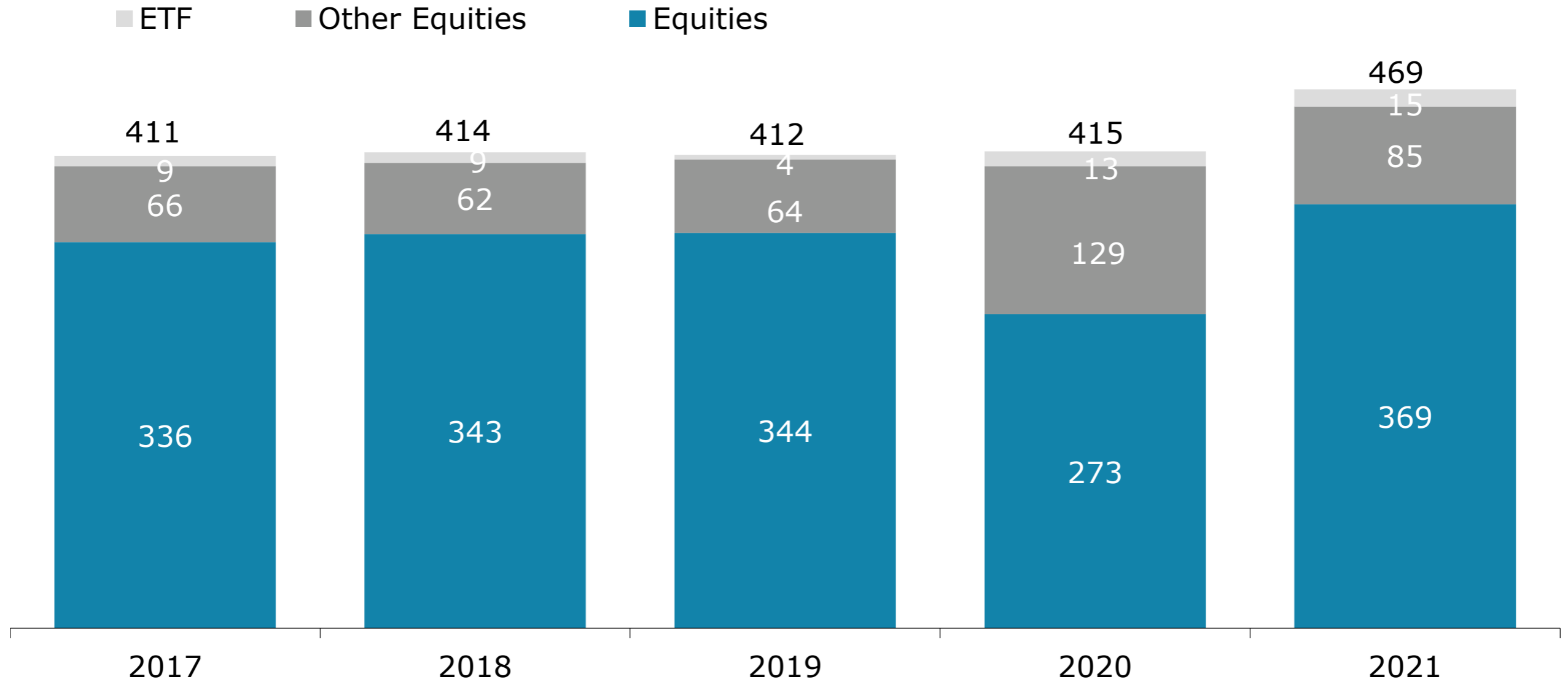
Source: WFE

MARKET CAPITALIZATION/GDP (2020)



Source: WFE, IMF, Turkstat

NUMBER OF SECURITIES IN THE EQUITY MARKET

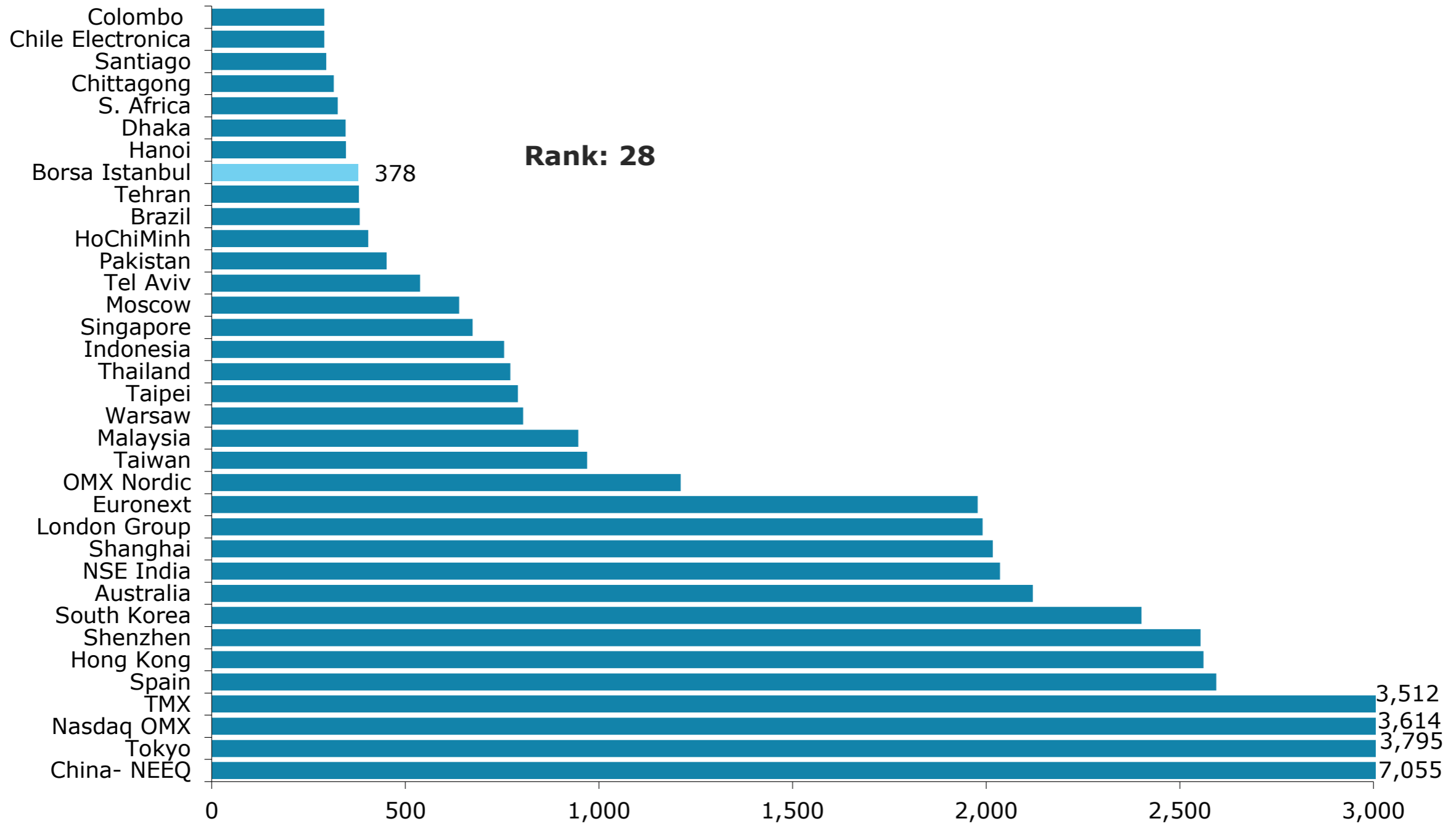


Equities: BIST Main+BIST Star
 Other Equities: SubMarket, Watchlist,
 Pre-Market Trading Platform,

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'

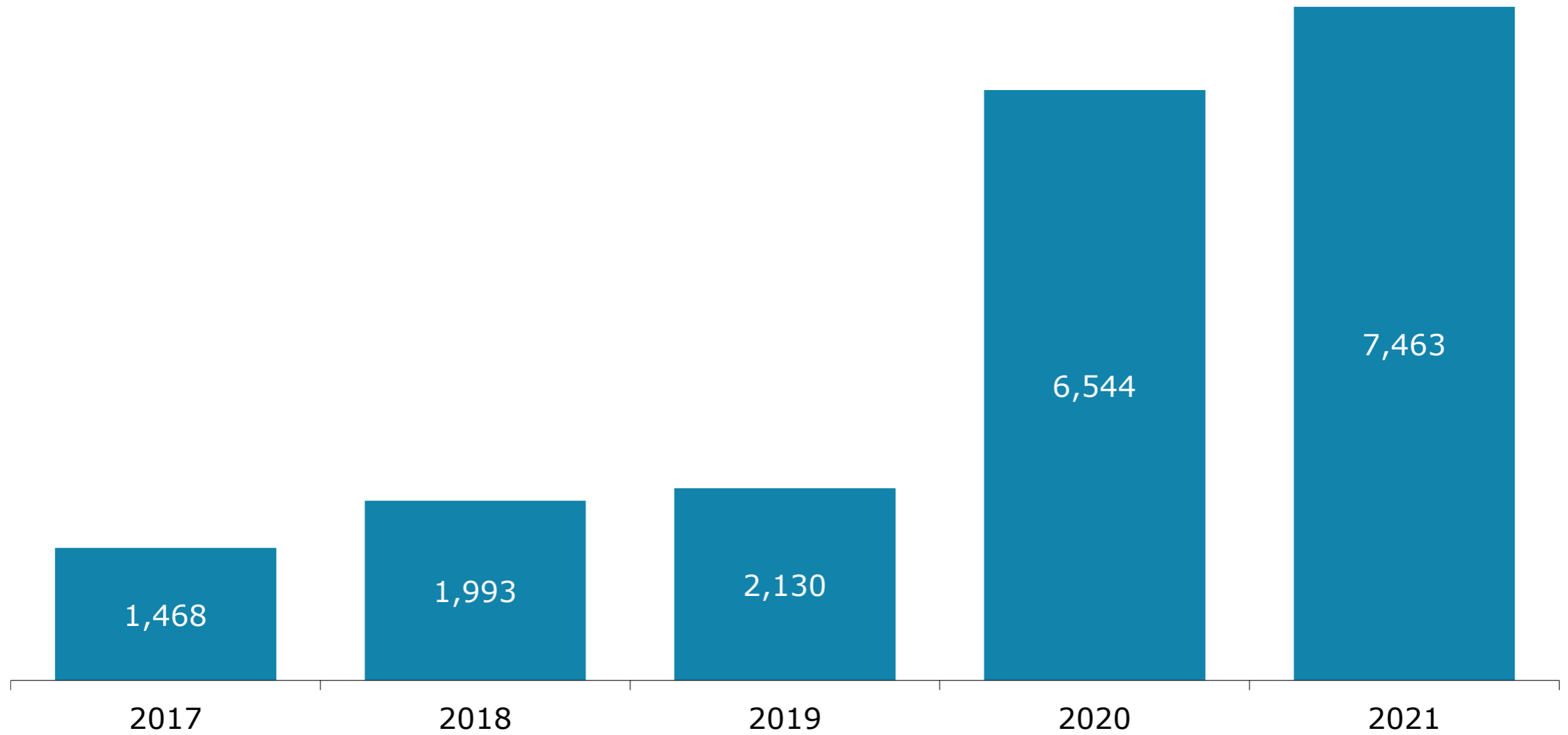
NUMBER OF LISTED COMPANIES* (2021/11)



Source: WFE

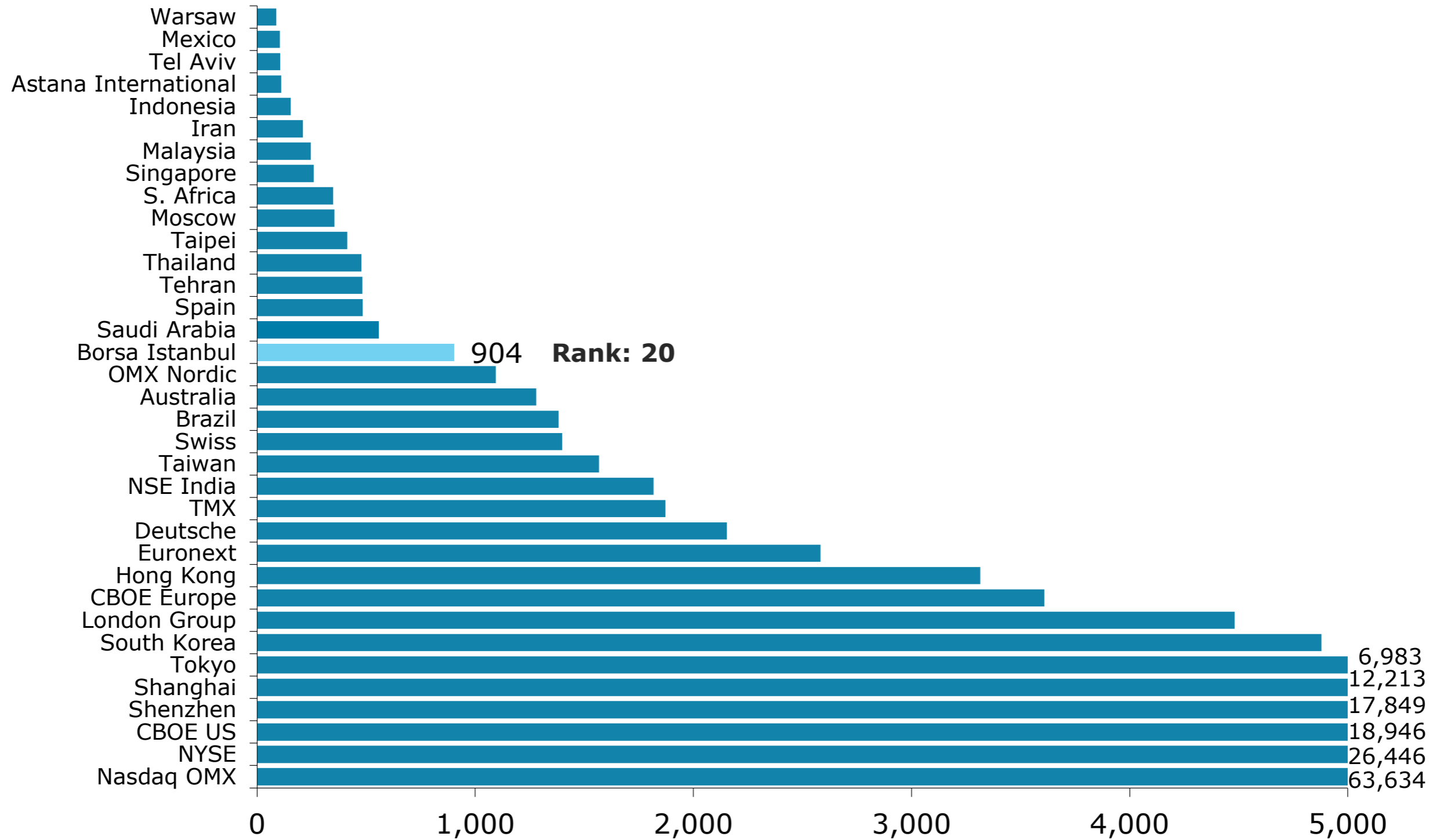
*Borsa Istanbul data excludes mutual funds, investment trusts and Pre-Market Trading Platform

EQUITY TRADING VOLUME OF BORSA ISTANBUL (BILLION TL)



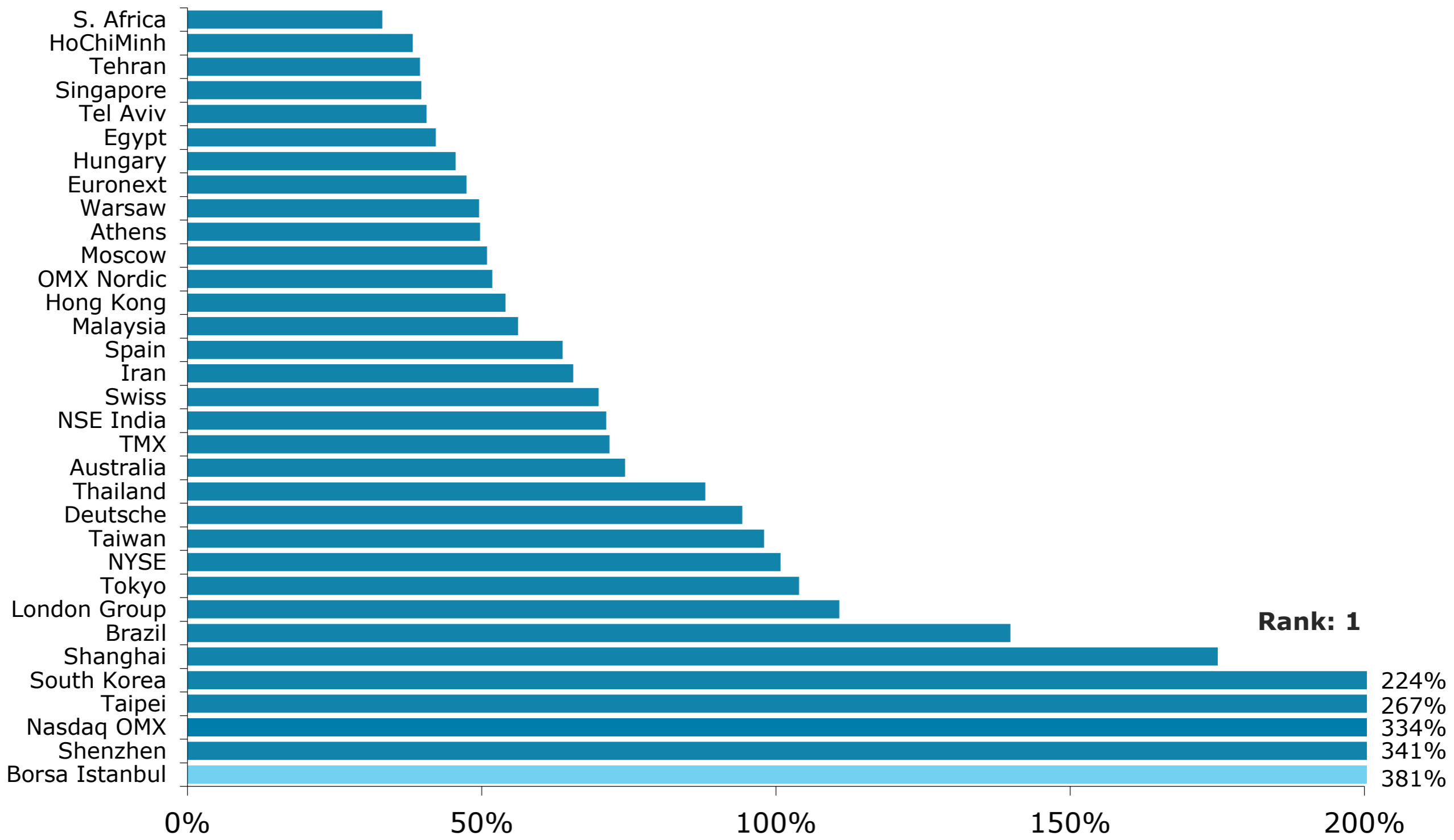
Source: Borsa Istanbul

EQUITY TRADING VOLUME (2020, BILLION \$)



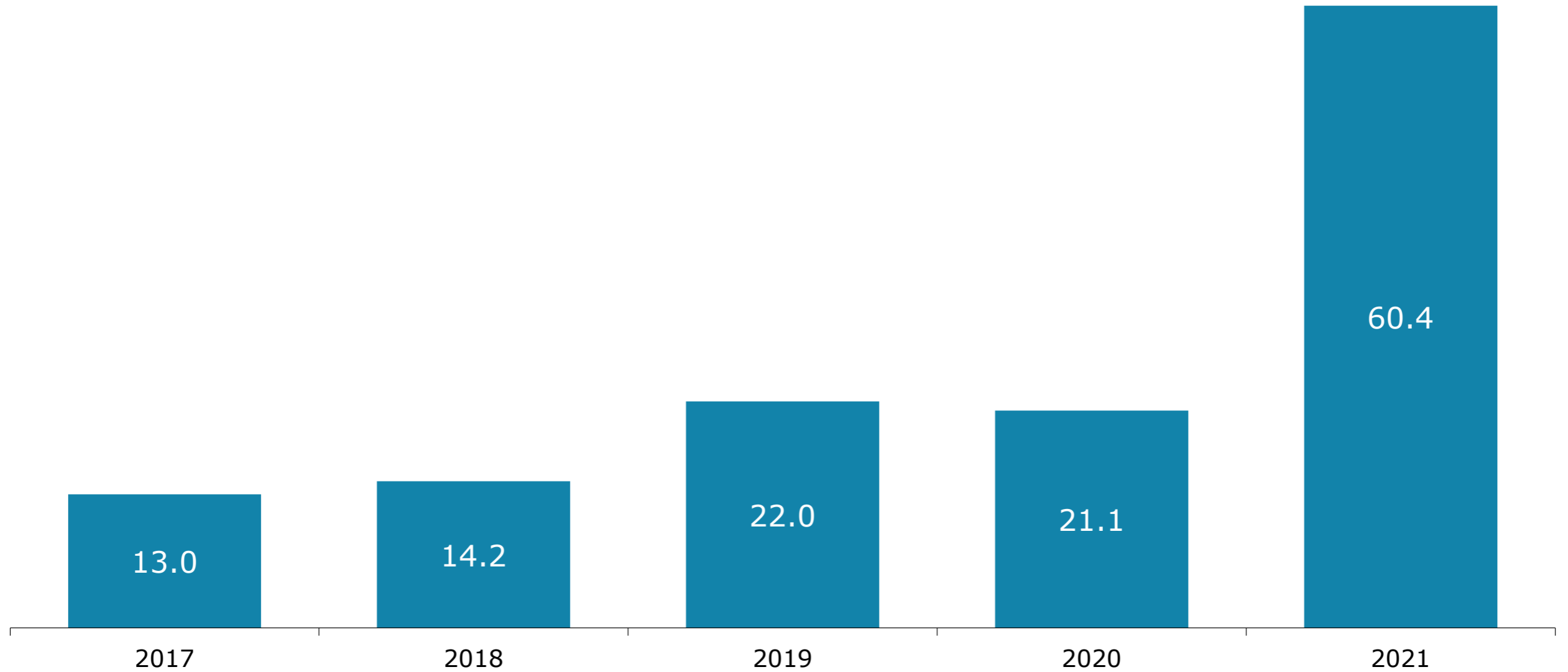
Source: WFE

TURNOVER RATIO (EQUITY TRADING VOLUME/MARKET CAPITALIZATION - 2020)



Source: WFE

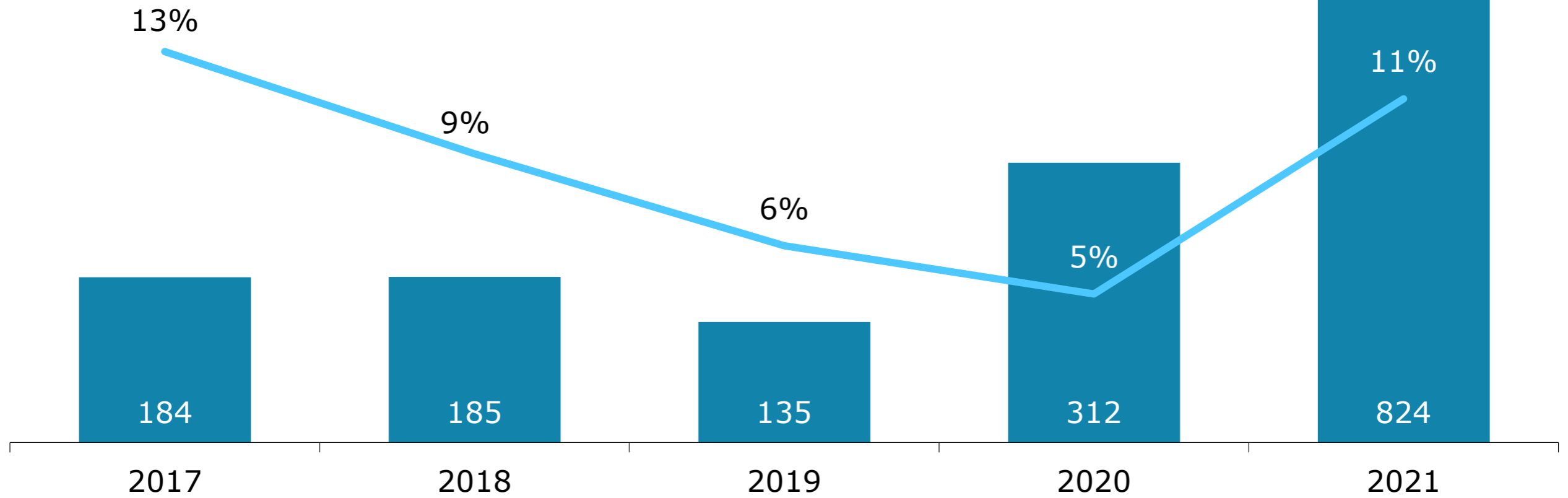
SECURITIES LENDING/BORROWING IN BORSA ISTANBUL (BILLION TL)



Source: Takasbank

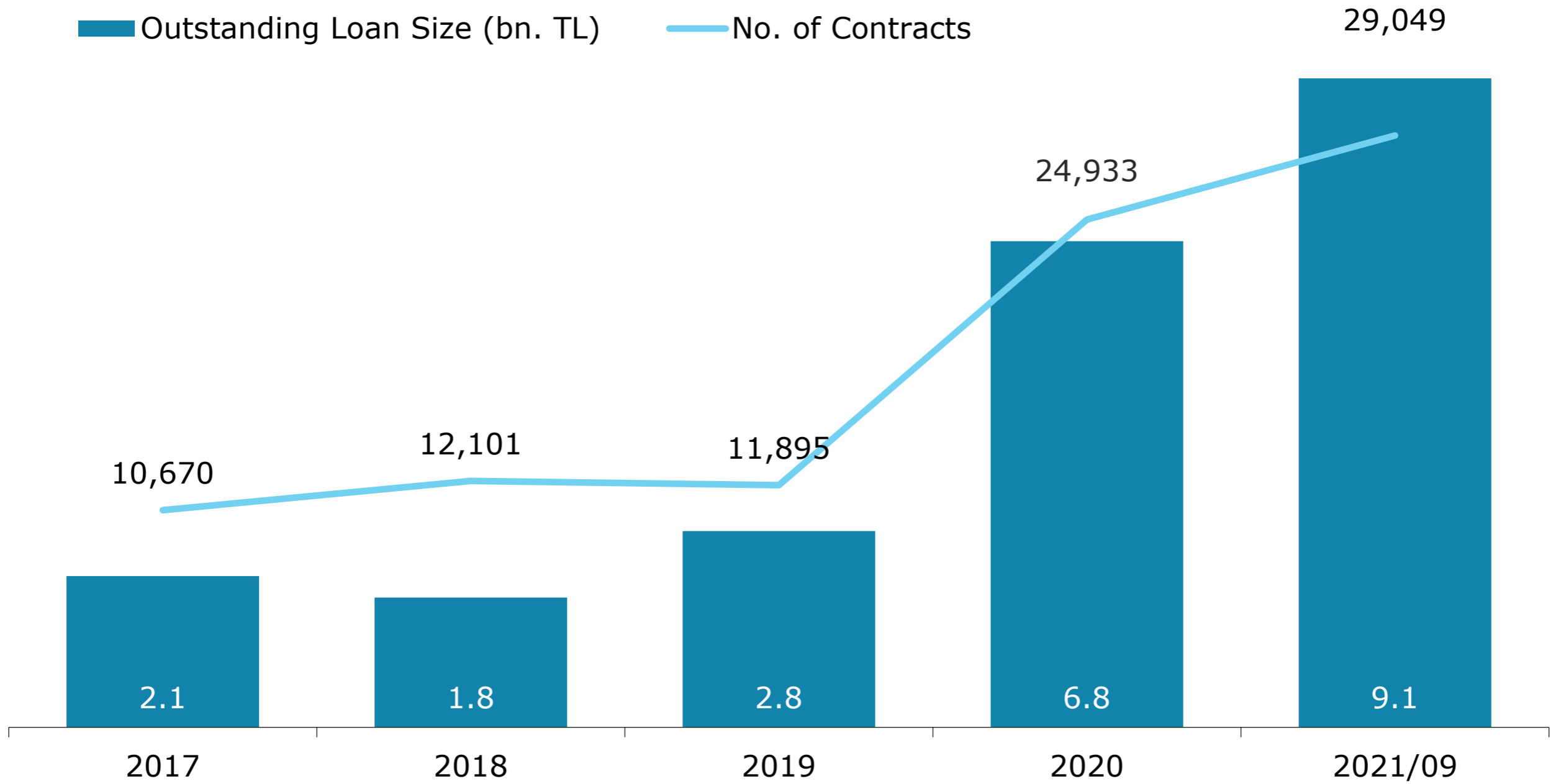
SHORT SELLING IN BORSA ISTANBUL

■ Short Selling Volume (bn. TL)
— Share in Total Volume



Source: Borsa Istanbul

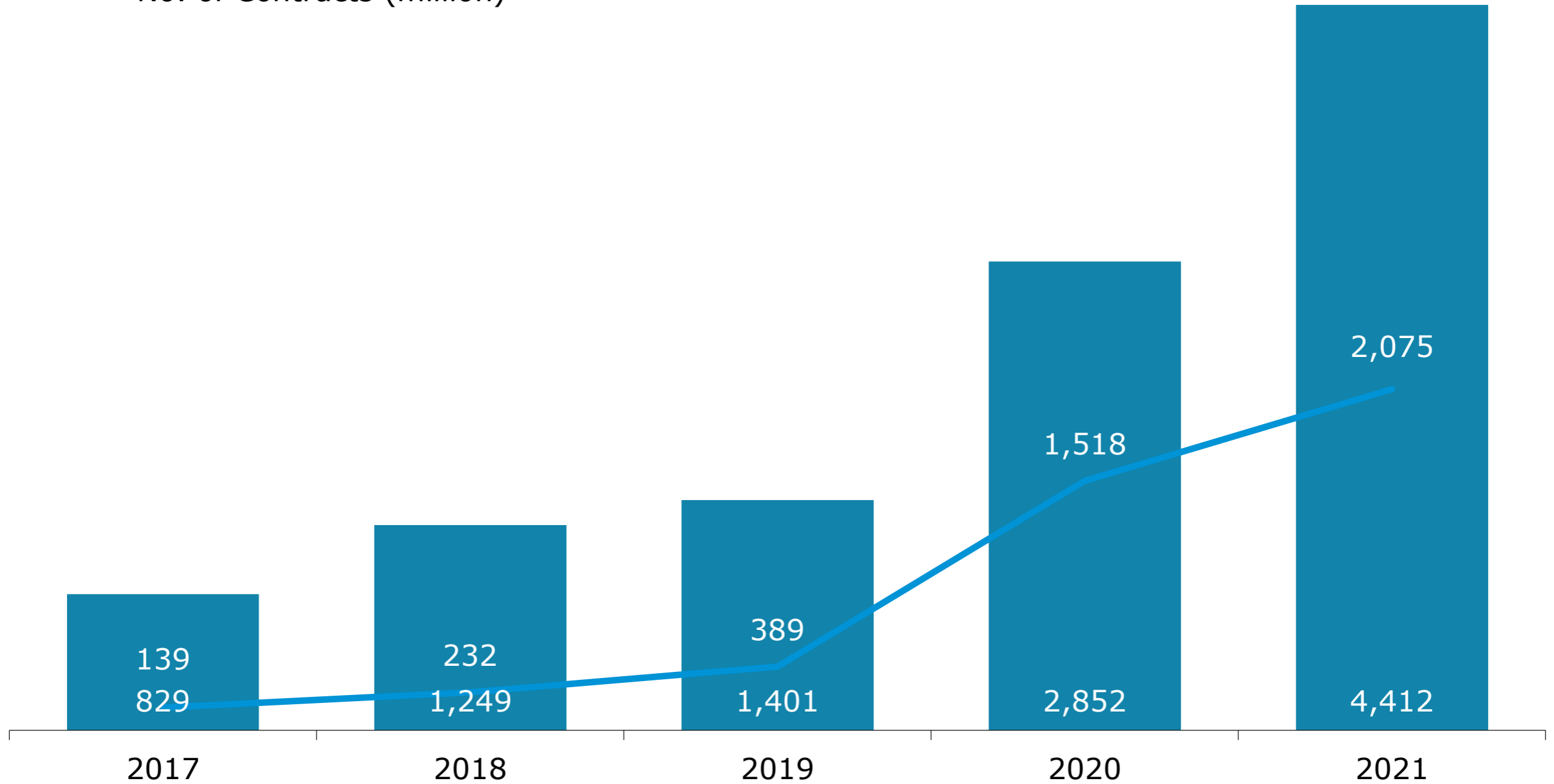
MARGIN TRADING



Source: TCMA

FUTURES TRADING VOLUME OF BORSA ISTANBUL

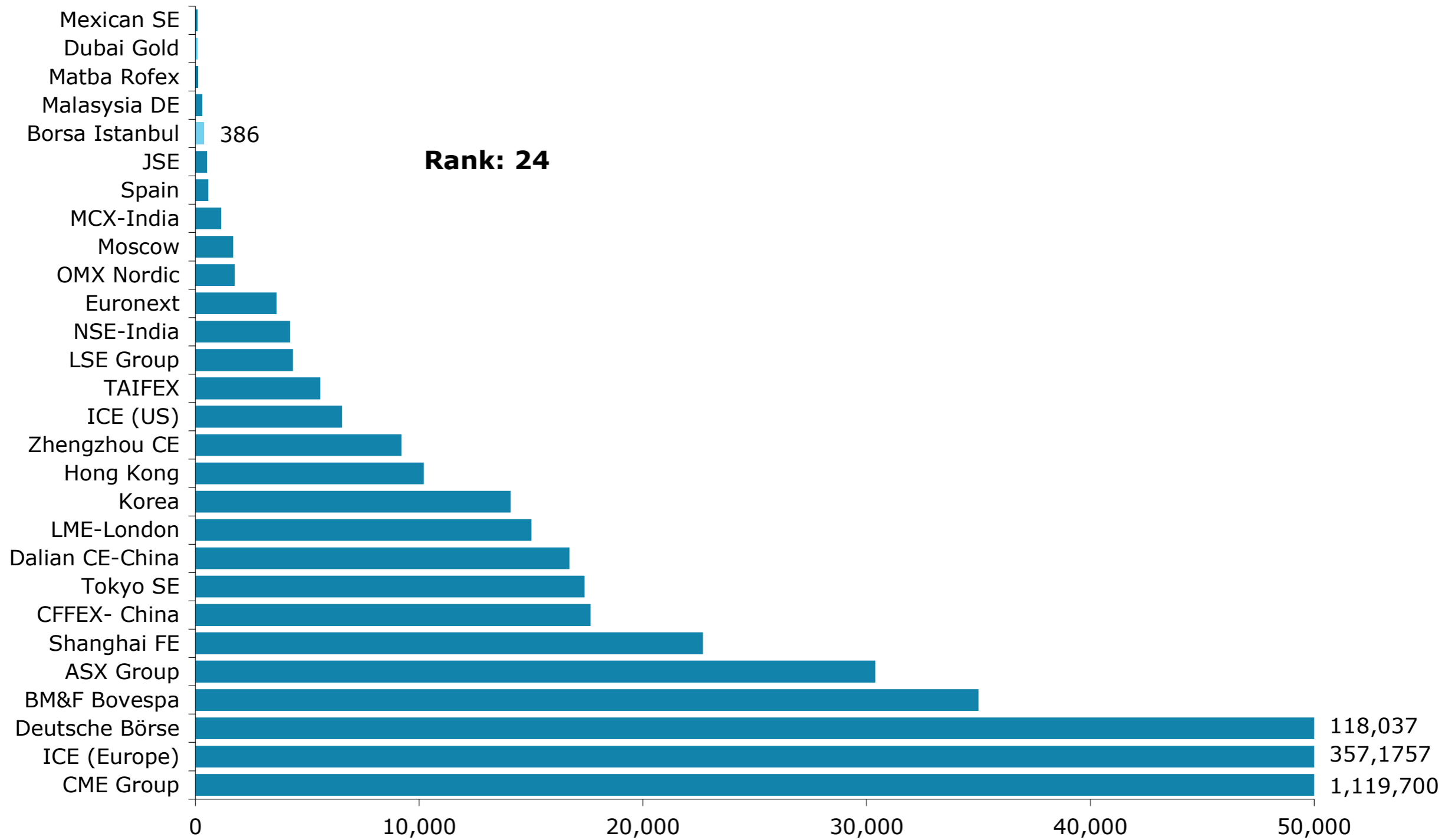
■ Futures Trading Volume (bn. TL)
— No. of Contracts (million)



Source: Borsa Istanbul

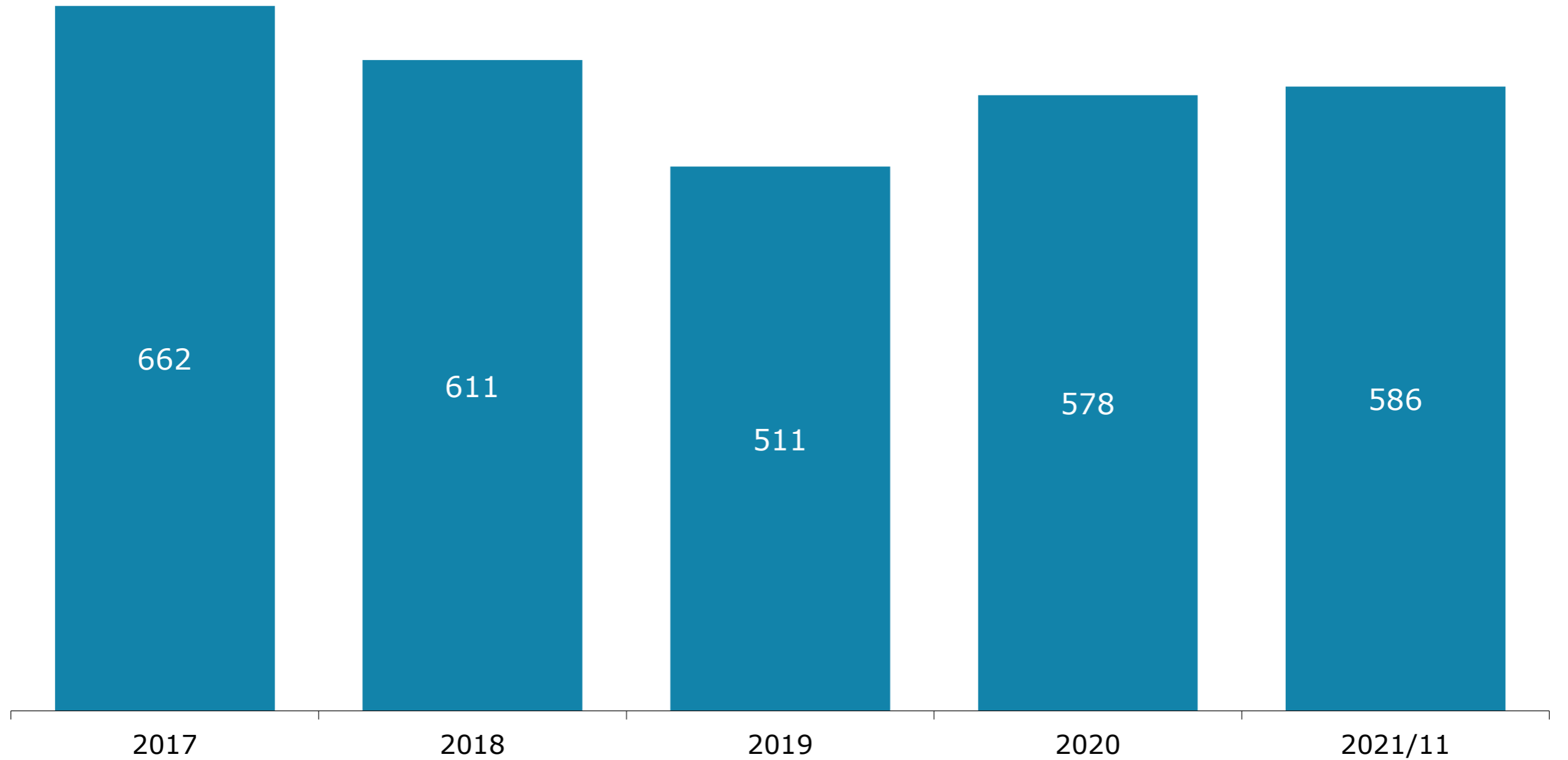
Excluding CBRT

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



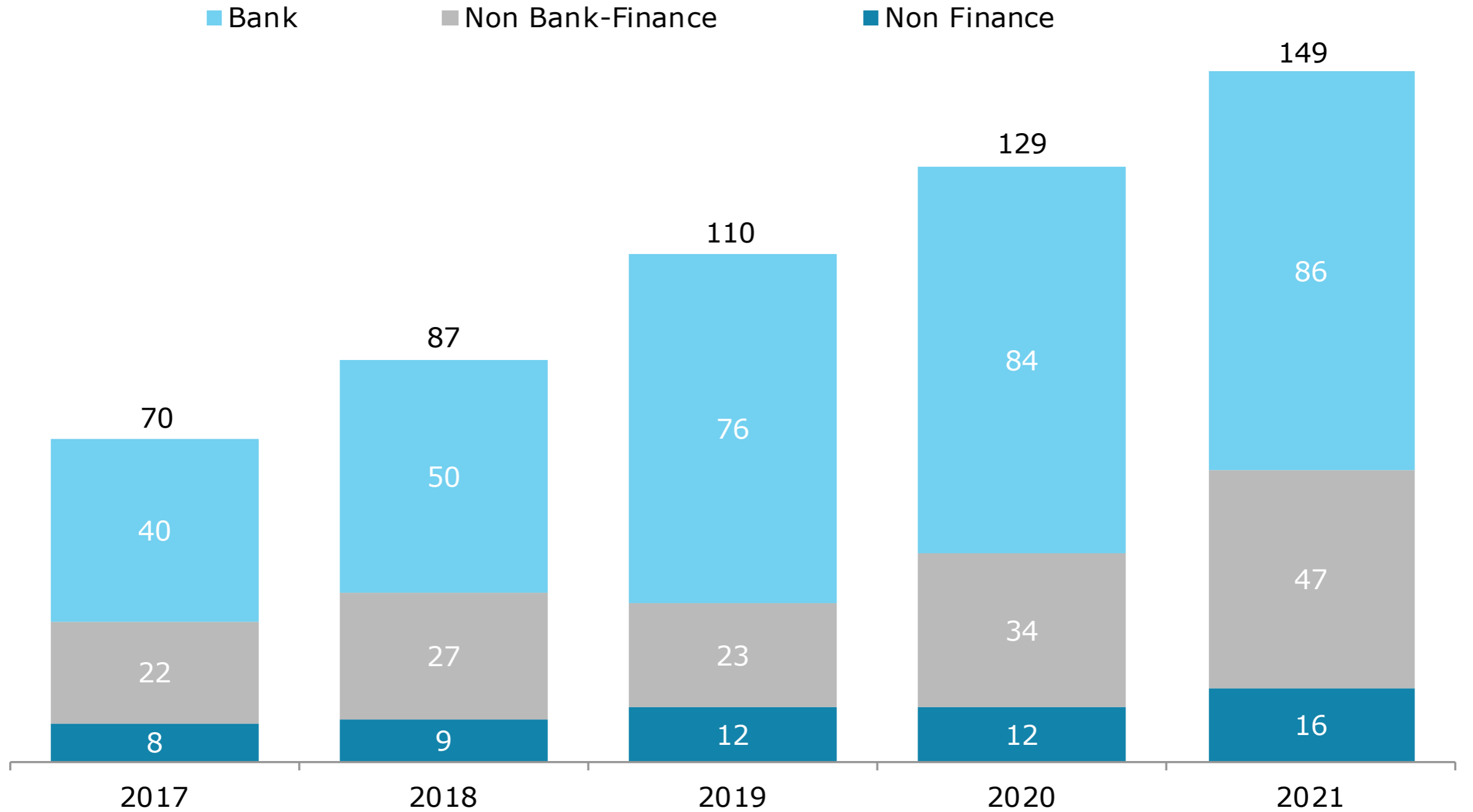
Source: WFE

NUMBER OF LISTED CORPORATE BONDS IN BORSA ISTANBUL



Source: WFE

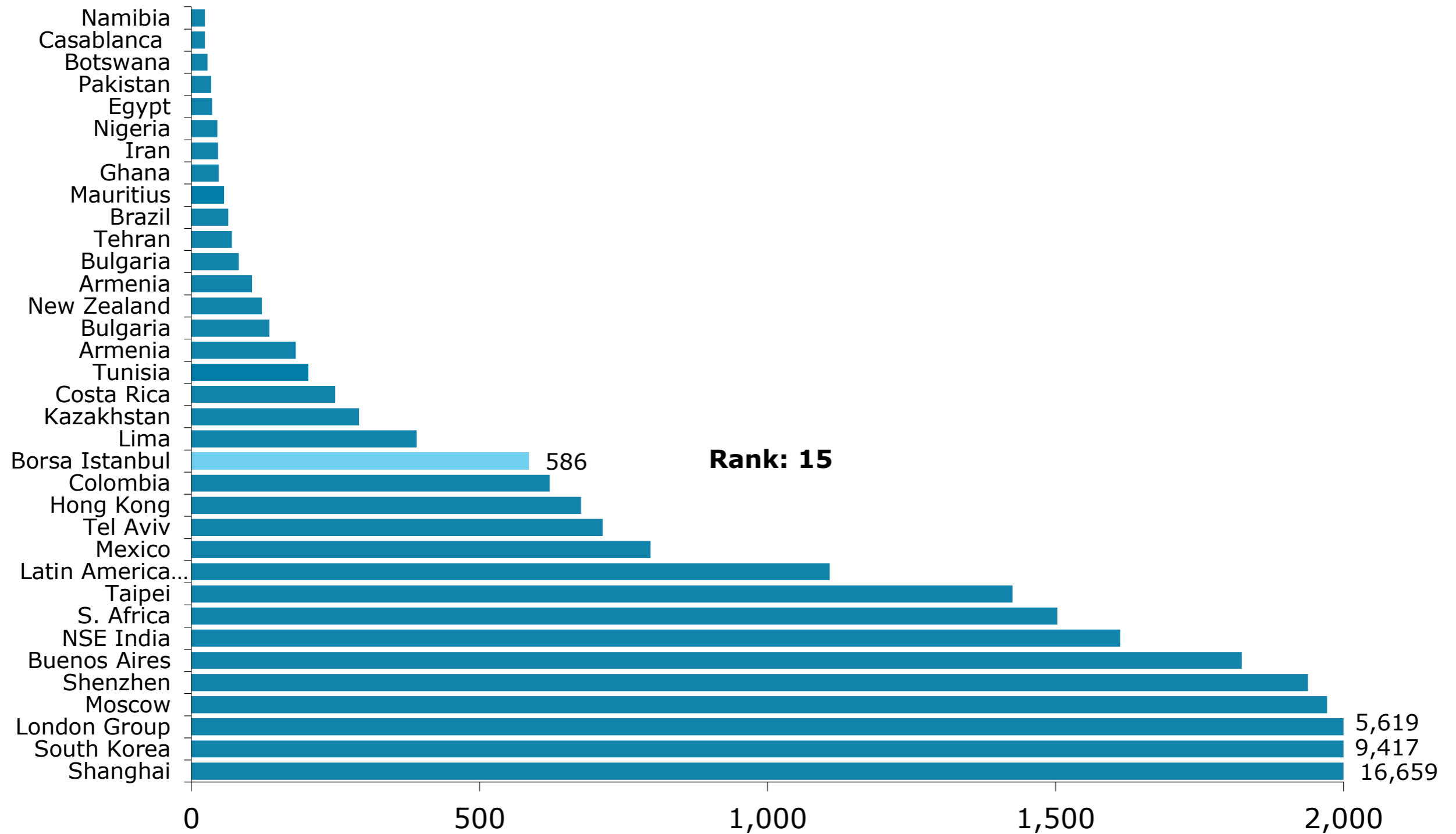
MARKET VALUE OF DOMESTIC CORPORATE DEBT SECURITIES (BILLION TL)



Source: Borsa İstanbul

Domestically issued bonds.
Lease certificates included.

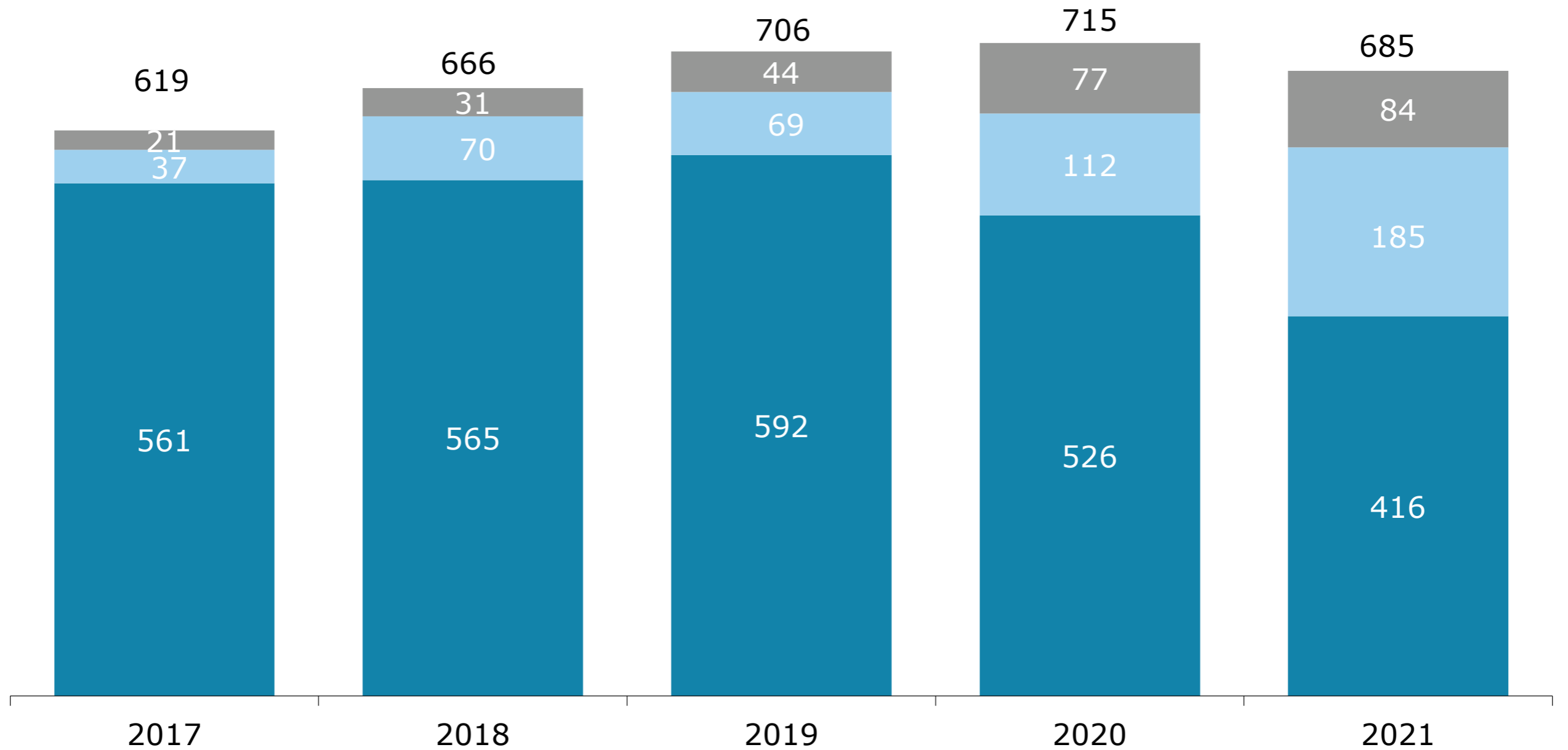
NUMBER OF LISTED CORPORATE BONDS (2021/11)



Source: WFE

BOND TRADING VOLUME

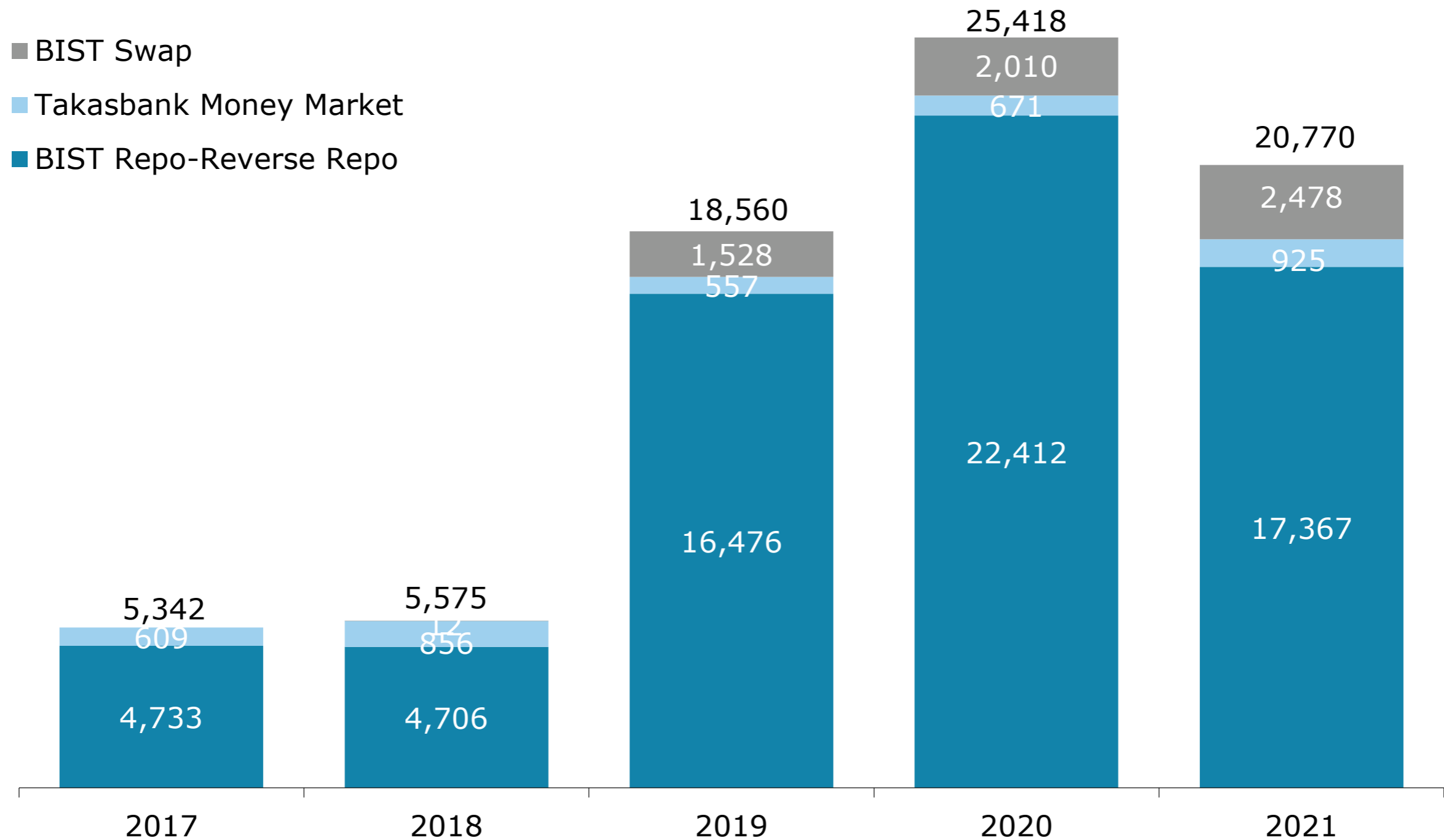
■ Eurobond ■ Corporate Bonds ■ Government Bonds



Source: Borsa Istanbul

Including over the counter transactions
OTC transactions data available only for Jan-Nov in the year 2021

REPO-REVERSE REPO, SWAP AND TAKASBANK MONEY MARKET TRADING VOLUME

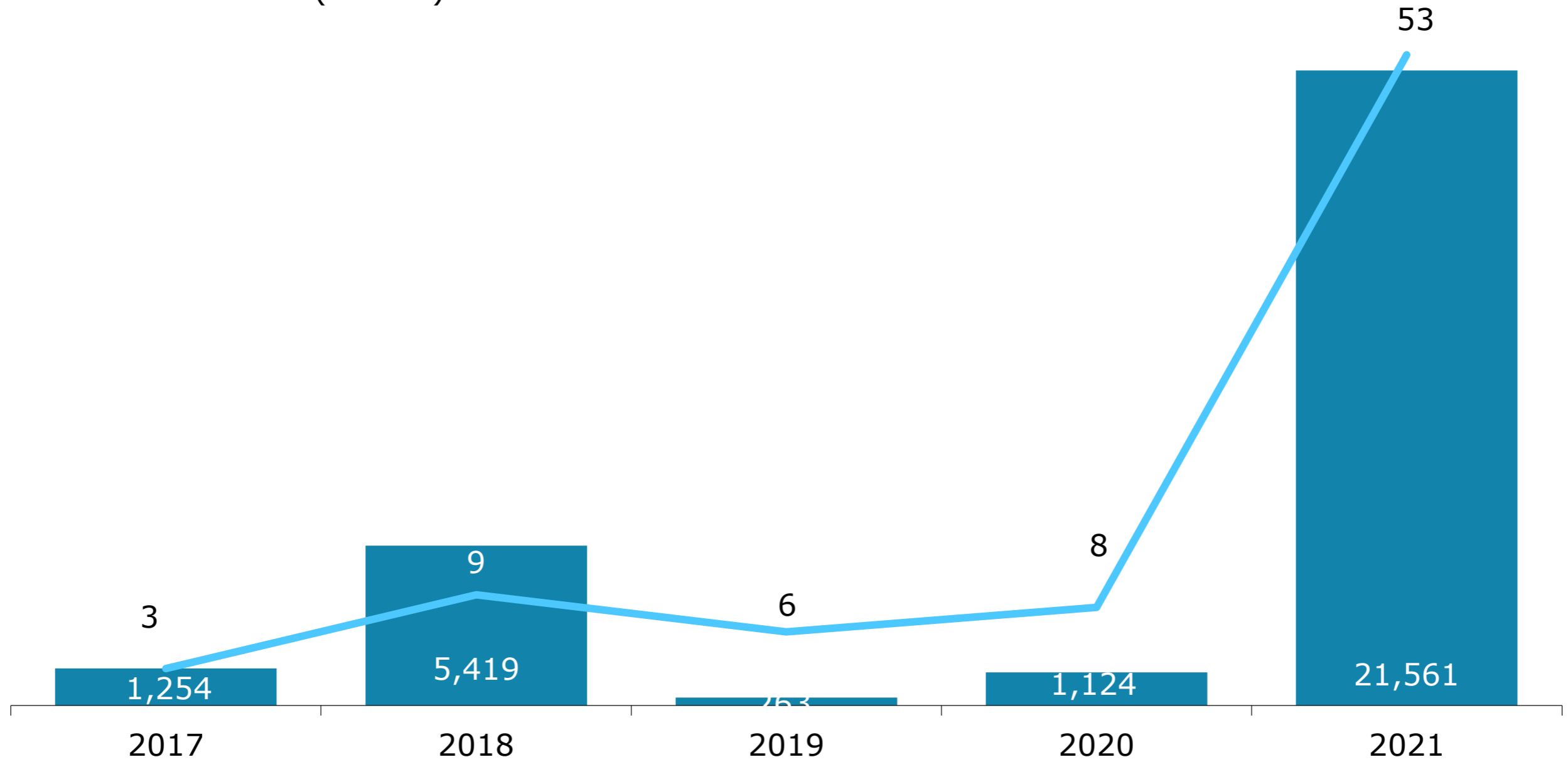


Source: Borsa Istanbul

Repo-reverse repo including over the counter transactions
 OTC transactions data available only for Jan-May in the year 2021

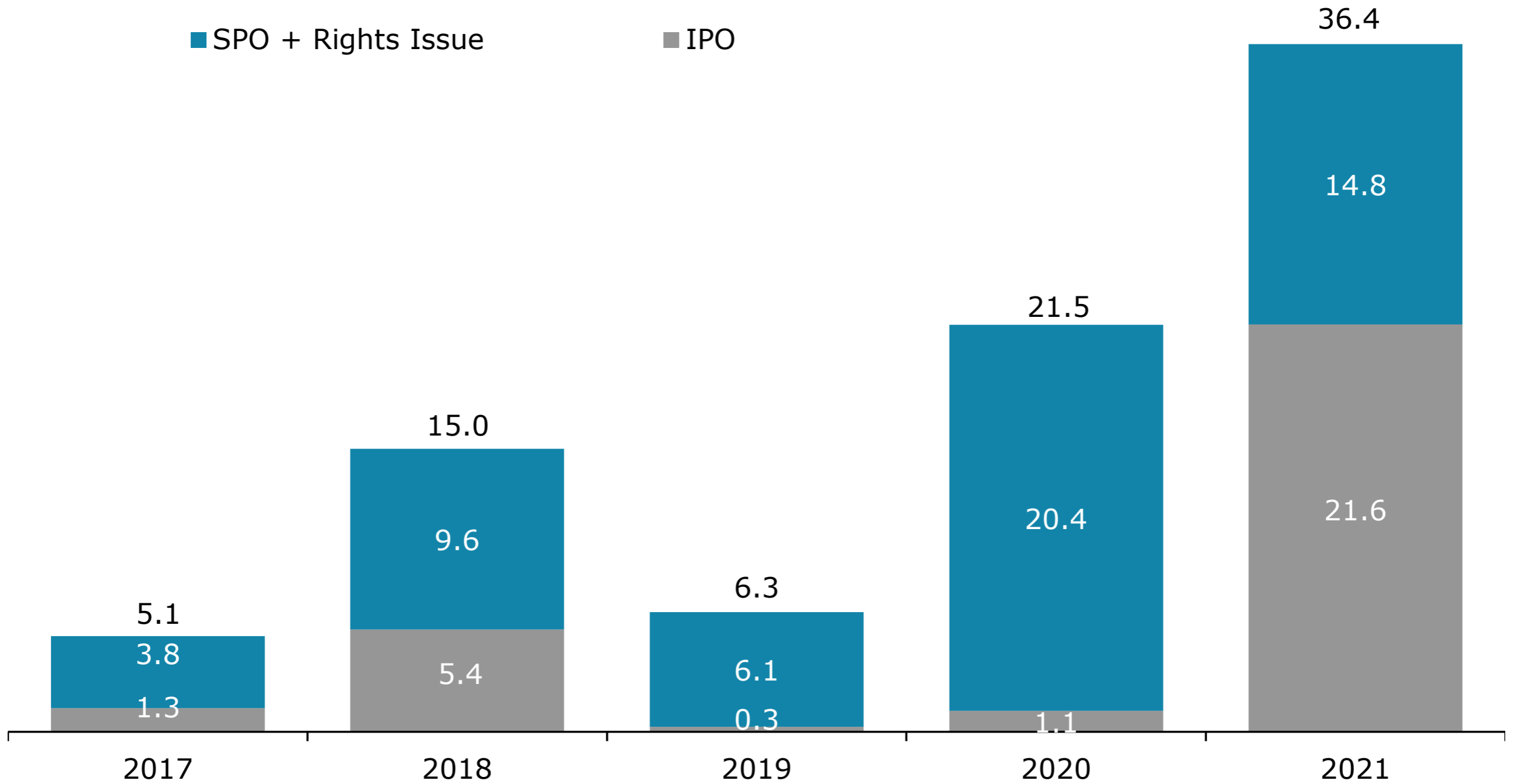
INITIAL PUBLIC OFFERINGS

IPO Volume (mn. TL) No. of IPOs



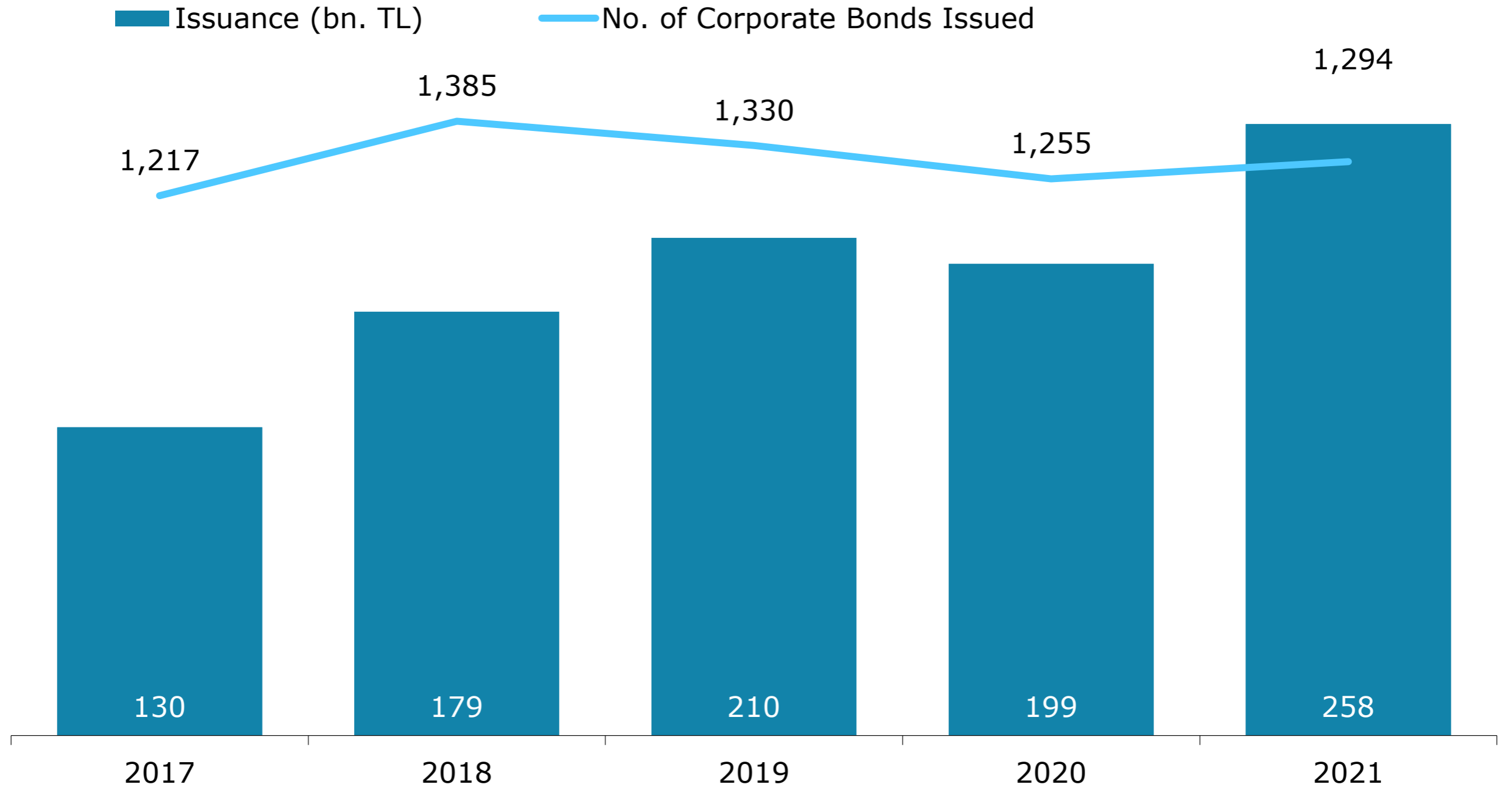
Source: Borsa Istanbul

EQUITY FINANCING (BILLION TL)



Source: Borsa Istanbul

CORPORATE DEBT SECURITIES ISSUANCE



Source: Borsa Istanbul

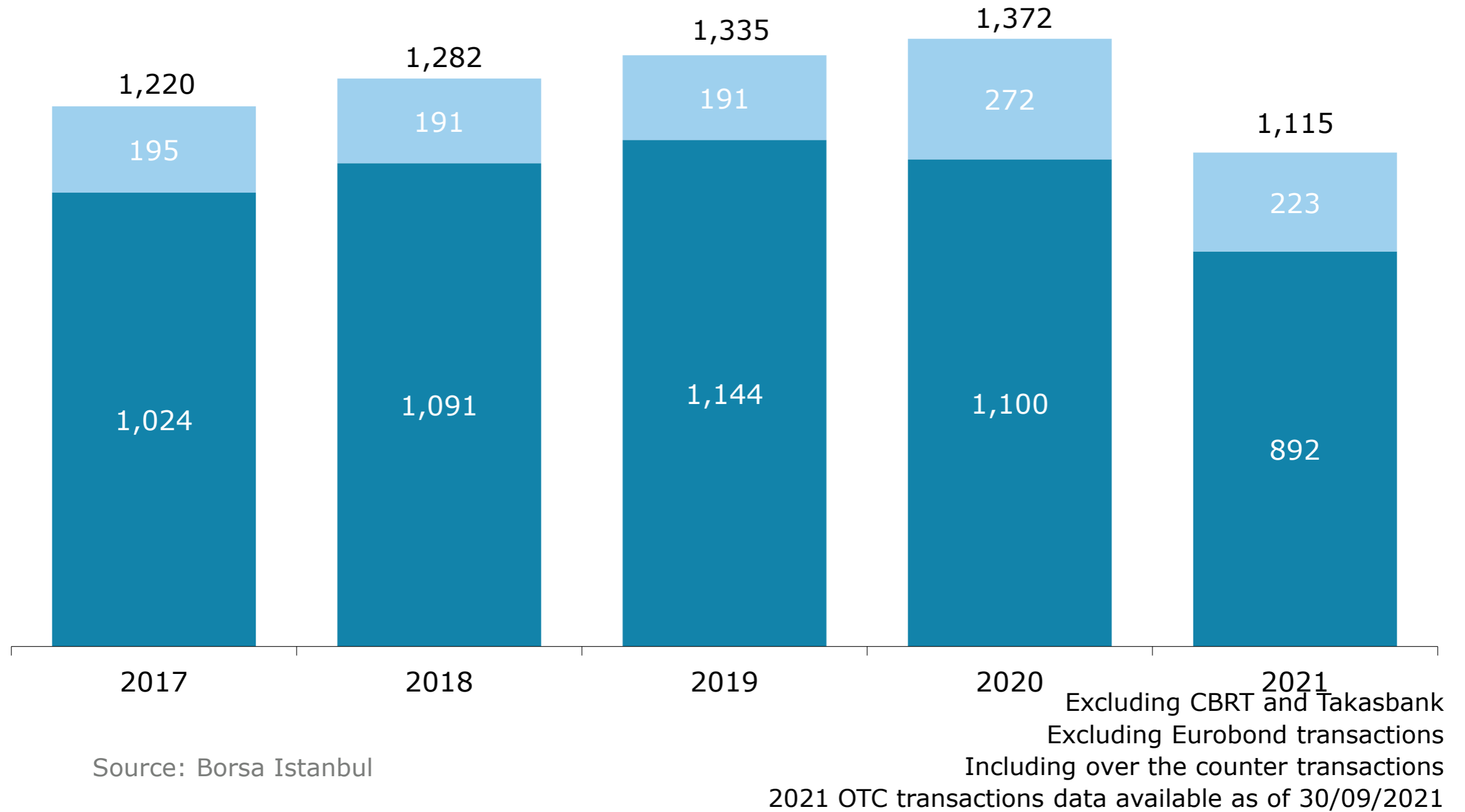
Excluding private placement

INVESTMENT INSTITUTIONS



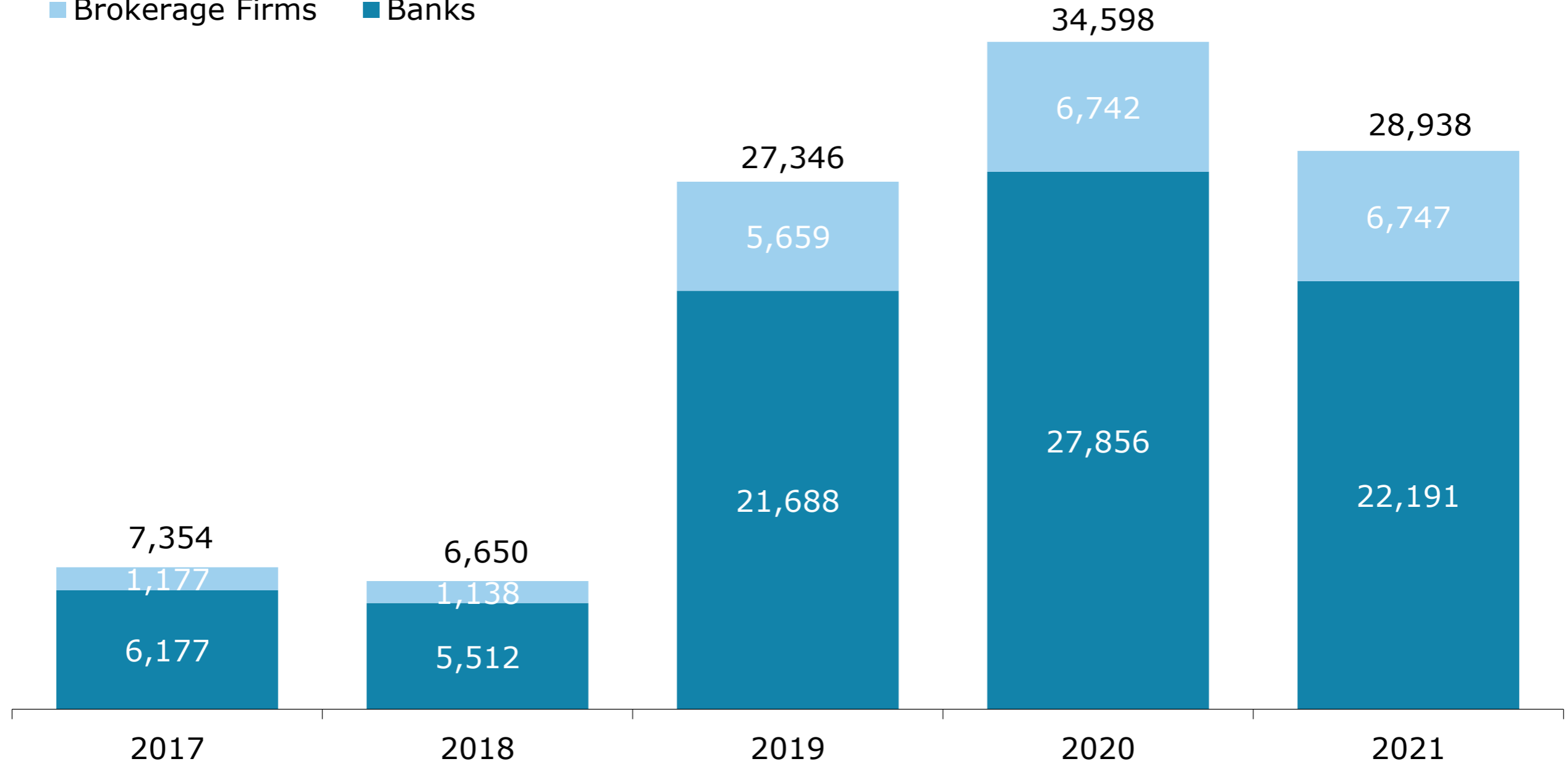
FIXED INCOME TRADING VOLUME OF INTERMEDIARIES (BILLION TL)

■ Brokerage Firms ■ Banks



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

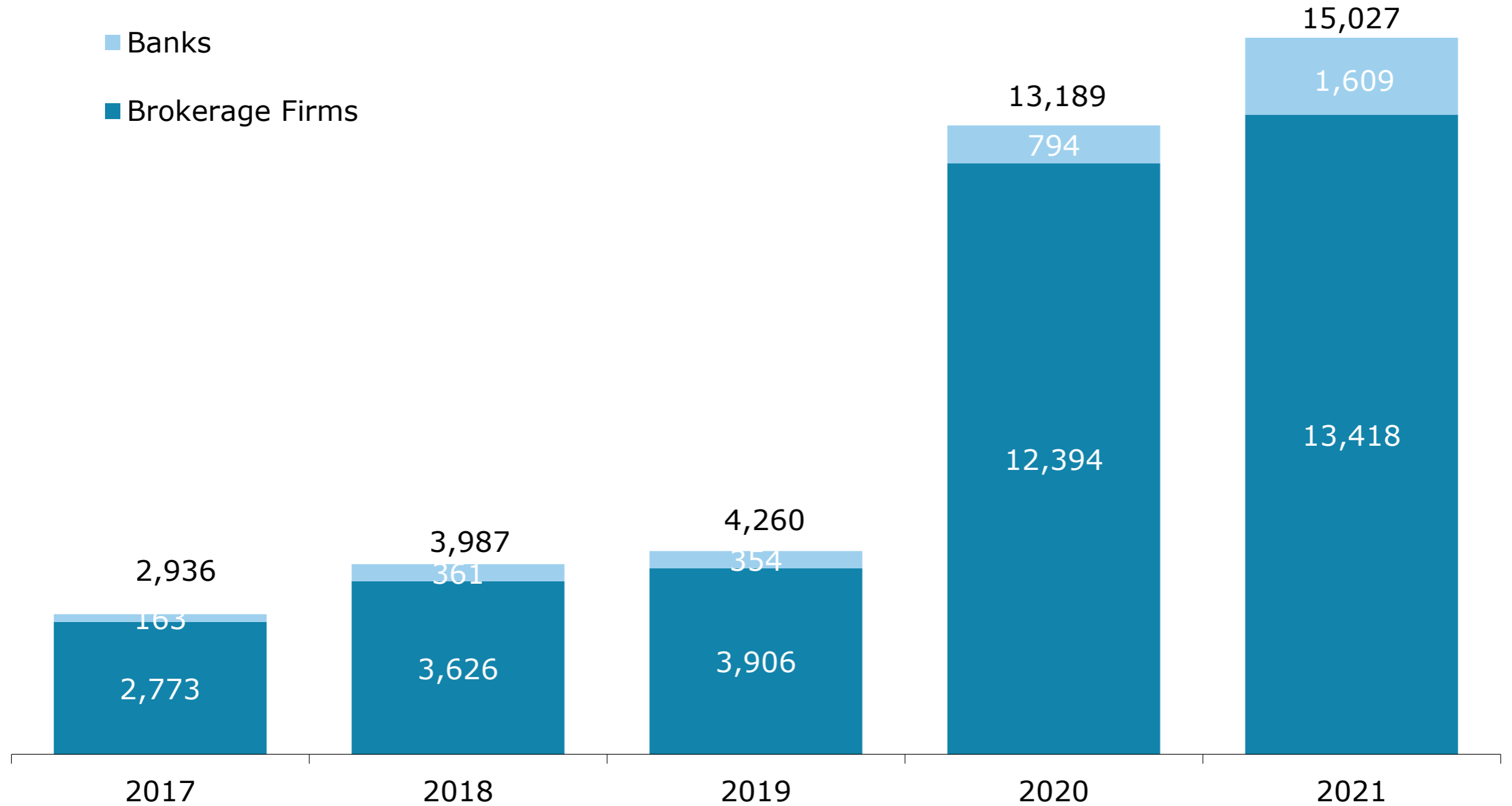
■ Brokerage Firms ■ Banks



Source: Borsa Istanbul

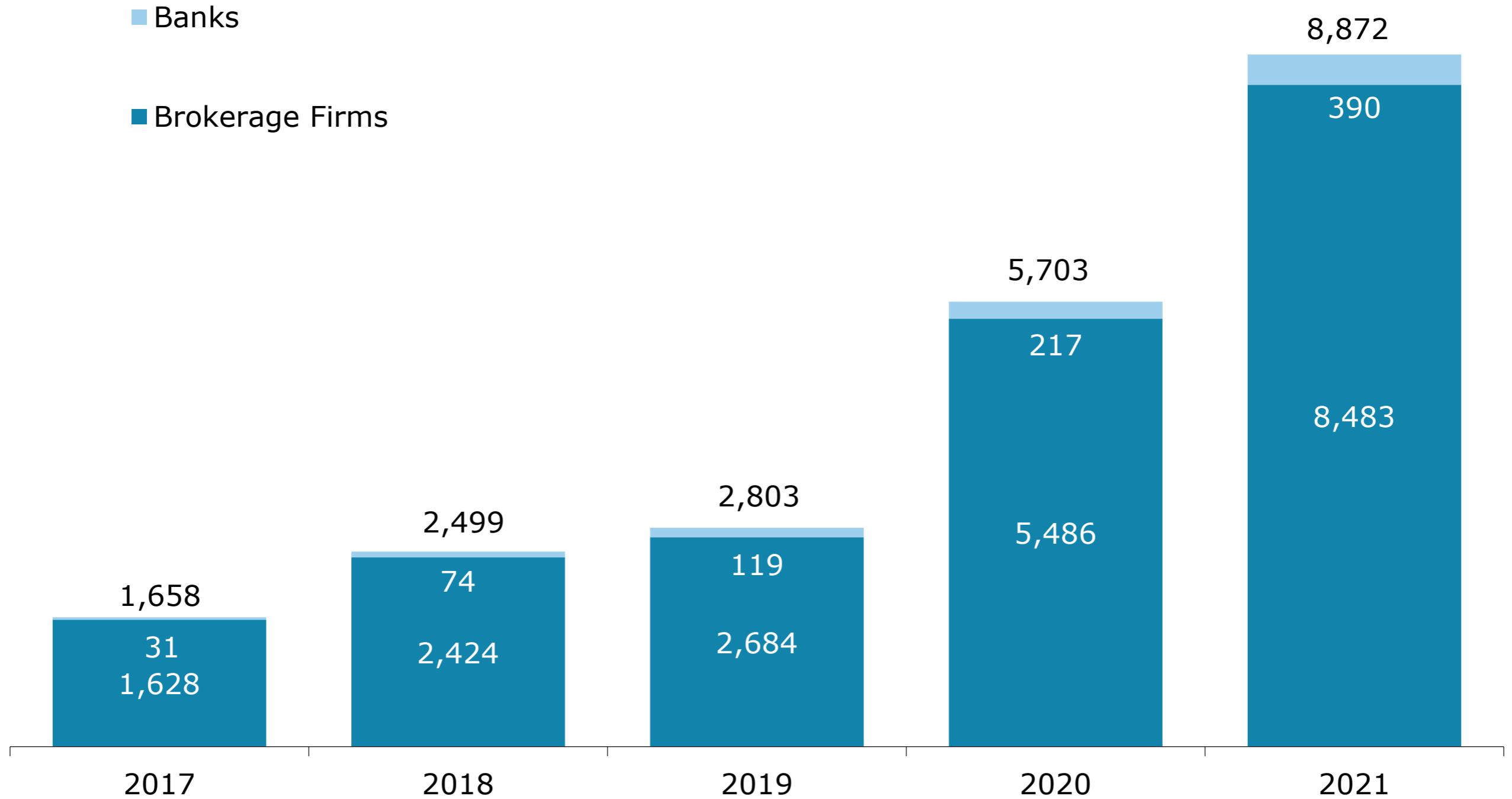
Excluding CBRT and Takasbank
Including over the counter transactions
OTC transactions data available as of 30/09/2021

EQUITY TRADING VOLUME OF INTERMEDIARIES (BILLION TL)



Source: Borsa Istanbul

FUTURES TRADING VOLUME OF INTERMEDIARIES (BILLION TL)

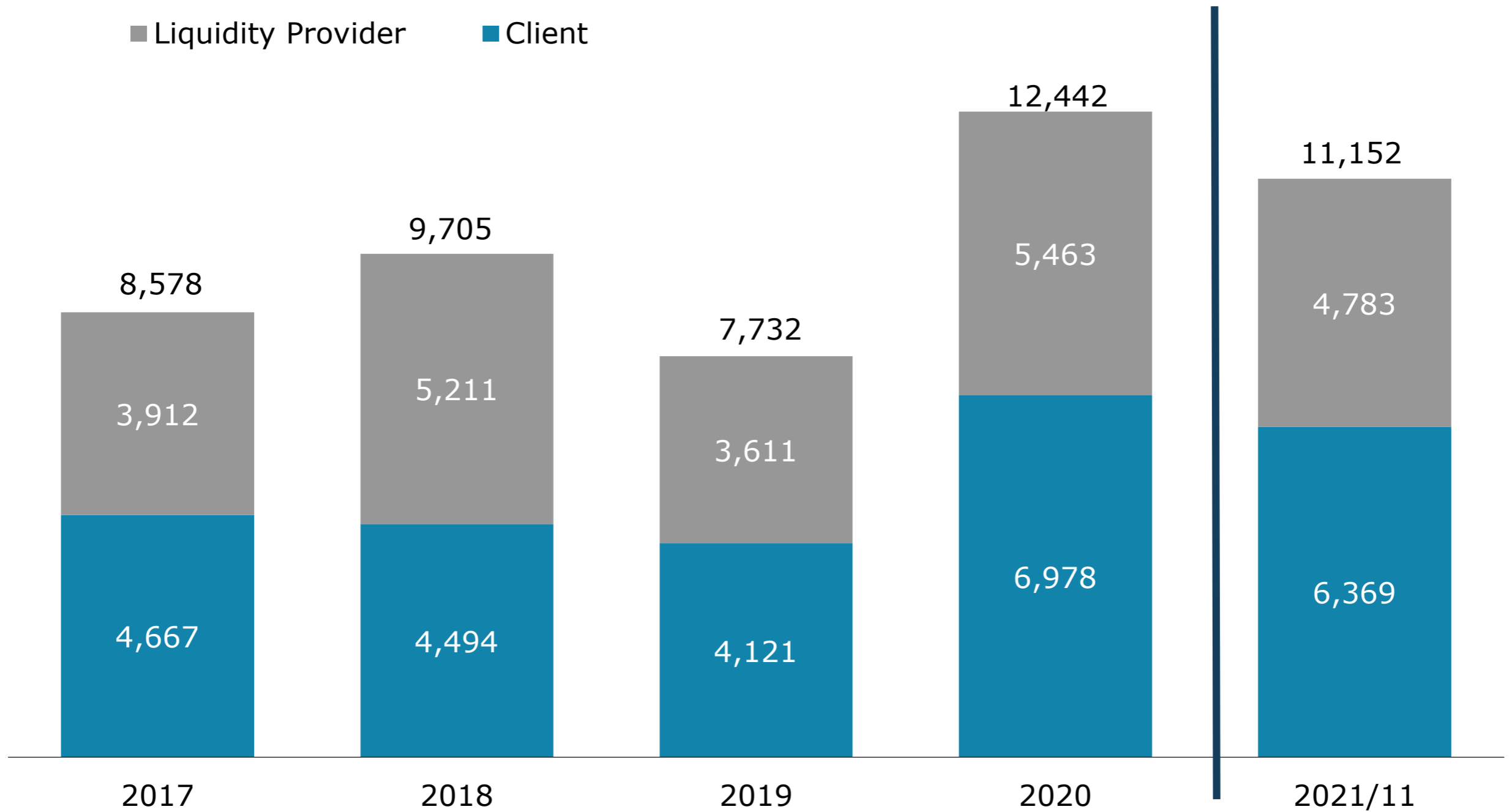


Source: Borsa Istanbul

Excluding CBRT

FOREX TRADING VOLUME (BILLION TL)

■ Liquidity Provider ■ Client

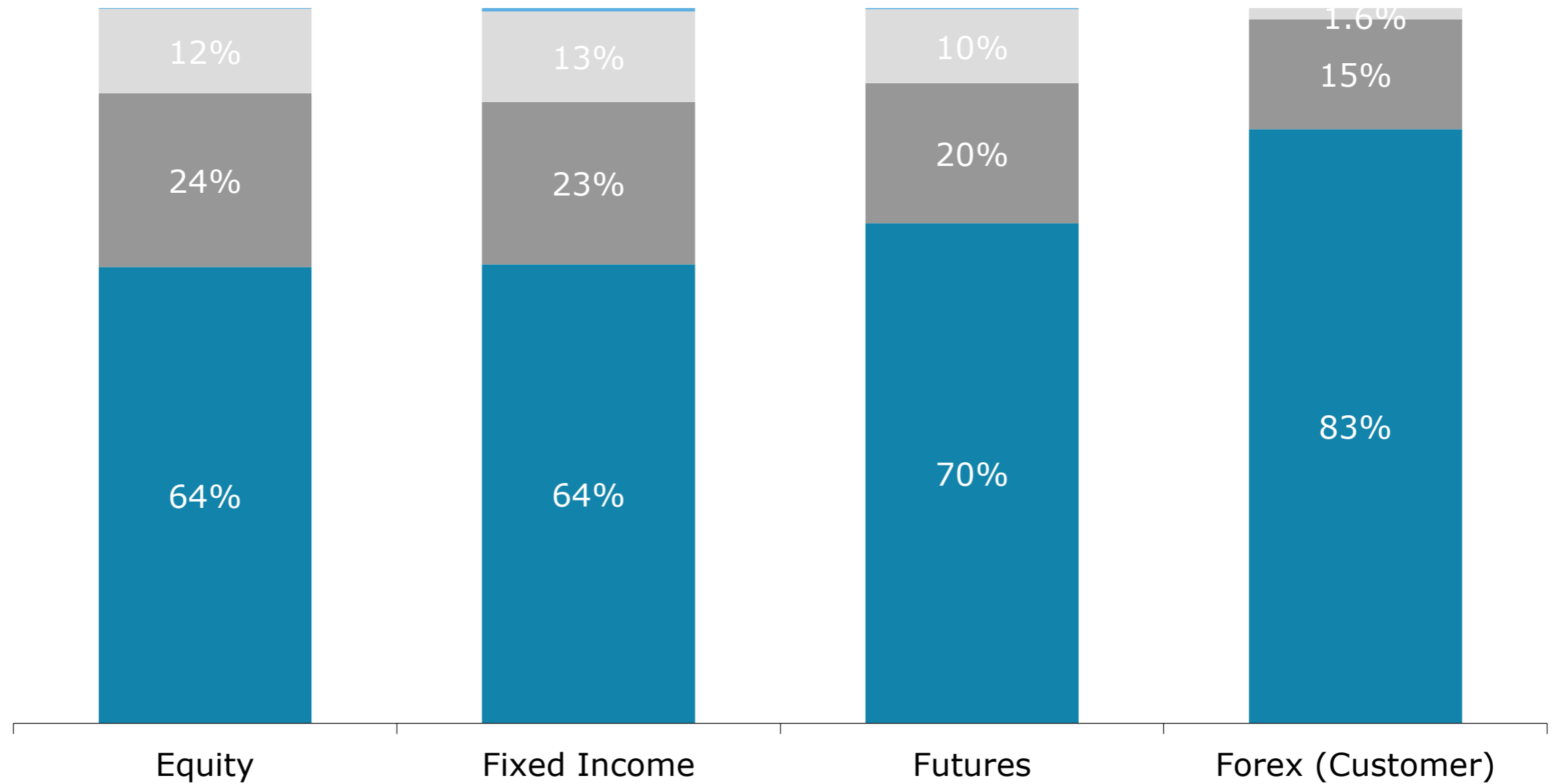


Source: TCMA

CONCENTRATION IN TRADING VOLUMES (2021)

No. of Intermediaries

■ 51+ ■ 21-50 ■ 11-20 ■ 1-10



Source: Borsa Istanbul, TCMA

Forex transactions as of 30/11/2021.

TOP 10 MEMBERS IN THE MARKETS (2021)

Equity Market

1	YAPI KREDİ YATIRIM	14%
2	BANK OF AMERICA	11%
3	İŞ YATIRIM	9%
4	GARANTİ YATIRIM	6%
5	AK YATIRIM	5%
6	İFO YATIRIM	5%
7	GEDİK YATIRIM	4%
8	DENİZ YATIRIM	4%
9	A1 CAPITAL	4%
10	QNB FİNANS YATIRIM	4%
	Total (billion TL)	15,027

Futures Market

1	YAPI KREDİ YATIRIM	22%
2	İŞ YATIRIM	11%
3	QNB FİNANS YATIRIM	6%
4	TACİRLER MENKUL	5%
5	İFO YATIRIM	5%
6	GARANTİ YATIRIM	5%
7	DENİZ YATIRIM	5%
8	AK YATIRIM	4%
9	GEDİK YATIRIM	4%
10	TEB YATIRIM	3%
	Total (billion TL)	8,872

Fixed Income Market*

1	HSBC BANK	11%
2	JPMORGAN	10%
3	TÜRKİYE GARANTİ BANKASI	8%
4	TÜRK EKONOMİ BANKASI	7%
5	AKTİF YATIRIM BANK	7%
6	OYAK YATIRIM	5%
7	AKBANK	5%
8	AK YATIRIM	5%
9	TÜRKİYE İŞ BANKASI	4%
10	TÜRKİYE VAKIFLAR BANKASI	3%
	Total (trillion TL)	1,115

Forex Market* (Customer)

1	GCM YATIRIM	16%
2	AK YATIRIM	14%
3	INTEGRAL YATIRIM	11%
4	İŞ YATIRIM	9%
5	MEKSA YATIRIM	9%
6	İFO YATIRIM	9%
7	İŞIK MENKUL	5%
8	GEDİK YATIRIM	4%
9	DENİZ YATIRIM	3%
10	ALB YATIRIM	3%
	Total (billion TL)	6,369

Excluding Central Bank and Takasbank.

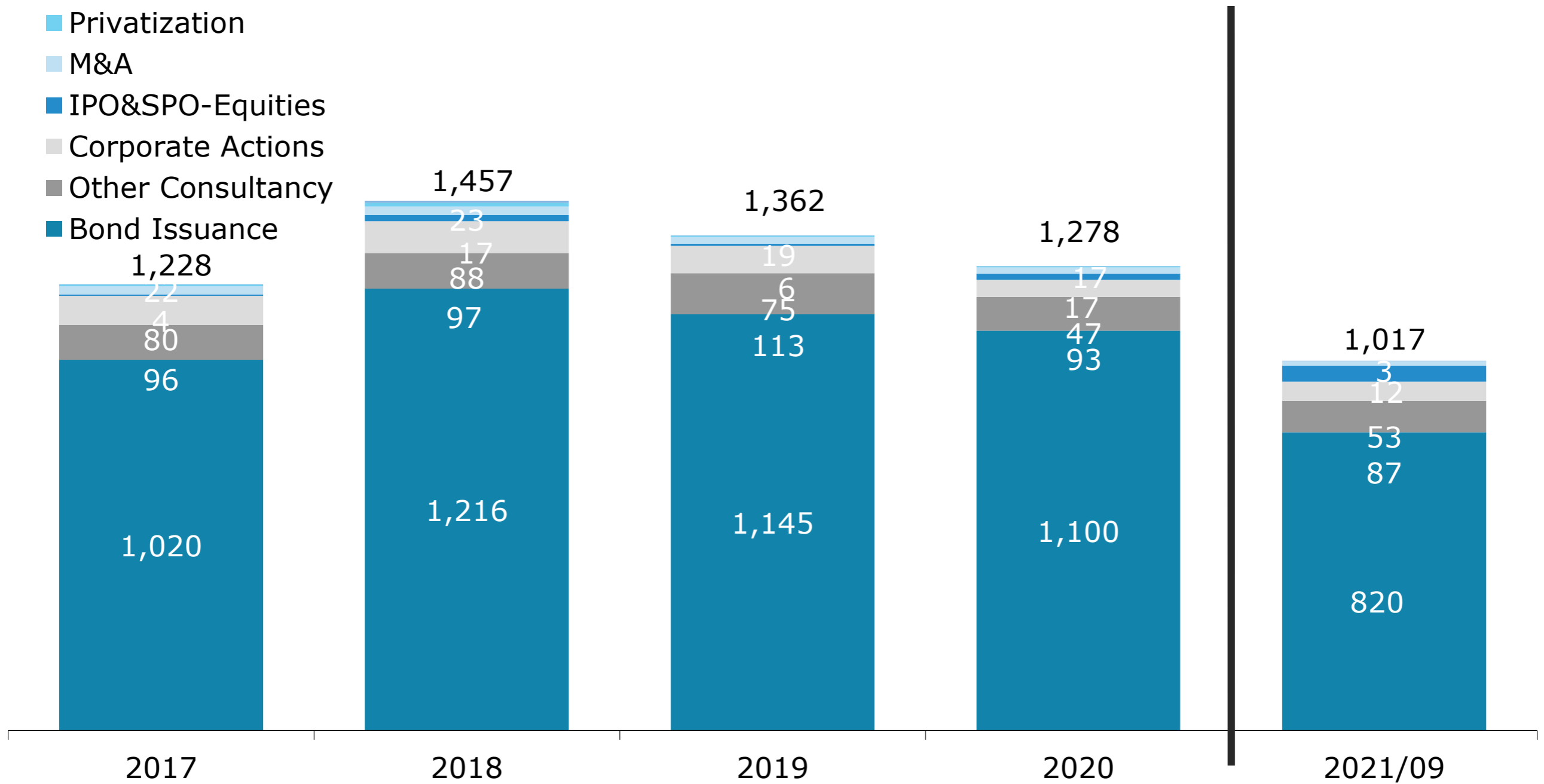
*Including OTC transactions as of 30/09/2021.

**Forex transactions as of 30/11/2021.

Source: Borsa Istanbul, TCMA

NUMBER OF FINALIZED CORPORATE FINANCE DEALS (BROKERAGE FIRMS ONLY)

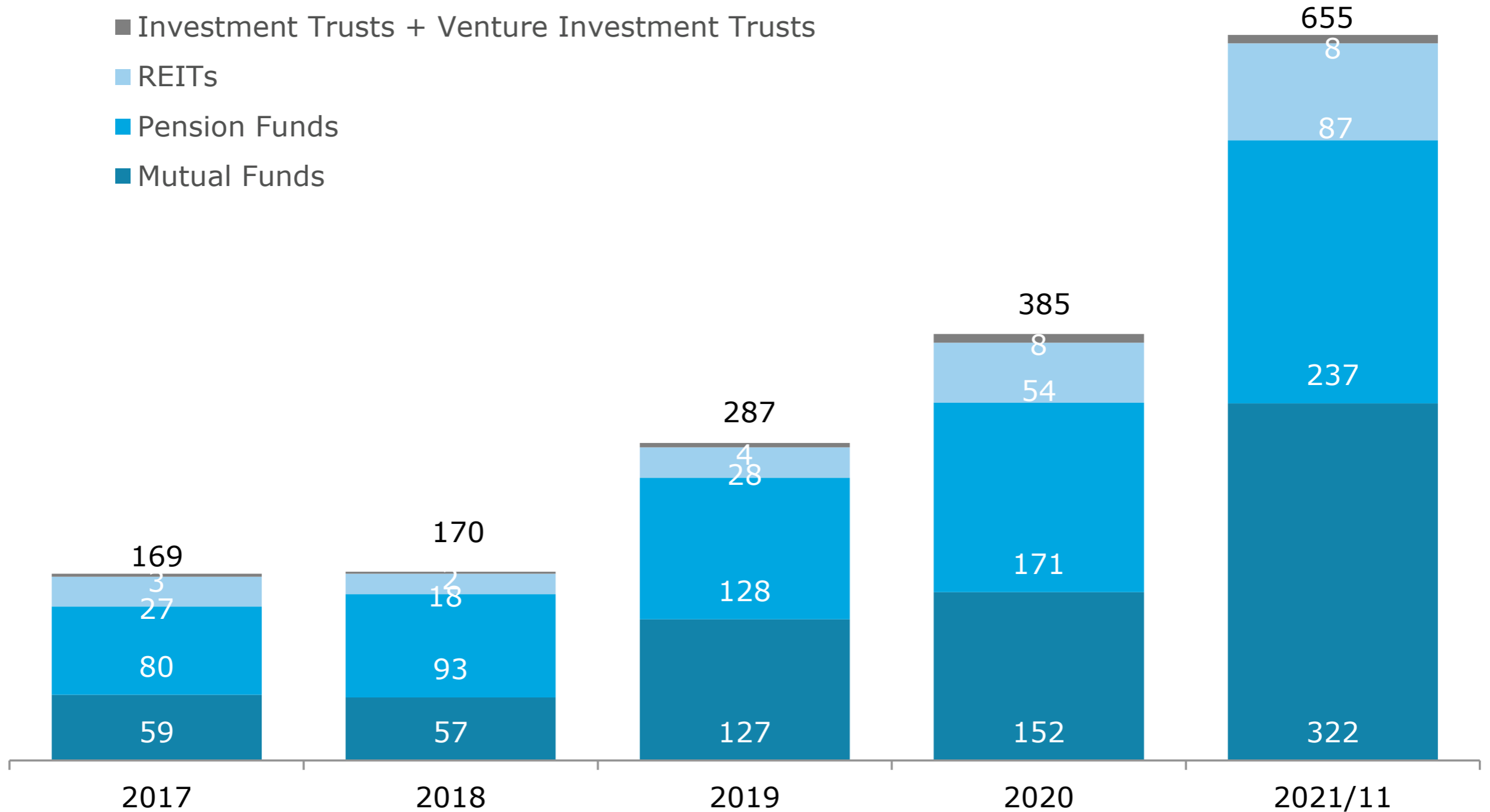
- Other Financing
- Privatization
- M&A
- IPO&SPO-Equities
- Corporate Actions
- Other Consultancy
- Bond Issuance



Source: TCMA

INSTITUTIONAL INVESTMENTS (BILLION TL)

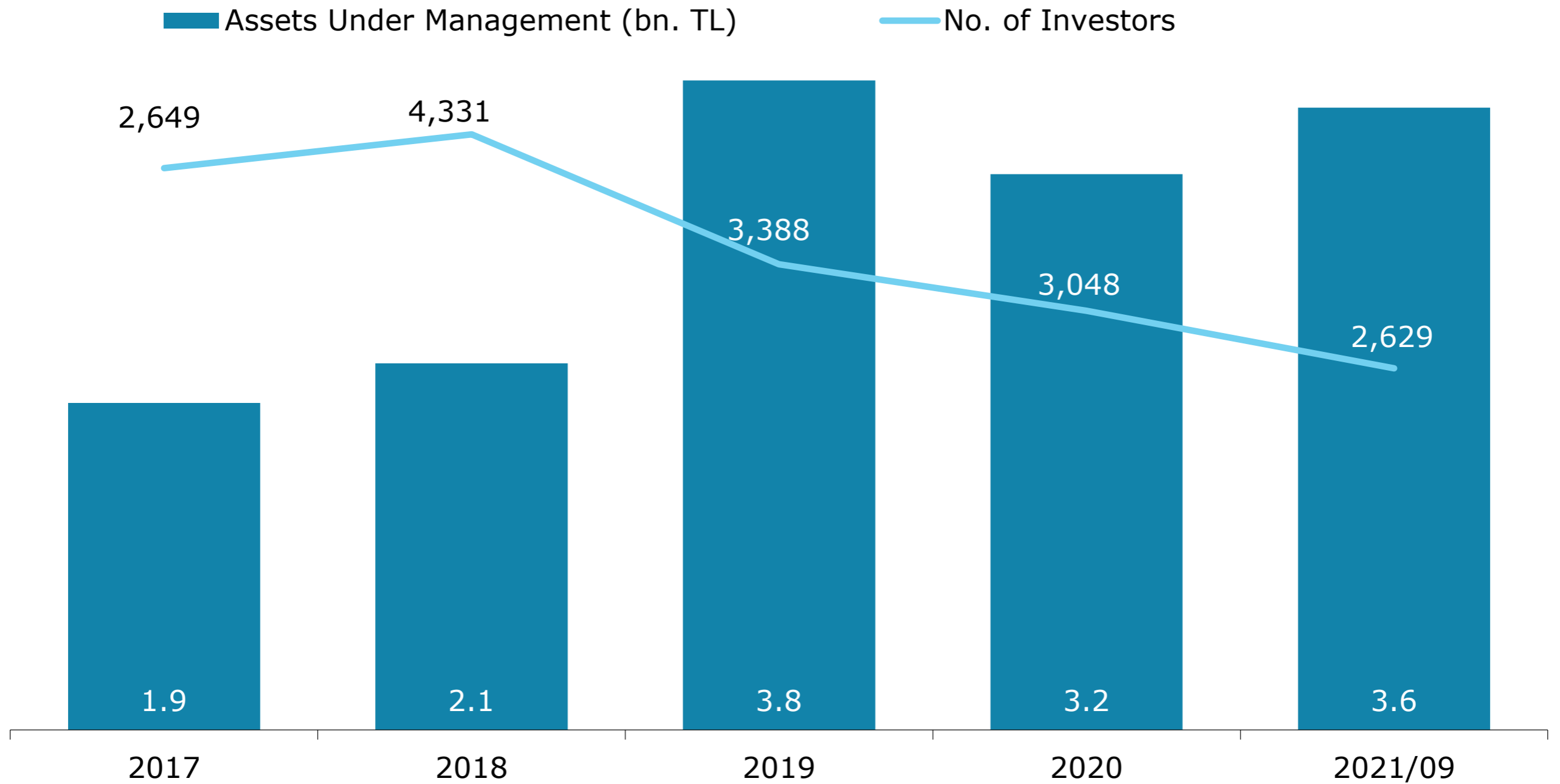
- Investment Trusts + Venture Investment Trusts
- REITs
- Pension Funds
- Mutual Funds



Mcap of investment trusts

Source: Borsa Istanbul, TCMA

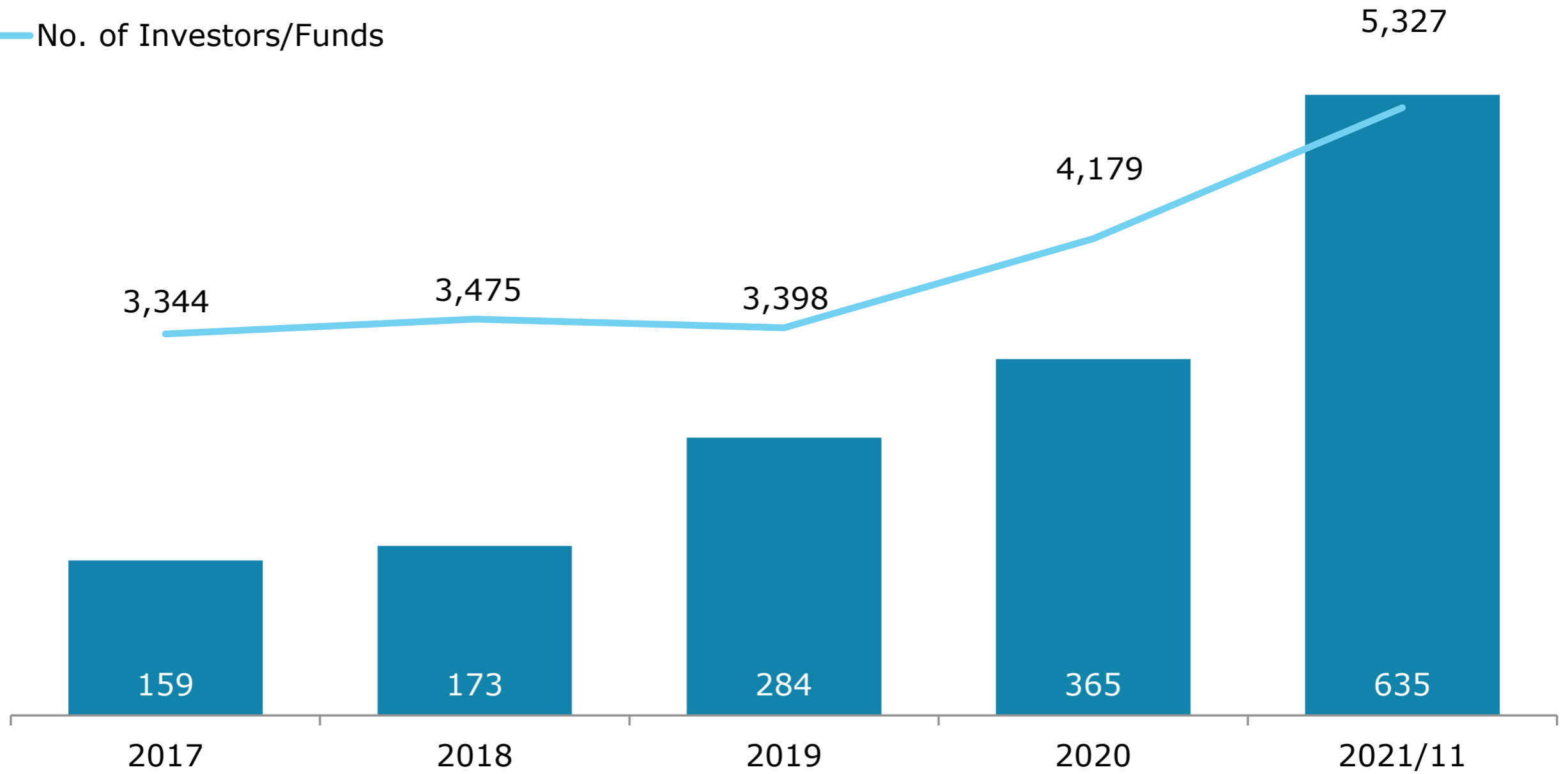
ASSET MANAGEMENT BY BROKERAGE FIRMS



Source: TCMA

ASSET MANAGEMENT BY ASSET MANAGEMENT COMPANIES

■ Assets Under Management (bn. TL)
— No. of Investors/Funds

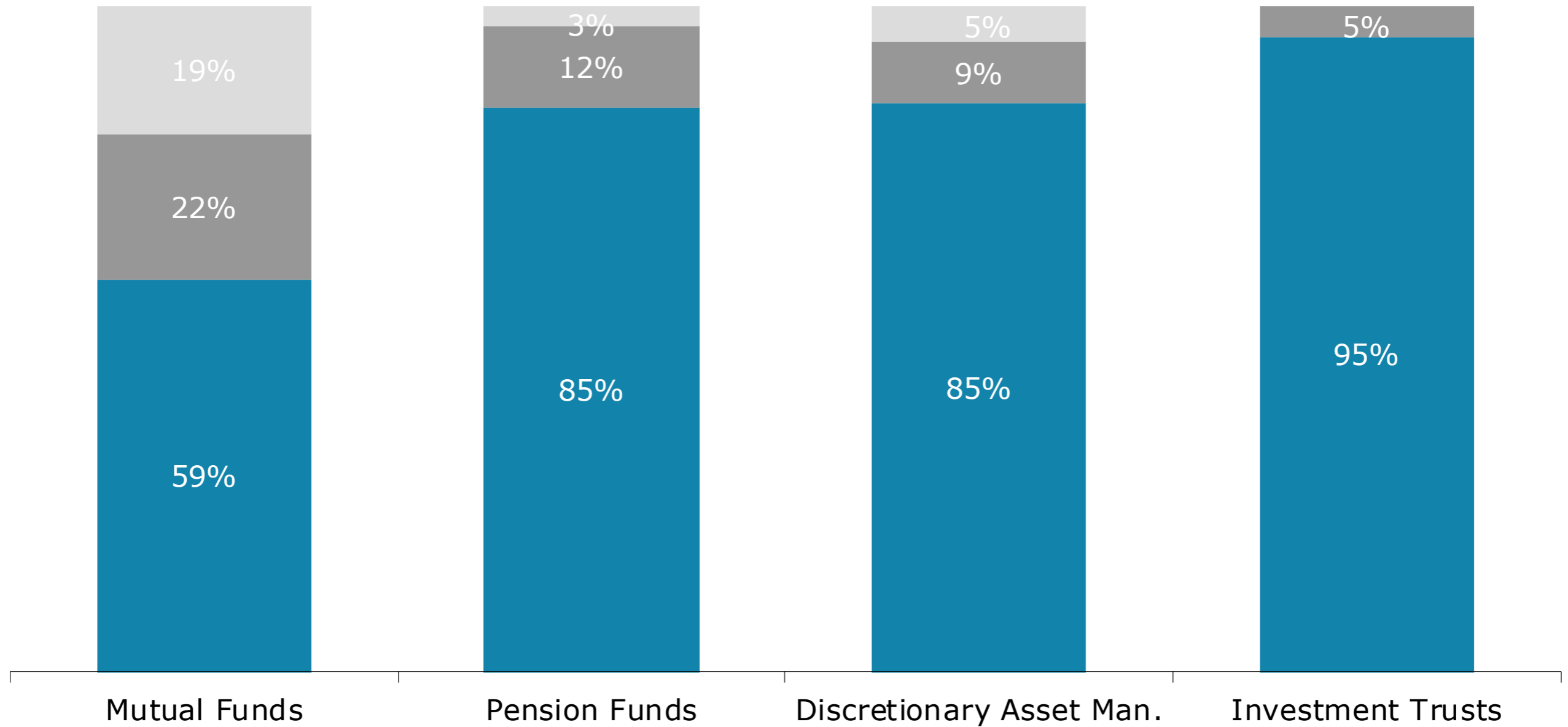


Source: TCMA

CONCENTRATION IN PORTFOLIO MANAGEMENT FIRMS (2021/11)

Number of Asset Management Companies

■ 10+ ■ 6-10 ■ 1-5



Source: TCMA

TOP 5 MEMBERS IN PORTFOLIO MANAGEMENT ACTIVITIES (2021/11)

Mutual Funds

1	YAPI KREDİ PORTFÖY	14%
2	İŞ PORTFÖY	13%
3	AZİMUT PORTFÖY	12%
4	AK PORTFÖY	11%
5	ZİRAAT PORTFÖY	10%
	Total (billion TL)	322.4

Pension Funds

1	ZİRAAT PORTFÖY	22%
2	AK PORTFÖY	19%
3	İŞ PORTFÖY	17%
4	GARANTİ PORTFÖY	14%
5	YAPI KREDİ PORTFÖY	14%
	Total (billion TL)	237.4

Discretionary Asset Management

1	AZİMUT PORTFÖY	21%
2	ZİRAAT PORTFÖY	19%
3	AK PORTFÖY	18%
4	İŞ PORTFÖY	14%
5	İSTANBUL PORTFÖY	14%
	Total (billion TL)	74.2

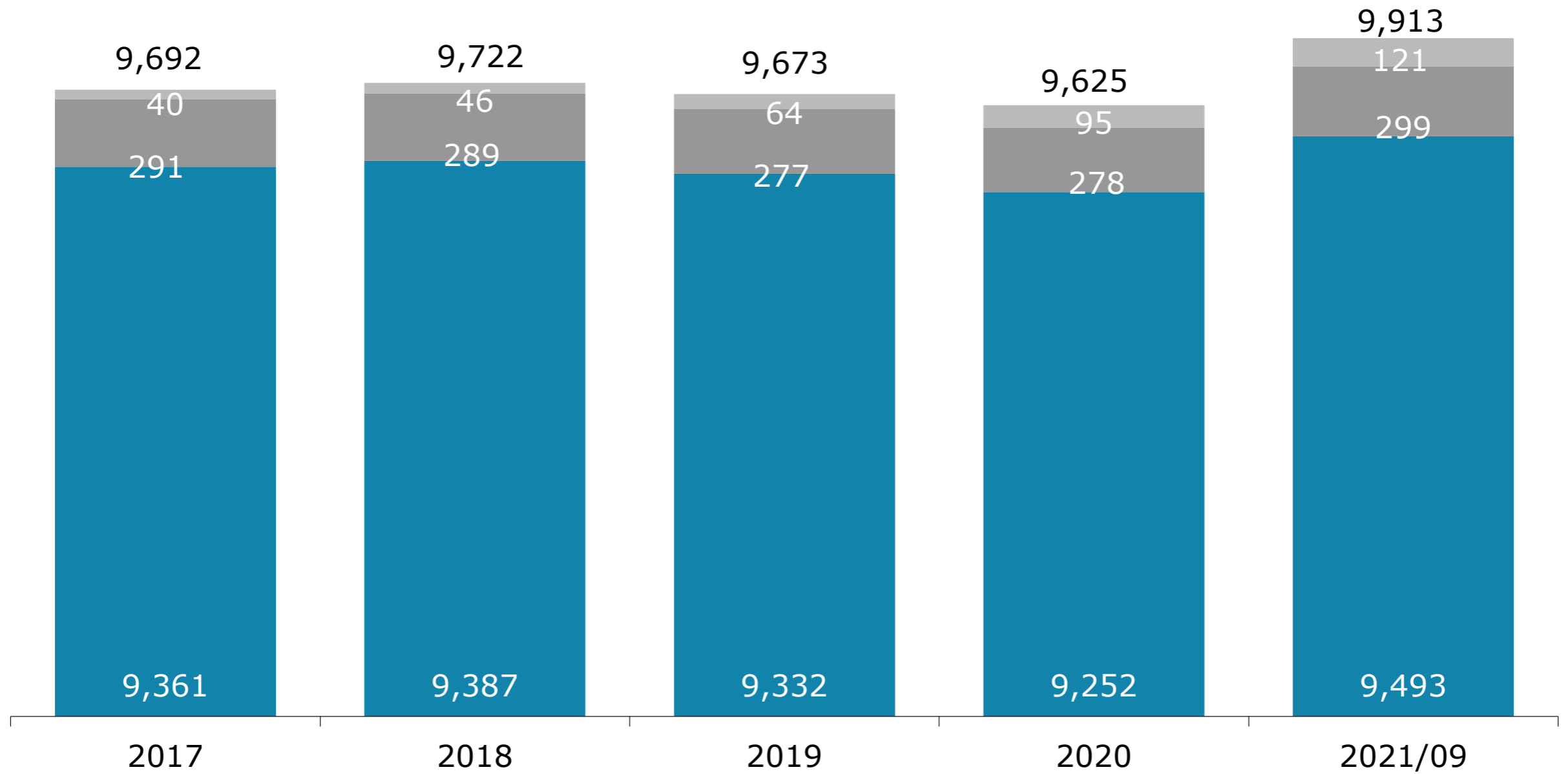
Investment Trusts

1	METRO PORTFÖY	33%
2	HEDEF PORTFÖY	29%
3	İŞ PORTFÖY	24%
4	LOGOS PORTFÖY	5%
5	GARANTİ PORTFÖY	4%
	Total (billion TL)	0.93

Source: TCMA

BROKERAGE FIRMS' BRANCH NETWORK

■ Bank Branches ■ Branches ■ Rep. Offices

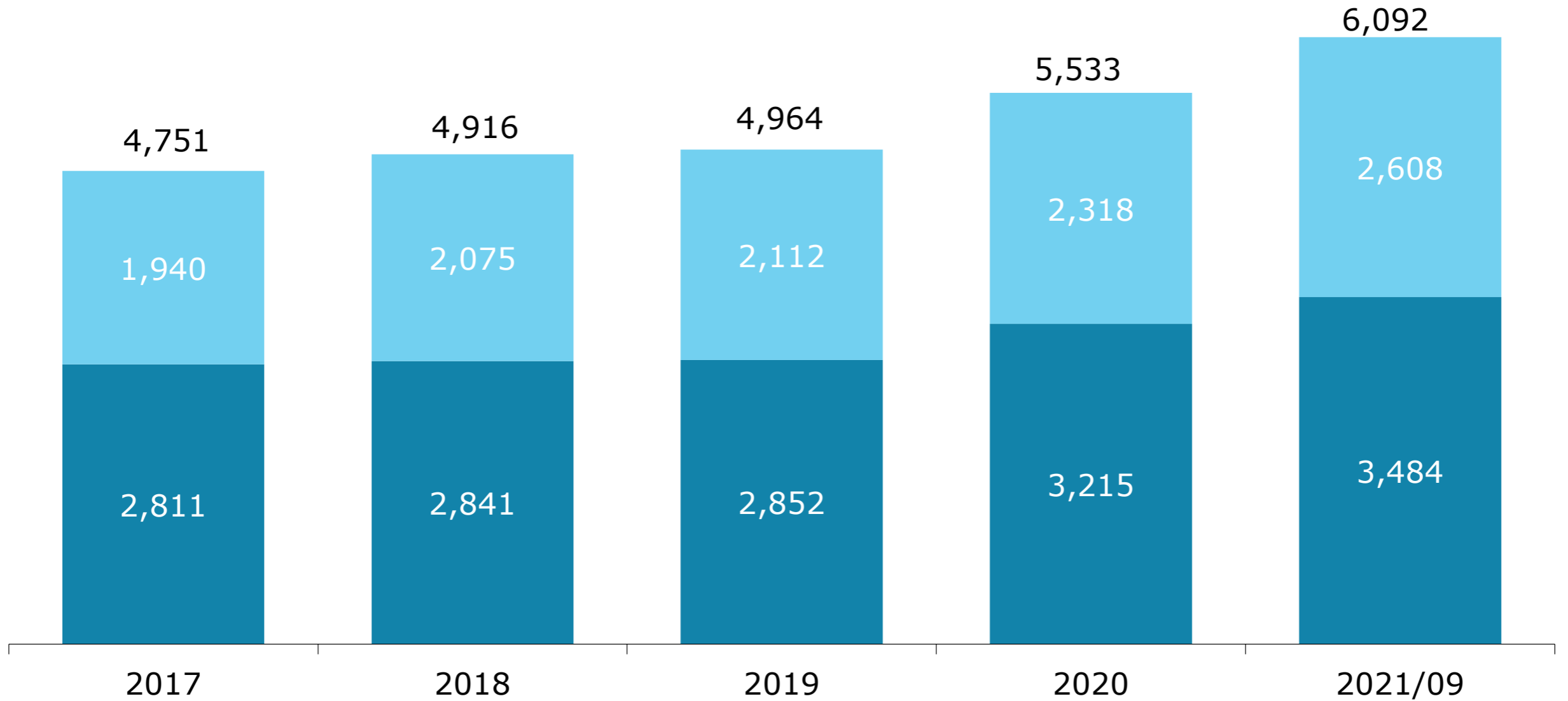


Source: TCMA

BROKERAGE FIRMS' EMPLOYEES

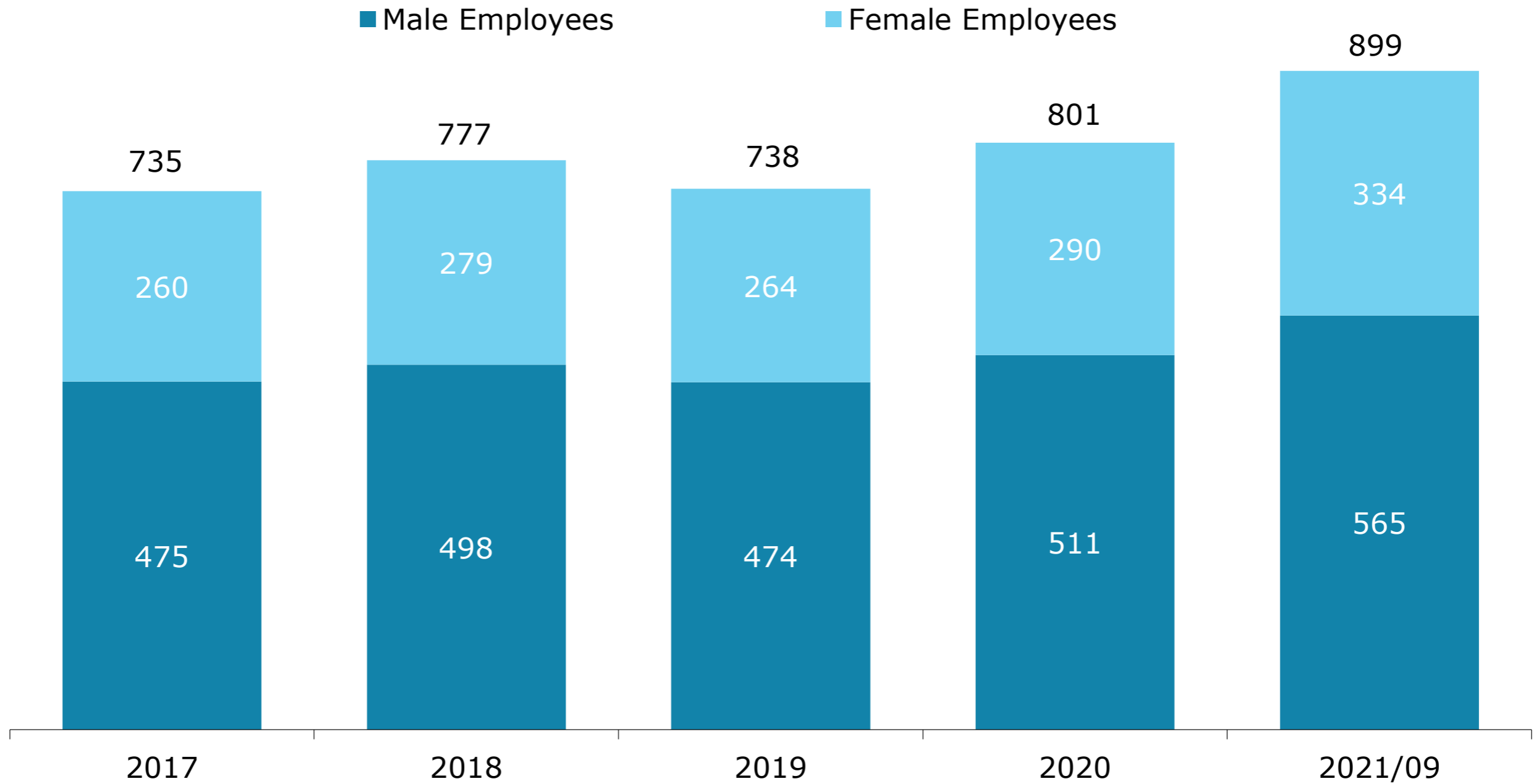
■ Male Employees

■ Female Employees



Source: TCMA

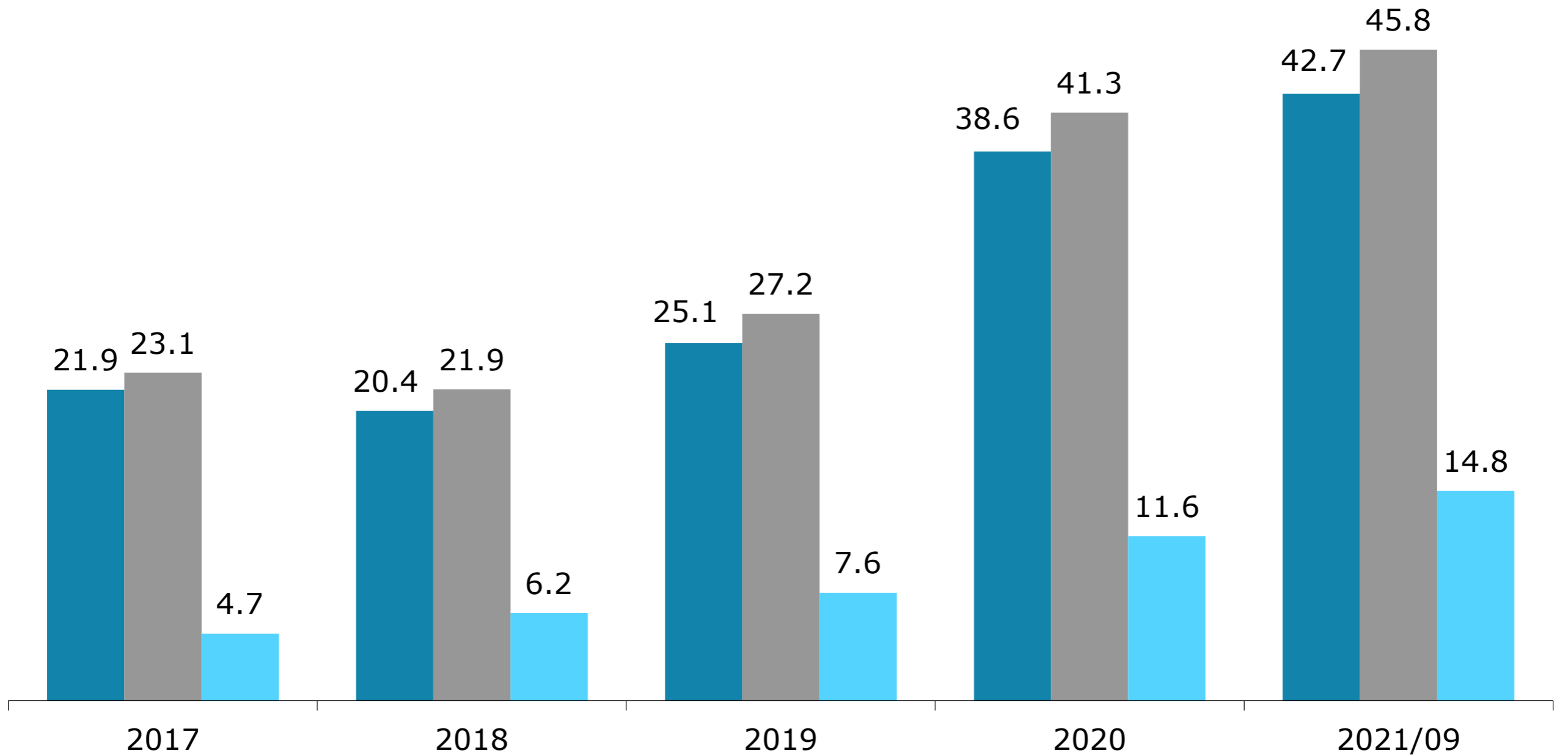
ASSET MANAGEMENT COMPANIES' EMPLOYEES



Source: TCMA

BALANCE SHEET OF BROKERAGE FIRMS (BILLION TL)

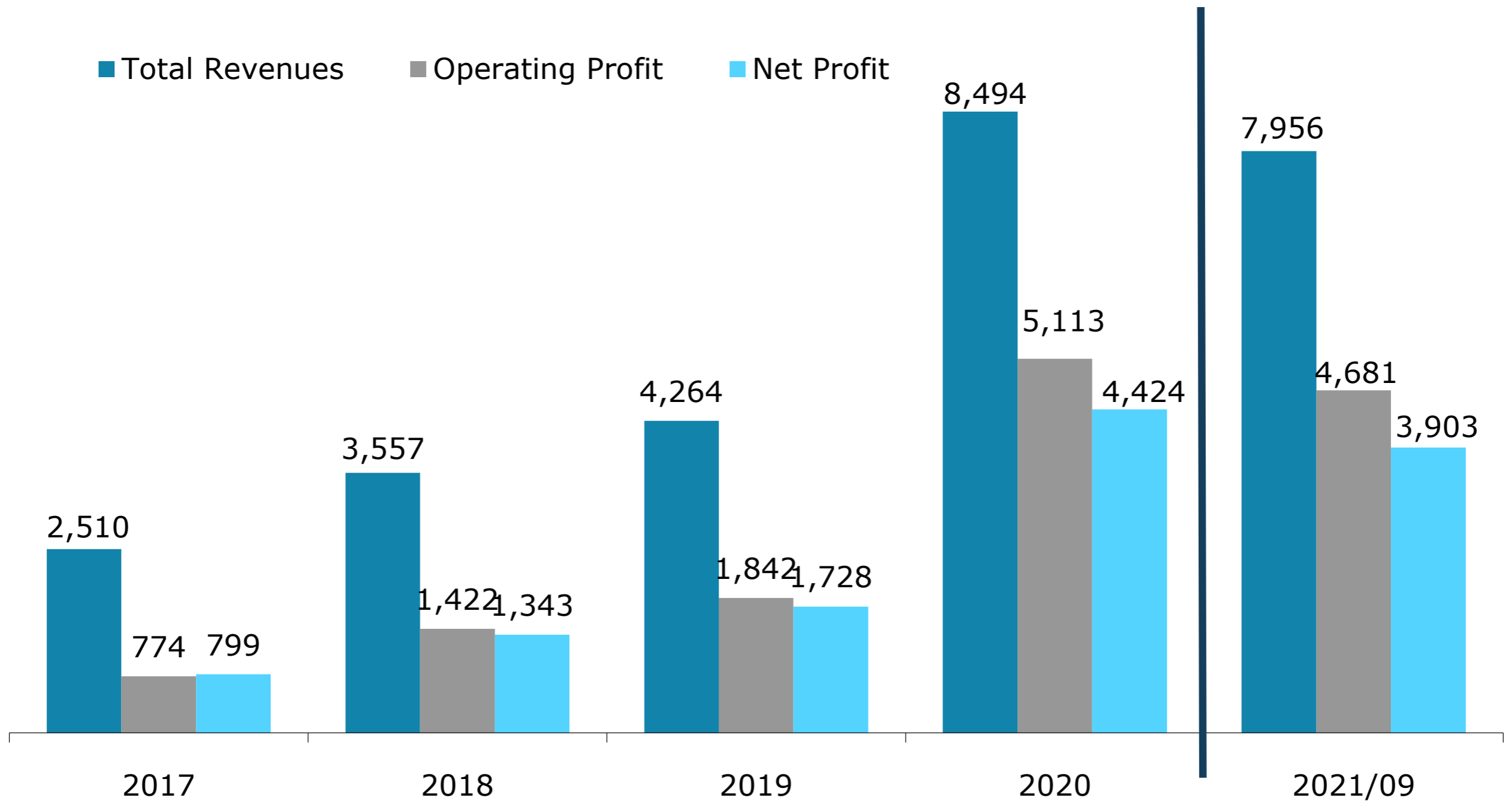
■ Current Assets ■ Total Assets ■ Shareholders' Equity



Source: TCMA

INCOME STATEMENT OF BROKERAGE FIRMS (MILLION TL)

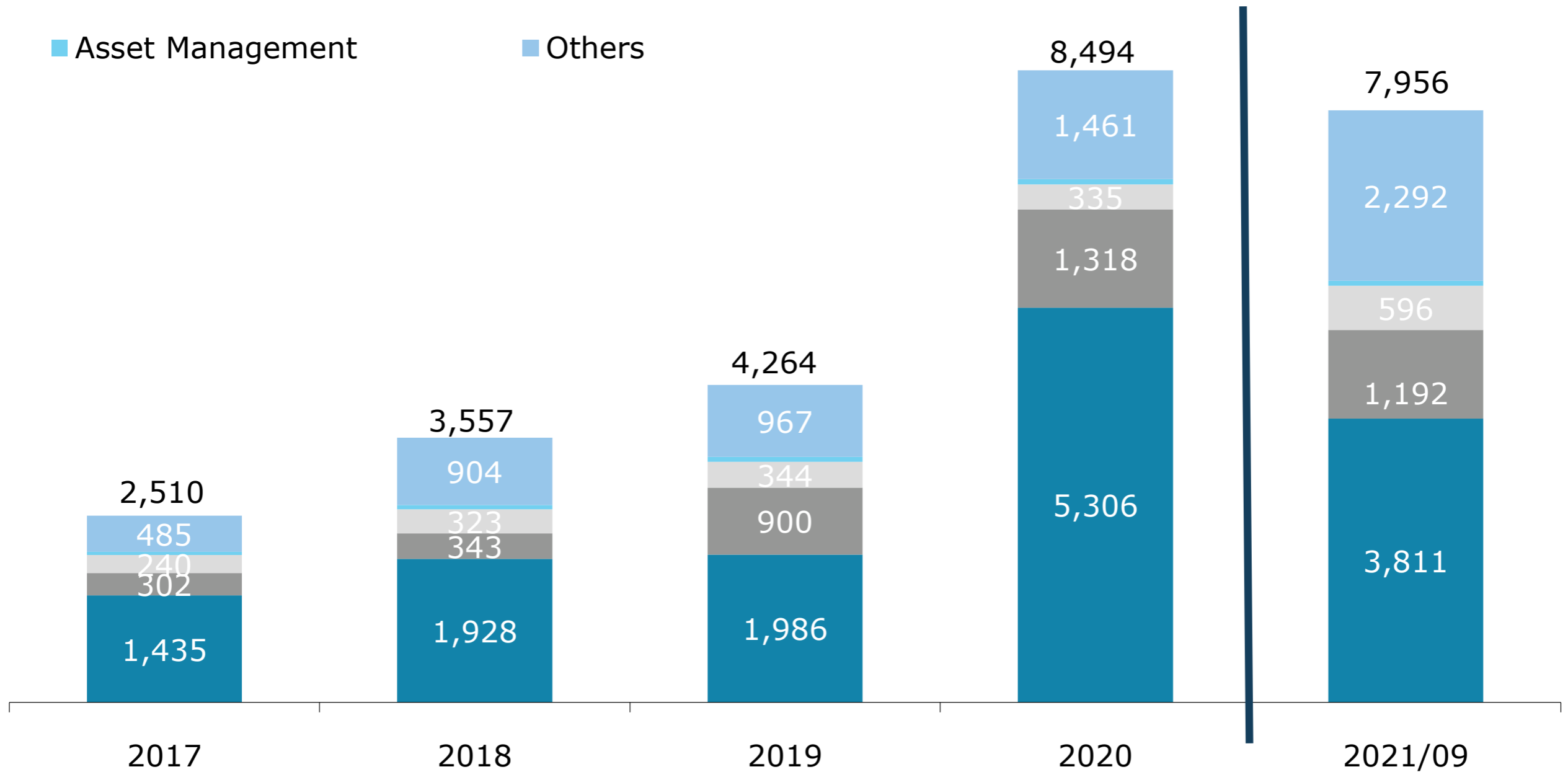
■ Total Revenues ■ Operating Profit ■ Net Profit



Source: TCMA

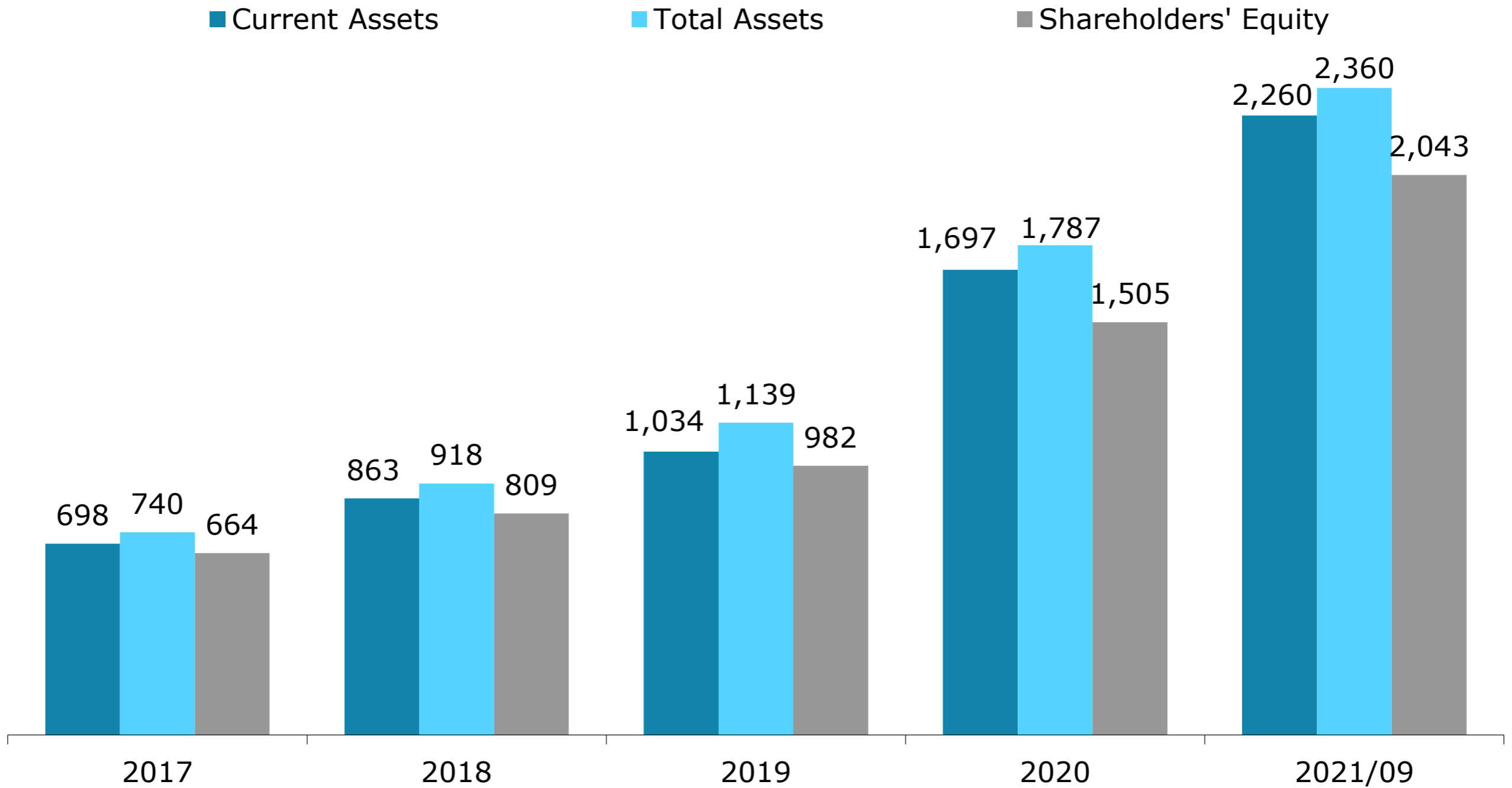
BREAKDOWN OF BROKERAGE FIRMS' REVENUES (MILLION TL)

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



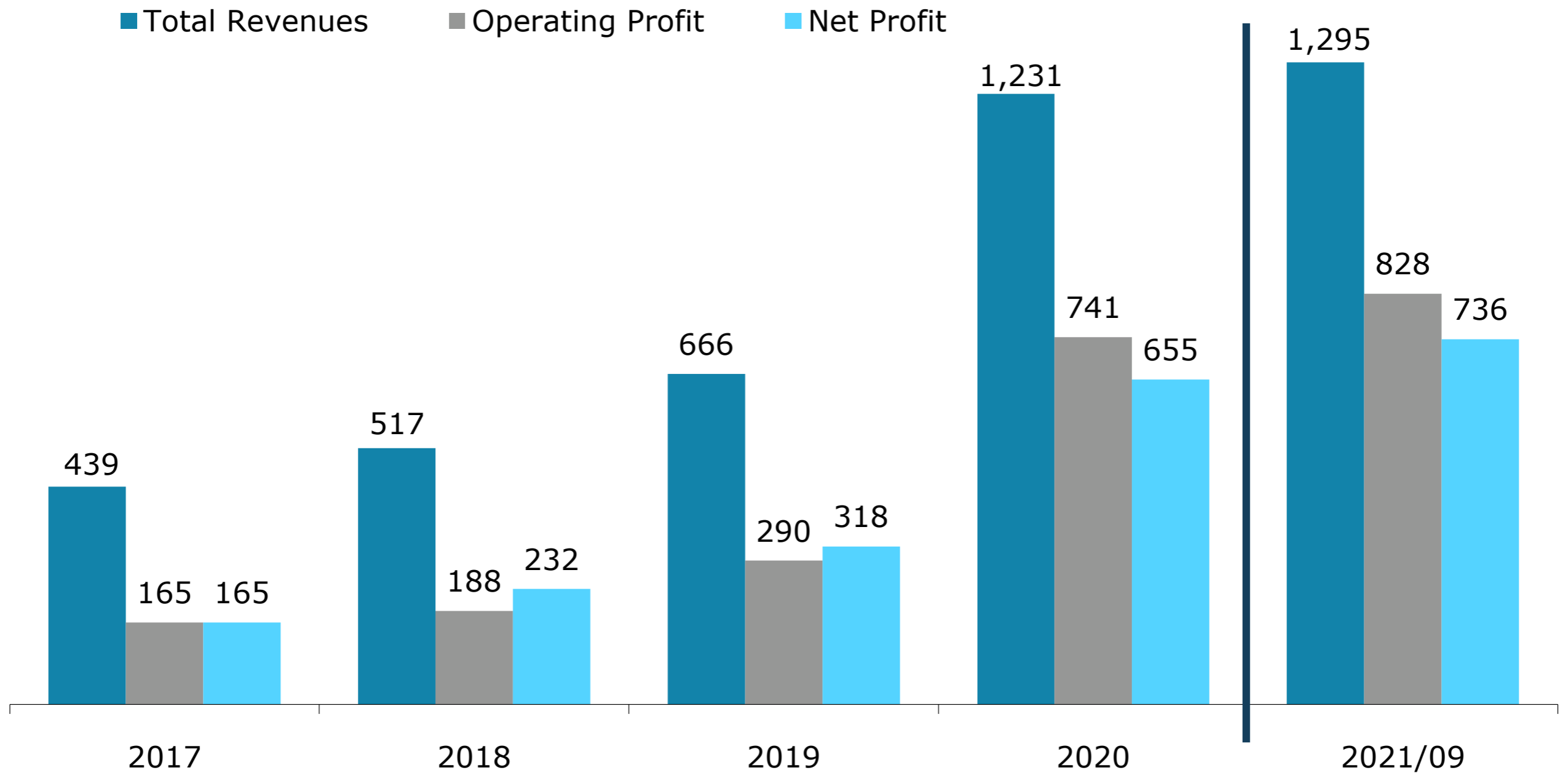
Source: TCMA

BALANCE SHEET OF ASSET MANAGEMENT COMPANIES (MILLION TL)



Source: TCMA

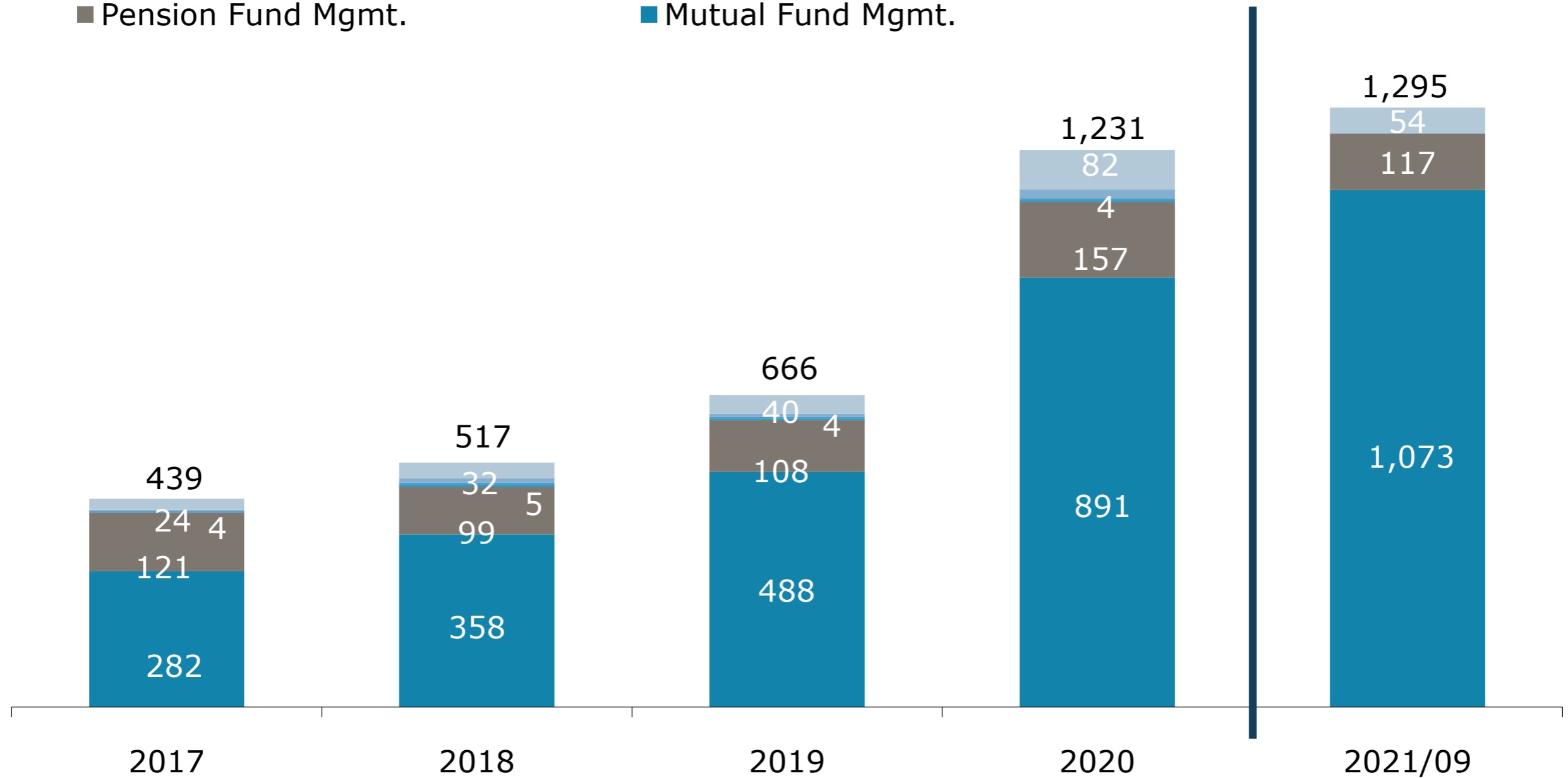
INCOME STATEMENT OF ASSET MANAGEMENT COMPANIES (MILLION TL)



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.

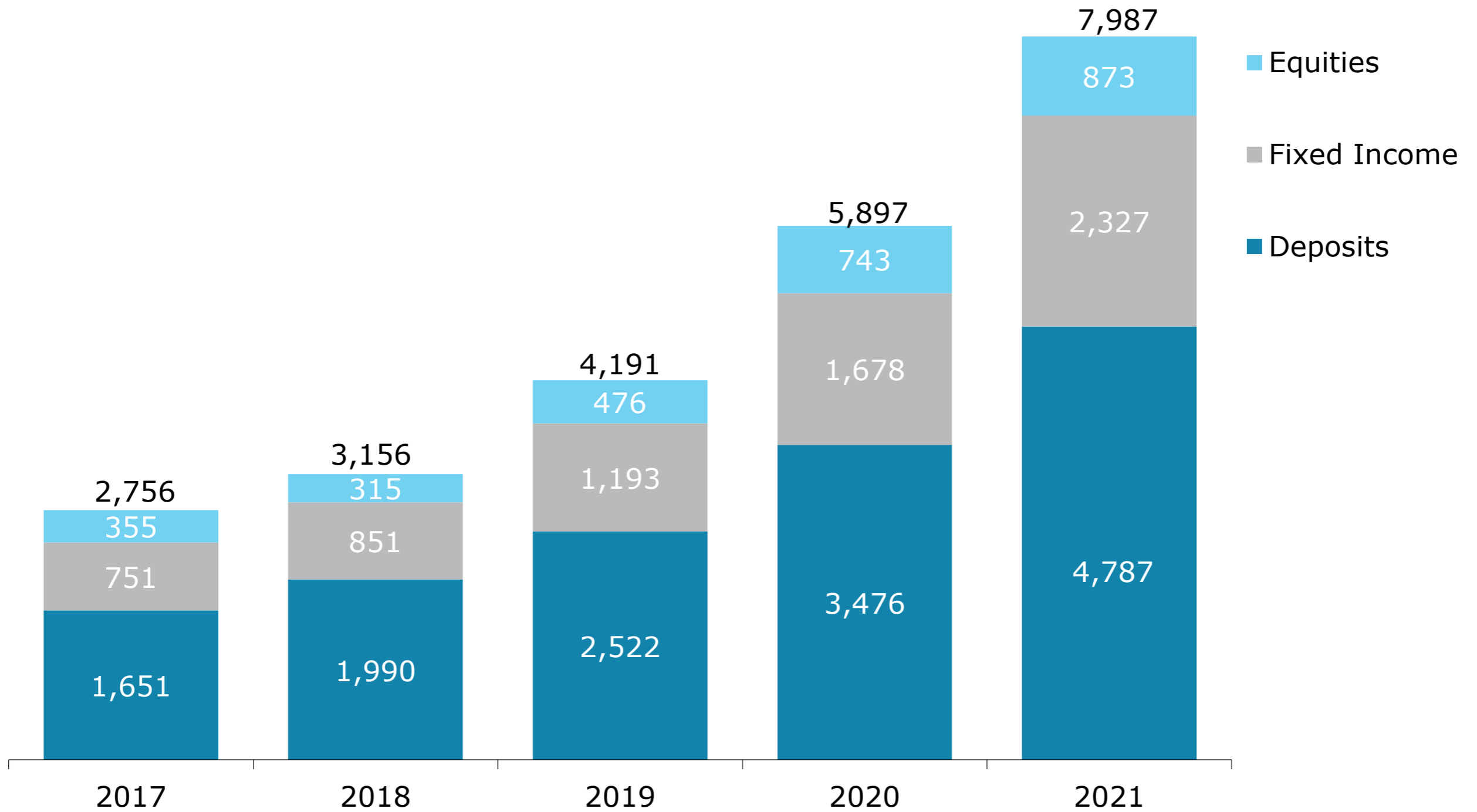


Source: TCMA

INVESTOR PROFILE

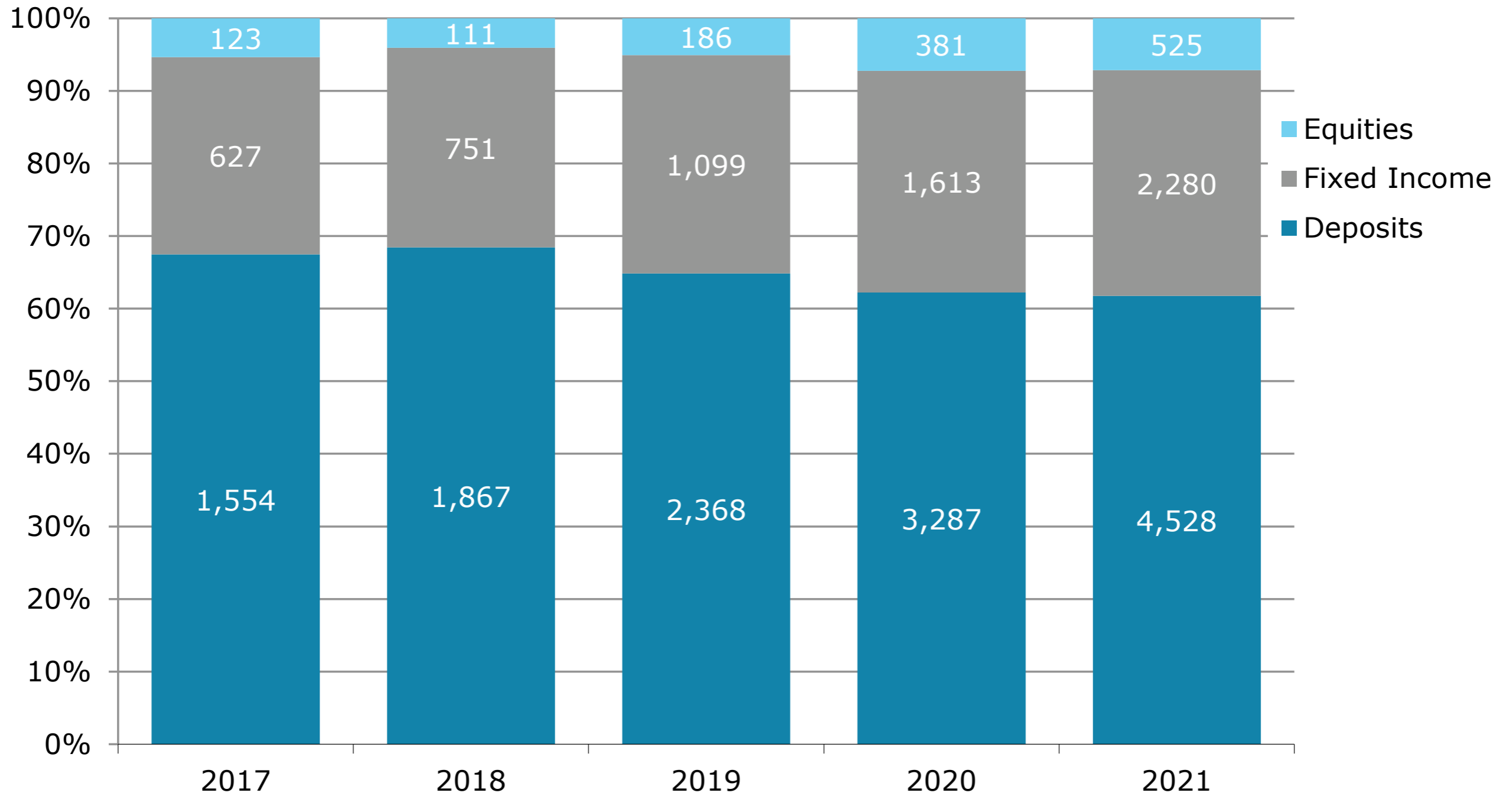


BREAKDOWN OF TOTAL SAVINGS (BILLION TL)



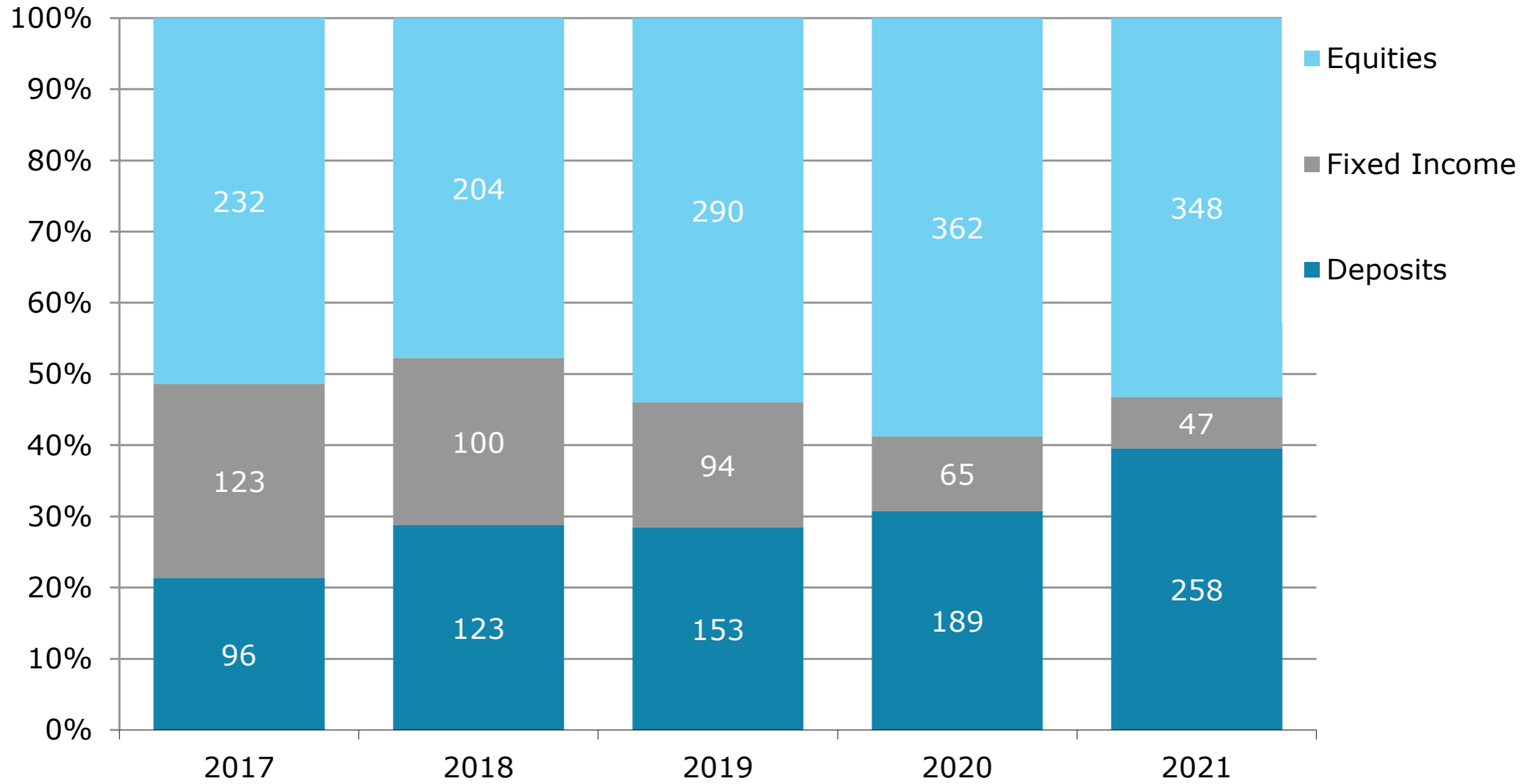
Source: BRSA, CRA, TCMA estimates

SAVINGS OF DOMESTIC INVESTORS (% , BILLION TL)



Source: BRSA, CRA, TCMA estimates

SAVINGS OF FOREIGN INVESTORS (% , BILLION TL)



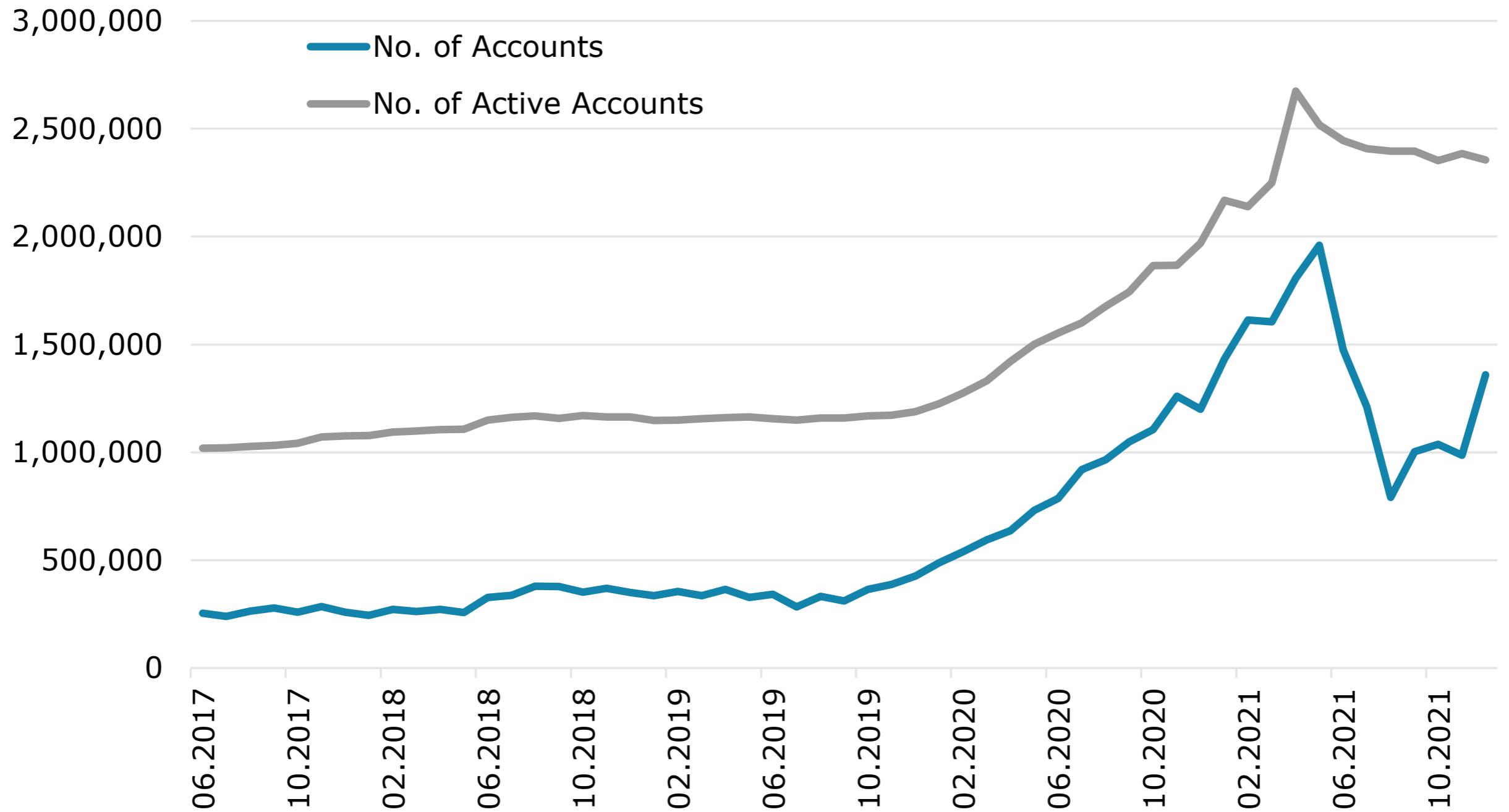
Source: BRSA, CRA, TCMA estimates

NUMBER OF EQUITY INVESTORS

Number of Equity Investors (thou.)	2017	2018	2019	2020	2021
Domestic Investors	1,031.3	1,081.3	1,193.7	1,977.0	2,341.9
Dom. Individuals	1,025.9	1,076.1	1,188.1	1,970.4	2,333.6
Dom. Corporations	4.7	4.6	4.9	5.7	7.4
Dom. Institutionals	0.7	0.7	0.7	0.8	0.9
Foreign Investors	9.5	9.6	9.7	12.0	13.1
For. Individuals	6.2	6.2	6.6	9.2	10.7
For. Corporations	1.4	1.5	1.4	1.3	1.2
For. Institutionals	1.9	1.9	1.7	1.5	1.3
Total	1,040.8	1,090.9	1,203.4	1,988.9	2,355.1

Source: CRA

NUMBER OF EQUITY INVESTORS

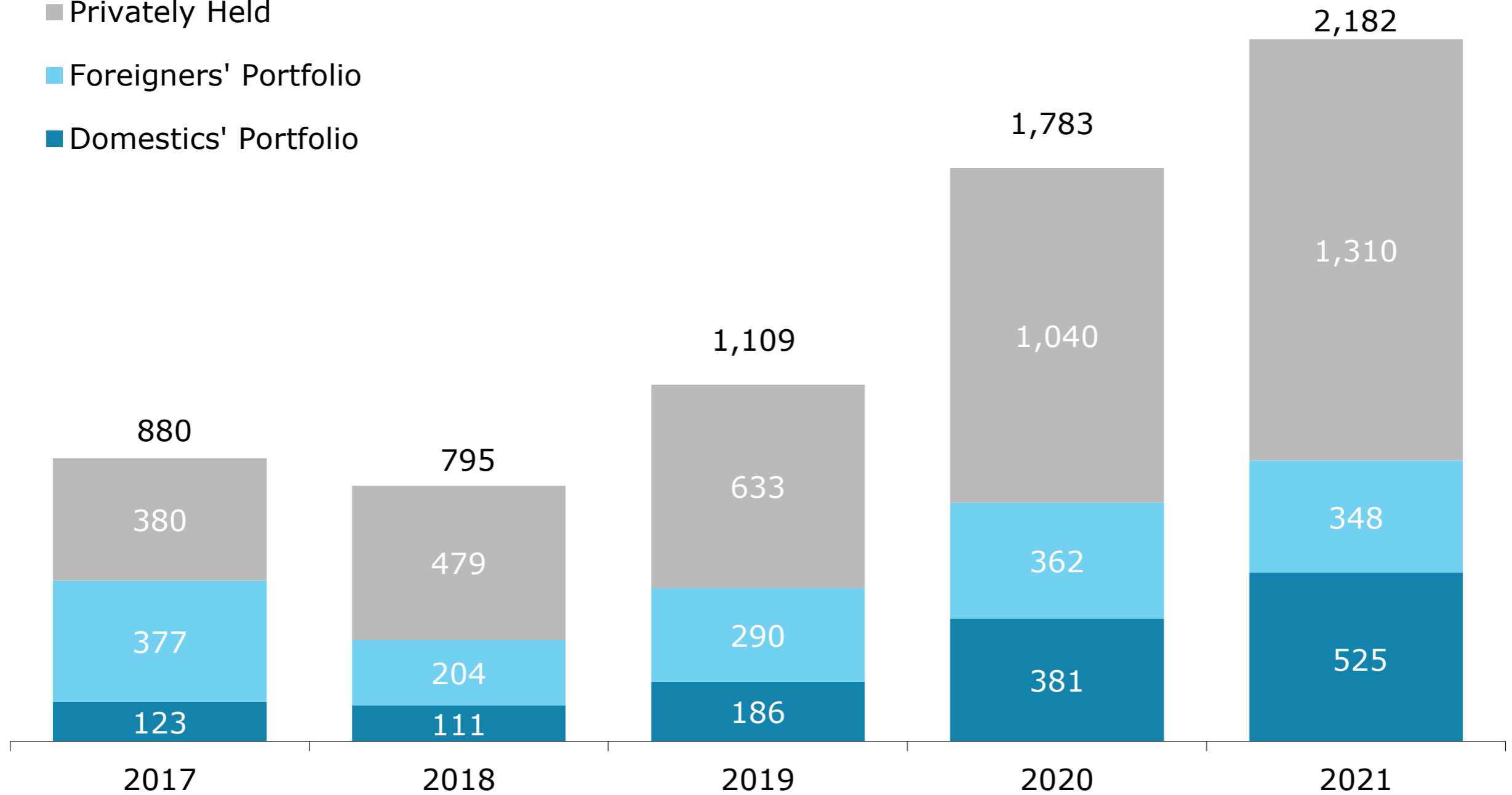


Source: TCMA

Active # of Accounts: Accounts with at least one order execution per month

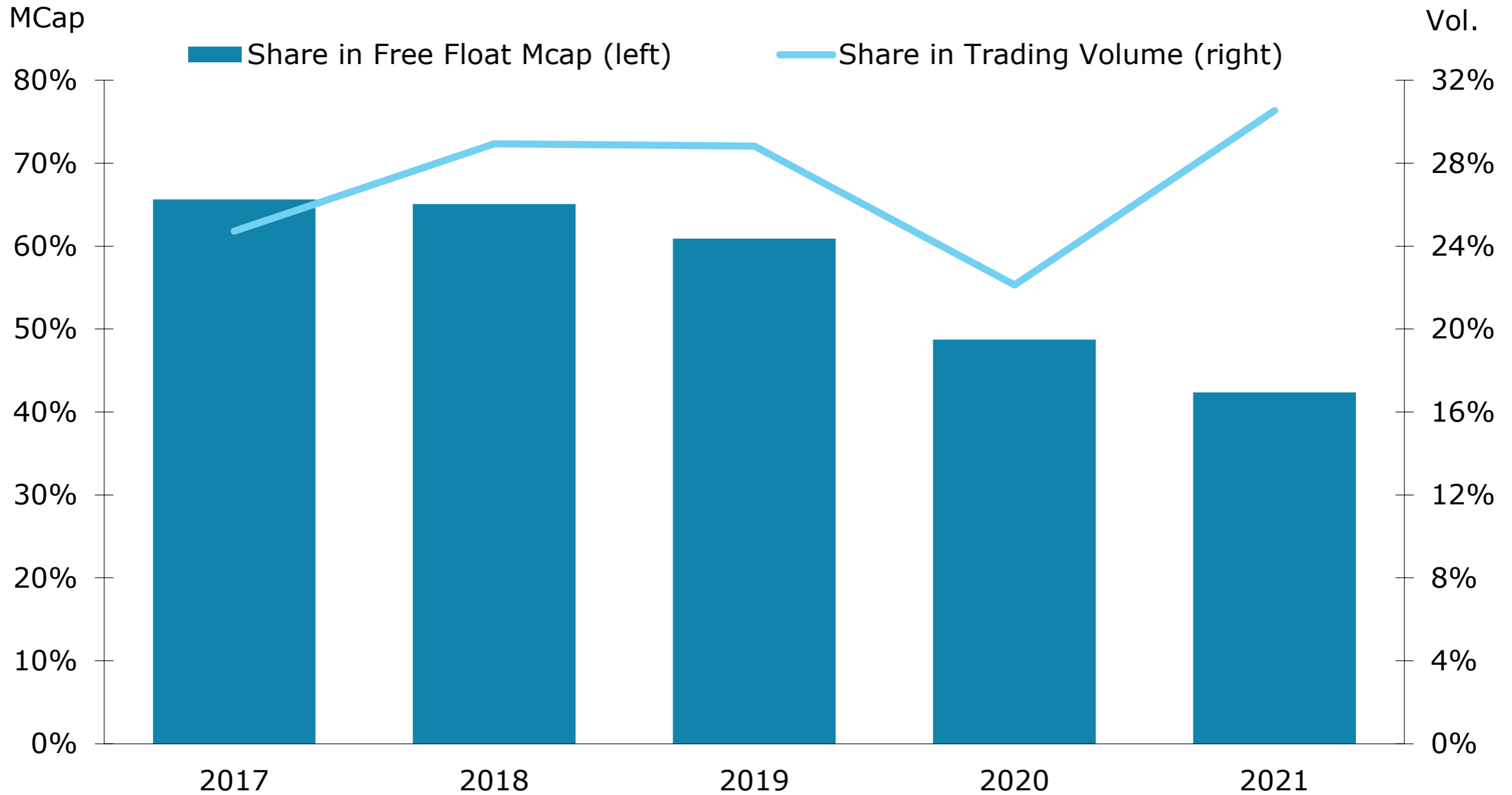
BREAKDOWN OF MARKET CAPITALIZATION (BILLION TL)

- Privately Held
- Foreigners' Portfolio
- Domestics' Portfolio



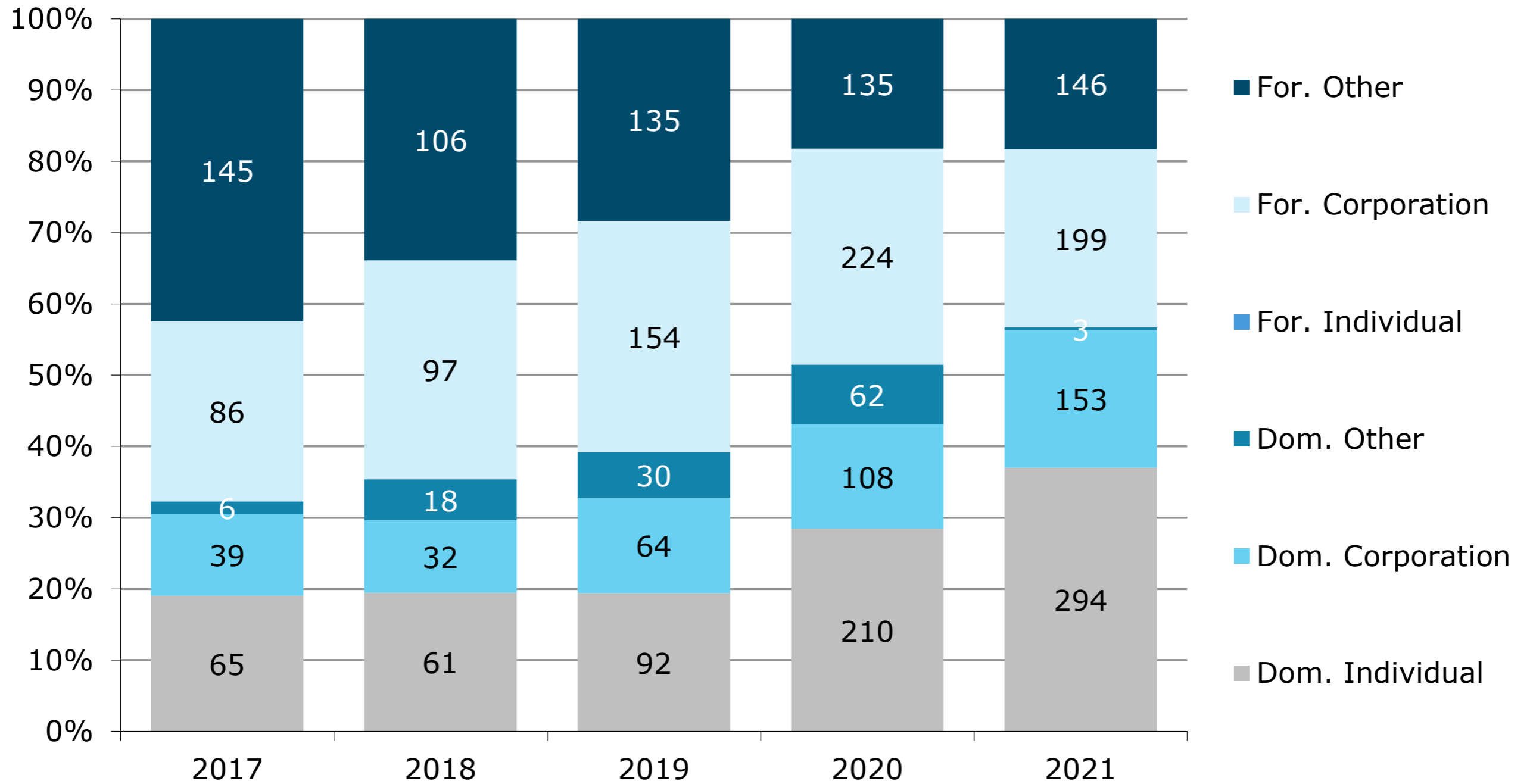
Source: CRA, Borsa Istanbul

SHARE OF FOREIGN INVESTORS



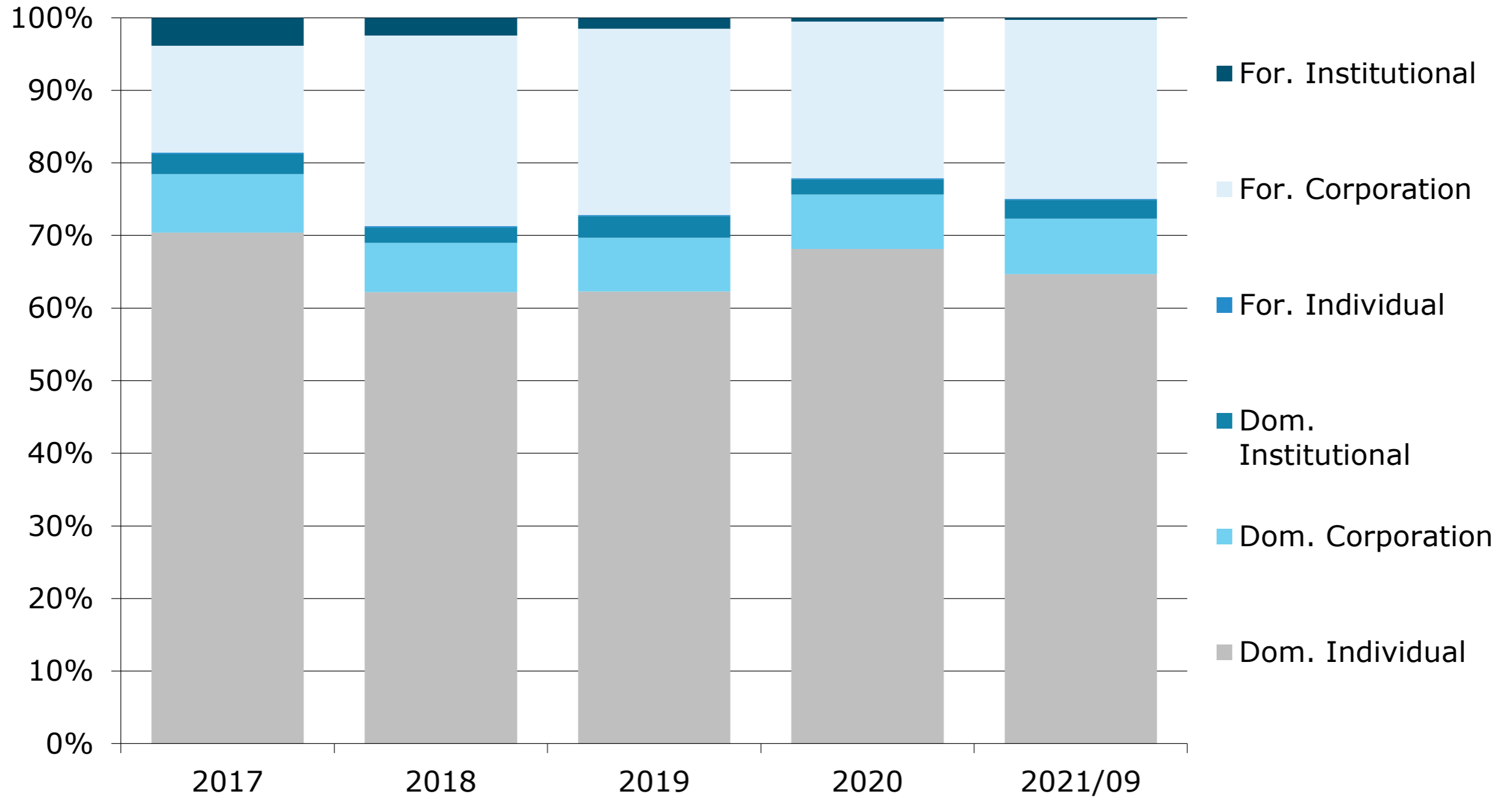
Source: CRA, Borsa Istanbul

EQUITY OWNERSHIP ACCORDING TO INVESTOR CATEGORIES (% , BILLION TL)



Source: CRA

EQUITY TRADING VOLUME BY INVESTOR CATEGORIES*



Source: TCMA

*Brokerage firms and investment banks only

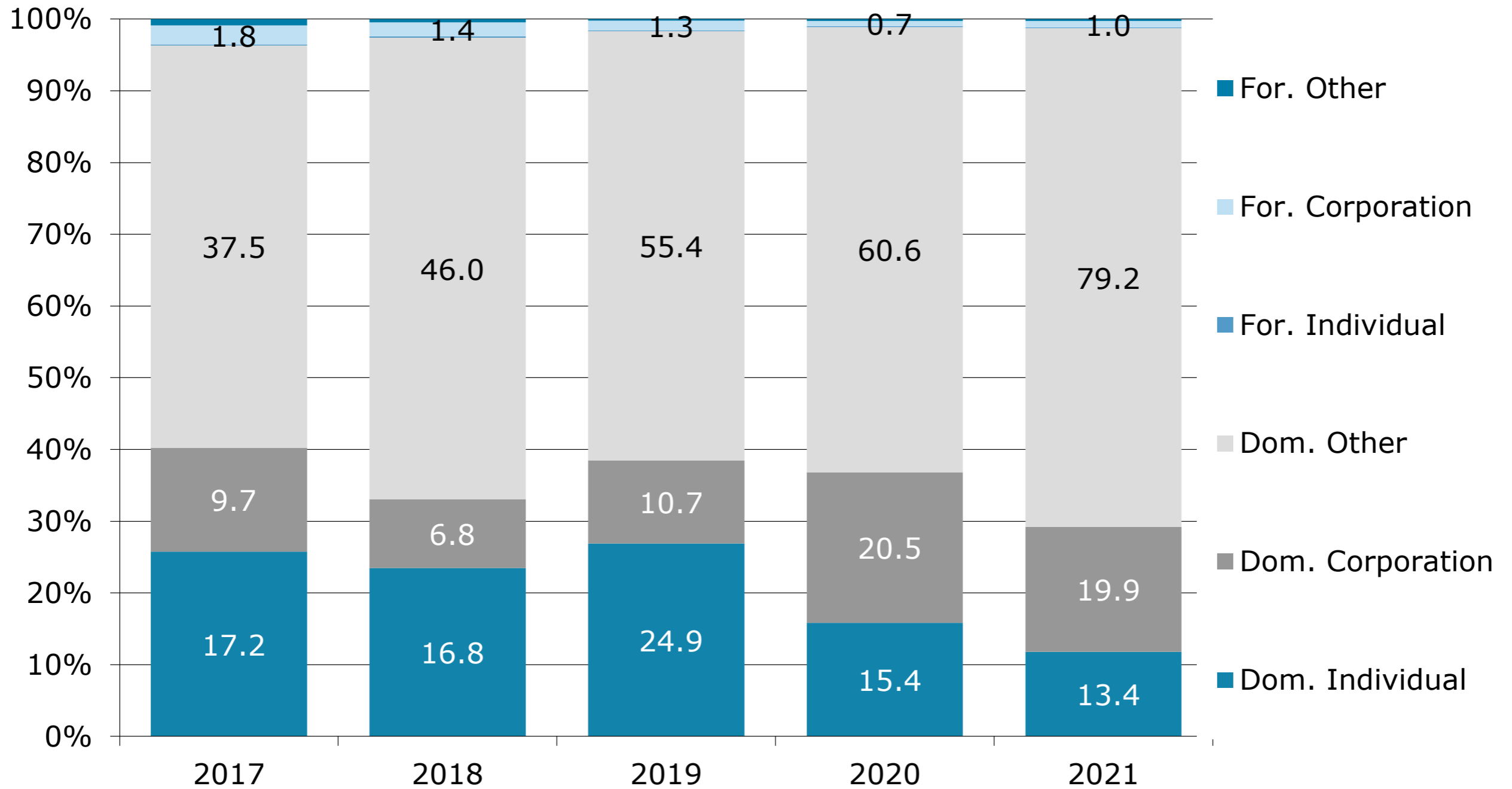
NUMBER OF CORPORATE BOND INVESTORS

Number of Corporate Bond Investors					
	2017	2018	2019	2020	2021
Domestic Investors	81,865	77,671	65,998	55,378	46,793
Dom. Individuals	78,954	75,361	64,010	53,450	45,013
Dom. Corporations	2,292	1,660	1,344	1,284	1,163
Dom. Institutionals	619	650	644	644	617
Foreign Investors	622	662	453	475	388
For. Individuals	594	641	431	450	365
For. Corporations	24	18	19	20	18
For. Institutionals	4	3	3	5	5
Total	82,487	78,333	66,451	55,853	47,181

Source: CRA

Lease certificates excluded.

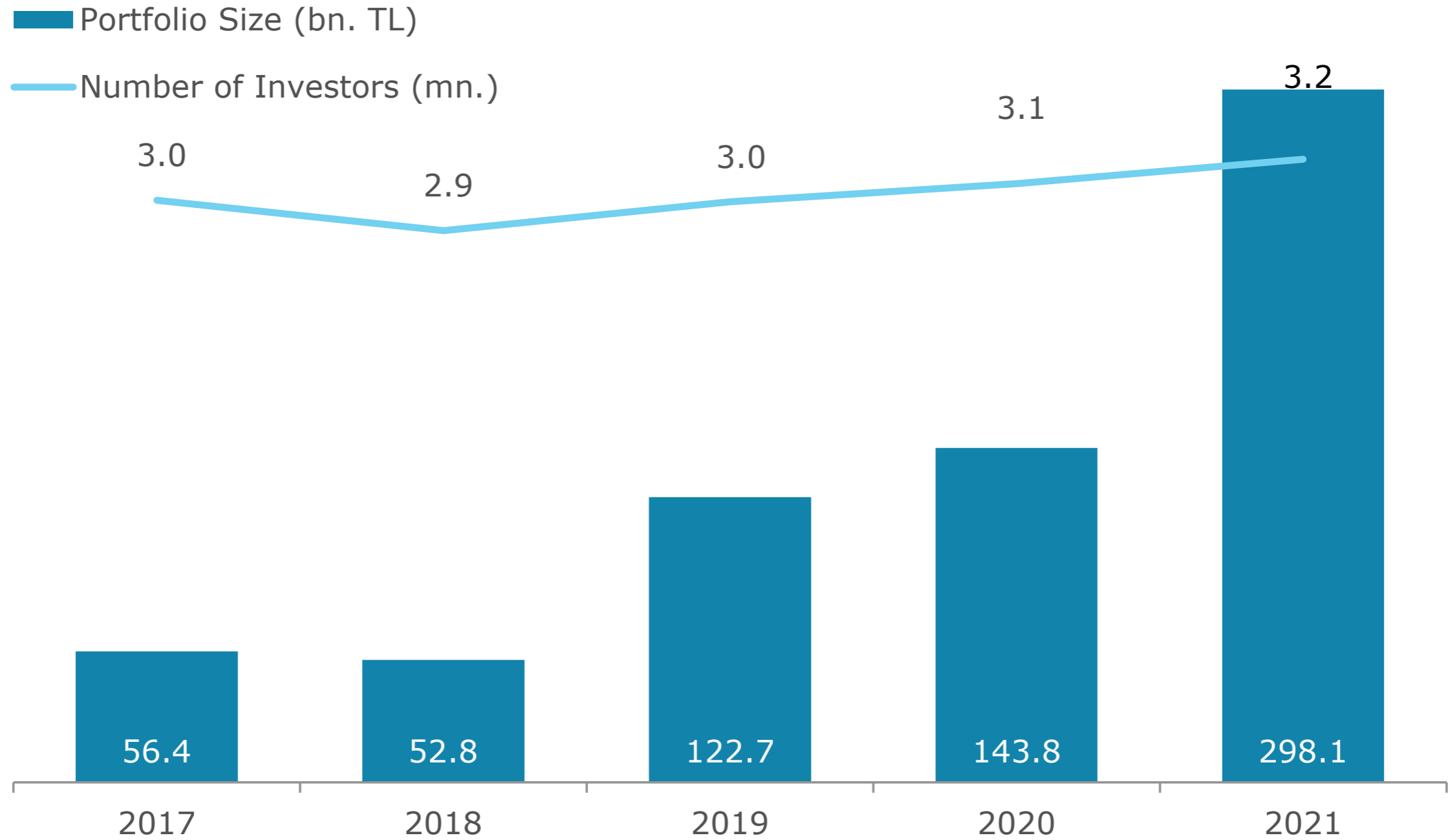
CORPORATE BOND OWNERSHIP ACCORDING TO INVESTOR CATEGORIES (% , BILLION TL)



Lease certificates excluded.

Source: CRA

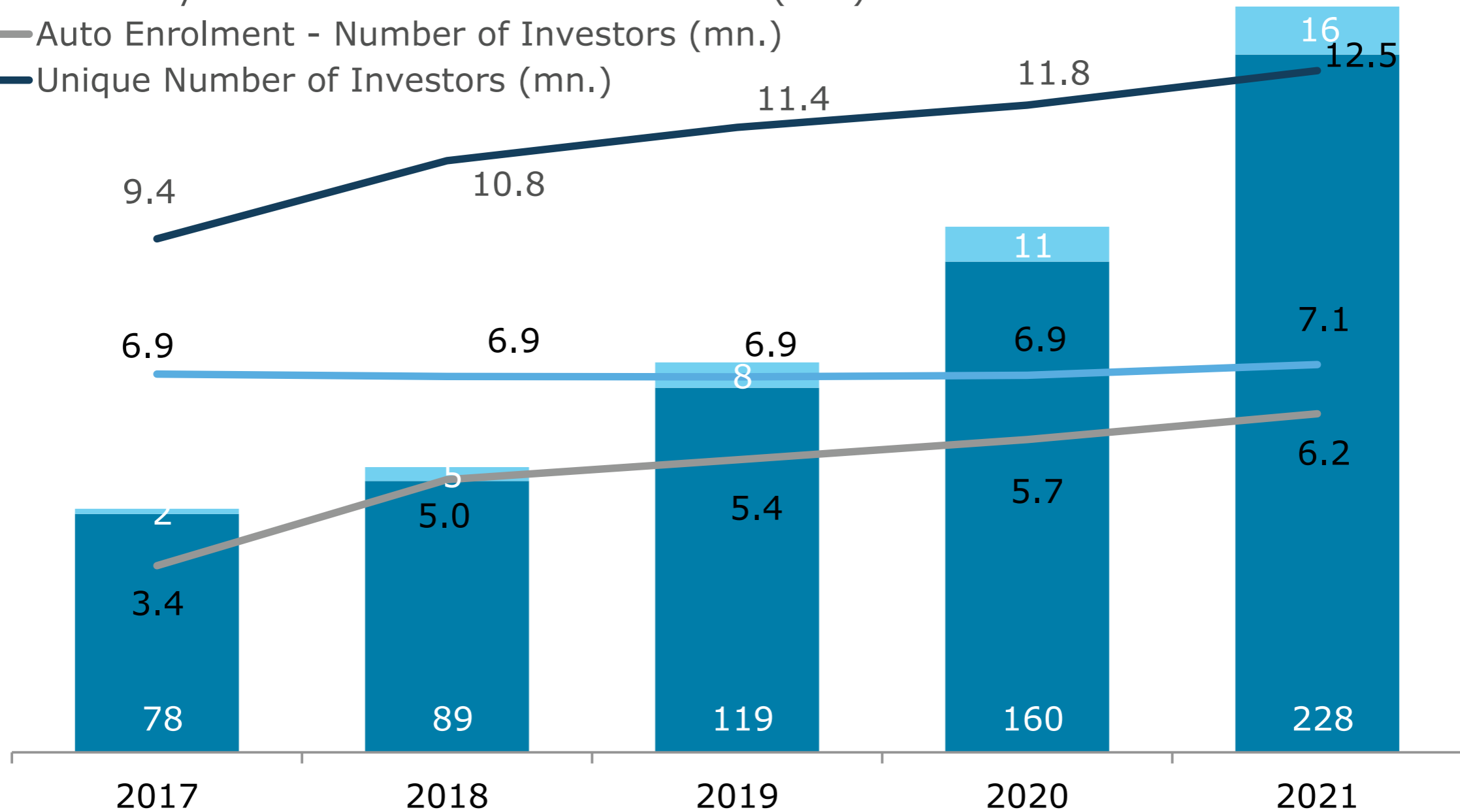
MUTUAL FUND INVESTORS



Source: CRA

PENSION FUND INVESTORS

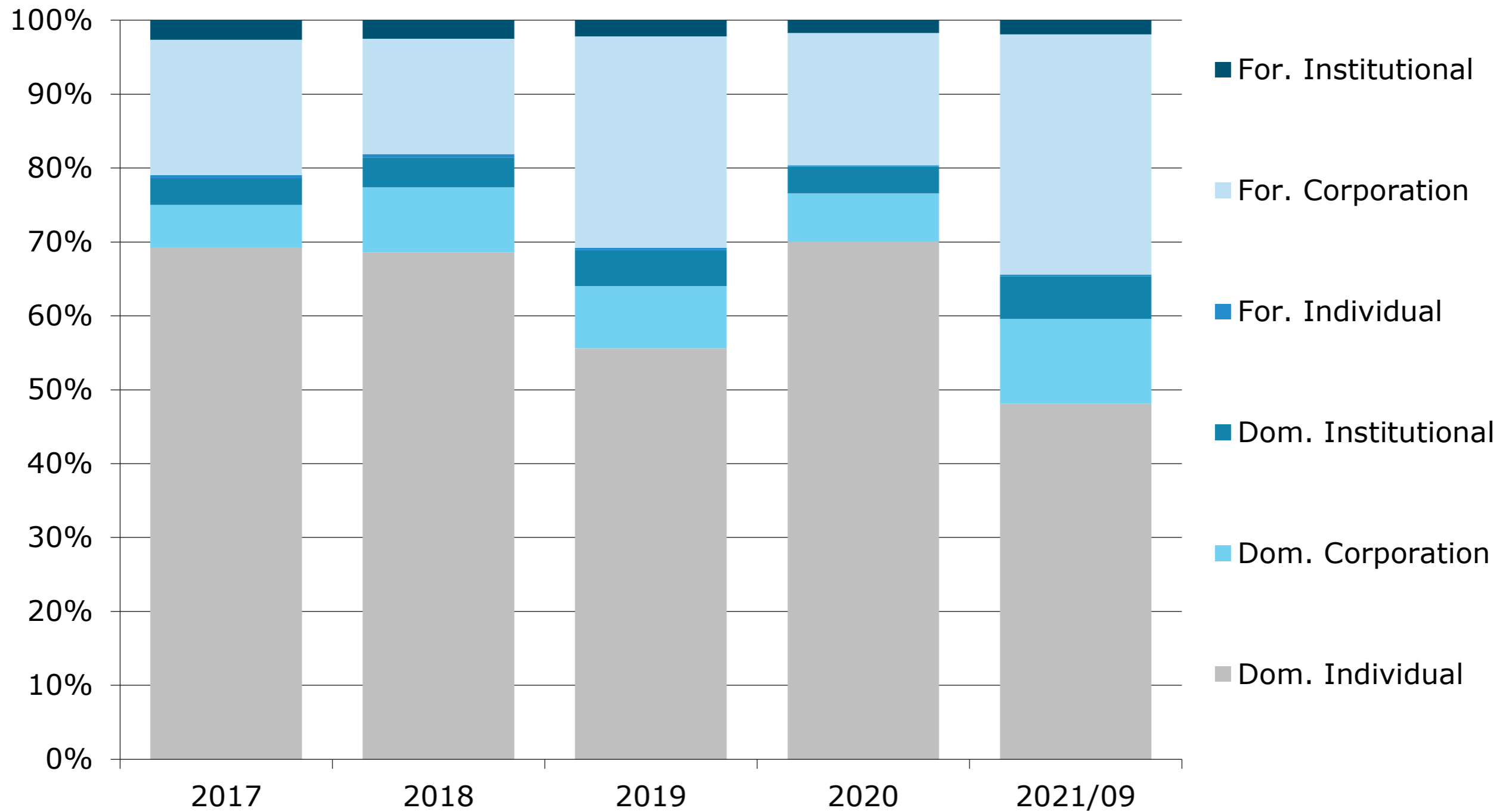
- Auto Enrolment - Total Portfolio Size (bn. TL)
- Voluntary Enrolment - Portfolio Size (bn. TL)
- Voluntary Enrolment - Number of Investors (mn.)
- Auto Enrolment - Number of Investors (mn.)
- Unique Number of Investors (mn.)



Source: PMC

Portfolio size includes government contributions

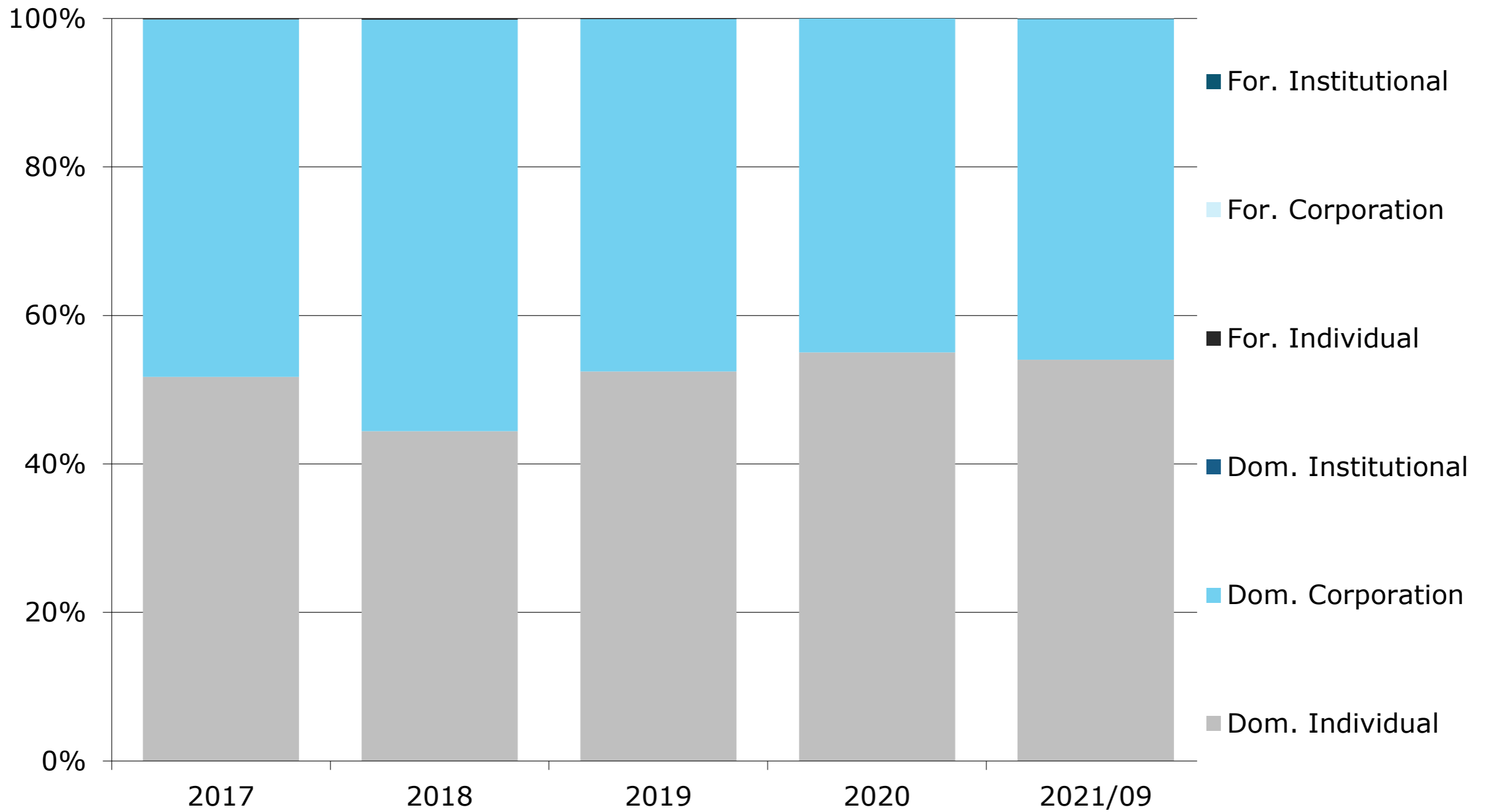
BREAKDOWN OF FUTURES TRADING VOLUME BY INVESTOR CATEGORIES*



Source: TCMA

*Brokerage firms and investment banks only

BREAKDOWN OF FOREX TRADING VOLUME BY INVESTOR CATEGORIES



Source: TCMA

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TCMA