



Evaluation of the effects of too-big-to-fail reforms

Financial Stability Board

September 2020

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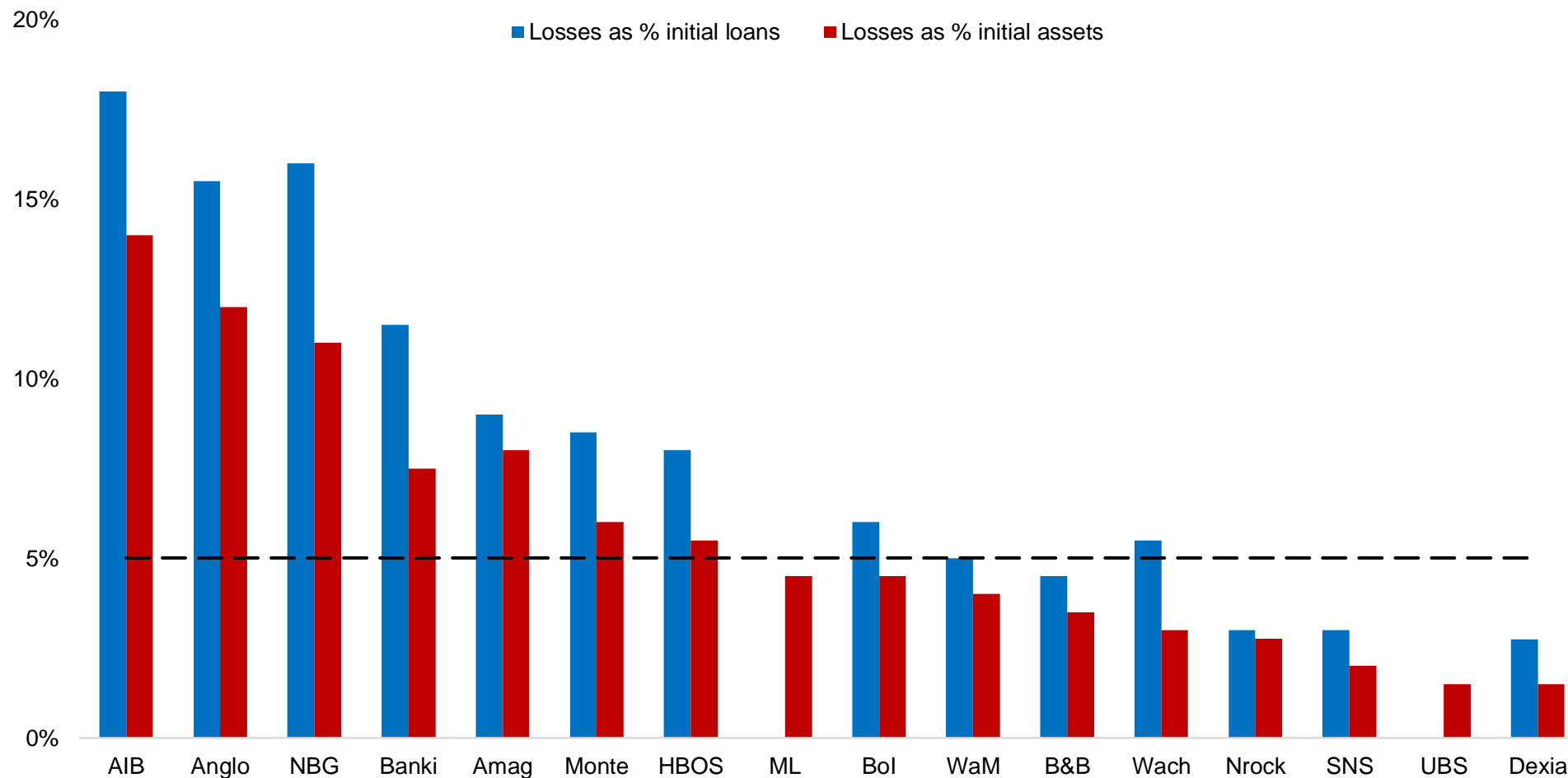
Inefficient Banking Systems Increase Fragility

	Capital Ratio	Profitability	Asset Quality	Costs	Fragmentation	Diversification	Size
	Bank Capital to Assets Ratio (%)	RoA, bps	Gross NPL%	Bank Branches per 100k People	Number of Credit Institutions per 100k People	Bank Financing as % of Total Credit to Private Corporates	Bank Total Assets as % National GDP
US	11.7	120.0	0.9	30.9	1.6	34%	94%
Netherlands	6.2	47.3	1.9	11.0	0.5	44%	328%
Finland	9.3	32.4	1.4	3.1	4.3	59%	305%
UK	6.8	28.0	1.1	25.1	0.6	70%	368%
Ireland	14.9	50.5	5.7	20.5	6.2	19%	391%
France	6.5	39.7	2.7	34.9	0.6	53%	440%
Spain	7.6	51.3	3.2	55.1	0.4	68%	235%
Germany	6.5	15.6	1.2	11.1	1.8	78%	264%
Italy	6.3	38.1	8.4	40.9	0.8	74%	218%
Portugal	7.0	45.1	9.4	36.0	1.4	65%	196%
Australia	6.9	84.0	0.9	28.2	0.5	50%	273%
Canada	5.3	88.6	0.4	20.0	0.3	42%	311%

Source: Algebris (UK) Limited, ECB, BoE, World Bank, OECD, BIS

Historical Bank % Losses During the GFC, as % of Balance Sheet

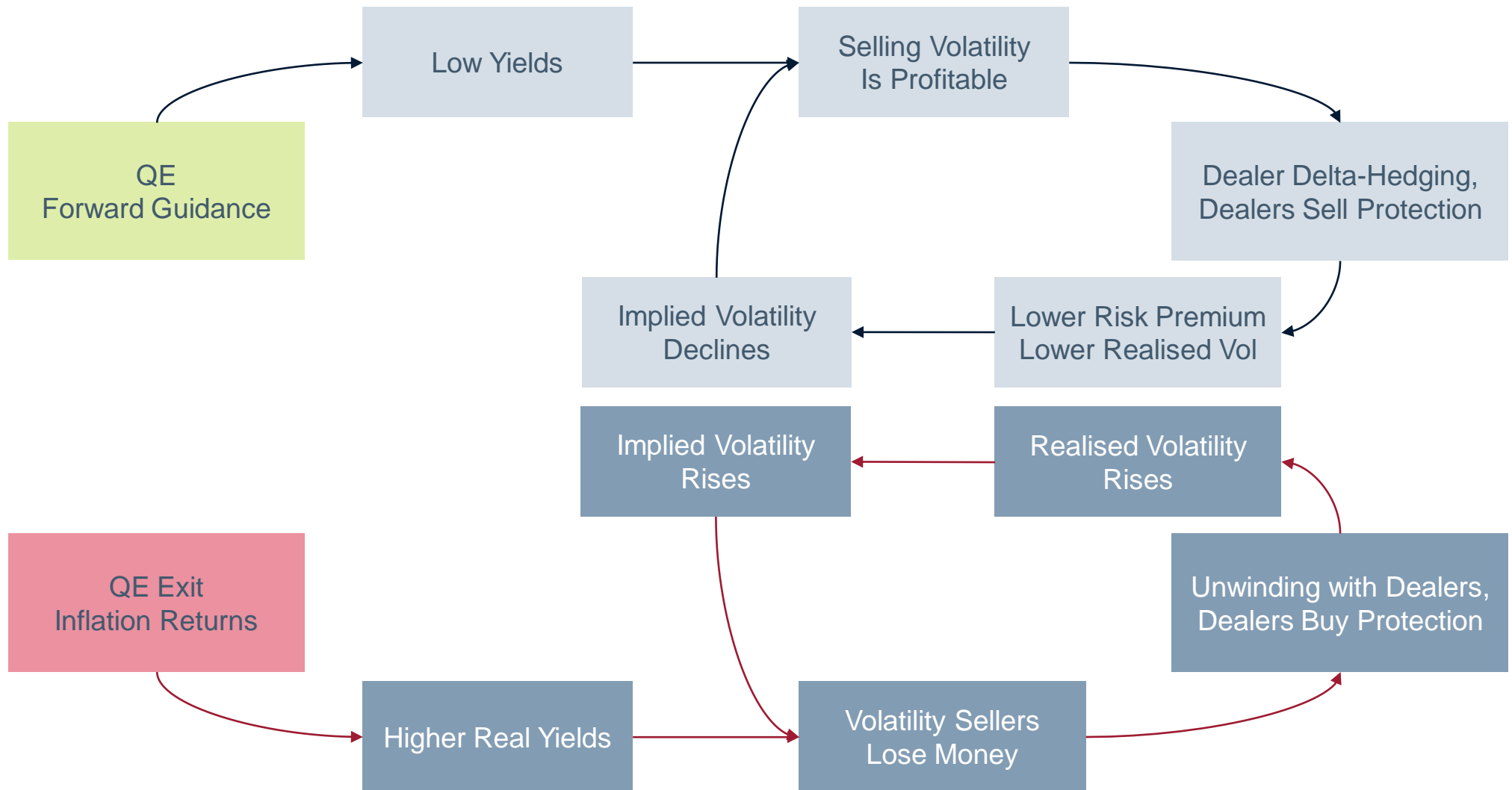
Losses can Exceed 10% of Assets



Source: Algebris (UK) Limited, RBS Credit Strategy, Bloomberg, company filings

Low Volatility and Asset Bubbles

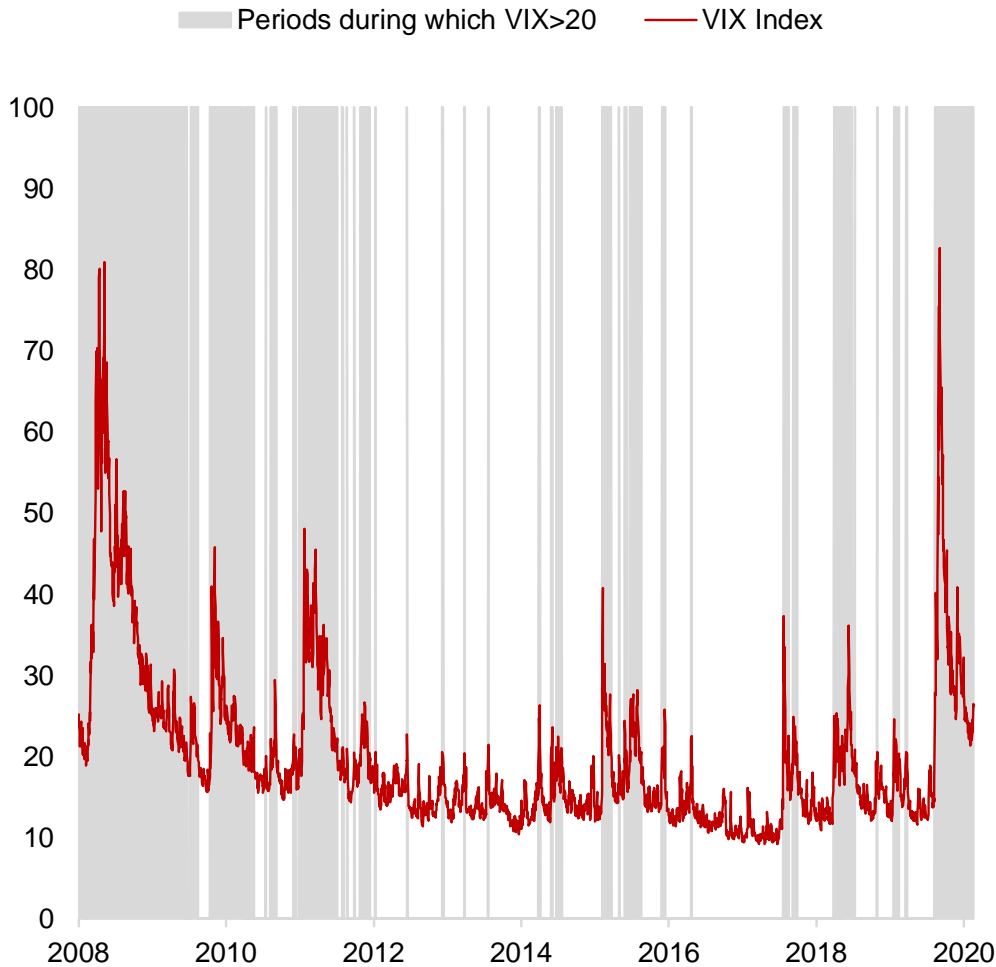
Forward Guidance and Short Volatility: A Feedback Loop



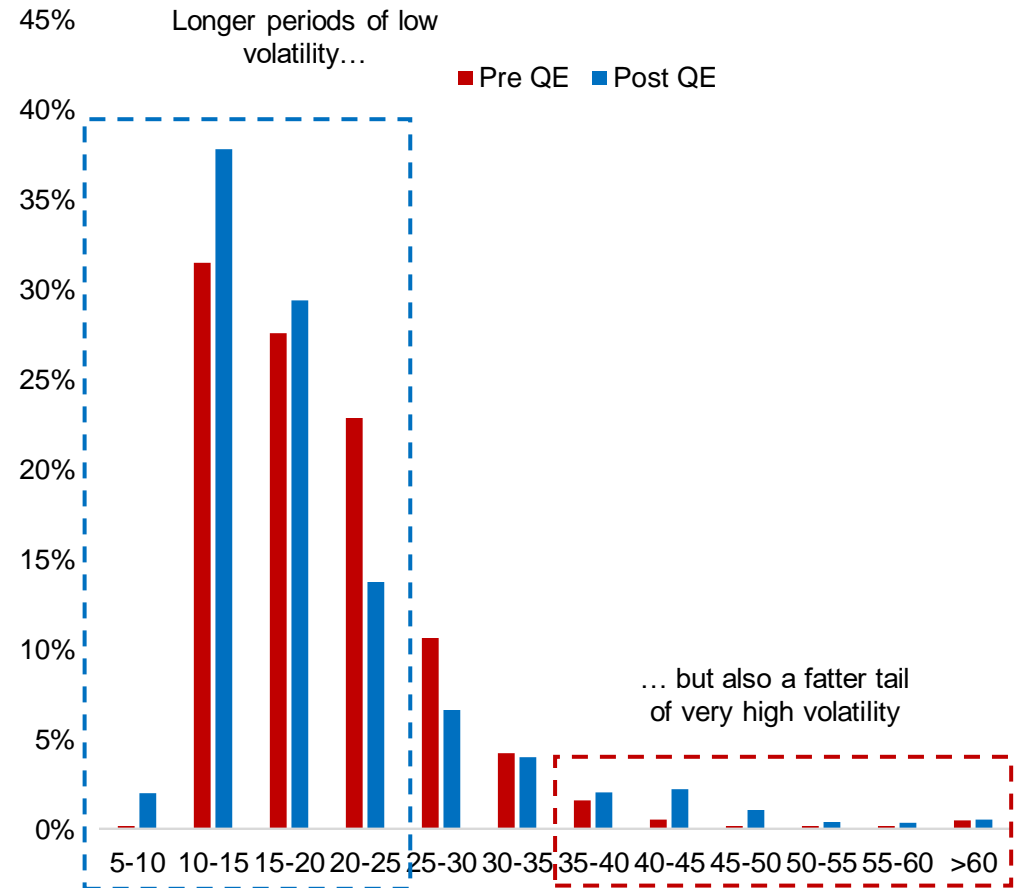
Markets: The New Too-Big-To-Fail

VIX Pre and Post QE

Length of High Vol Periods



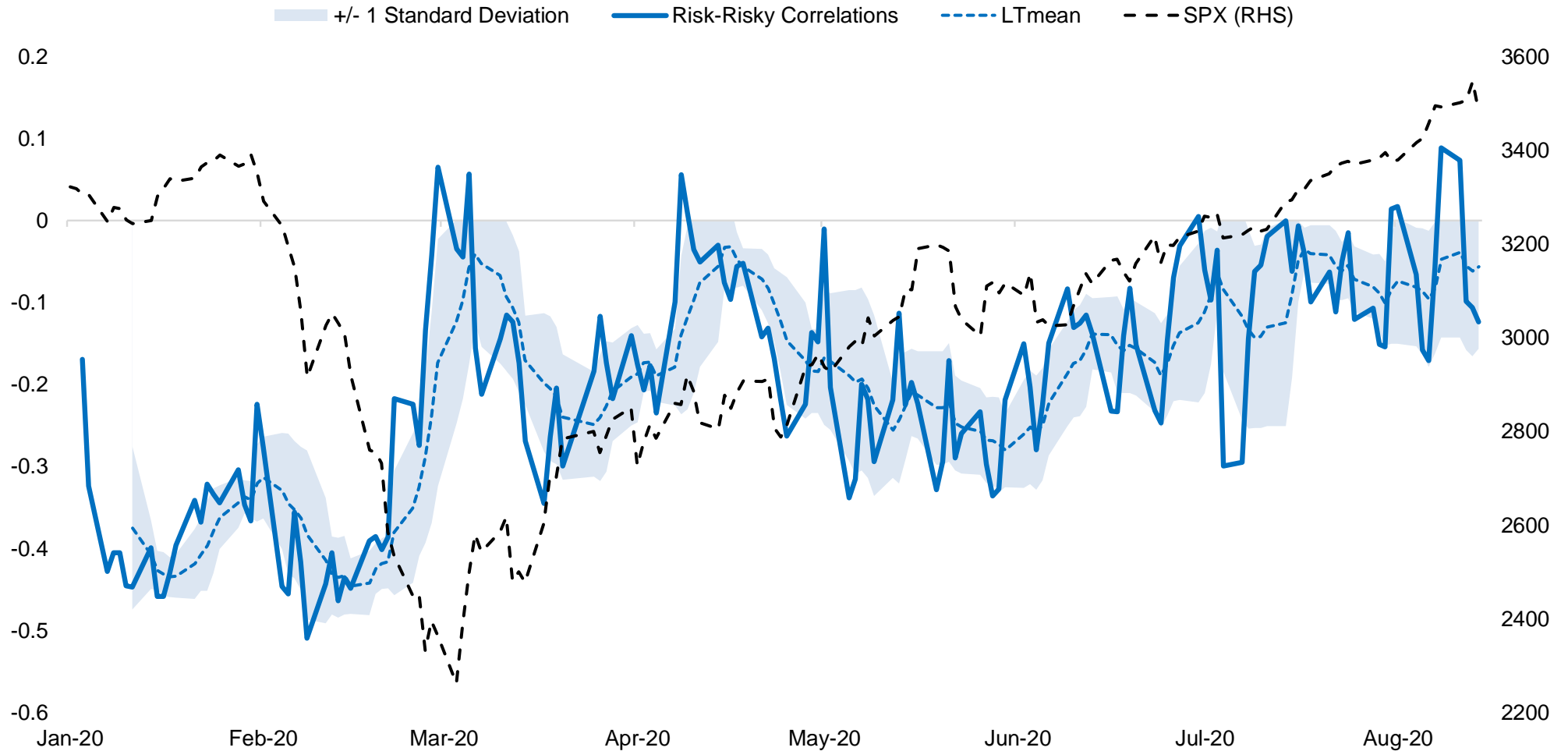
Proportion of Days When VIX Falls in the Range



Source: Algebris (UK) Limited, Bloomberg. Data as of 28.08.2020

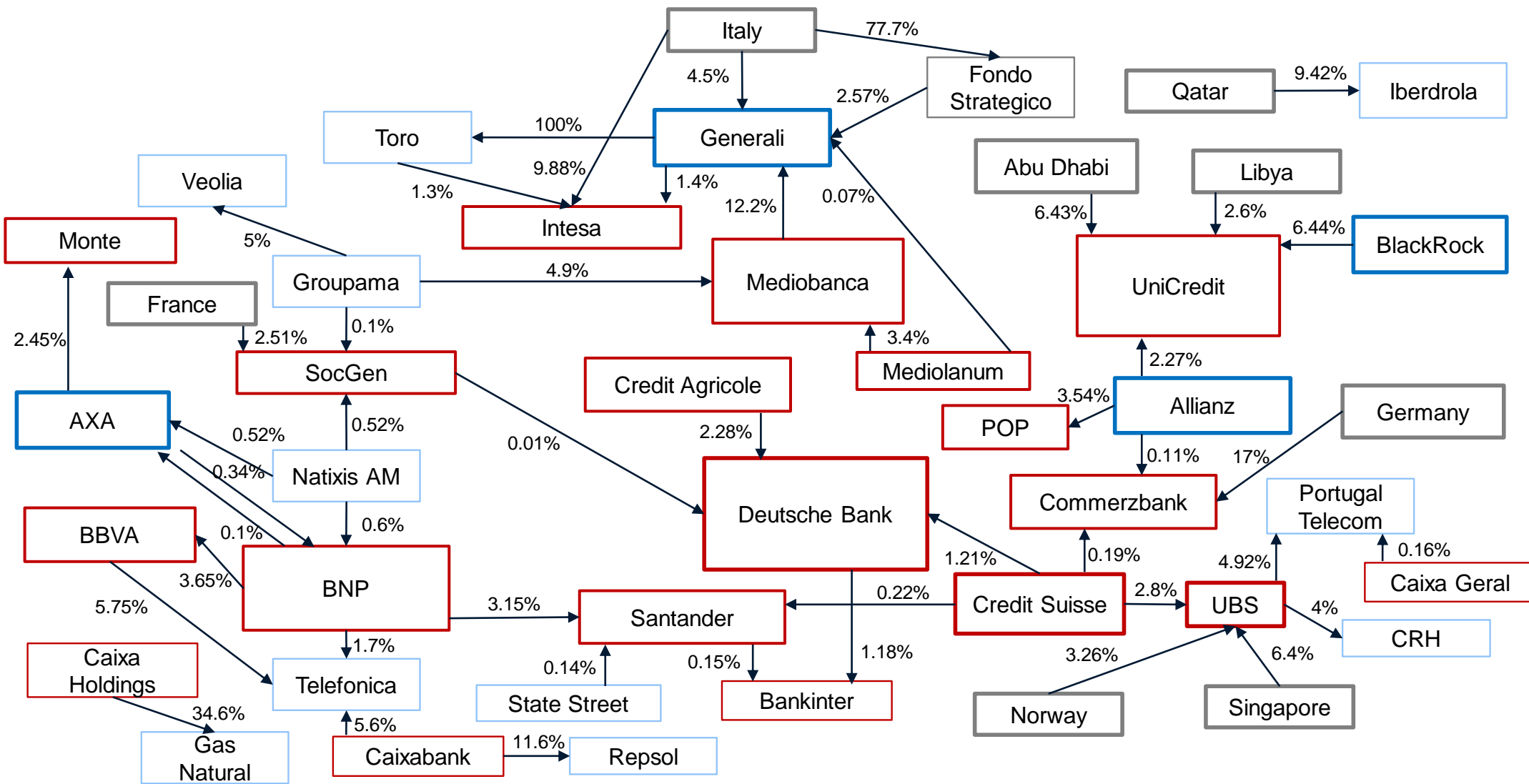
Risk-free Assets: No Longer Balancing Portfolios

2-Day Rolling Correlations – 10 Minute Intervals



Equities used: SX5E, SX7E, SPX, EEM, FTSEMIB, UKX and BKX; Rates used: OE1, RX1, TY1; Credit used: Xover, CDX HY, Senior Fin and EM local sovereign.
 Source: Algebris (UK) Limited, Bloomberg. Data as of 03.09.2020

Cross-holdings and Systemic Risk Propagation

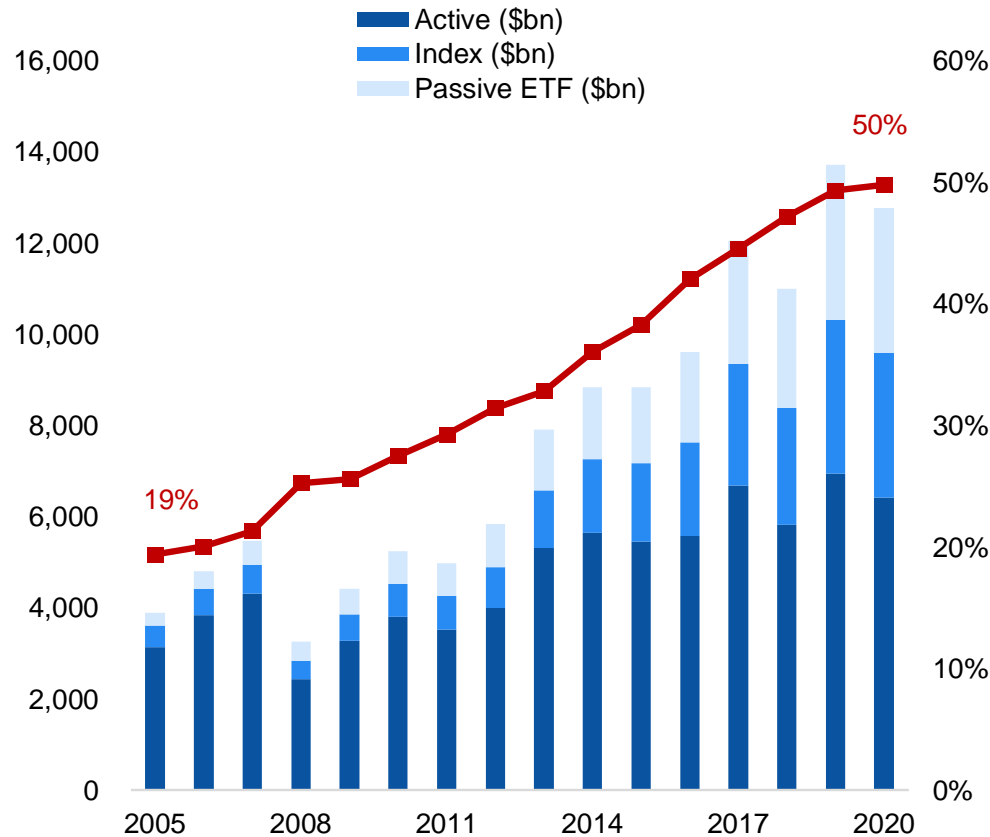


Source: Algebris (UK) Limited. Bloomberg 2016

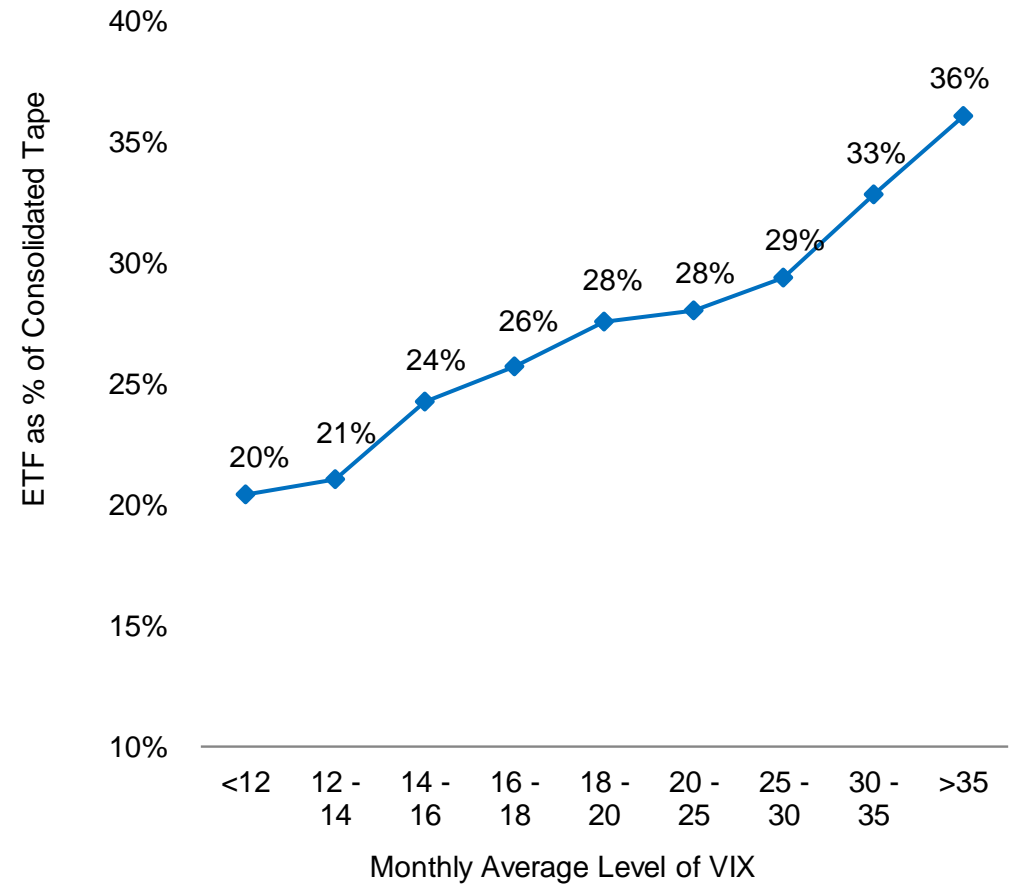
Markets: Increased Fragility

The Passive Investing Feedback Loop

Passive & Index investing increased to 50% of the US Equity Market



ETF usage rises as market volatility increases
(ETF Volumes as a % of the Total Tape, by Average Monthly VIX Levels)

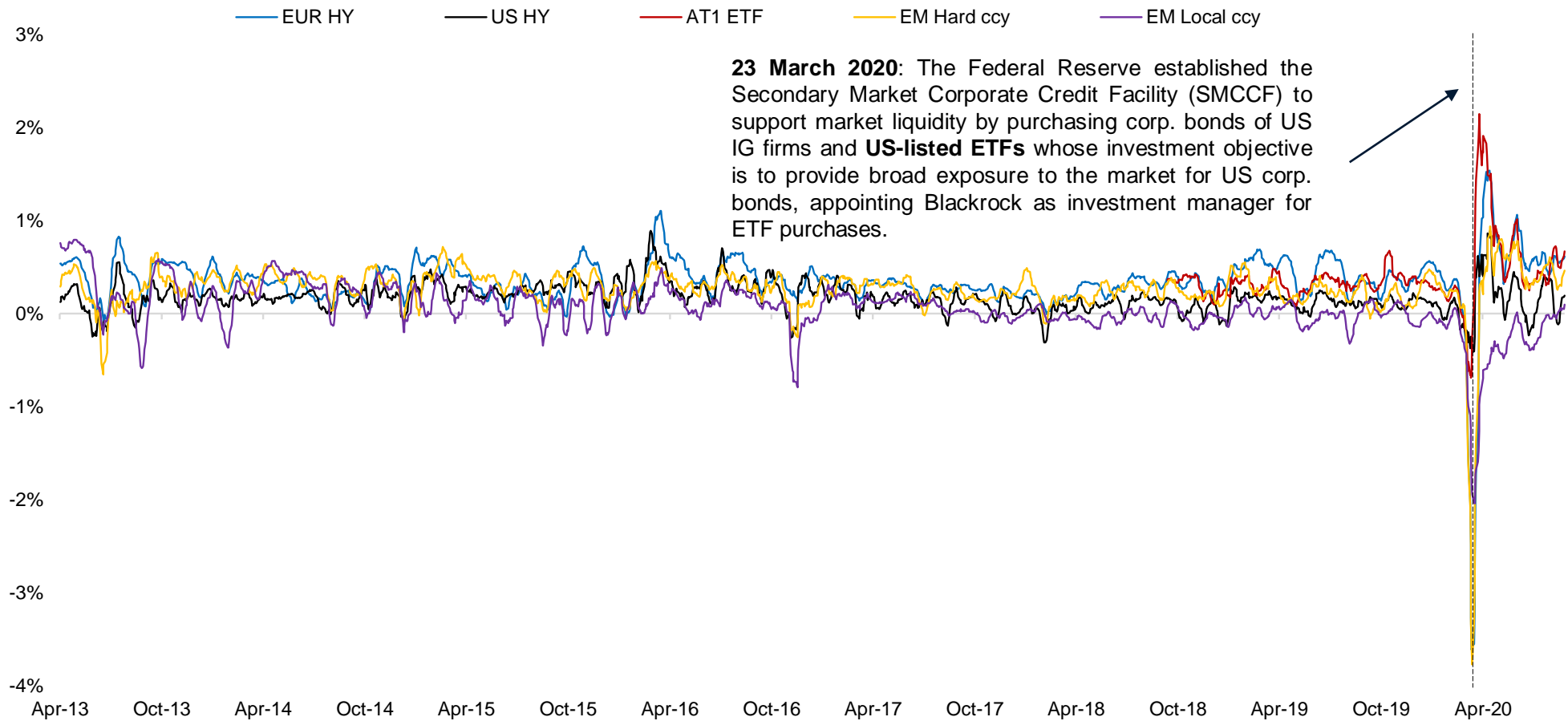


Source: Algebris (UK) Limited, GS Research. Data as of 30.06.2020

Markets: Increased Fragility

ETF Selloff During the Covid-19 Crisis

Fund Percentage Premium/Discount vs NAV
10-Day Moving Average



Source: Algebris (UK) Limited, Bloomberg. Data as of 02.09.2020

Note: EMB US - iShares J.P. Morgan USD Emerging Markets Bond ETF (EM Hard ccy); JNK US - SPDR Bloomberg Barclays High Yield Bond ETF (US HY); AT1 LN - Invesco AT1 Capital Bond UCITS ETF (AT1 ETF); IHYG LN - iShares EUR High Yield Corp Bond UCITS ETF (EUR HY); SEML IM - iShares JP Morgan EM Local Government Bond UCITS ETF (EM Local ccy)

Policy and Markets: Time Inconsistency and Fragility

Fragility is Common, Anti-Fragility is Rare

	Fragile	Robust	Anti-Fragile
Medicine	Anaesthesia	Vaccine	Mithridatism
Pension System	Defined Benefits	Defined Contributions	Social Shock Absorbers
Technology	Centralised Hard Drive	Underground Storage	Cloud Storage
Mythology	Damocles	Ulysses	Hydra
Nature	Dinosaurs	Land Turtle	Ant Colony/Bacteria
Objects	Tea Set	Anvil	Spring
Financial Markets	Passive Investing/Herding Financial Engineering/Complexity	Active Management	Tail Risk Strategies
Monetary Policy	Forward Guidance	Rule-Based Approach	Macro-prudential Policy
Capital Structure	Debt	Equity	AT1
Sovereign Debt	Hard Currency External Debt	Domestic Currency Debt	Growth-Linked Debt
Economic Agents	Politicians	Regulators	Long-Term/Contrarian Investors
Government Structure	Eurozone	Singapore	Switzerland

Source: Algebris (UK) Limited. With reference and inspiration from *Antifragile: Things that Gain from Disorder*, N. N. Taleb (2013)

Bibliography & Additional Reading

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- Shambaugh J., Nunn R., Breitwieser A., Liu P., [The state of competition and dynamism: Facts about concentration, start-ups, and related policies](#), 13 June 2018
 - Gallo A., [How the American dream turned into greed and inequality](#), World Economic Forum, 12 October 2017
 - [Scars or scratches? Hysteresis in the euro area](#), Speech by Benoît Cœuré, Member of the Executive Board of the ECB at the International Center for Monetary and Banking Studies, Geneva, 19 May 2017
 - Hassan, F., di Mauro, F., Ottaviano, G. [Banks credit and productivity growth](#), ECB Working Paper Series, February 2017
 - Corlett, A., Clarke, S. [Living standards 2017: the past, present and possible future of UK incomes](#), 31 January 2017
 - [Understanding Populism: Inequality by the Numbers](#), Blog post by Pushan Dutt (INSEAD Professor of Economics and Political Science), 16 December 2016
 - Jarociński, M., Lenza, M., [An inflation-predicting measure of the output gap in the euro area](#), ECB Working Paper Series No 1966, September 2016
 - Saito, I., [Fading Ricardian Equivalence in Ageing Japan](#), IMF Working Paper 16/194, September 2016
 - [Democracy Index 2016: Revenge of the "deplorables"](#), The Economist Intelligence Unit, 2016
 - Kuroda, H., ["Comprehensive Assessment" of the Monetary Easing: Concept and Approaches](#), 5 September 2016
 - Ball L., Gagnon J., Honohan P., Krogstrup S., [What else can central banks do?](#), Vox, 2 September 2016
 - Daurer U., [German Savers Lose Faith in Banks. Stash Cash at Home](#), Wall Street Journal, 28 August 2016
 - Jobst A., Lin H., [The ECB's Negative Rate Policy Has Been Effective but Faces Limits](#), IMF, 10 August 2016
 - Stevens G., [An Accounting: Address to the Anika Foundation Luncheon](#), 10 August 2016
 - Gallo A., [Our global financial system is broken. Here's a plan for fixing it](#), World Economic Forum, 6 July 2016
 - Williamson, S., [Neo-Fisherism: A Radical Idea, or the Most Obvious Solution to the Low-Inflation Problem?](#), Federal Reserve Bank of St. Louis, July 2016
 - Kuroda, H., [Overcoming Deflation: Theory and Practice](#), 20 June 2016
 - Corsetti, G., Feld P. L., Koijen R., Reichlin L., Reis R., Rey H., Weder di Mauro B., [Reinforcing the Eurozone and protecting an open society: Refugee bonds](#), 27 May 2016
 - Haldane, A. G., [The Great Divide](#), Bank of England, 18 May 2016
 - Rajan R., [Rethinking the Global Monetary System](#), Speech at the London School of Economics, 10 May 2016
 - Jones, R., [Innovation, research and the UK's productivity crisis](#), The University of Sheffield, April 2016
 - Standard & Poor's, [QE and Economic Inequality: The UK Experience](#), 10 February 2016
 - Cochrane, J., [Do Higher Interest Rates Raise or Lower Inflation](#), 10 February 2016
 - Kothari, S.P., Lewellen, J., Warner, J. B., [The behaviour of aggregate corporate investment](#), MIT, December 2015
 - Borio, C., [Labour reallocation and productivity dynamics: financial causes, real consequences](#), BIS, December 2015
 - Gallo, A., [Why ECB's quantitative easing won't work and how it can be fixed](#), Financial Times, 7 December 2015
 - Blanchard, O., E. Cerutti and L. Summers, [Inflation and activity – Two Explorations and their Monetary Policy Implications](#), IMF Working Paper No 230., November 2015
 - Borio, C., [Revisiting three intellectual pillars of monetary policy received wisdom](#), Luncheon address, Cato Institute, 12 November 2015
 - Borio C., Gambacorta, L., Hofmann, B., [The influence of monetary policy on bank profitability](#), BIS, October 2015
 - Contessi, S., Kerdnunvong, U., [Asset bubbles: detecting and measuring them are not easy tasks](#), Federal Reserve Bank of St. Louis, July 2015
 - Belfied, Cribb, Hood, Joyce, [Living Standards, Poverty and Inequality in the UK: 2015](#), Institute for Fiscal Study, July 2015
 - Gallo, A., [Rethink needed for monetary policy role](#), Financial Times, 1 July 2015
 - Haldane, A. G., [Stuck](#), Bank of England, 30 June 2015
 - Borio C., [Persistent unusually low interest rates. Why? What Consequences?](#), BIS, 28 June 2015
 - IMF, [Global Financial Stability Report](#), April 2015
 - Gallo, A., Walker, R., Tyrrell-Hendry, L., Popovic, M., Grant, A., Pan, T., [The Revolver | Divided Kingdom: Britain's future beyond the election](#), 14 April 2015
 - Sigurjonsson, F.; [Monetary Reform. A better monetary system for Iceland](#), Report commission by the Prime Minister of Iceland, 20 March 2015
 - OECD (2015), [Economic Policy Reforms 2015: Going for Growth](#), OECD Publishing, 9 February 2015
 - Milburn, [Elitist Britain?](#), Social Mobility and Child Poverty Commission, 2014
 - Kothari, S.P., Lewellen, J., Warner, J., [The behavior of aggregate corporate investment](#), MIT Sloan Research Paper No. 5112-14, 19 October 2014
 - Jahan S., Mahmud A. S., Papageorgiou C., [What is Keynesian Economics?](#), IMF, September 2014
 - Carrol, C.D., Slacalek, J., Tokuoka, K. (2014) [The Distribution of Wealth and the Marginal Propensity to Consume](#), ECB Working Paper No 1655
 - Sharpe, S.A. and Suarez, G.A. (2014) [The insensitivity of investment to interest rates: Evidence from a survey of CFOs](#), Finance and Economics Discussion Series, FRB Washington DC
 - Rotman, D., [How Technology is Destroying Jobs](#), MIT Technology Review, 12 June 2013
 - Koo, R., [The world in balance sheet recession: causes, cure, and politics](#), Real-world Economics Review, issue no. 58, 2011
 - Rajan, G. R., [Let Them Eat Credit](#), New Republic, 27 August 2010
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