

















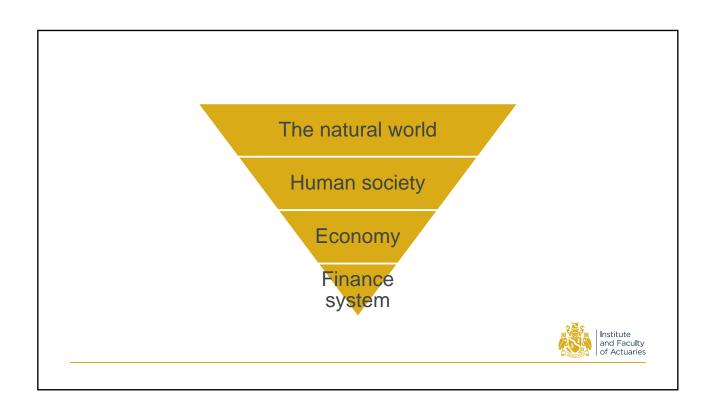
Finance is a social technology which allocates economic surplus back into the economy

finance directs where economies' capital is allocated

What is finance for?

- Payments system
- Smooth lifetime consumption
- Risk management
- Matches savings with useful investment





3 Levels of sustainability

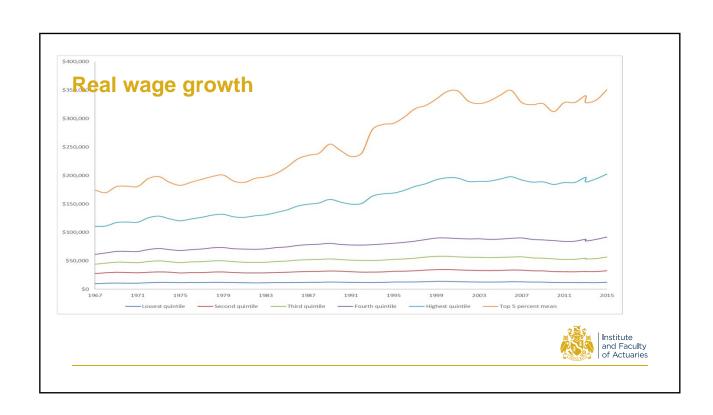
- Self-sustainability: Can the financial system keep going indefinitely?
- Economic sustainability: does the finance system contribute to sustainability of the economy?
- Ecological and societal sustainability: Does the system contribute to environmental or social sustainability?

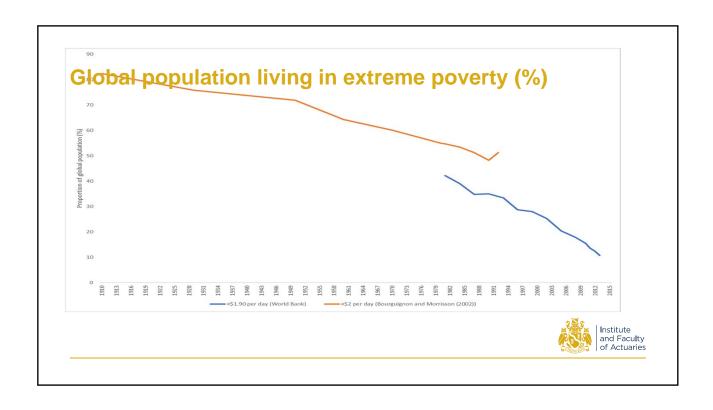


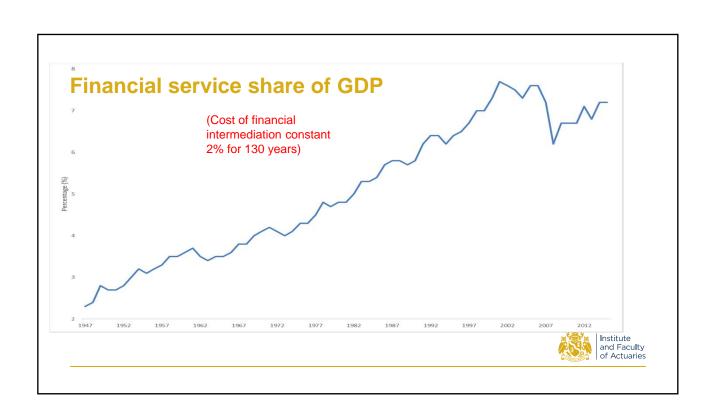
Some pathologies

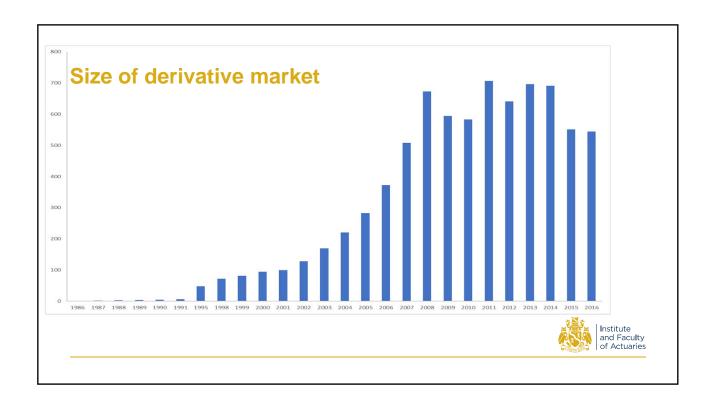


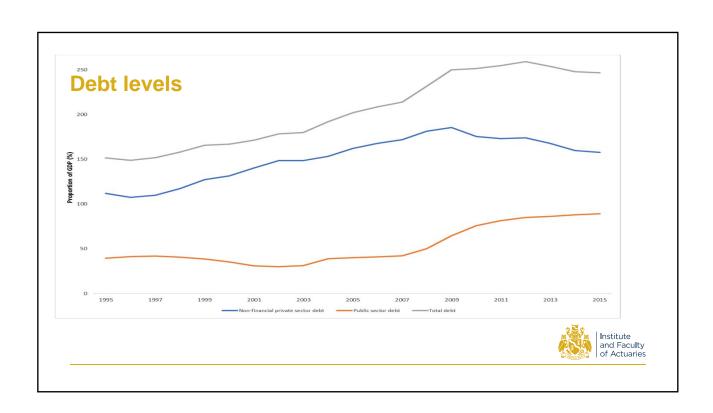










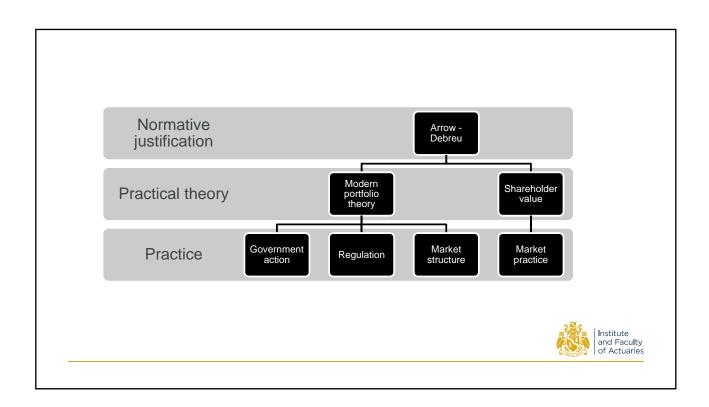


Free market - justification

Allocative efficiency

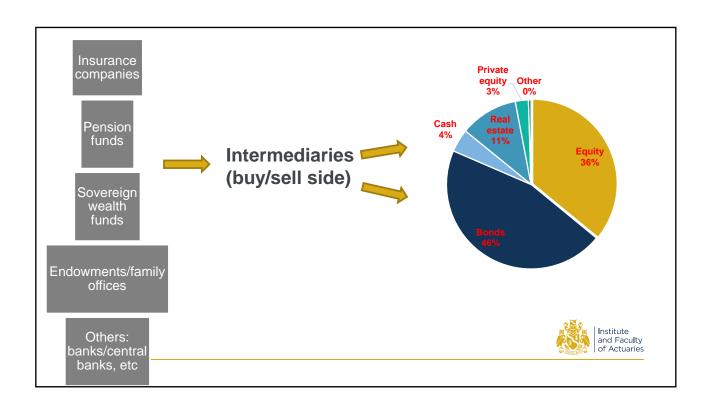
- Agents seeking best risk/return profile
- Most efficient users can pay highest return/lowest risk
- Resources allocated to most efficient use
- Economic efficiency optimised maximising growth potential





The savings channel: capital markets

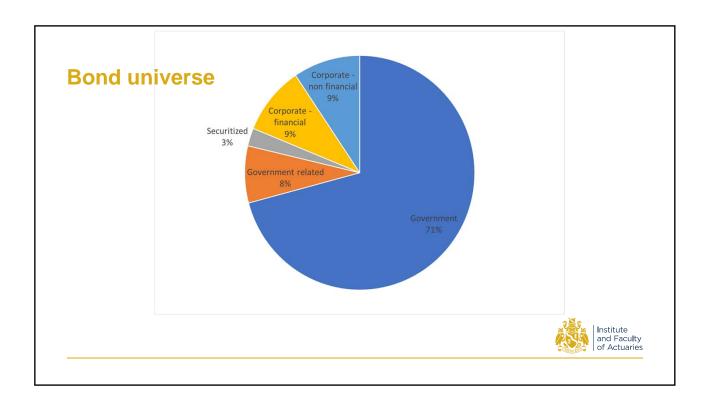




	Pension Fund	Country	Value (US\$ billions)	
1	Federal Old-age and Survivors Insurance Trust Fund	United States	\$2645	
2	Government Pension Investment Fund	Japan	\$1370	
3	Government Pension Fund of Norway	Norway	\$856	
4	Civil Service Retirement and Disability Fund	United States	\$850	
5	Military Retirement Fund	United States	\$474	
6	National Pension Service (NPS)	South Korea	\$422	
7	Stichting Pensioenfonds ABP (ABP)	Netherlan ds	\$388	
8	Thrift Savings Plan (TSP)	United States	\$407	
9	California Public Employees' Retirement System	United States	\$289.8	Institute
10	National Social Security Fund	China	\$247.4	and Facult of Actuarie

The pensions deal

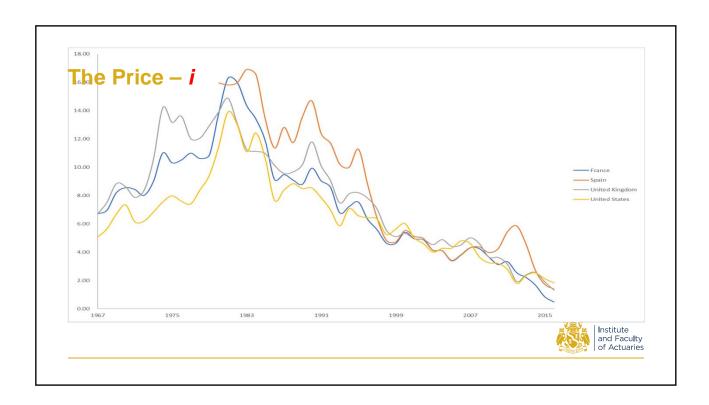
- Government agencies
- Tax
- Regulatory environment
- Marketing
- Mandatory/auto-enrolment
- Dreaming up new schemes (e.g. stakeholder Pensions, Institute and Faculty of Actuaries



Equity - examples

- Aerospace
- Food and drink
- Banks
- Utilities
- Healthcare





What determines i?

- Central banks
- Fallout from financial crisis
- "natural rate":
- Low growth
- Savings glut
- Low investment



The Potemkin Market

Government is buyer, seller and sets the price

- Enacting the will of the government (SWF)
- Perform services for government (pensions)
- Perform a function of government (money supply)
- Behave in a way specified by government (solvency 2, Basel 3, 100,000 pages of pension regulation)



The pensions deal



The pensions deal

"Liabilities"

Promote market so that people can save

Reduce fiscal burden

Risk (longevity) management

"Assets"

Capital pool for investment in economy

Capital allocated efficiently

Ensure economy's assets are well managed

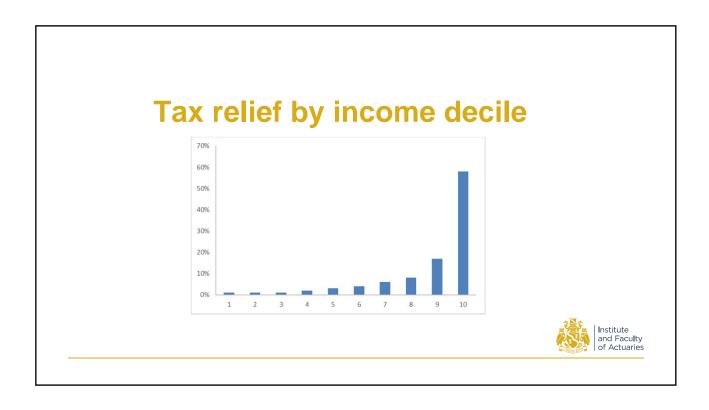


Contributions required to achieve 2/3rds pension

Year	Contributio n rate	Contribution £20,000 salary	£40,000 salary
1991	7%	£1,300	£2,700
2016	39%	£7,800	£15,600

Why? i





Where do all the savings go? | Institute and Faculty of Actuaries | Institute | Institute

Some shocking numbers

RSA: Fees of 1.5% translate to 37.5% of fund.

Contributions of £1,000 will buy a pension of:

£16,000 (no fees)

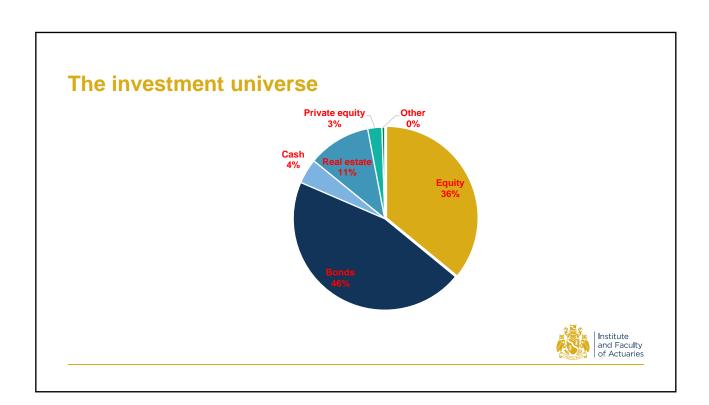
£10,000 (with fees)

But

Fees are 3% (transactions, stock lending, performance, sub-managers)

Over half of savings (60%) of savings are eaten up by charges





Equity

Provide capital for business?

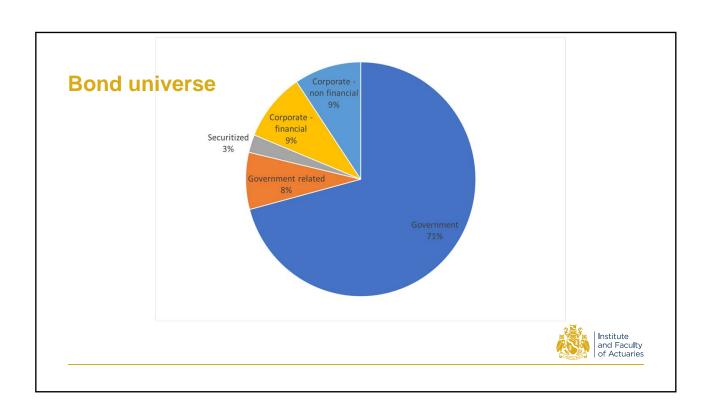
Reward entrepreneurs?

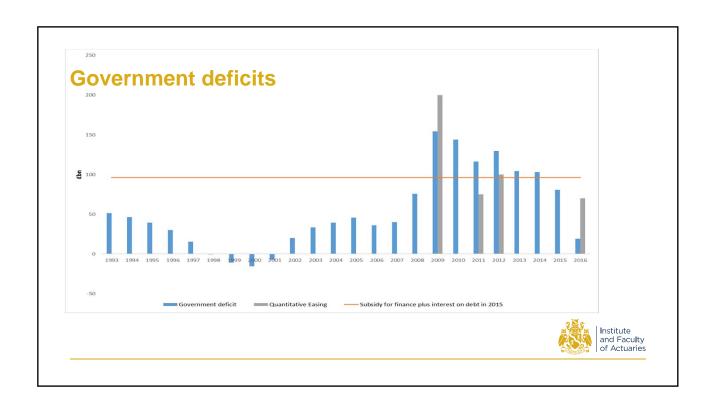
Market cap LSE: £4,000 billion

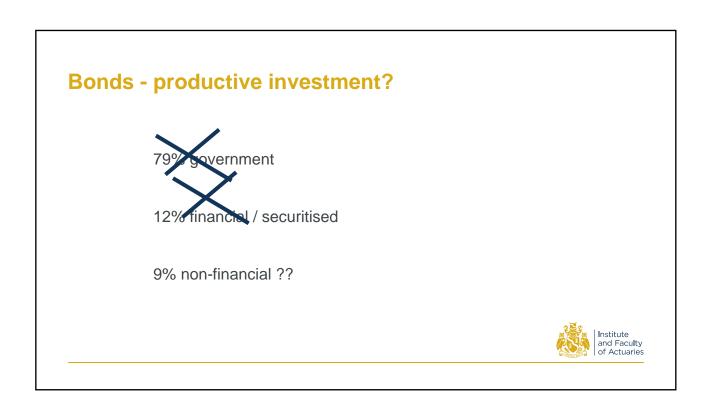
New issuance: £ 24 billion

0.5% of market









Proportion of pension fund investment that is invested into economy

	Proportion invested	
New issuance in the equity market:	0.25%	
0.5% of 52% (invested in equity):		
Non-financial corporate bonds: 9% of	2.6%	
29% (invested in bonds):		
Infrastructure investment:	1%	
TOTAL	3.85%	



Stewardship

"promoting good governance and stewardship is therefore a central ... function of UK equity markets."

"The asset management industry can benefit... Savers... only to the extent that its activities improve the performance of investee companies"

Kay review



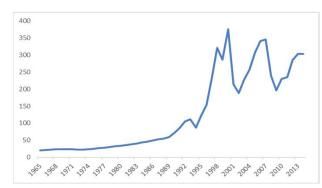
Fund manager incentives

- Revenue: % of fund under management
- Measurement: Quarterly performance

"engagement with investor companies requires investment of time and resource ...encumbrance... where mandates are being awarded based on fees"



CEO to worker pay ratio

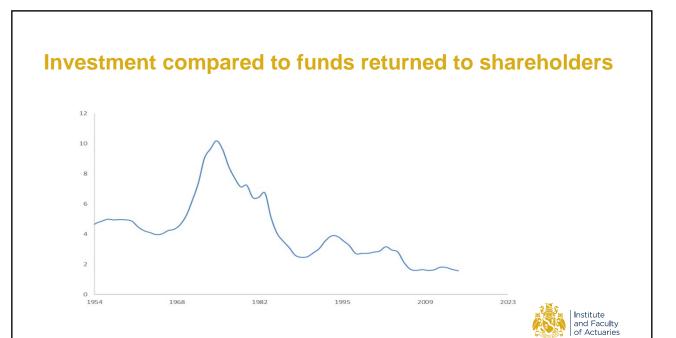


Managers compensated in relation to share price

In fund manager's interest

Low correlation with company performance





How to boost corporate profits, short-term

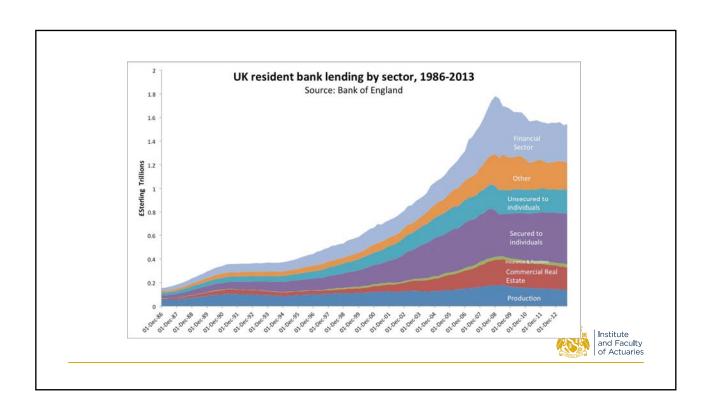
- · Reduce long-term investment
- Reduce wage bill
- Lobbying (eg Big Pharma \$4bn in US)
- Pass externalities to society
- Advertising
- Financialization/Leverage
- Return funds to shareholders
- Tax evasion



Summary – a good pensions deal?

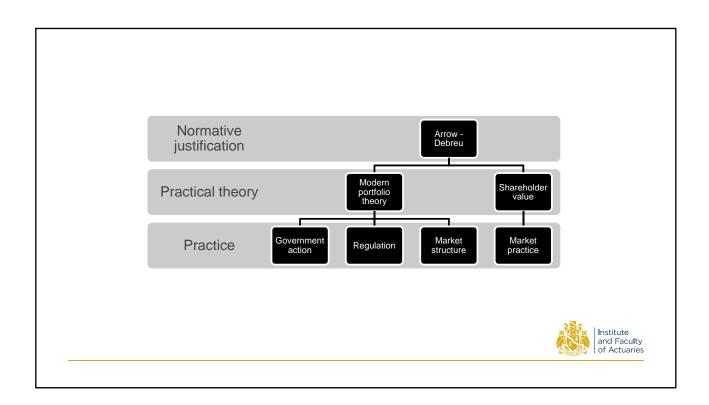
- Government fiscal burden not reduced
- System itself makes pensions unaffordable
- Savings are not usefully invested
- Underlying companies managed for short-term
- Over half of return goes to financial intermediaries





Value and Values



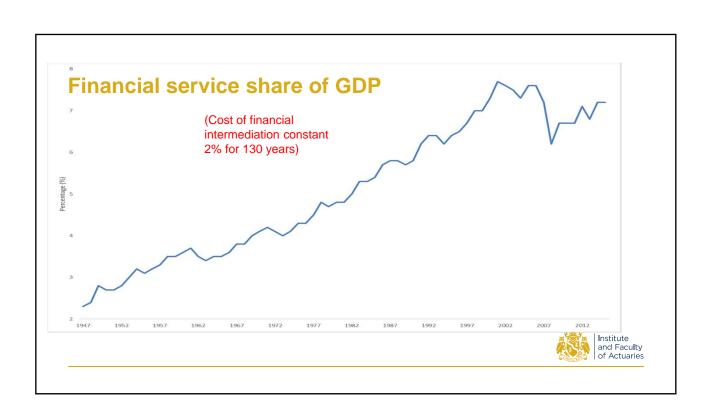


Critique

- Potemkin markets not free markets
- Doesn't work in practice (see talk!)
- Doesn't work in theory, either (see book!)
- Values should be decided by democratic debate



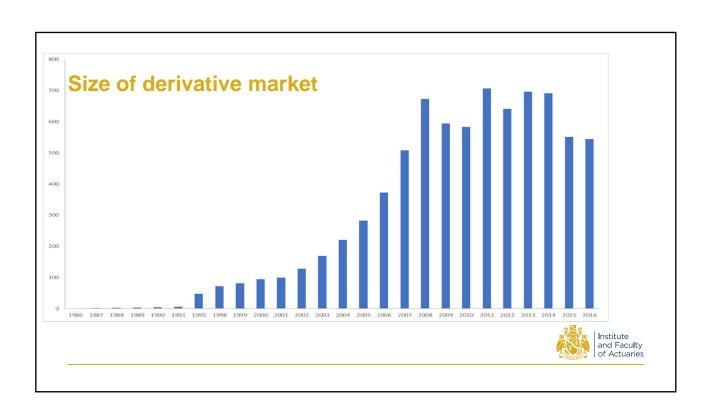
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Tools of finance

- Leverage
- Abstraction/financial innovation
- Colonisation
- Hegemony





Finance and the real economy

- Business and governments rely on finance
- If you have access to cheap finance: company/sector of the economy will grow as it can mobilise capital, and attract high quality workers.
- Institutions that arbitrate financial flows, direct future structure of economy

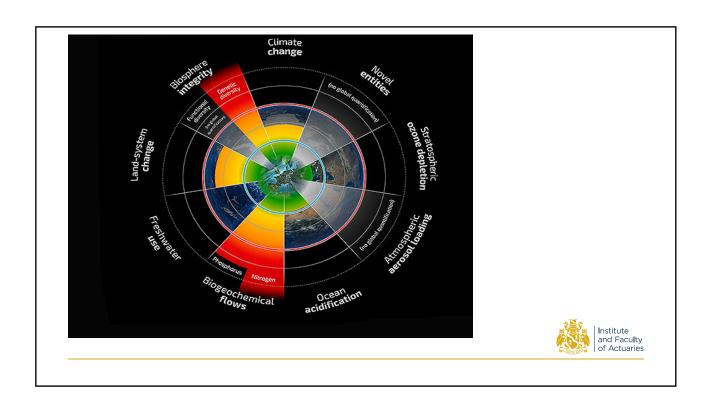


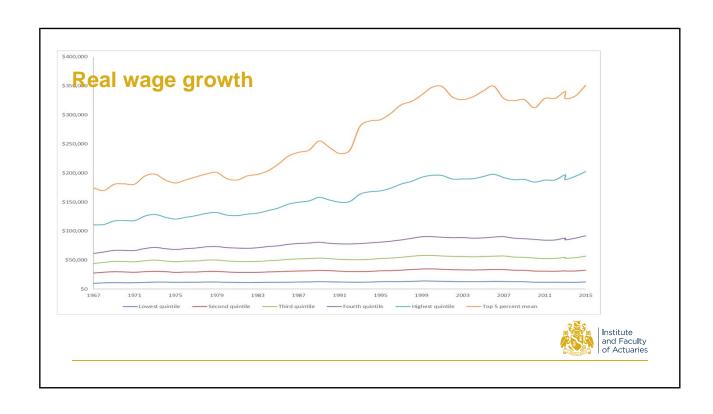
Return on capital

ROC = return / capital

- >1/2 return goes to financial services
- System has driven down returns
- Too much capital
- Lots of problems that need capital
- Indifference towards crucial issues







Flourishing finance

Finance used to promote human flourishing:

- Health
- Dignity
- Healthy environment
- Autonomy
- Security
- Fairness



Some suggestions for pensions



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(1) Swedish System

- Notional DC
- Independent pensions agency
- Break mechanism
- Buffer funds

Unlikely? - NEST: 3-8%



(2) Social Benefit

Pensions are subsidised by tax payer, so tax payer should get something back:

- Sustainable infrastructure funds
- Integrated reporting/triple-bottom line accounting
- VC/crowd-funding

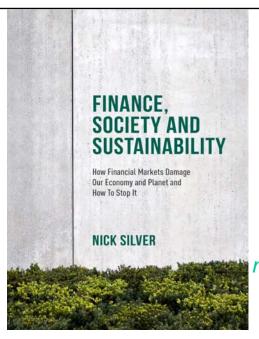


(3) Who needs a pension, anyway?

People are living longer and healthier, machines are replacing jobs, companies don't need capital:

- UBI
- Critical health insurance
- Health/savings/education personal accounts





Nick Silver

Tel: 07711566425 (direct) nsilver@callund.com





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