

SIFMA Research Quarterly – 4Q21

US Fixed Income Markets - Issuance & Trading

January 2022

The SIFMA Research Quarterlies contain data and statistics on U.S. markets. The fixed income reports are split into two – (1) issuance and trading, (2) outstanding – given a delay in the reporting of outstanding data. The reports cover data on total U.S. fixed income markets, as captured in the SIFMA Research databases: U.S. Treasuries, mortgage-backed securities, corporate bonds, municipal securities, federal agency securities, asset-backed securities, money markets (outstanding only), repurchase agreements (outstanding only) and secured overnight financing rate. This report also contains statistics on fixed income ESG issuance for green, social, and sustainability bonds.

All reports, including the equity quarterly, and corresponding databases can be found at: www.sifma.org/research



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Associated Reports

Please also see SIFMA Research Quarterly Report: US Cash Equities, ETFs, Multi-Listed Options and Capital Formation, SIFMA Research Quarterly Report: US Fixed Income Markets – Outstanding and US Financial Institutions – Financial & Regulatory Data, which can be found at: www.sifma.org/research

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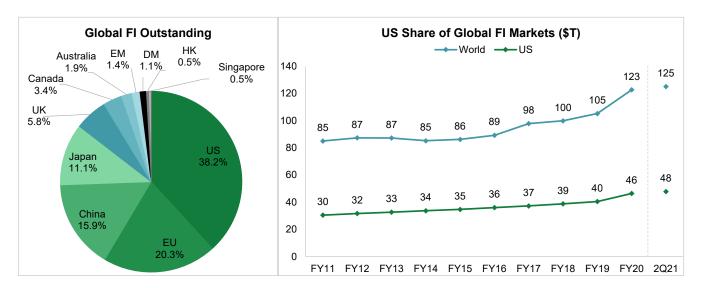
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Executive Summary

US Fixed Income Markets vs. Rest of World

The U.S. fixed income markets are the largest in the world, comprising 38.2% of the \$125 trillion securities outstanding across the globe, or \$48 trillion (as of 2Q21). This is 1.9x the next largest market, the EU. U.S. market share has averaged 38.3% over the last 10 years, troughing at 35.9% in 2011 and peaking at 40.4% in 2016.

US Market Share



Source: Bank for International Settlements (2Q21, BIS data for all countries has a lag)

Note: Country classification based on World Bank list of economies

Quarterly Performance

In this report, we utilized SIFMA Research's comprehensive fixed income and securitized products databases (www.sifma.org/statistics) to recap statistics for total U.S. fixed income markets, U.S. Treasuries (UST), mortgage-backed securities (MBS), corporate bonds (corporates), municipal securities (munis), federal agency securities (agency), asset-backed securities (ABS), money markets (MM), repurchase agreements (repos) and the secured overnight financing rate (SOFR). We also analyze trends in ESG issuance for green, social, and sustainability bonds.

Quarterly & YTD Highlights

Issuance (\$B)	4Q21	3Q21	4Q20	Q/Q	Y/Y	FY21	FY20	Y/Y
Total Market	2,863	3,168	3,273	-9.6%	-12.5%	12,882	12,208	5.5%
UST	1,241	1,273	1,173	-2.6%	5.7%	5,139	3,896	31.9%
MBS	896	1,030	1,333	-13.0%	-32.8%	4,318	3,996	8.1%
Corporates	379	439	326	-13.7%	16.6%	1,958	2,275	-13.9%
Agency	146	158	233	-7.9%	-37.6%	687	1,251	-45.1%
Munis	115	126	130	-8.8%	-11.4%	476	485	-1.8%
ABS	86	141	78	-38.9%	10.0%	303	304	-0.5%

Trading (ADV, \$B)	4Q21	3Q21	4Q20	Q/Q	Y/Y	FY21	FY20	Y/Y
Total Market	951	879	894	8.2%	6.4%	957	956	0.1%
UST	652	569	548	14.5%	18.9%	624.1	603.2	3.5%
MBS - Agency	251	263	294	-4.4%	-14.5%	279.3	291.1	-4.1%
MBS - Non Agency	1.0	1.4	1	-27.5%	-27.3%	1.4	1.9	-26.7%
Corporates	35	34	36	0.5%	-4.3%	38.9	41.0	-5.0%
Agency	2.4	2.2	4	8.1%	-35.8%	2.8	5.1	-45.1%
Munis	8.9	7.8	9	13.9%	-5.9%	8.8	12.0	-26.4%
ABS	1.3	1.2	1.5	8.8%	-14.8%	1.4	1.9	-26.5%

Source: Bloomberg, Federal Reserve Bank of New York, FINRA, Municipal Securities Rulemaking Board, Refinitiv, US Agencies, US Treasury, SIFMA estimates

Note: Issuance = Long-term securities only

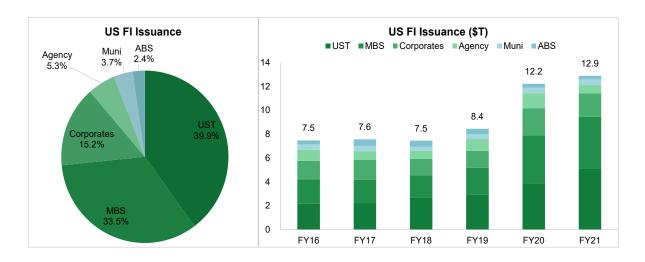
ESG Issuance (\$B)

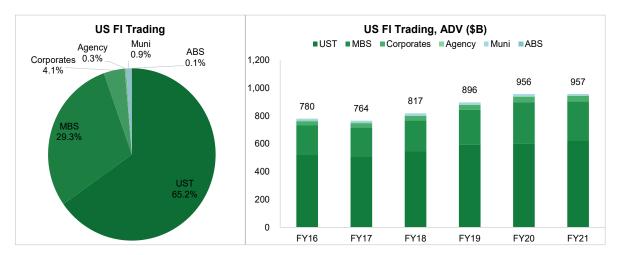
FY21	Green	Social	Sustainability	Total
Global	477.0	189.2	175.0	841.2
Y/Y change	102.5%	30.5%	17.8%	59.0%
US	61.2	9.5	76.3	147.0
Y/Y change	103.8%	-1.2%	-19.1%	9.7%

Source: Dealogic, SIFMA estimates

Chart Book: Total Fixed Income

- Issuance: 4Q21 \$2.9T, -12.5% Y/Y, -9.6% Q/Q; FY21 \$12.9T, +5.5% Y/Y
- ADV: 4Q21 \$951.1B, +6.4% Y/Y, +8.2% Q/Q; FY21 \$957.7B, +0.1 % Y/Y

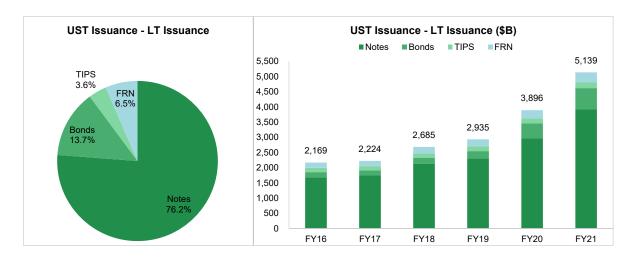


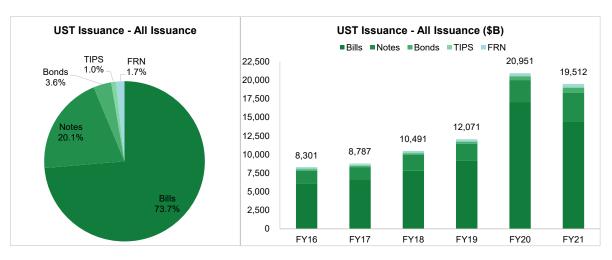


Source: Bloomberg, Federal Reserve Bank of New York, FINRA, Municipal Securities Rulemaking Board, Refinitiv, US Agencies, US Treasury, SIFMA estimates

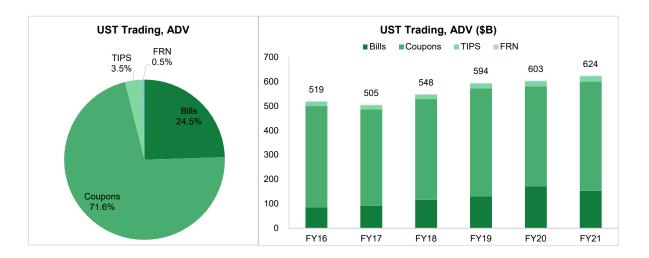
Chart Book: US Treasuries (UST)

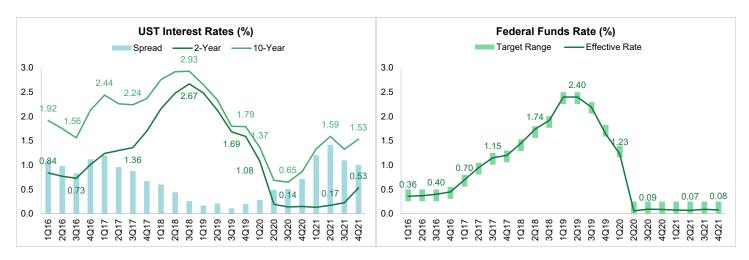
- Issuance:
- o LT 4Q21 \$1.2T, +5.7% Y/Y, -2.6% Q/Q; FY21 \$5.1T, +31.9% Y/Y
- All 4Q21 \$4.8T, -12.6% Y/Y, +1.2% Q/Q; FY21 \$19.5T, -6.9% Y/Y
- ADV: 4Q21 \$651.8, +18.9% Y/Y, +14.5% Q/Q; FY21 \$624.1B, +3.5% Y/Y





Source: US Treasury, SIFMA estimates Note: All issuance includes T-Bills

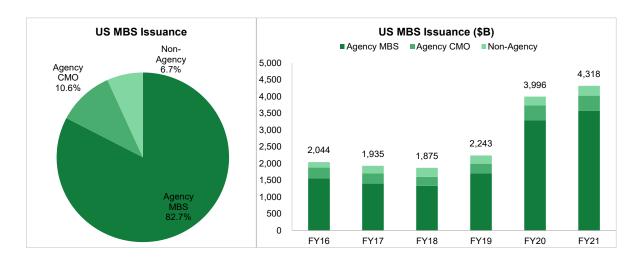


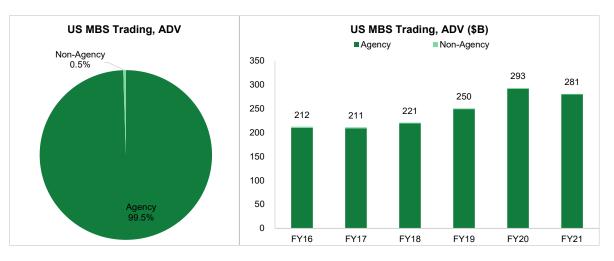


Source: Federal Reserve Bank of New York, US Treasury, SIFMA estimates

Chart Book: Mortgage-Backed Securities (MBS)

- Issuance: 4Q21 \$895.9B, -32.8% Y/Y, -13.0% Q/Q; FY21 \$4.3T, +8.1% Y/Y
- ADV:
- o Agency 4Q21 \$251.2B, -14.5% Y/Y, -4.4% Q/Q; FY21 \$279.3B, -4.1% Y/Y
- Non-Agency 4Q21 \$1B, -27.3% Y/Y, -27.5% Q/Q; FY21 \$1.4B, -26.7% Y/Y
- o Total 4Q21 \$252.2B, -14.6% Y/Y, -4.5% Q/Q; FY21 \$280.7B, -4.2% Y/Y

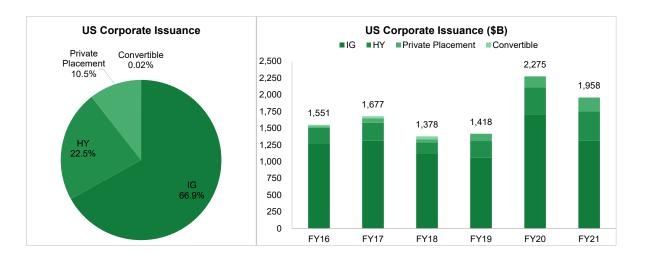


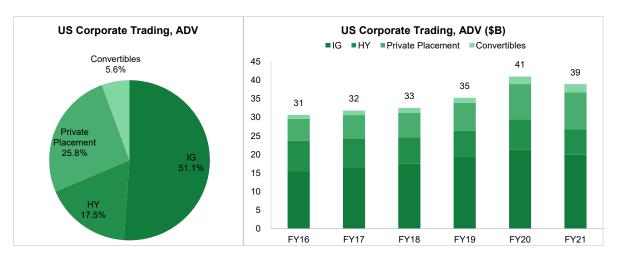


Source: Bloomberg, US Agencies, FINRA, SIFMA estimates

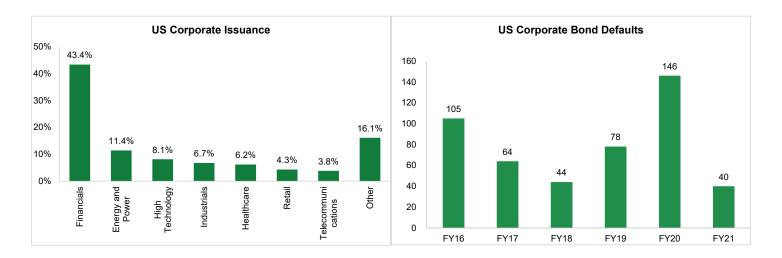
Chart Book: Corporate Bonds (Corporates)

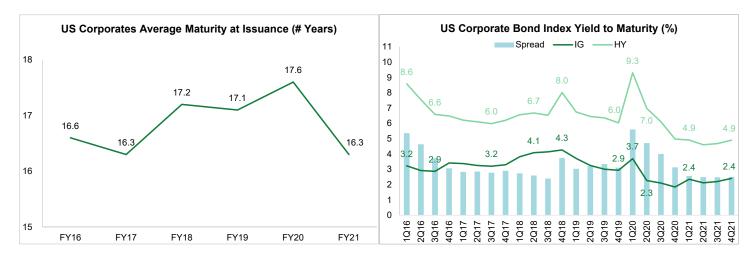
- Issuance: 4Q21 \$379.4B, +16.6% Y/Y, -13.7% Q/Q; FY21 \$2.0T, -13.9% Y/Y
- ADV: 4Q21 \$34.5B, -4.3% Y/Y, +0.5% Q/Q; FY21 \$38.9B, -5.0% Y/Y





Source: Refinitiv, FINRA, SIFMA estimates

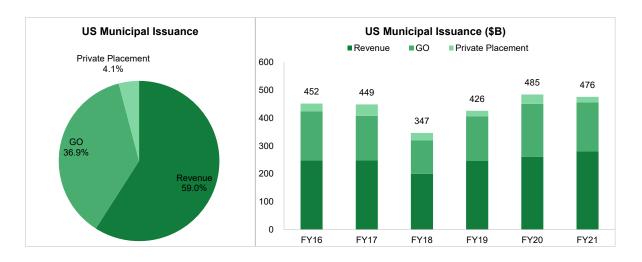


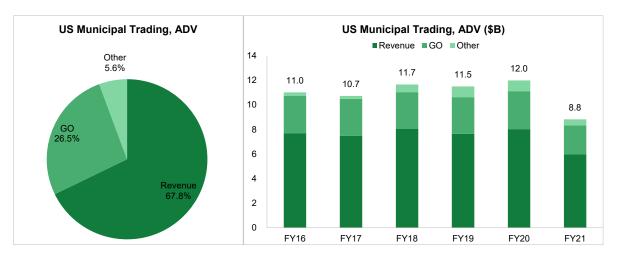


Source: ICE Data Indices, Refinitiv, S&P Global Ratings, SIFMA estimates

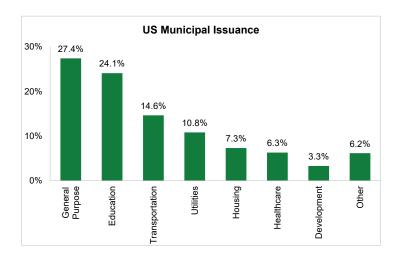
Chart Book: Municipal Securities (Munis)

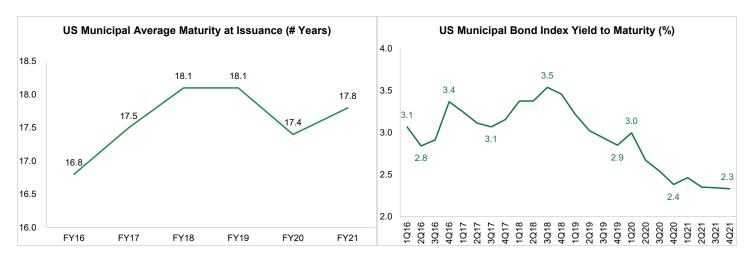
- Issuance: 4Q21 \$114.9B, -11.4% Y/Y, -8.8% Q/Q; FY21 \$475.9B, -1.8% Y/Y
- ADV: 4Q21 \$8.9B, -5.9% Y/Y, +13.9% Q/Q; FY21 \$8.8B, -26.4% Y/Y





Source: Municipal Securities Rulemaking Board, Refinitiv, SIFMA estimates

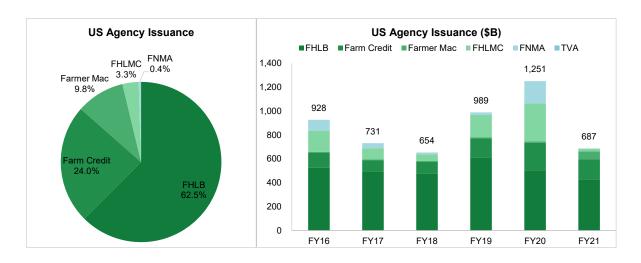


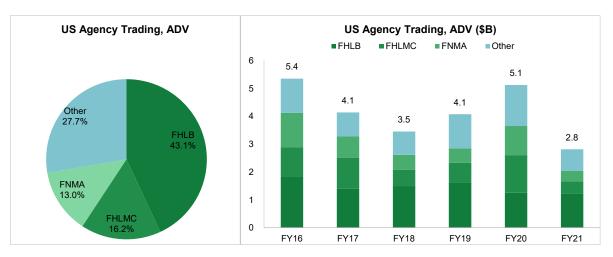


Source: ICE Data Indices, Refinitiv, SIFMA estimates

Chart Book: Federal Agency Securities (Agency)

- Issuance: 4Q21 \$145.5B, -37.6% Y/Y, -7.9% Q/Q; FY21 \$687.4B, -45.1% Y/Y
- ADV: 4Q21 \$2.4B, -35.8% Y/Y, +8.1% Q/Q; FY21 \$2.8B, -45.1% Y/Y

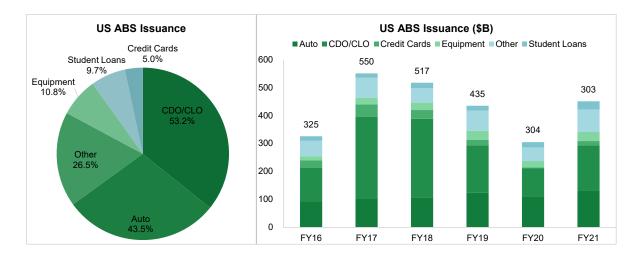


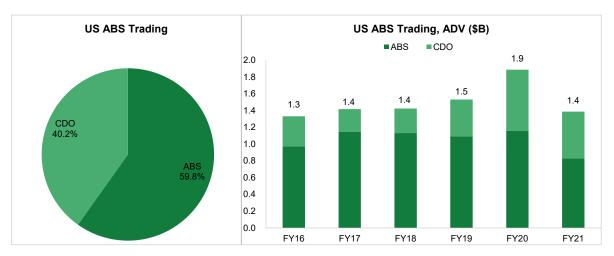


Source: FINRA, US Agencies, SIFMA estimates

Chart Book: Asset-Backed Securities (ABS)

- Issuance: 4Q21 \$86.2B, +10% Y/Y, -38.9% Q/Q; FY21 \$302.8B, -0.5% Y/Y
- ADV: 4Q21 \$1.3B, -14.8% Y/Y, +8.8% Q/Q; FY21 \$1.4B, -26.5% Y/Y

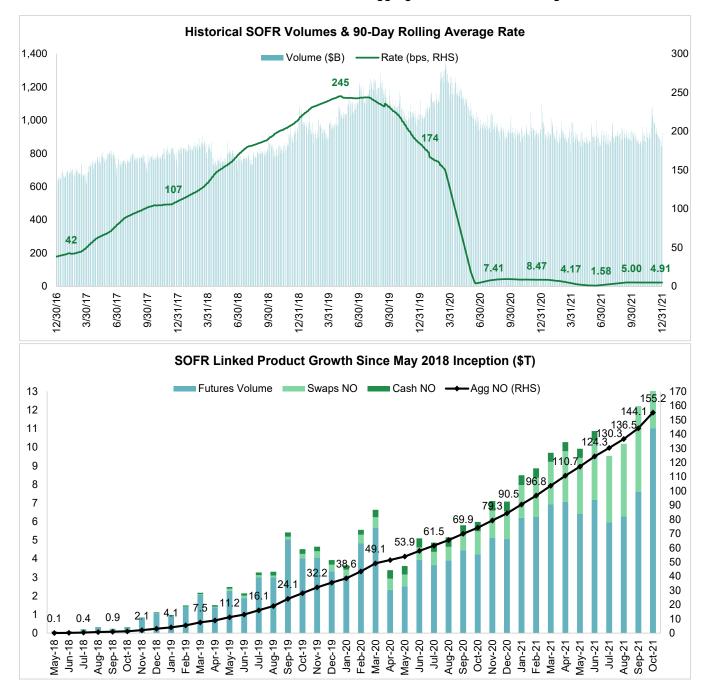




Source: Bloomberg, FINRA, Refinitiv, SIFMA estimates

Chart Book: Secured Overnight Financing Rate (SOFR)

- SOFR Rate (90 day rolling average): As of 12/31/21 = 4.91 bps
- Fed Volumes: As of 12/31/21 = \$923B
- Market Volumes: As of 10/31/21 = futures \$11T, aggregate notional outstanding \$155.2T



Note: Cash notional outstanding as of June 30, 2021, rest of market volume data as of October 31, 2021; data will be no longer offered beyond this point.

Chart Book: Environmental, Social, and Governance (ESG) Issuance

- Global issuance: \$841.2B in 2021, +59.0% Y/Y, +26.1% 2-year CAGR
- U.S. issuance: \$147.0B in 2021, +9.7% Y/Y, +4.8% 2-year CAGR
- Category Breakout (% total global, 2021): green 56.7%, social 22.5%, sustainability 20.8%
- Regional Breakout (% total global, 2021): EMEA 57.8%, Americas 22.6% (U.S. 17.5%), AsiaPac 19.6%

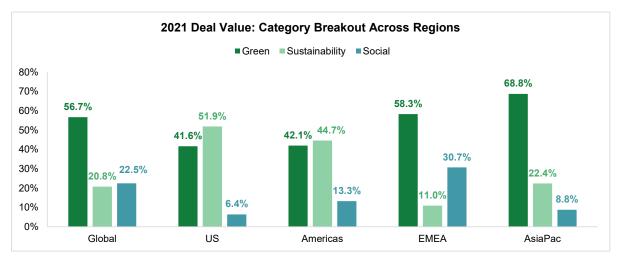
Global ESG Issuance (\$B)

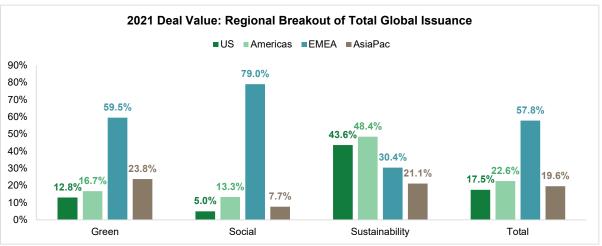
	Green	Social	Sustainability	Total		Green	Social	Sustainability	Total
2007	8.0	0.0	0.0	8.0					
2008	0.3	0.0	0.0	0.3	2008	-63.6%			-63.6%
2009	0.3	0.0	0.0	0.3	2009	6.7%			6.7%
2010	1.1	0.0	0.0	1.1	2010	235.1%			235.1%
2011	0.0	0.0	0.0	0.0	2011	-98.8%			-98.8%
2012	0.4	0.0	0.0	0.4	2012	3255.3%			3255.3%
2013	9.1	0.0	0.7	9.8	2013	2036.8%			2194.6%
2014	32.3	0.5	8.0	33.7	2014	254.0%		22.6%	243.2%
2015	35.9	0.0	1.8	37.7	2015	11.1%	-94.6%	113.5%	12.0%
2016	82.0	2.4	5.3	89.7	2016	128.4%	8749.2%	197.7%	137.9%
2017	124.8	10.2	9.1	144.1	2017	52.1%	324.5%	72.9%	60.6%
2018	148.9	13.5	35.1	197.5	2018	19.3%	32.2%	286.6%	37.1%
2019	209.2	23.3	65.3	297.7	2019	40.5%	72.6%	85.8%	50.8%
2020	235.5	145.0	148.6	529.1	2020	12.6%	522.9%	127.5%	77.7%
2021	477.0	189.2	175.0	841.2	2021	102.5%	30.5%	17.8%	59.0%
Cumulative	1,357.7	384.0	441.7	2,183.4					

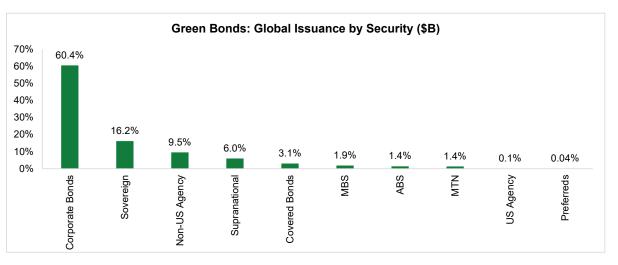
US ESG Issuance (\$B)

	Green	Social	Sustainability	Total		Green	Social	Sustainability	Total
2007	0.0	0.0	0.0	0.0					
2008	0.3	0.0	0.0	0.3					
2009	0.0	0.0	0.0	0.0	2009	-100.0%			-100.0%
2010	0.3	0.0	0.0	0.3	2010				
2011	0.0	0.0	0.0	0.0	2011	-96.1%			-96.1%
2012	0.0	0.0	0.0	0.0	2012	-100.0%			-100.0%
2013	3.0	0.0	0.0	3.0	2013				
2014	5.8	0.5	0.0	6.3	2014	89.3%			105.7%
2015	5.9	0.0	0.0	5.9	2015	2.4%	-100.0%		-5.8%
2016	9.1	0.1	0.6	9.8	2016	54.1%			65.7%
2017	11.9	0.6	0.7	13.2	2017	30.7%	546.9%	27.2%	35.5%
2018	20.8	1.1	19.9	41.8	2018	75.1%	84.3%	2565.9%	215.9%
2019	34.6	1.2	28.4	64.1	2019	66.2%	4.1%	42.5%	53.3%
2020	30.0	9.6	94.3	133.9	2020	-13.2%	724.7%	232.4%	108.8%
2021	61.2	9.5	76.3	147.0	2021	103.8%	-1.2%	-19.1%	9.7%
Cumulative	183.0	22.5	220.2	425.7				•	

Source: Dealogic, SIFMA estimates







Appendix: Fixed Income Securities Definitions & Purpose

In general, fixed income securities are borrowed capital for the issuer to fund government operations, public projects or corporate investments, thereby fueling economic growth. The diversity of fixed income products both increases the amount of funds available to borrow and spreads credit risk across multiple market participants.

- U.S. Treasury Securities (UST) UST are debt obligations of the federal government used to fund its
 operations. Since UST are backed by the full faith and credit of the U.S. government, these securities are
 considered by market participants as the benchmark credit. The U.S. government has a AAA rating,
 meaning it has essentially no credit risk and can easily meet its financial obligations on time and in full. In
 light of this, UST show a diversity of holders, in both institutional type and foreign holders.
- Mortgage-Backed Securities (MBS) Since mortgages (a debt instrument collateralized by a specified real estate property) are less liquid than other investment vehicles, they can be securitized into MBS, whether in pass-throughs or collateralized mortgage obligations (CMOs).
- Corporate Bonds (Corporates) Corporates are debt securities issued by public and private corporations. They are issued to raise money to fund investments or expansion plans. Corporates are considered riskier than UST, and receive ratings by credit ratings agencies to determine creditworthiness, i.e. probability of repayment of debt in a timely manner.
- **Municipal Bonds (Munis)** Munis are debt securities issued by state/local governments or government agencies and public entities (utilities, school districts) to fund public projects, predominantly infrastructure related. Efficient muni markets enable states and municipalities to borrow at low rates and finance capital expenditures over a longer time period.
- Federal Agency Securities (Agency) Agency securities are issued by quasi-governmental agencies (federal government, government sponsored enterprises) to fund operations. Unlike UST or munis, these securities are not always fully guaranteed by the U.S. or a municipal government. As such, they can hold credit and default risk.
- Asset-Backed Securities (ABS) ABS are financial securities collateralized by a pool of typically illiquid
 assets such as auto loans, student loans, credit cards, etc. Pooling these assets creates a more liquid
 investment vehicle, with a valuation based on the cash flows of the underlying and the structure of the
 transaction.
- Money Markets (MM) MMs involve highly liquid, short maturity (typically overnight to less than one year) financial instruments (certificates of deposit/CDs, bankers acceptances, commercial paper/CP, etc.), used by investors to borrow and lend in the short term. Transactions in the money markets are wholesale, taking place only between institutional investors (no individual investors) and for large denominations.

- Repurchase Agreements (Repos) Repos are financial transactions in which one party sells an asset to another party with a promise to repurchase the asset at a pre-specified later date (a reverse repo is the same transaction seen from the perspective of the security buyer). Repos can be overnight (duration one day) or term (duration up to one year, albeit some are up to two years and the majority are three months or less). The repo market enables market participants to provide collateralized loans to one another, and financial institutions predominantly use repos to manage short-term fluctuations in cash holdings, rather than general balance sheet funding. Repos aid secondary market liquidity for the cash markets (ex: UST), allowing dealers to act as market makers in a very efficient manner.
- Secured Overnight Financing Rate (SOFR) In the U.S., the transition away from London Interbank
 Offered Rate (LIBOR) to its chosen alternative reference rate, SOFR, is underway. While LIBOR is not fully
 transaction based, SOFR is based on the overnight repo markets with ~ \$1 trillion of transactions per day.
 Publication of the SOFR rate began in April 2018. Trading and clearing of SOFR based swaps and futures
 began in May 2018.
- Environmental, Social, and Governance (ESG) Dealogic classifies ESG bonds by:
 - Green Any type of bond instrument where the proceeds will be exclusively applied to finance or refinance, in part or in full, new and/or existing eligible Green Projects and which are aligned with the four core components of the Green Bond Principles (<u>GBP</u>)
 - Social Any type of bond instrument where the proceeds will be exclusively applied to finance or refinance in part or in full new and/or existing eligible Social Projects and which are aligned with the four core components of the Social Bond Principles (<u>SBP</u>)
 - Sustainability Bonds where the proceeds are exclusively applied to finance or refinance a combination of both Green and Social Projects
 - Region Deal nationality is a calculated nationality that looks at the business nationality of the issuing entity with the exception of securitizations that are categorized using the nationality of business of the originator or if undisclosed the nationality of risk

Appendix: Terms to Know

O/Q Quarter-over-Quarter YTD Year-to-Date BPS Basis Points PPS Percentage Points CAGR Compound Annual Growth Rate CUSIP Committee on Uniform Securities Identification Procedures CFTC Commodity Futures Trading Commission SEC Securities and Exchange Commission Fed Federal Reserve System FRB Federal Reserve Bank NY Fed Federal Reserve Bank of New York ARRC Alternative Reference Rates Committee ADV Average Daily Trading Volume Algo Algorithm (algorithmic trading) AT Automated Trading ATS Alternative Trading System AUM Assets Under Management Best Ex Best Execution CLOB Central Limit Order Book D2C Dealer-to-Client D2D Dealer-to-Dealer ECN Electronic Trading Platforms ETD Exchange Traded Derivative FI Fixed Income FICC Fixed Income, Currencies and Commodities GCF General Collateral Financing IDB Inter-Dealer Broker IV Intraday Indicative Value IOI Indication of Interest MM Market Maker OI Open Interest OTC Over-the-Counter VWAP Volume Weighted Average Price IBOR Interbank Offered Rate LIBOR Secured Overnight Financing Rate DV01 Dollar Value of Basis Point DVP Delivery-versus-Payment EFFR Effective Fed Funds Rate PAI Price Alignment Interest Repo Repurchase Agreement	Y/Y	Year-over-Year
YTD Year-to-Date BPS Basis Points PPS Percentage Points CAGR Compound Annual Growth Rate CUSIP Committee on Uniform Securities Identification Procedures CFTC Commodity Futures Trading Commission SEC Securities and Exchange Commission Fed Federal Reserve System FRB Federal Reserve Bank NY Fed Federal Reserve Bank of New York ARRC Alternative Reference Rates Committee ADV Average Daily Trading Volume Algo Algorithm (algorithmic trading) AT Automated Trading System AUM Assets Under Management Best Ex Best Execution CLOB Central Limit Order Book D2C Dealer-to-Client D2D Dealer-to-Dealer ECN Electronic Communications Network ETP Electronic Trading Platforms ETD Exchange Traded Derivative FI Fixed Income FICC Fixed Income FICC Fixed Income, Currencies and Commodities GCF General Collateral Financing IDB Inter-Dealer Broker IIV Intraday Indicative Value IOI Indication of Interest MM Market Maker OI Open Interest OTC Over-the-Counter VWAP Volume Weighted Average Price IBOR Interbank Offered Rate LIBOR London Inter-bank Offered Rate RFR Risk Free Rate SOFR Secured Overnight Financing Rate DV01 Dollar Value of Basis Point DVP Delivery-versus-Payment EFFR Effective Fed Funds Rate PAI Price Alignment Interest		
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SOFR Secured Overnight Financing Rate DV01 Dollar Value of Basis Point DVP Delivery-versus-Payment EFFR Effective Fed Funds Rate PAI Price Alignment Interest		London Inter-bank Offered Rate
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DVP Delivery-versus-Payment EFFR Effective Fed Funds Rate PAI Price Alignment Interest	SOFR	
EFFR Effective Fed Funds Rate PAI Price Alignment Interest		
PAI Price Alignment Interest		, ,
		Effective Fed Funds Rate
Repo Repurchase Agreement	PAI	Price Alignment Interest
	Repo	Repurchase Agreement

UST	U.S. Treasury Securities
MBS	Mortgage-Backed Security
Corporates	Corporate Bonds
Munis	Municipal Securities
Agency	Federal Agency Securities
ABS	Asset-Backed Securities
MM	Money Markets
FRN	Floating Rate Note
FRA	Forward Rate Agreement
T-Bill	U.S. Treasury Bill
T-Note	U.S. Treasury Note
T-Bond	U.S. Treasury Bond
TIPS	Treasury Inflation Protected Securities
	,
ABS	Asset-Backed Security
СМО	Collateralized Mortgage Obligation
MBS	Mortgage-Backed Security
CMBS	Commercial MBS
RMBS	Residential MBS
HY	High Yield Bond
IG	Investment Grade Bond
	One and Obligation Band
GO	General Obligation Bond
Revenue	Revenue Bond
CD	Certificate of Deposit
CDO	Collateralized Debt Obligation
CLO	Collateralized Loan Obligation
CP	Commercial Paper
ABCP	Asset-Backed Commercial Paper
MMF	Money Market Mutual Funds
IVIIVII	inioney market mutual runus
FAMC	Farmer Mac/Federal Agricultural Mortgage Corporation
FCS	Farm Credit System
FHLB	Federal Home Loan Banks
FHLMC	Freddie Mac/Federal Home Loan Mortgage Corporation
FNMA	Fannie Mae/Federal National Mortgage Association
GNMA	Ginnie Mae/Government National Mortgage Association
TVA	Tennessee Valley Authority
177	Termessee valley Authority
ĪR.	Interest Rate
IRS	Interest Rate Swap
OIS	Overnight Index Swap
TRS	Total Return Swap
STIR	Short-Term Interest Rate
J 111 X	Onor Tomi intorost rate

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