

## Private issuance: recent trends in the mature markets

Mark Capleton, Head of Inflation-Linked Research, RBS

## The theoretical case for corporate inflation issuance/paying...

...closely maps the argument for government issuance. If investment is all about risk and return, then borrowing is all about risk and cost:

- Risk reduction
  - A company's assets and revenues are real, so its liabilities should be too
  - A cyclical hedge - 'P&L smoothing'
  - Liability diversification
  
- Cost saving
  - Exploit high inflation expectations, if not shared by issuer
  - Save a risk premium (if it can be isolated)
  - Maximising reach – Offering different products to meet the different needs (or market views) of different investors, thereby reducing total expected financing costs

If inflation-linked issuance truly is a lower risk liability than nominal issuance, then a corporate should be able to tolerate higher leverage for a given credit rating using this financing route

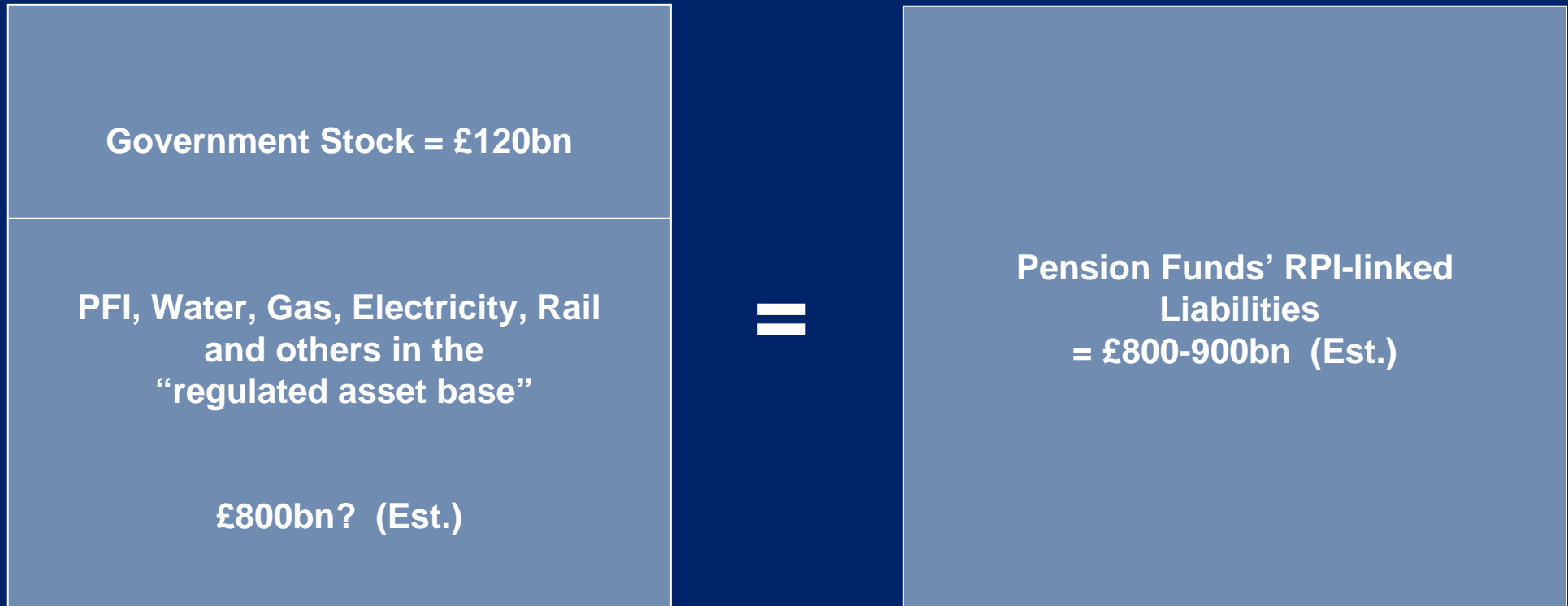
---

## The current reality

---

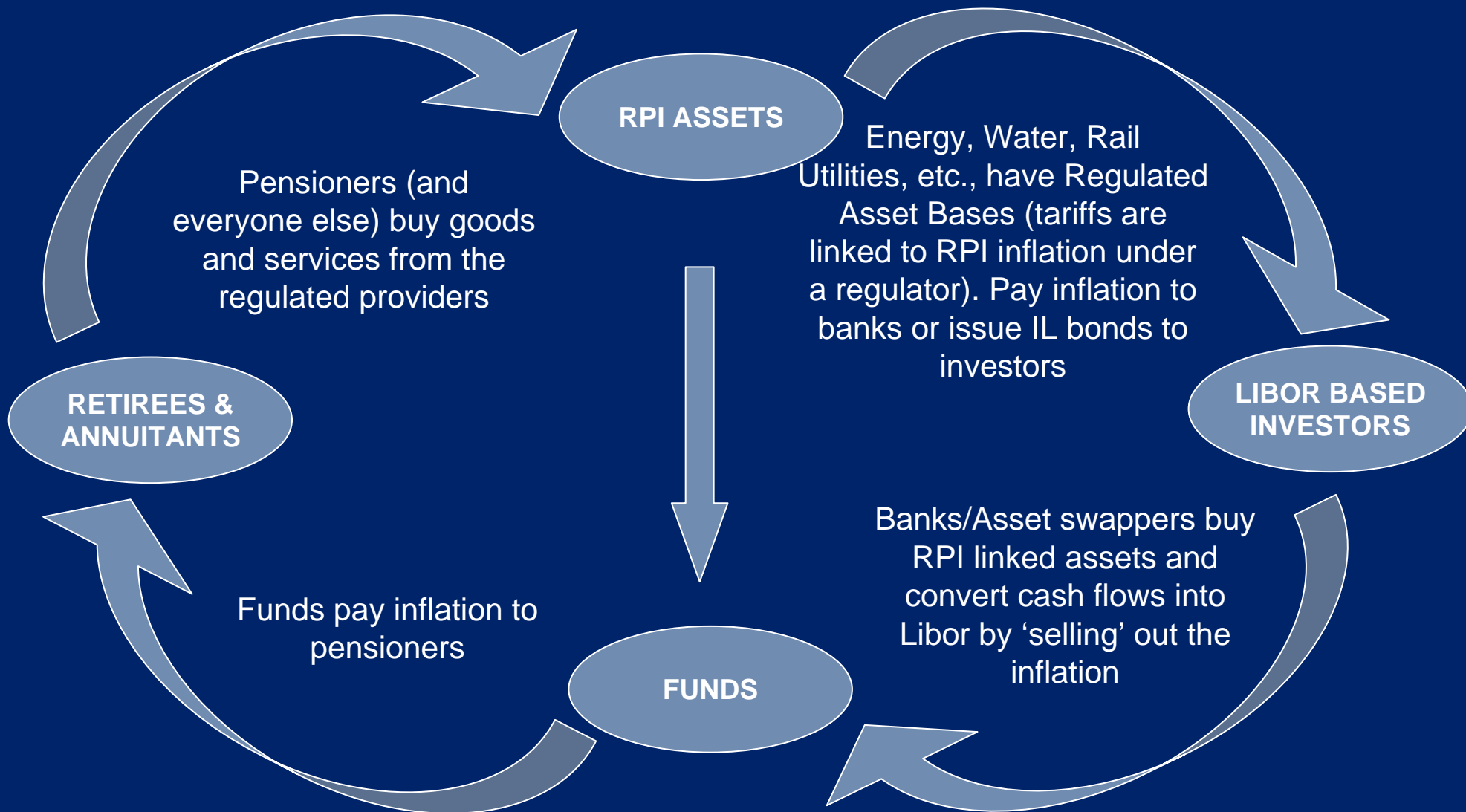
- Corporate inflation-linked issuance/paying confined to...
- ... quasi-governmental issuers, ...
- ... a regulated asset base of utilities and project-related borrowers, ...
- ... and a retailer or two...
- ... with explicit or semi-explicit future inflation linked revenue streams
  
- And the “visible” market – i.e. the non-government inflation-linked bond market – is small
- Market capitalisation of euro area non-government market c. EUR11bn; sterling market c. £12bn (tiny amounts, relative to outstanding government issuance)

# UK Example: RPI-linked assets and liabilities – potential balance?

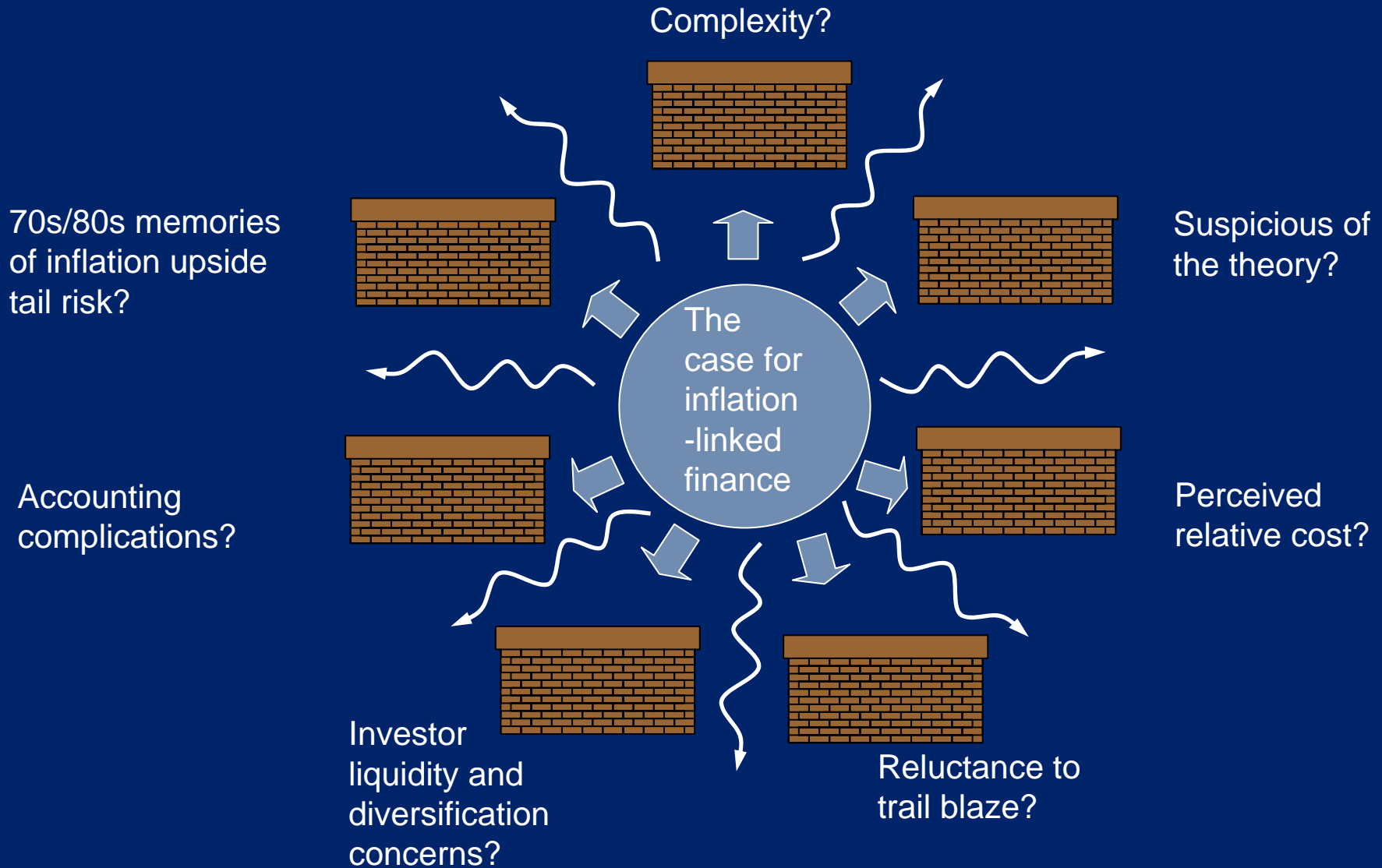


So what's the problem???

# The UK 'circle of assets and liabilities'



# The blockages to greater private inflation-linked supply



# Corporate inflation paying – not just for explicit inflation receivers

So you question the theory that inflation-linked liabilities confer “P&L smoothing”?

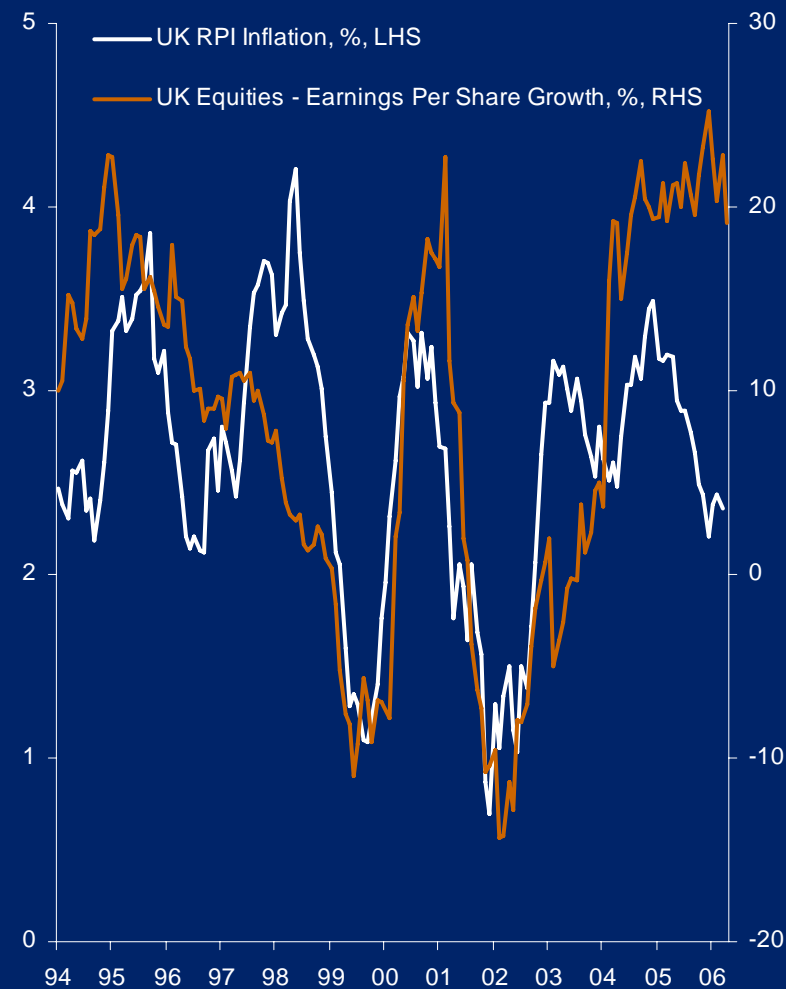
Here’s the evidence – earnings per share growth is well-correlated with inflation

## US – equity EPS growth & inflation



Source: RBS, Datastream

## UK – equity EPS growth & inflation



Source: RBS, Datastream

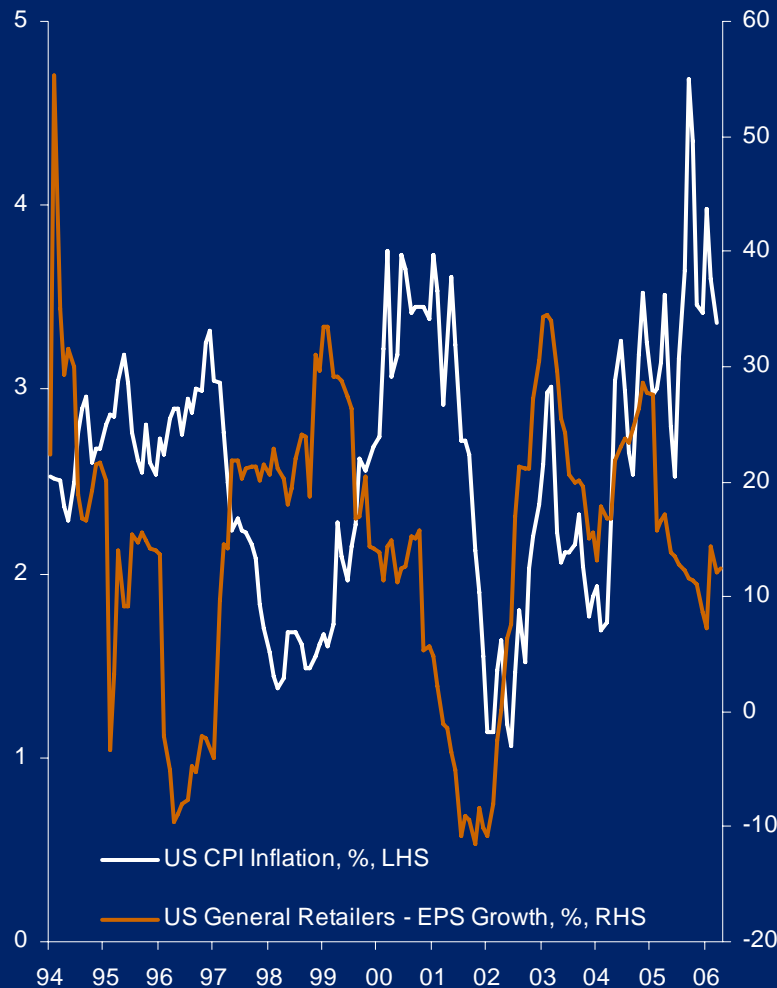
# Profits in some sectors/economies more inflation-sensitive than others

However, care is needed – “P&L smoothing” is stronger for some sectors than others...

...and there are no global generalities – UK retailers have strong positive EPS/inflation correlation,...

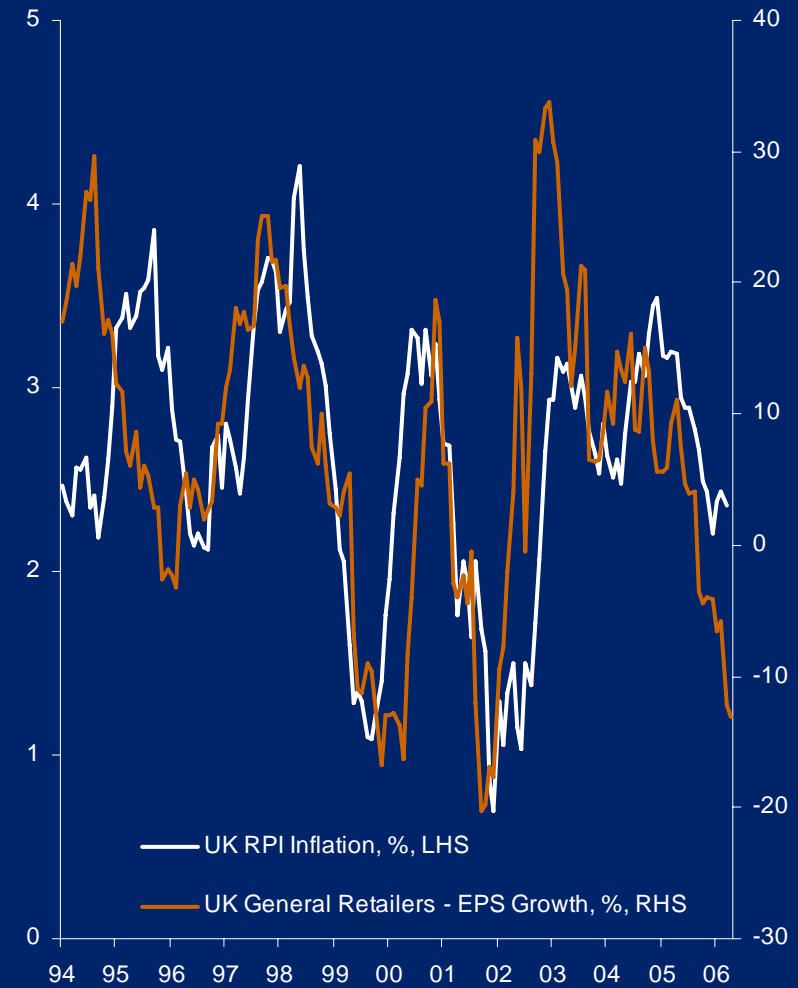
...while for US retailers, the correlation seems to be negative

## US gen'r'l retailer EPS growth & inflation



Source: RBS, Datastream

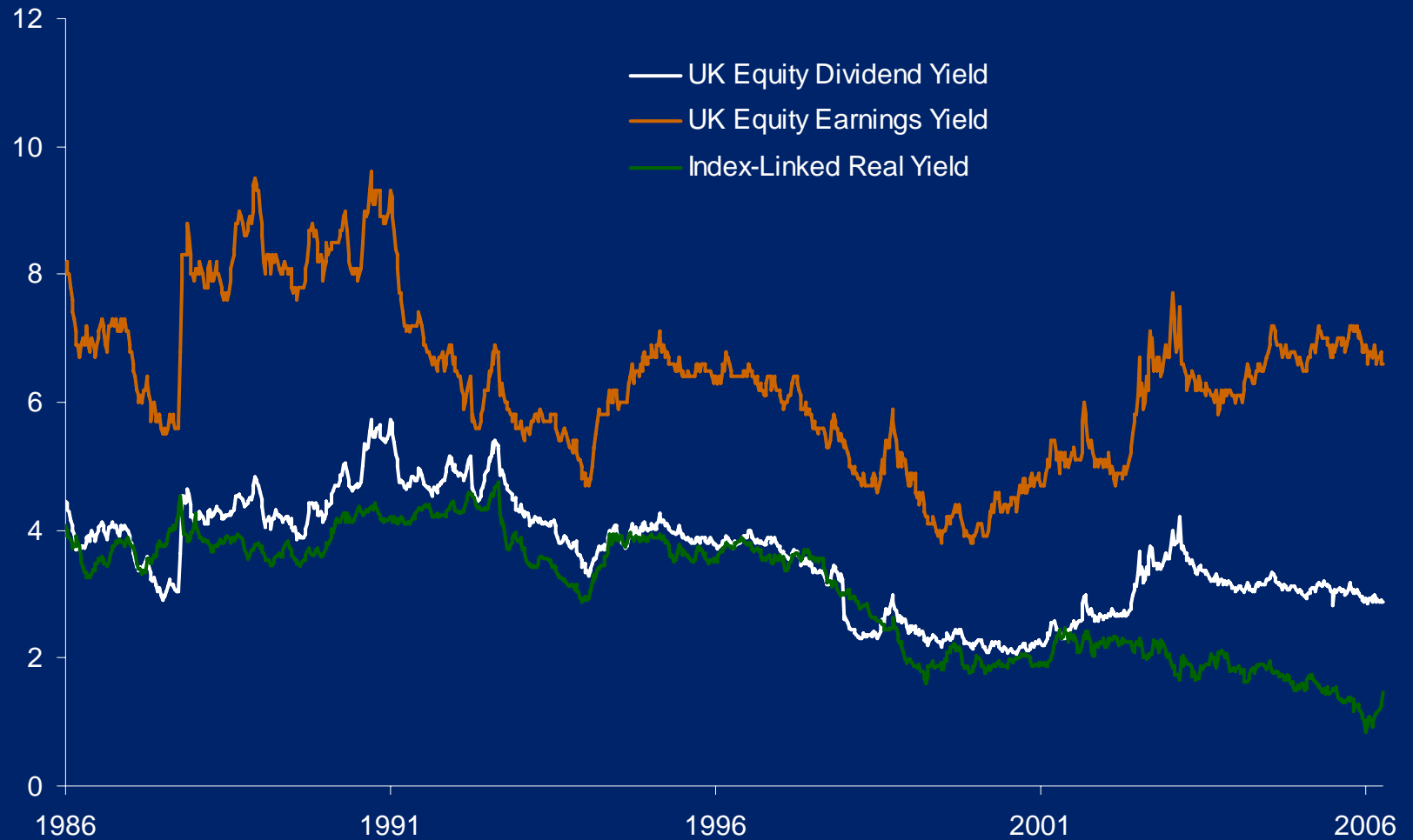
## UK gen'r'l retailer EPS growth & inflation



Source: RBS, Datastream

# Cost of inflation linked finance cheap versus equity capital

## UK linker real yields plus equity earnings and dividend yields



**Source:** RBS, Datastream

## Now adjust the real yield gap for tax and real EPS growth...

- Expected prospective *real after-tax* cost of equity finance, before any risk-adjustment:

= Earnings yield + expected long-term future *real* earnings growth

- For the FT All Share:

= 7% + 3% (?) = 10% (?) net real

- Expected prospective *real after-tax* cost of inflation-linked finance:

= [ ILG real yield + credit spread + future inflation ] x (1-Tax Rate) - future inflation \*

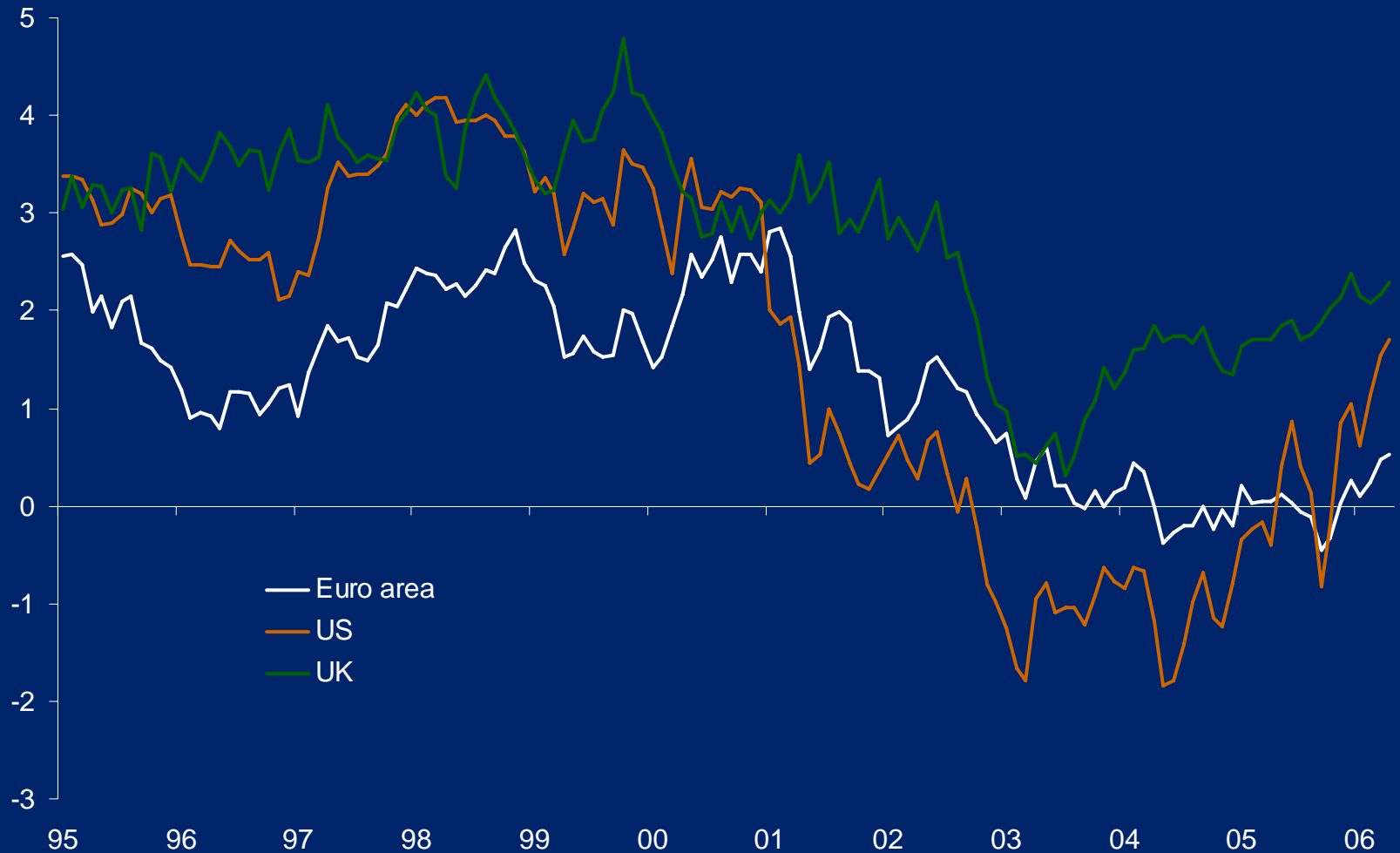
= [ 1% + 1%(?) + 3%(?) ] x (1 - 0.3) - 3% (?) = 0.5% (?) net real

*How debt-averse do you have to be for the switch to be unattractive?*

\* You need to add inflation to work out tax relief on uplift, then deduct it later to get a real net cost

# Meanwhile, the carry advantage of floating finance is disappearing fast

“Real” 3-month libor rates rising, reducing the relative attraction of floating borrowings



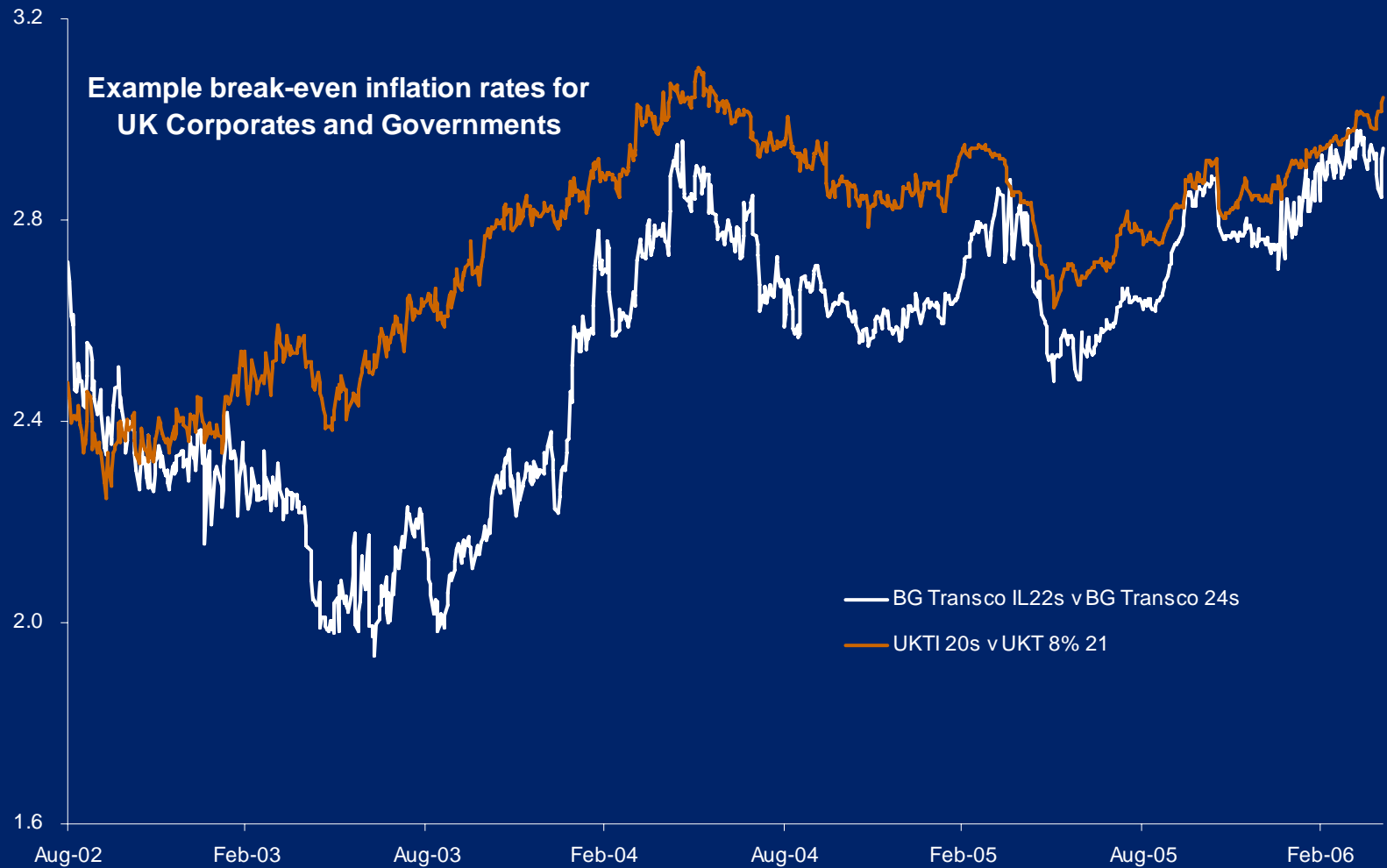
Source: RBS, Bloomberg

## The chicken and the duck

- There has always been a “chicken and egg” problem in the development of a non-government inflation-linked market
- Investors want credit diversification and liquidity...
- ...so the heavy concentration of bonds for project finance and utilities companies, and a “buy and hold market”, create disincentives
- That shouldn't matter – investors increasingly want to receive inflation via swaps, while borrowers would – in principle – be happy to issue nominal bonds and swap the liability into a real one
- However, an index-linked bond liability is typically accounted for at book cost (like a nominal bond)...
- ...but if a nominal bond is turned into a real liability using an inflation swap, the swap might have to be marked to market
- The old premise that “if it looks like a duck, walks like a duck and quacks like a duck, then it is probably a duck” doesn't necessarily apply
- Companies are still prepared to issue inflation-linked bonds because they want a real liability, ...
- ...and a “negative basis” market has developed – packaging up and swapping these bonds, perhaps with the credit hedged in the CDS market

# The “negative basis” versus nominal financing

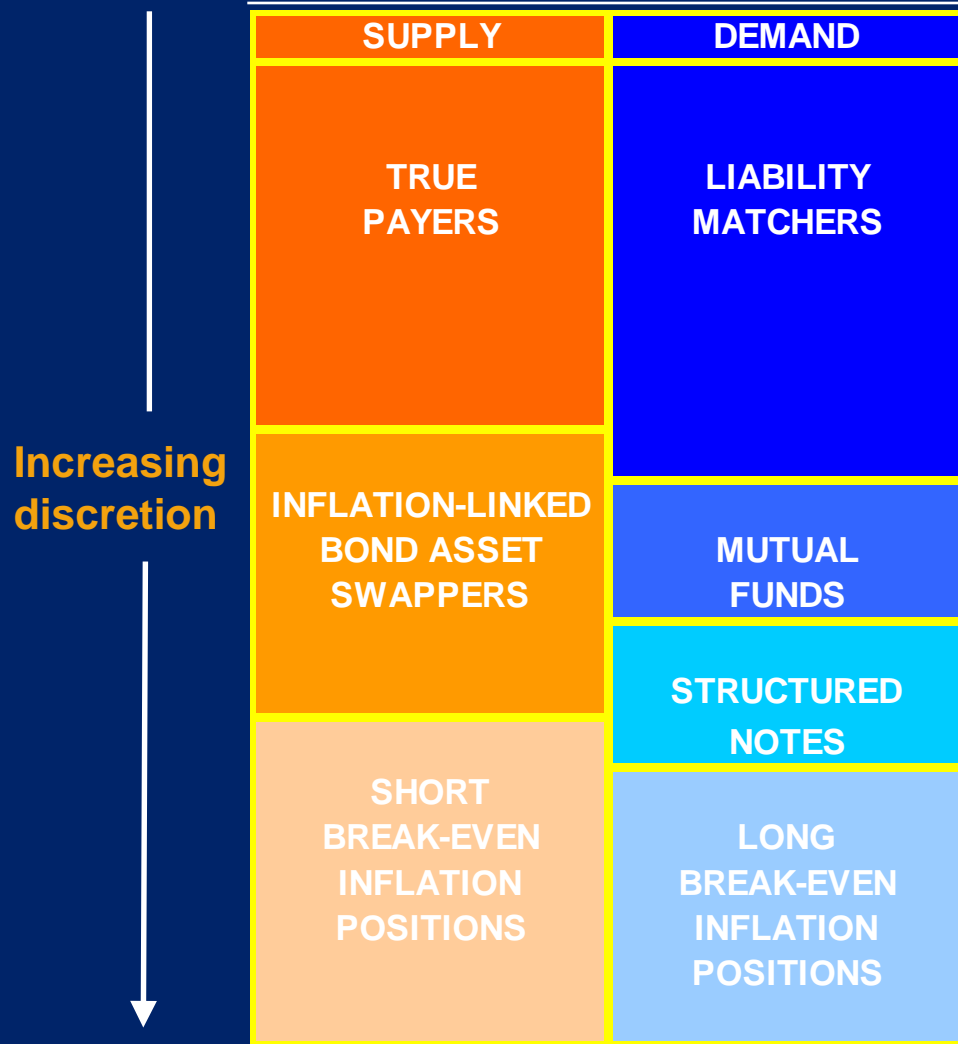
Linker funding’s libor disadvantage compared to nominals is not what it was



Source: RBS, Bloomberg

# Private supply in the inflation swaps market

## The supply and demand composition



Source: RBS

- For the inflation-linked market to grow at its fastest possible pace, there needs to be a mixture of “true” payers and receivers...
- ...who have a structural need ...
- ...and liquidity providers, drawn in by, say, asset swap spread differences between nominal and inflation-linked bonds
- Ideally, the degree of discretion on the supply and demand sides should not be too different. For instance, ...
- ... market development would be curbed (and potentially unstable) if all inflation paying was by “asset swappers” holding inflation-linked governments, and all receiving is by ALM “lock-aways” – what if asset swappers want to close their trades?

## So where are we now?

- All US TIPS issues trade much cheaper to libor than nominals

Conclusion: An unbalanced market with an absence of true inflation payers

Tell-tale sign: most visible inflation derivative prices are TIPS asset swap spreads

- Short-dated euro area linkers trade cheap to libor compared to nominals, the reverse is true at the long end

Conclusion: heavy demand for receiving inflation via swaps and repackaging it in short-dated structured notes, but little ALM need for long-dated inflation (yet)

Tell-tale signs: a very flat break-even curve; 233 different Italian non-government inflation-linked “bonds” listed on Bloomberg

- Long-dated UK linkers cheap to libor versus nominals, reverse true at short end (i.e. the opposite situation to the euro area)

Conclusions: Heavy long end pension fund demand for receiving inflation and a preference to do so via swaps rather than bonds; at the short end, taxed investors have more influence, and index-linked gilts enjoy tax privileges that swaps do not

Tell-tale signs: a break-even inflation curve that is steeper than elsewhere, even though the nominal curve is more inverted than elsewhere

# Global Disclaimer for Presentations by Advisory Areas

- This document has been prepared for information purposes only. The investments and investment services referred to are not available to private customers within the meaning of the rules of the Financial Services Authority, nor for persons who are subject to US securities laws and should not be distributed in the US or to any US person nor in any jurisdiction in which its distribution would be prohibited. It should not be construed as an offer or solicitation to buy or sell any securities or any interest in securities.
- The information in this document is confidential and is intended for use only by the recipient. It should not be reproduced or disclosed to any other person without our consent. This document remains our property and must be returned to us on request and any copies you have made must be destroyed.
- This document is distributed on the express understanding that, whilst the information in it is believed to be reliable, it has not been independently verified by us. We make no representation or warranty (express or implied) of any nature, nor do we accept any responsibility or liability of any kind, with respect to the accuracy or completeness of the information in this document. This shall not, however, restrict, exclude, or limit any duty or liability to a person under any applicable laws or regulations of any jurisdiction, which may not lawfully be disclaimed.
- Each recipient of this document should make its own independent evaluation of the transaction and of the relevance and adequacy of the information in this document and should make such other investigations as it deems necessary to determine whether to participate in the transaction.
- The Royal Bank of Scotland plc ("RBS"), and its affiliates, connected companies, employees or clients may have an interest in the securities (or related securities or other financial instruments or their related derivatives) ("Securities") mentioned in this document. This may involve activities such as dealing in, holding, acting as market-makers, or performing financial or advisory services, in relation to any of the Securities referred to in this document. It may also have acted as a manager or co-manager of a public offering of such Securities, and may also have an investment banking relationship with any companies mentioned in this document.
- Neither of us should rely on any representation or undertaking inconsistent with the above paragraphs.
- This document is issued by RBS, which is authorised and regulated by the Financial Services Authority. Any views or opinions (including statements or forecasts) constitute our judgement as of the date indicated and are subject to change without notice.