

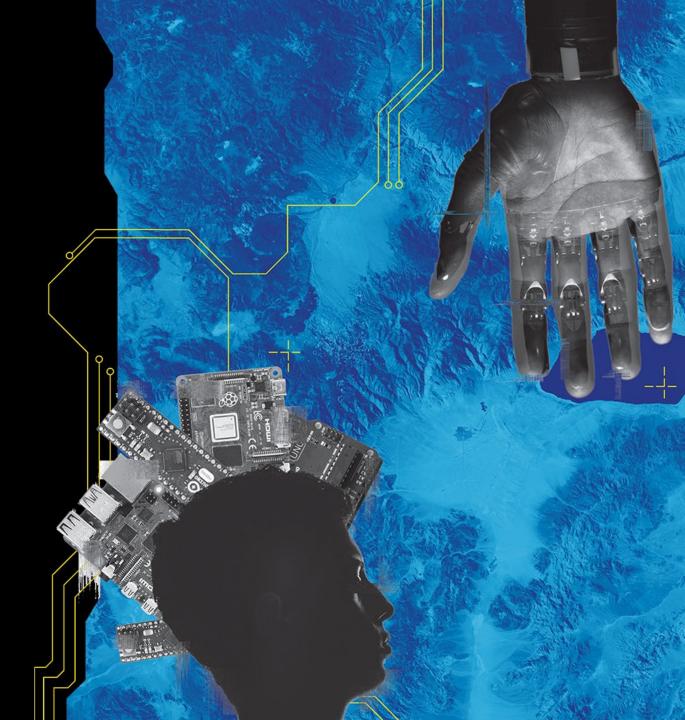
Techtonics

Technology, markets and regime change

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The Great Acceleration

Optimists versus pessimists

Regime change

Risk and reward

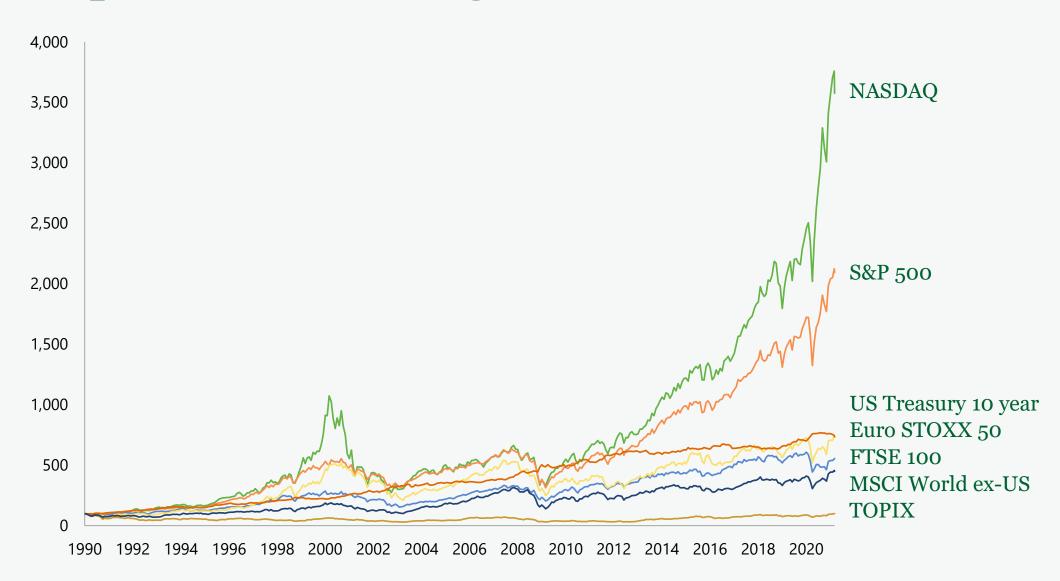
Technology is anything that wasn't around when you were born "J

Alan Kay
Computer Scientist

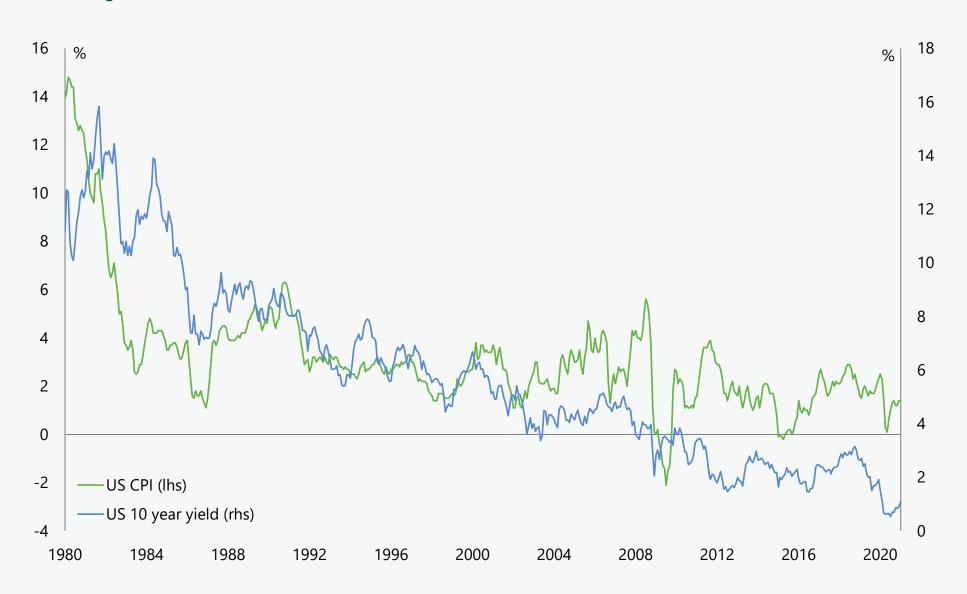
The Great Acceleration

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Capital's Golden Age...



40 years of disinflation... it's not a coincidence



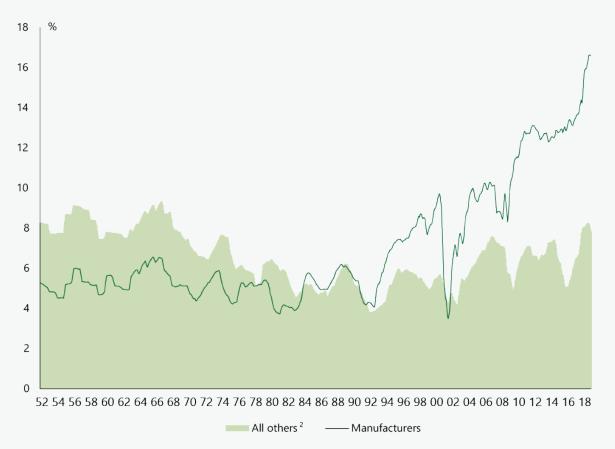
Tailwinds





Margins & the Golden Age: not just globalization

S&P 500: manufacturers and all others Net profit margins¹ 1952 – Q2 2019E



S&P 500: manufacturers
Margin expansion dynamic 2018 versus 2000

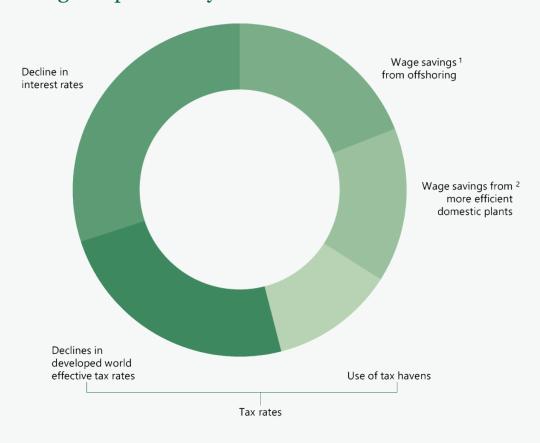
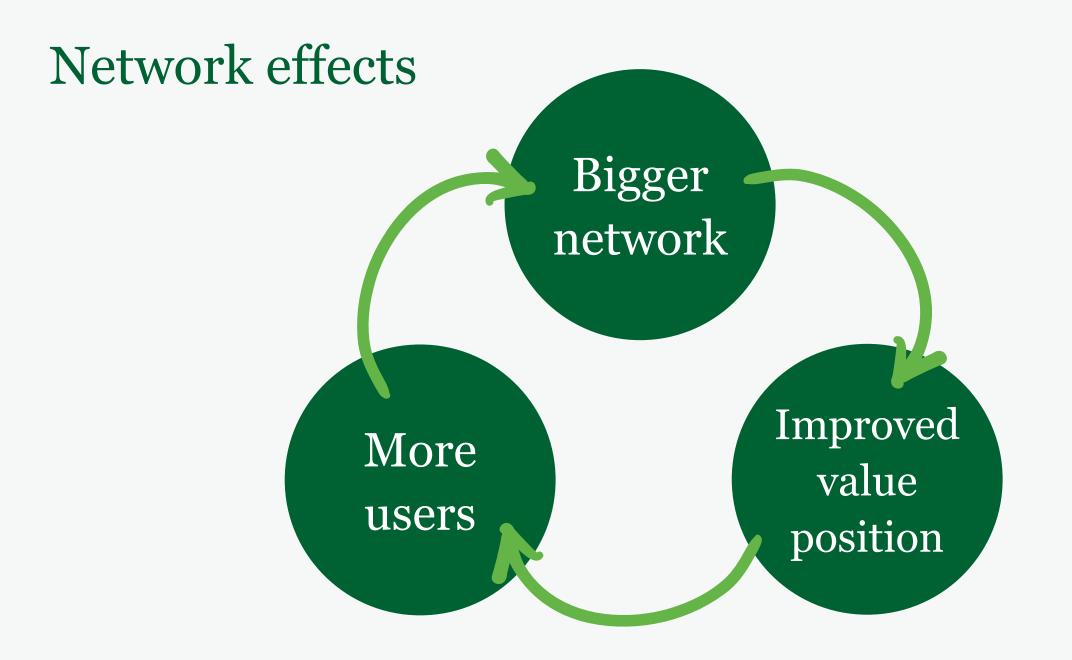
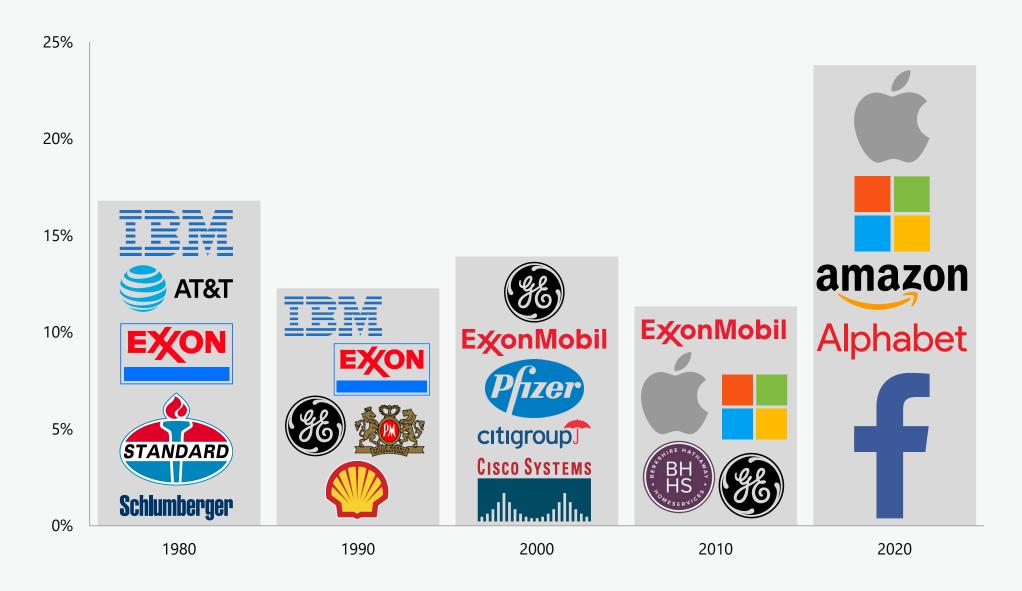


Chart 1: Corporate Reports, Empirical Research Partners Analysis 1 Based on trailing four-quarter data smoothed on a trailing three-month basis. 2 Excludes financials and REITs Chart 2: US Bureau of Labor Statistics, US Census Bureau, Corporate Reports, Empirical Research Partners Analysis 1 Assumes that the lost US jobs were replaced by one-for-one by jobs in China at lower rates of compensation 2 Assumes the decline in the labor intensity of these plants matches that for the entire US manufacturing system



S&P 500 concentration; top five firms %



Falling rates = greater appetite for profitless growth



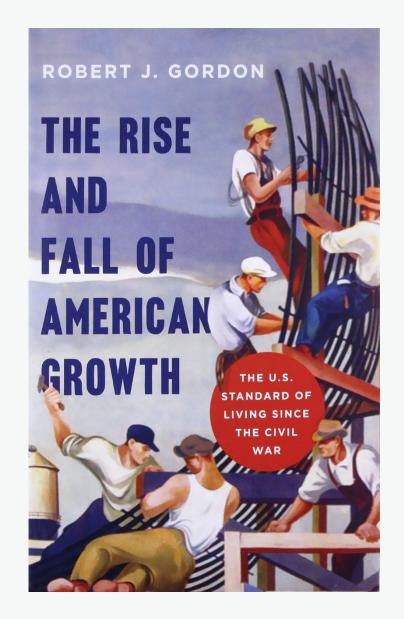
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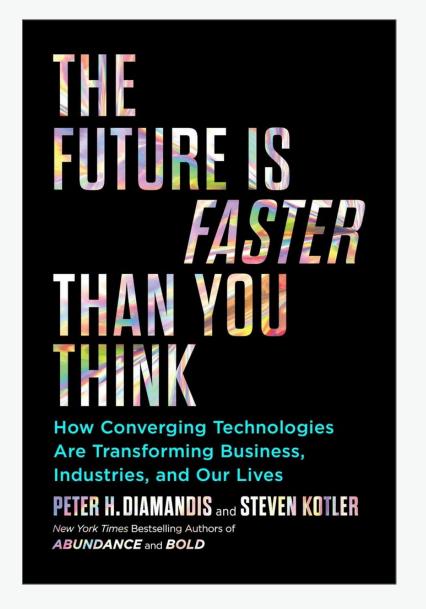
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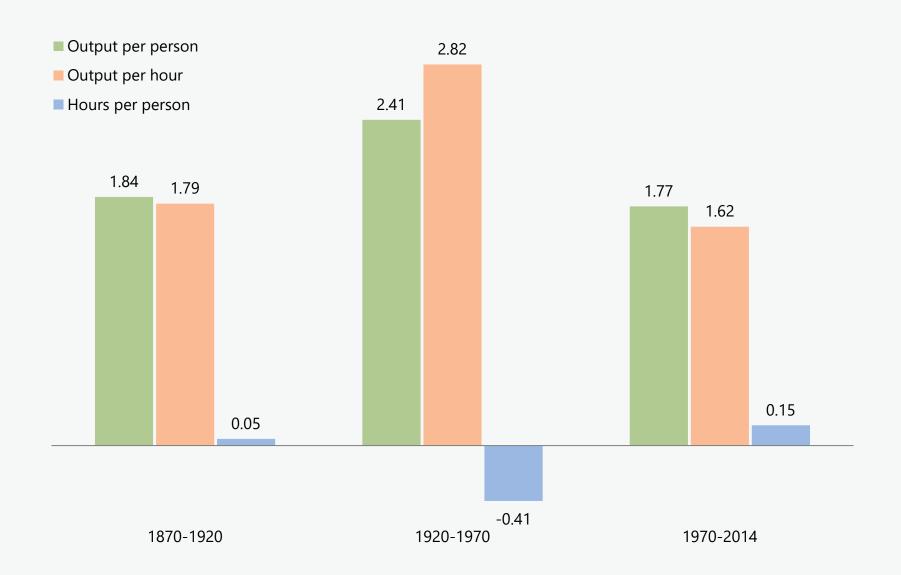
Risk and reward

Is the Golden Age ahead of us? Or behind us?



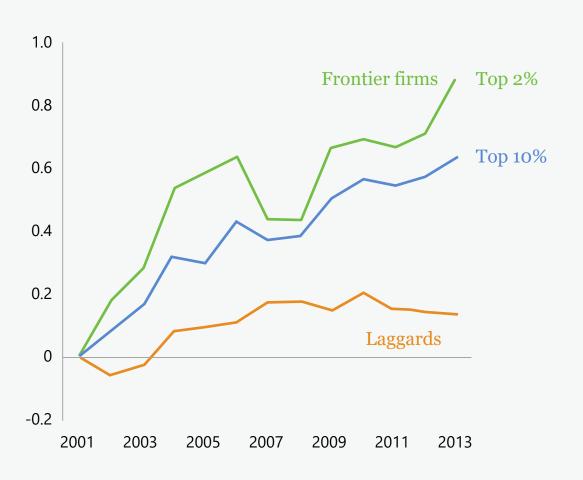


US annualised growth rate, 1870-2014

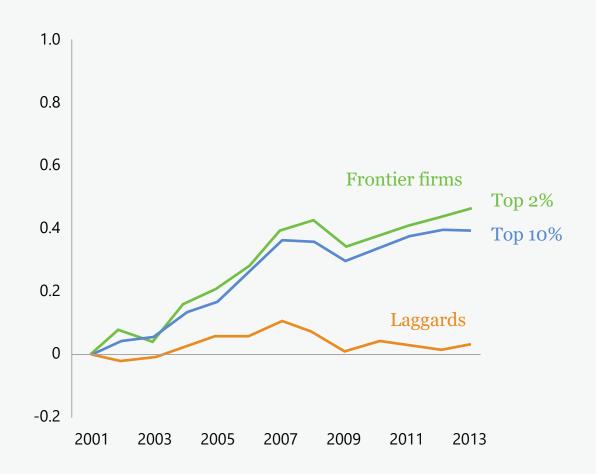


The growing gap between leading and laggard

ICT services



Non-ICT services

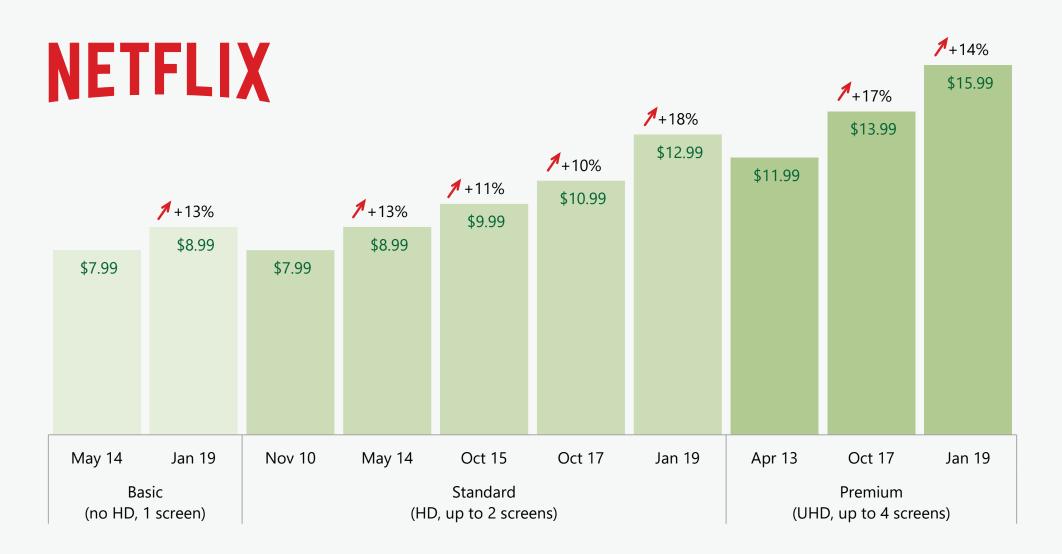


Market power is increasing (and underpins margins)

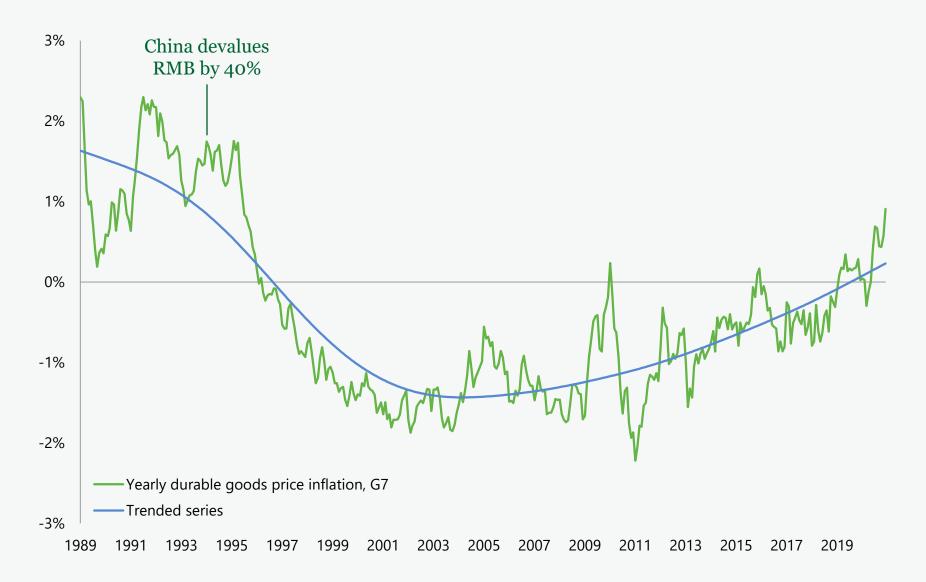


Evolution of average US markups (1960-2014), weighted by market share

Networks intend to use their pricing power...

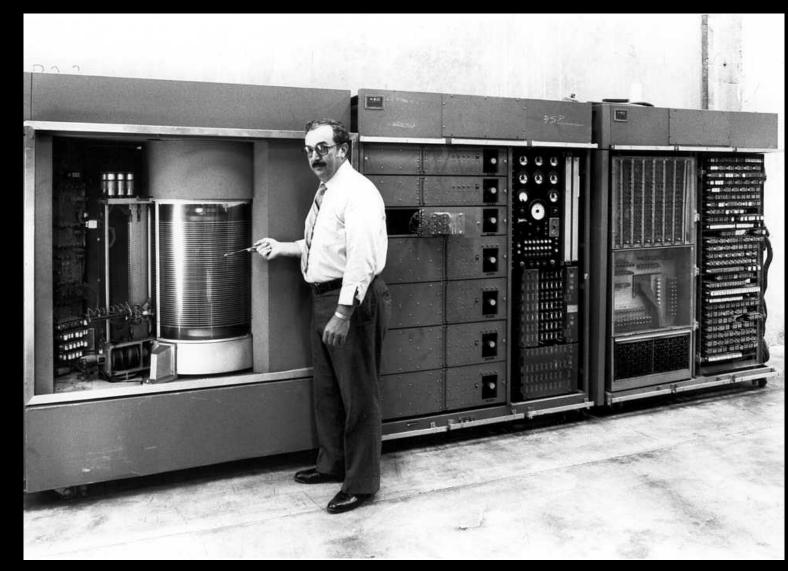


Disinflationary forces may already have peaked



Tech/the internet has killed inflation forever ","

Many people



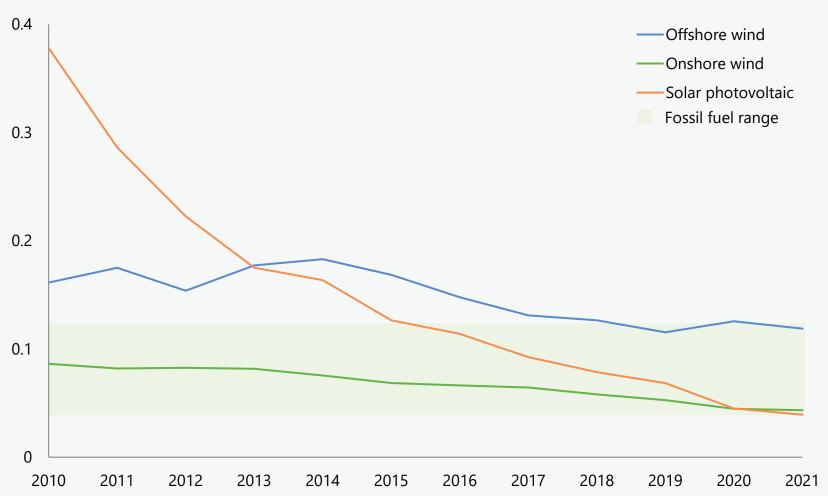


IBM 305 RAMAC, 1956 5 megabytes

SanDisk SDXC card, 2020 1 terabyte

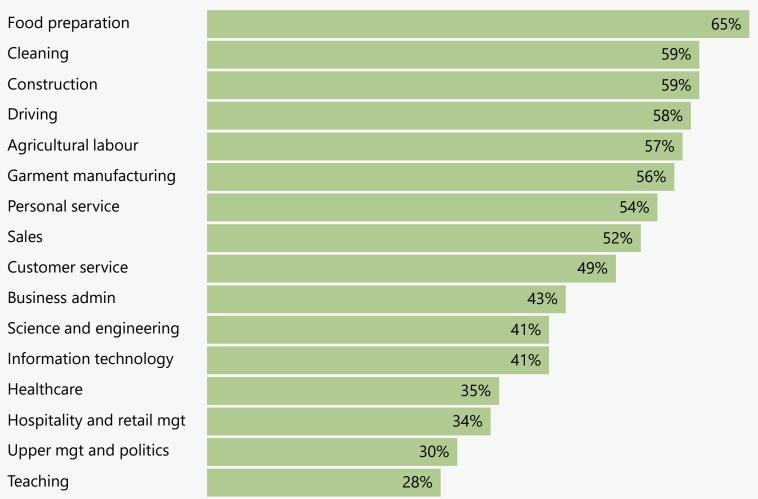
Markets are powering change

Energy cost (LCOE, 2019 US/kWh)



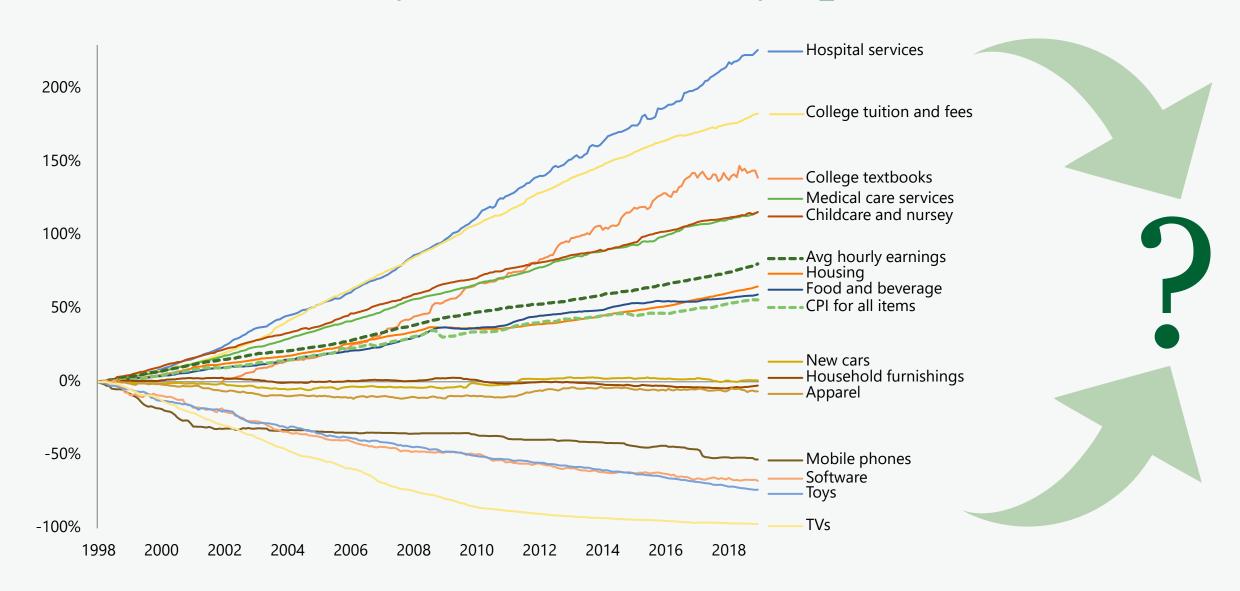
Are robots coming for your job?

Automation risk by job type, %





Inflation. Plenty, but not evenly spread...



The Great Acceleration

Optimists versus pessimists

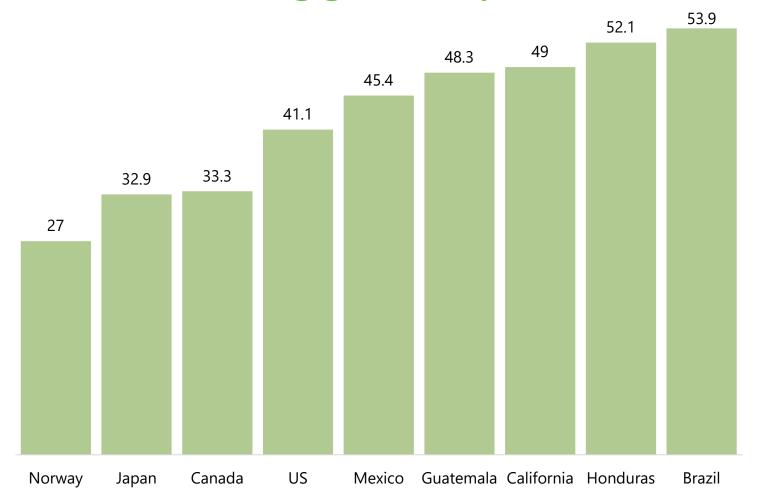
Regime change

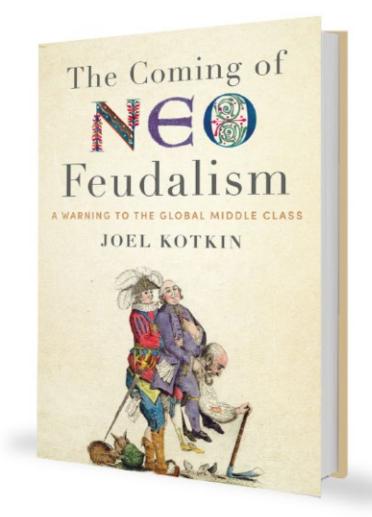
— Part I: Politics

Risk and reward

Back to the future?

Tech barons and gig economy serfs?





Toward universal basic income?

Andrew Yang's 'freedom dividend' has gone nowhere.

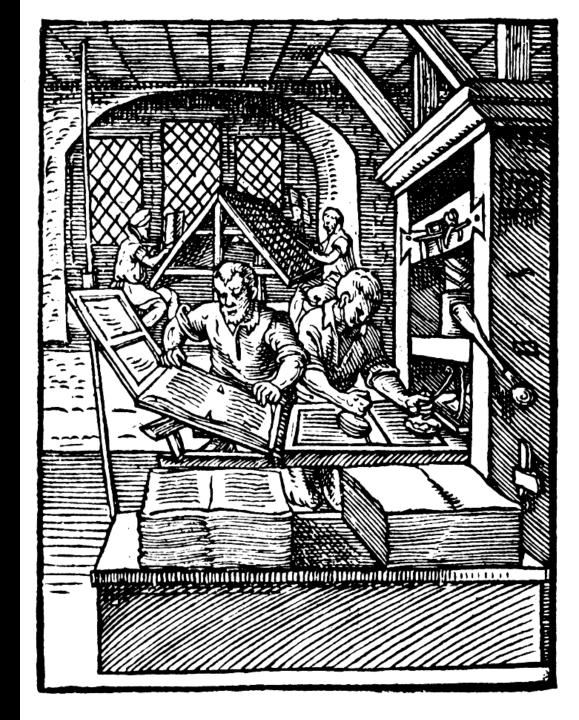
Yet.



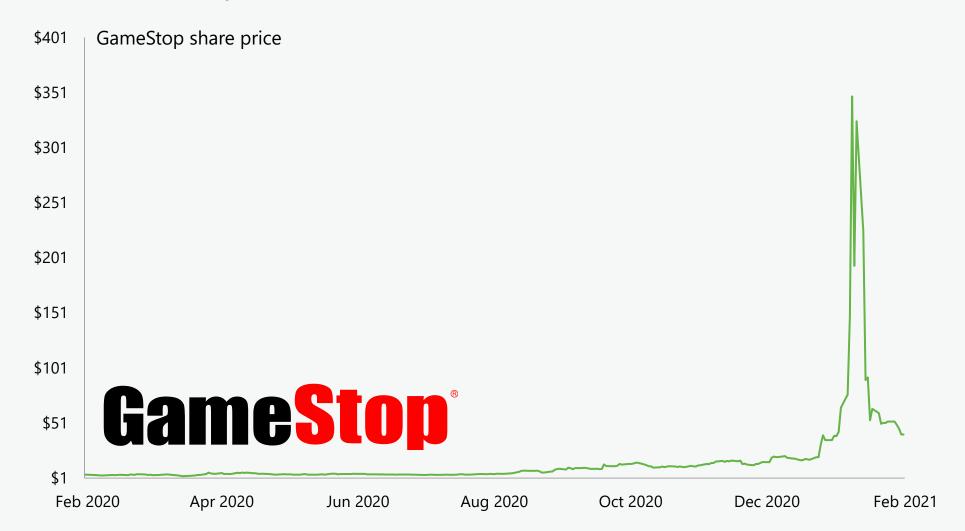
Hierarchies versus networks

Printing press and Reformation

Internet and ...?



First they came for the political system, then they came for the market



Big Tech's bad news feed

Twitter permanently suspends President Donald Trump

Facebook blocks Australian users from viewing or sharing news

Facebook 'behaving like North Korea' as Australia wakes up to news ban

Google faces two fresh antitrust lawsuits in the EU over its data gathering and advertising practices Big Tech faces additional pressure from private antitrust lawsuits.

UK competition watchdog warns Big Tech of coming antitrust probes

The strange case of Alibaba's Jack Ma and his three-month vanishing act

China joins global efforts to tame Big Tech

The Great Acceleration

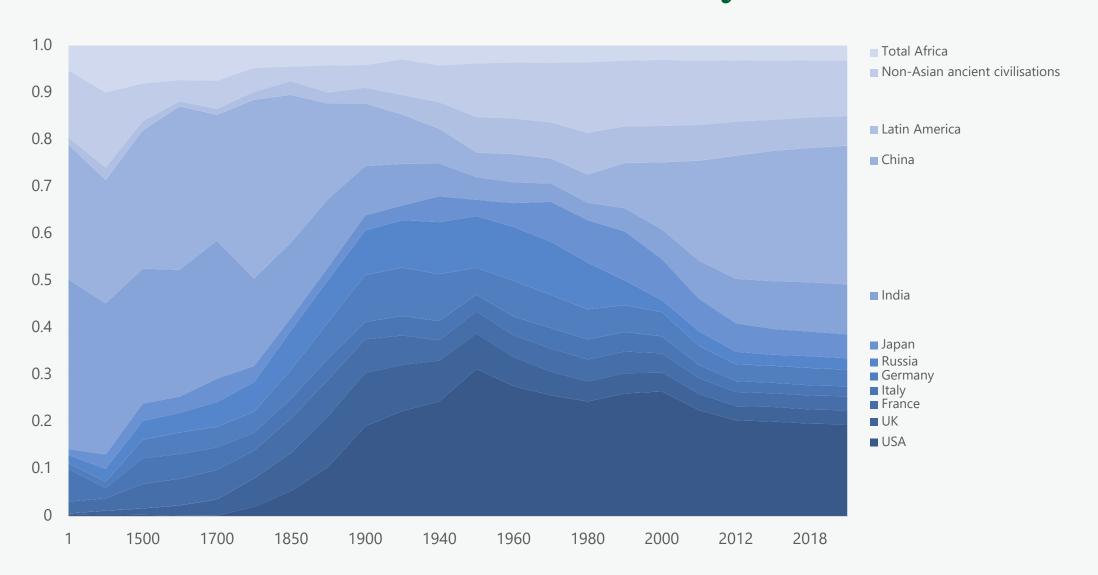
Optimists versus pessimists

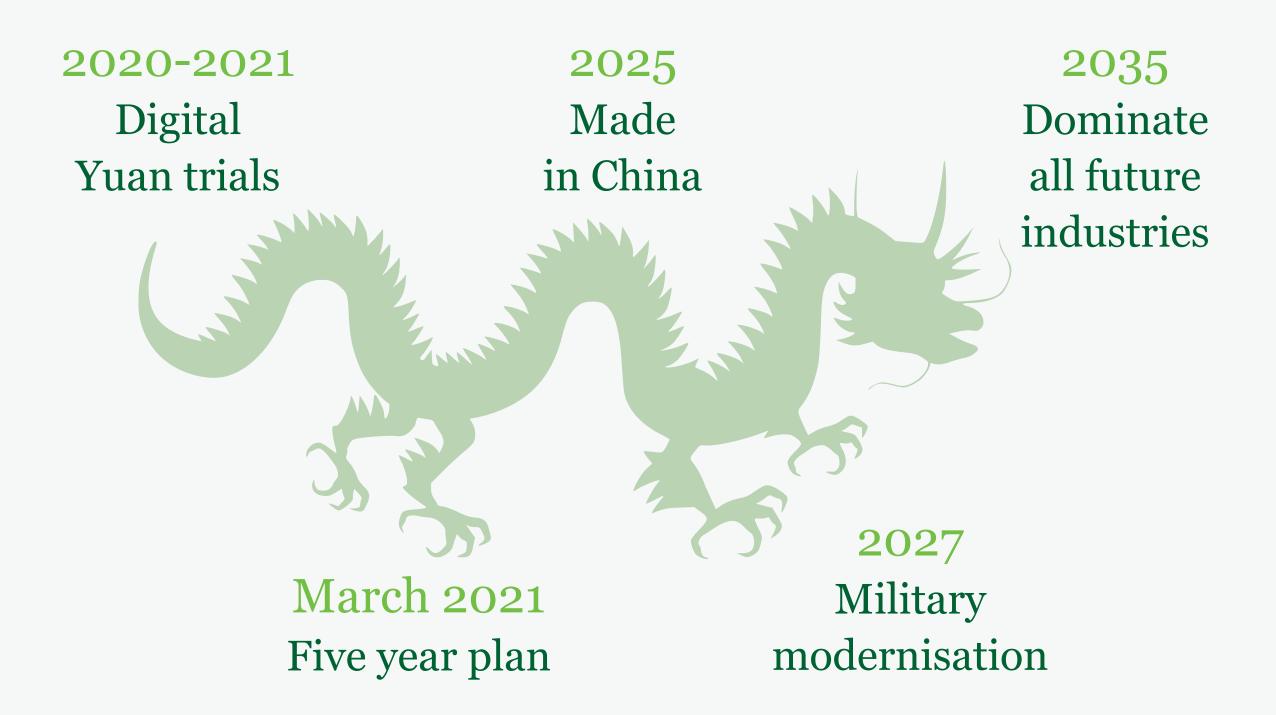
Regime change

Part II: World order

Risk and reward

Industrialisation made history

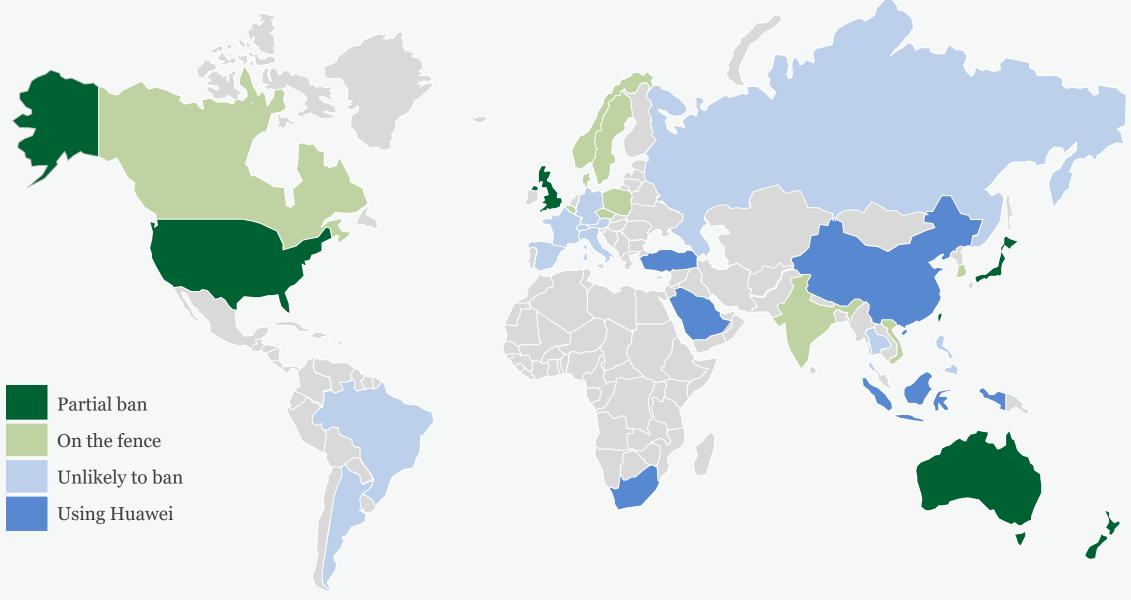




Tech war = market battlefield



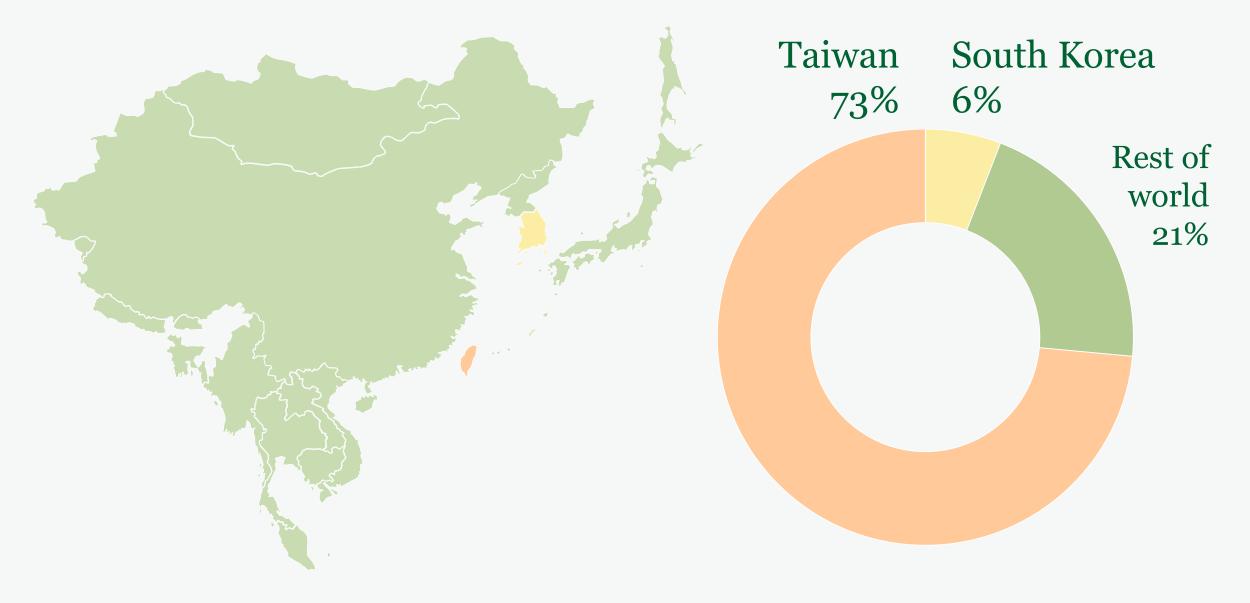
Huawei restrictions

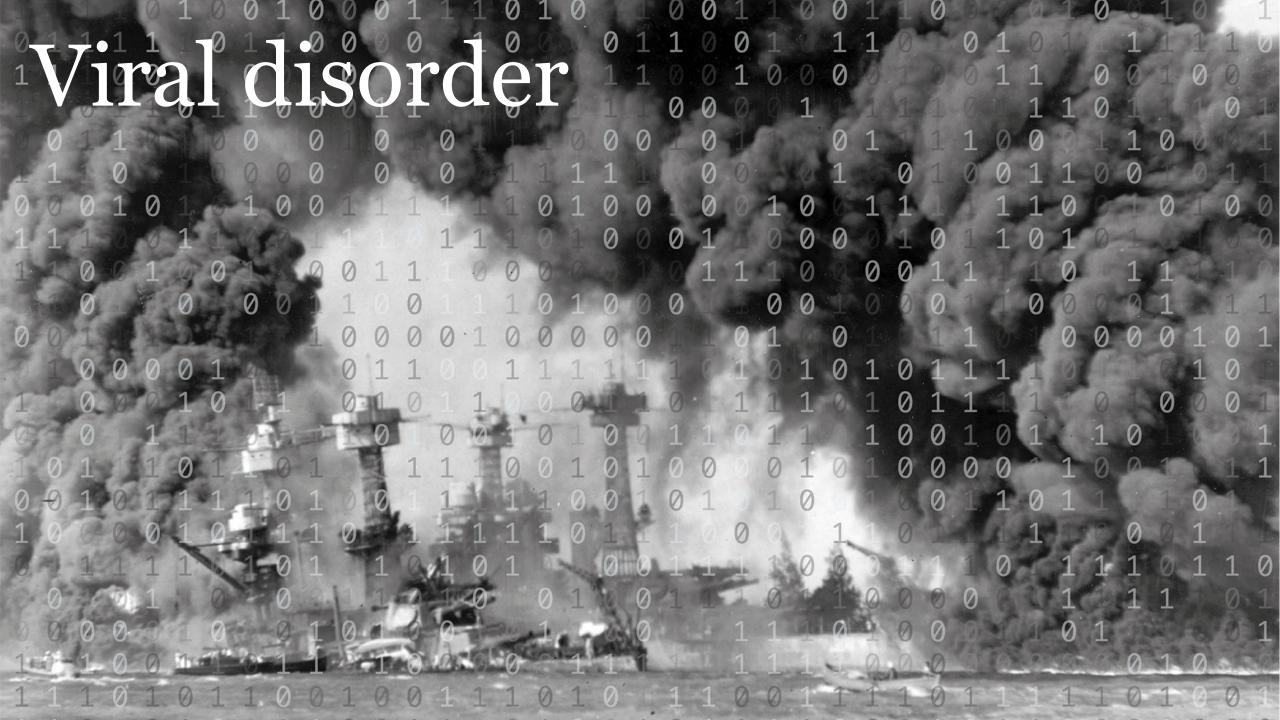


Chips all round: the 21st century's commodity



Global high-end semiconductor revenue





The Great Acceleration

Optimists versus pessimists

Regime change

— Part III: Fiscal returns

Risk and reward

Stimulus in historic perspective







BUILD BACK BETTER

BIDEN

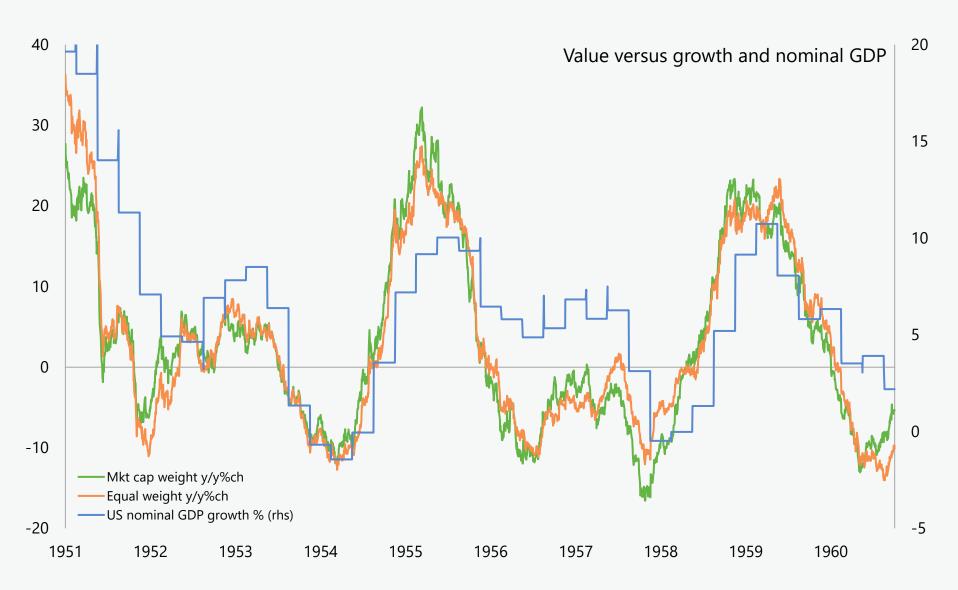
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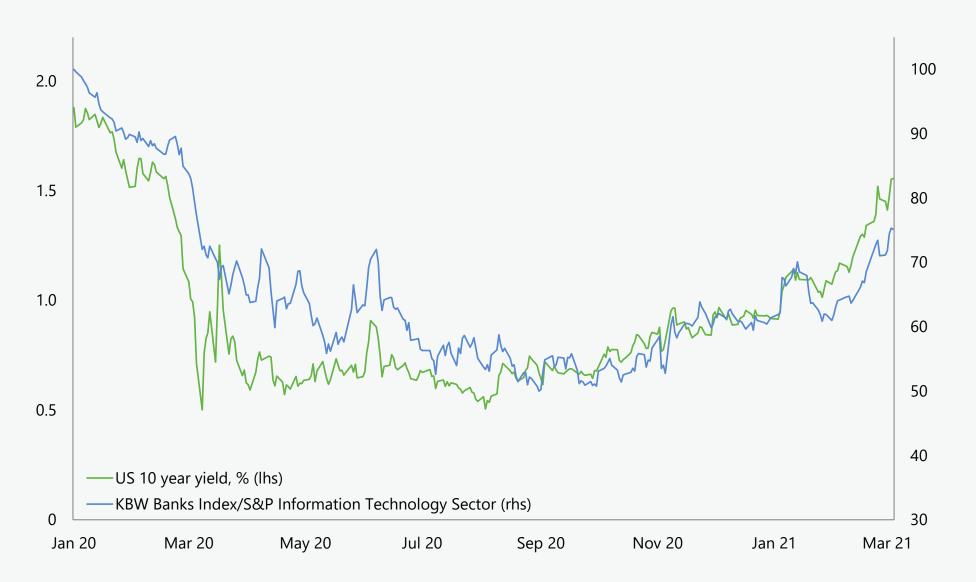
Regime change

Risk and reward

1950s US value versus growth



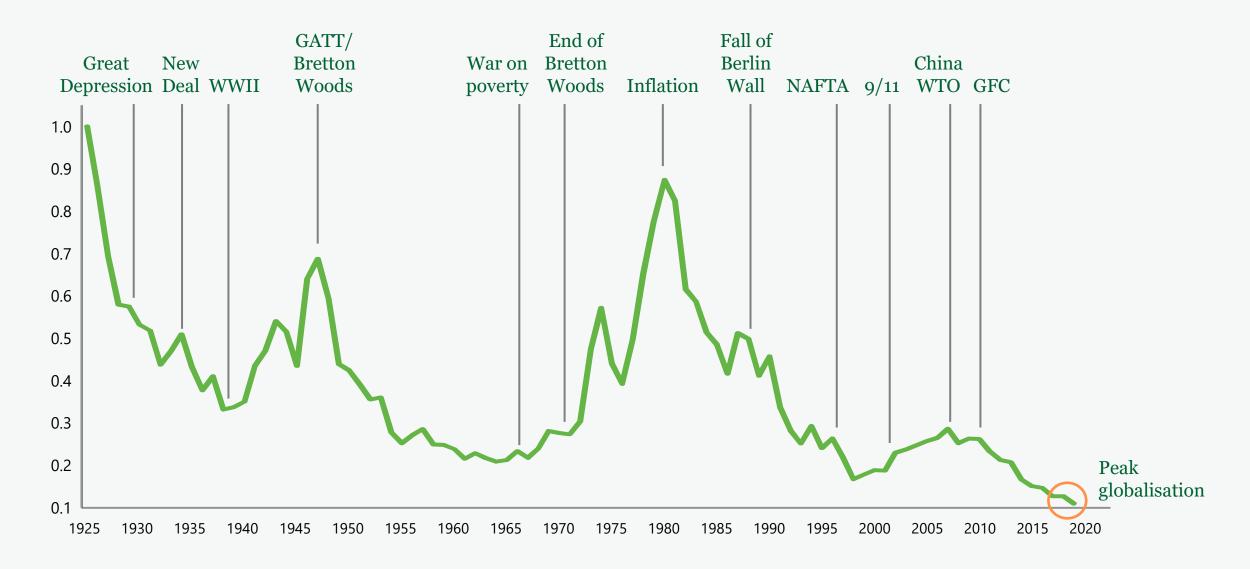
Rising rates are weighing on tech



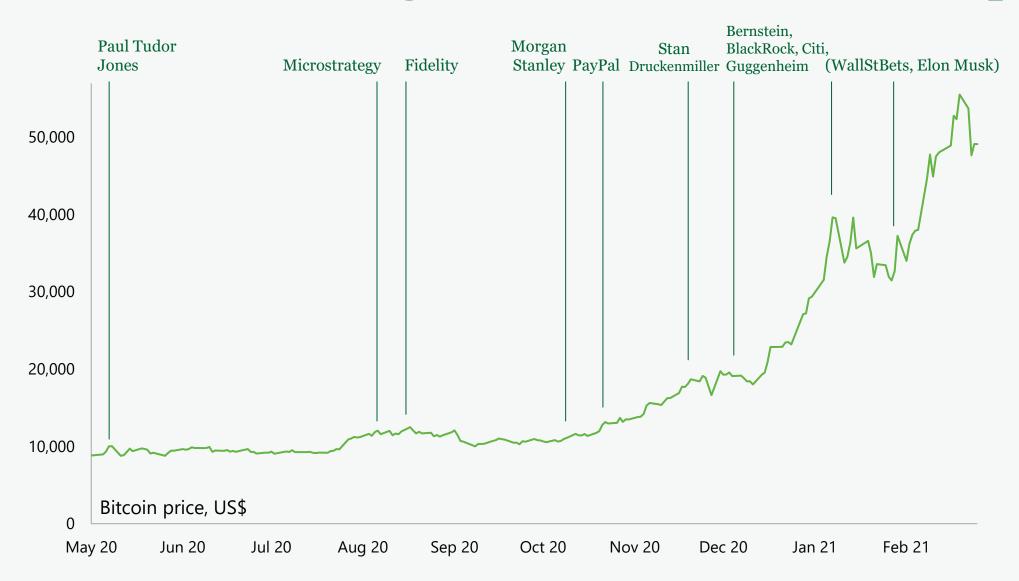
Value stocks: time to shine?



Real assets at all-time lows versus financial assets



Bitcoin – a rising tide of institutional adoption



Output

Technology unlikely to prevent inflation

New risks and opportunities

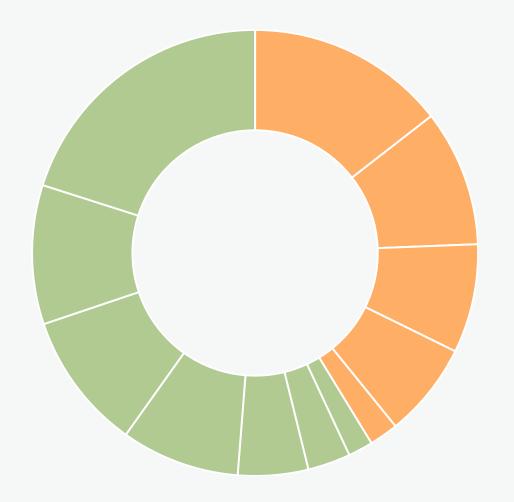
Biggest disruption is to market regime

Cold War II, tech-lash, Big State, fiscal

Politics over profits

Regime change
= market
leadership
change

Asset allocation



Financial repression	%	Recovery
US inflation-linked bonds	20	UK equities
UK index-linked gilts	12	North America equiti
Gold and gold equities	9	Japan equities
Deflation and crash protections		Europe equities
Credit strategies and options	10	Asia ex-Japan equitie
Short-dated bonds	3	
Cash	5	

