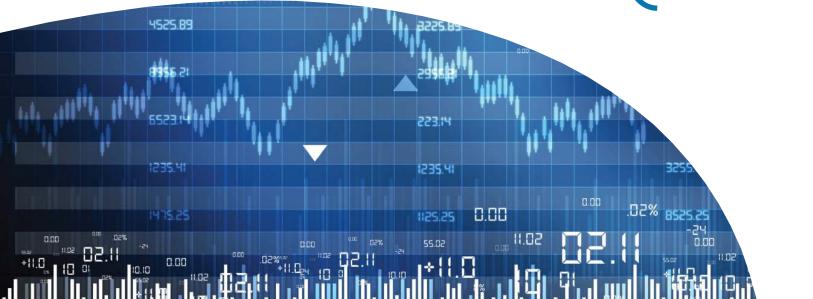
Long Volatility

Asymmetric Alpha

Negatively Correlated Alpha

Convex Crisis Alpha



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What is Correlation?

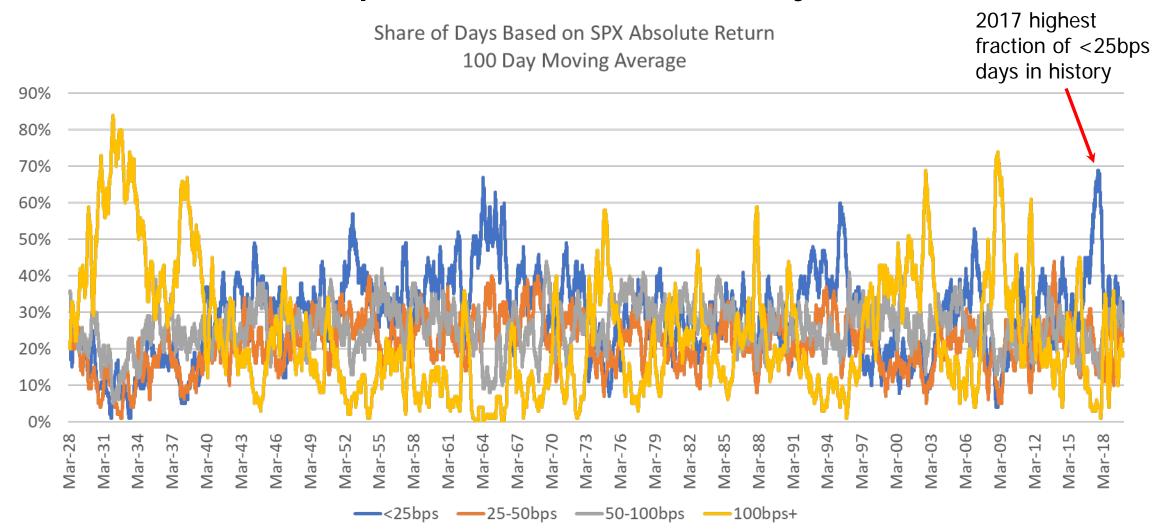
Correlation measures the fraction of the movement of Variable Y explained by the movement of Variable X

Two reasons why correlation can be low:

- 1) No relationship
- 2) No movement in X



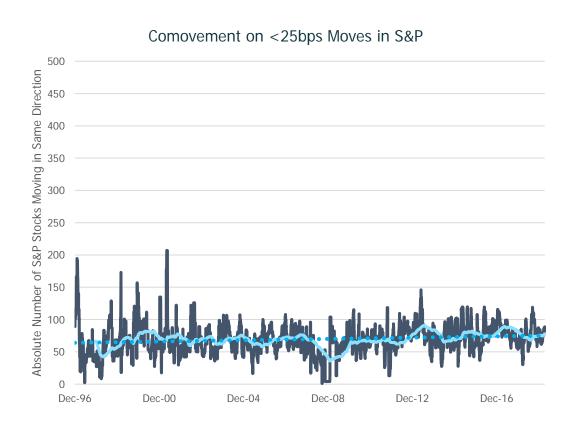
In 2017, low implied correlation was driven by Reason #2

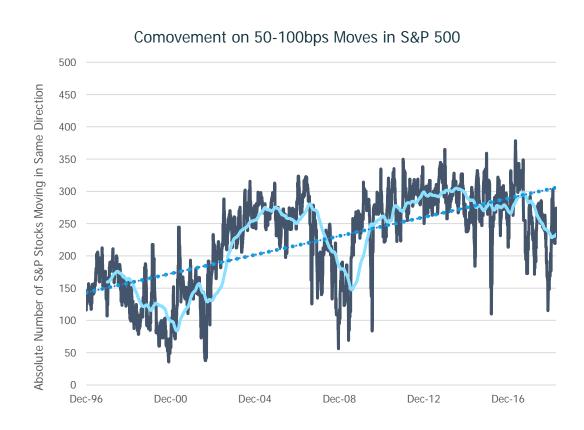




Conditional Correlation – A Measure of Fragility

Holding Volatility constant, over the last 25 years, correlation has increased dramatically

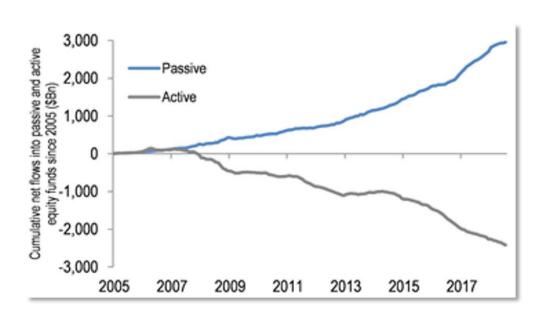


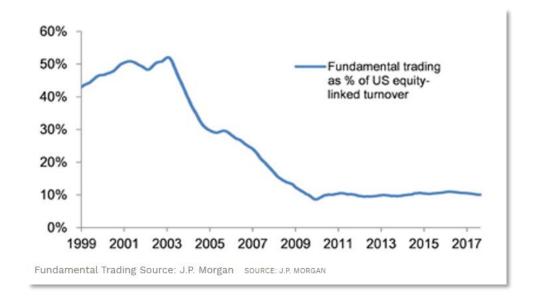




Why is Correlation Rising? Passive Investing

"If everybody indexed, the only word you could use is chaos, catastrophe...The markets would fail." - John Bogle, May 2017





Yield Enhancement Strategies

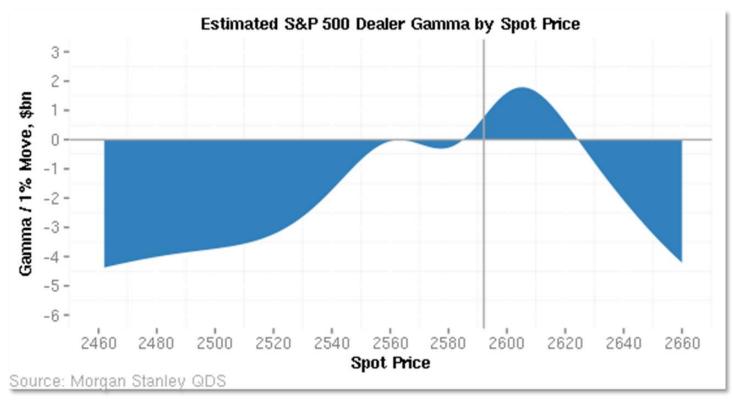
> Call Overwriting

> > Asian retail

Canadian pensions

Note: data as of 12/2017

Why aren't Stock Indices Moving? Systematic Volatility Selling



Dealer trading creates a boundary around S&P prices within which price is more likely to mean revert.

When the boundary is broken, however, dealer trading <u>exacerbates</u> volatility instead of cushioning it.

Retail VIX ETFs (like XIV)

Corporate share buybacks

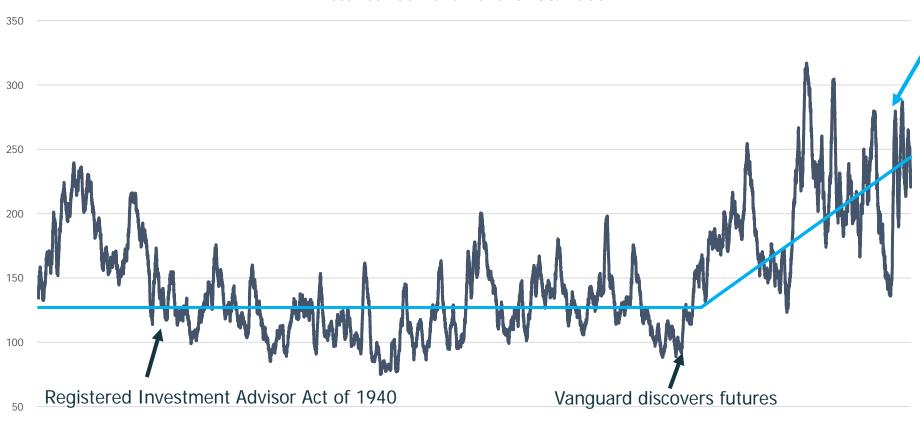
Systematic investment programs (401Ks)

Systematic rebalancing



A Period of Record Correlation

Historical Comovement for S&P 500



Feb 5th 2018: Co-movement 100% for first time ever

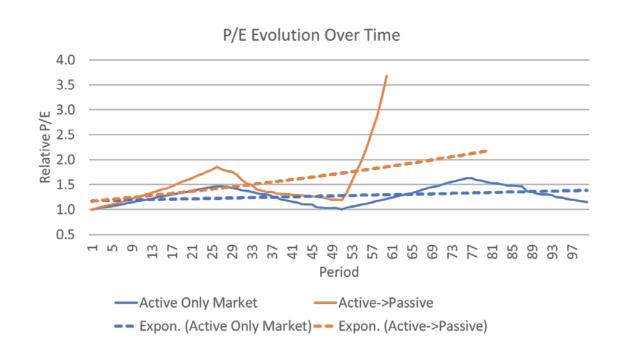
1928 1931 1934 1937 1940 1943 1946 1949 1952 1955 1958 1961 1964 1967 1970 1973 1976 1979 1982 1985 1988 1991 1994 1997 2000 2003 2006 2009 2012 2015 2018

Source: Bloomberg, Logica calculations ——Share Based Comovement ——Constant Share Comovement

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A theoretical model of Active->Passive transition shows rising valuations over time Empirical results show the same

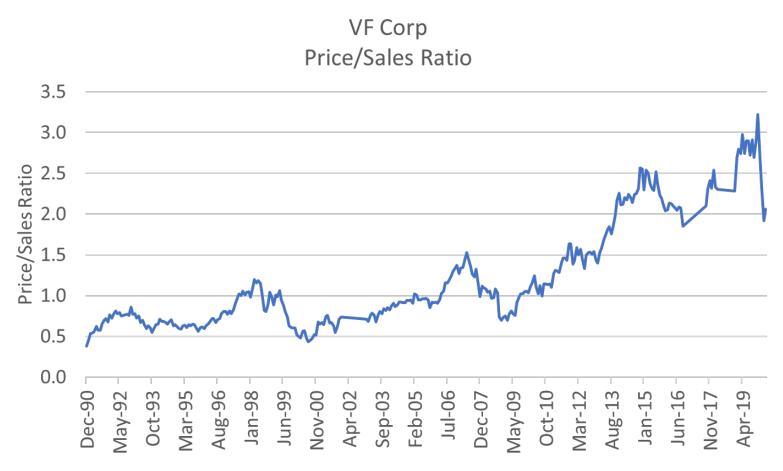




Source: Proprietary survey of 452 investors subscribing to RealVision, Logica calculations, Compustat



"The median company is getting better over time"... no, it's not



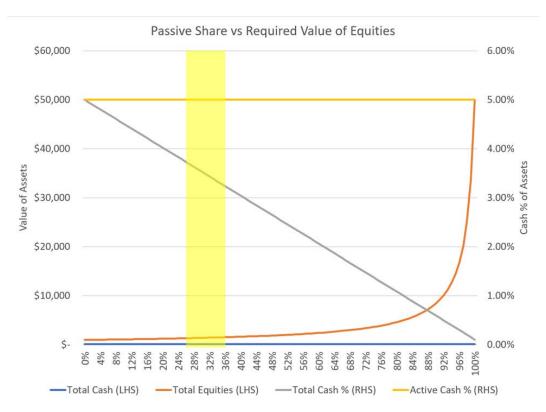


Unfortunately that's not the only way "passive" changes markets

Not only does passive have a higher marginal propensity to transact, it hates cash...

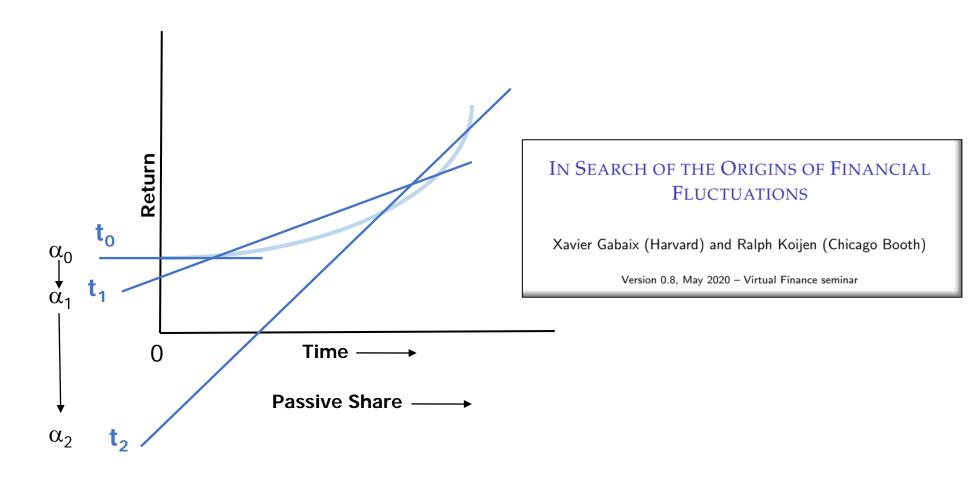
			Equity	Cash	Cash %	
	t=0	Active	950	50	5%	
		Passive	0	0		
		Total	950	50	5%	
Step 1:	Mike Green wants to move \$10 from Active to Passive					
			Equity	Cash	Cash %	
	t=1a	Active	950	40	4.0404%	
		Mike Green	0	10	100%	
		Passive	0	0		
		Total	950	50	5.0000%	
	t=1b	Active	950	40	4.0404%	
		Mike Green	0	0	100%	
		Passive	0	10		
		Total	950	50	5.0000%	
Step 2:	Active needs to get back to 5% cash + Passive needs to get to					
	Active must sell \$9.50 (1% of \$950)					
	Daccivo	must huy \$9 99 (9	Passive must buy \$9.99 (99.9% of \$10)			
		,				
		outweighs selling,		rise. Solve	e iterativel	
		,		rise. Solve	e iterativel Cash %	
		,	so prices must			
	Buying	outweighs selling, s	Equity \$949.81	Cash	Cash %	

Since cash has zero variance, the only "flex" is in equity prices... we are still too low to see most effects clearly



Source: Logica Capital Advisers, LLC

When Time becomes a proxy for Passive penetration, Alpha vanishes for Active Management

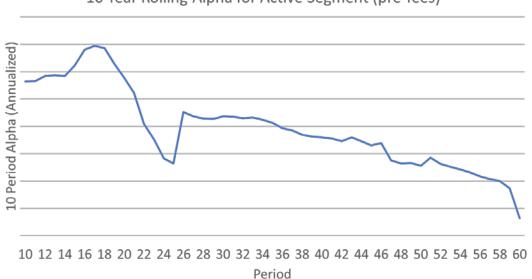




Again, little difference between Theory and Practice

Theory

10 Year Rolling Alpha for Active Segment (pre-fees)

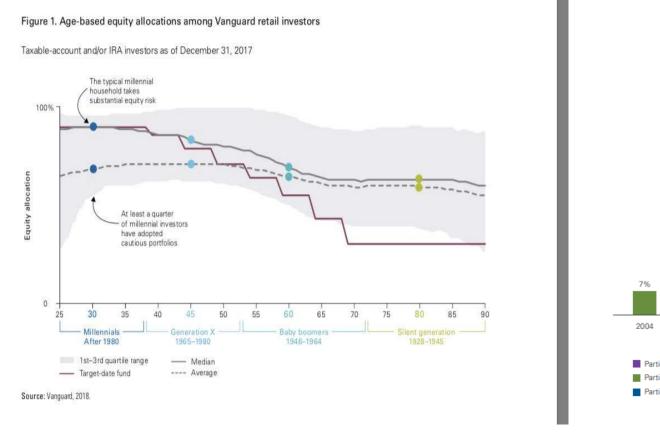


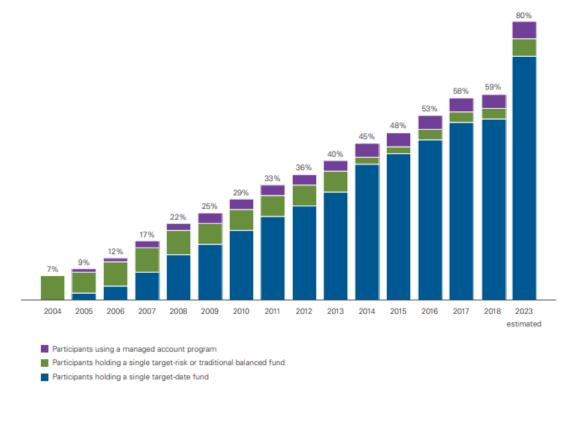
Practice



Source: Bloomberg, Proprietary survey of 452 investors subscribing to RealVision, Logica calculations

Tesla is not the only company offering autopilot...





Slightly more than 60% of all contributing participants in 2018 were in plans with automatic enrollment.



Two-thirds of automatic enrollment plans have implemented automatic annual deferral rate increases.

Source: Vanguard



"Those who can make you believe absurdities, can make you commit atrocities."

Voltaire

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