

# **The cost of capital: a UK cross-sectoral perspective**

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ofgem

- Price controlled private entities since 1984
  - Energy networks privatised in 1986, 1990 and 1991
  - WACC a central issue in practically all price reviews
  - An ‘industry of WACC analysis’ has built up over the decades
  - In energy networks , water, telecoms, airports, air traffic control, rail, post
  - Analysed by regulators, investors, academics, appeal bodies, consultants ...
  - The issues are largely generic
- WACC remains critical for investor confidence
  - Frustration that different regulators reach different conclusions on generic components of the WACC
- Thought: we would benefit from more consistency
  - Consistency in WACC: early objective for a new club des régulateurs, UKRN
  - Expectation that we would coalesce around agreed estimates

- UKRN
  - Cross-sectoral group of regulators, prompted by government
  - Led by CEOs, supported by panel of experts
  - **“Coherent and consistent economic regulation across sectors: we will give a clear joint view where cross-sector regulatory agreement or consistency is needed and will ensure that our actions deal effectively with cross-sector issues”**
  
- UKRN’s cost of capital working group
  - [http://www.ukrn.org.uk/?page\\_id=429](http://www.ukrn.org.uk/?page_id=429)
  - Membership from 6 regulators (others may and do attend)
  - Agreed terms of reference
  - Meeting weekly for much of last 2 years
  - Now meeting 1-2 times each month
  - Ongoing programme of projects, peer reviews and issue-sharing

## ■ Statement of **cost of capital principles**

In setting the cost of capital in our sectors, UKRN members\* will follow these principles:

- **Consistency** - recognise the benefits of consistency and stability in our own and collective regulatory approaches - explaining why if a different approach is taken, and reflecting our own duties.
- **Risk reflective** - the reward will reflect the allocation of risk in the regulatory framework and sectors.
- **Investment** - Facilitate necessary investment in the infrastructure and services consumers want.
- **Communication** - Be clear and transparent in our communication with stakeholders.
- **Good practice** - Learn from each other's approaches, those used in other jurisdictions and latest academic thinking.
- **Evidence** - Use market and other evidence to inform our work
- **Review** - Review these principles and our own approaches to the cost of capital at appropriate intervals.

\* CAA, NIAUR, Ofcom, Ofgem, Ofwat and ORR

- Statement of **cost of capital principles**
- **Compare and explain** principle
  - Annual comparative report
  - Central depository
  - Regulators encouraged to explain comparisons in their decision documents
- **Resource sharing**
  - Peer review
  - Cross-memberships in advisory panels
  - Shared expert inputs
  - Loans/secondments of staff
- We considered but rejected
  - Agreed approach to WACC components
  - Having a joint cost of capital team

## So, why not agree on components?

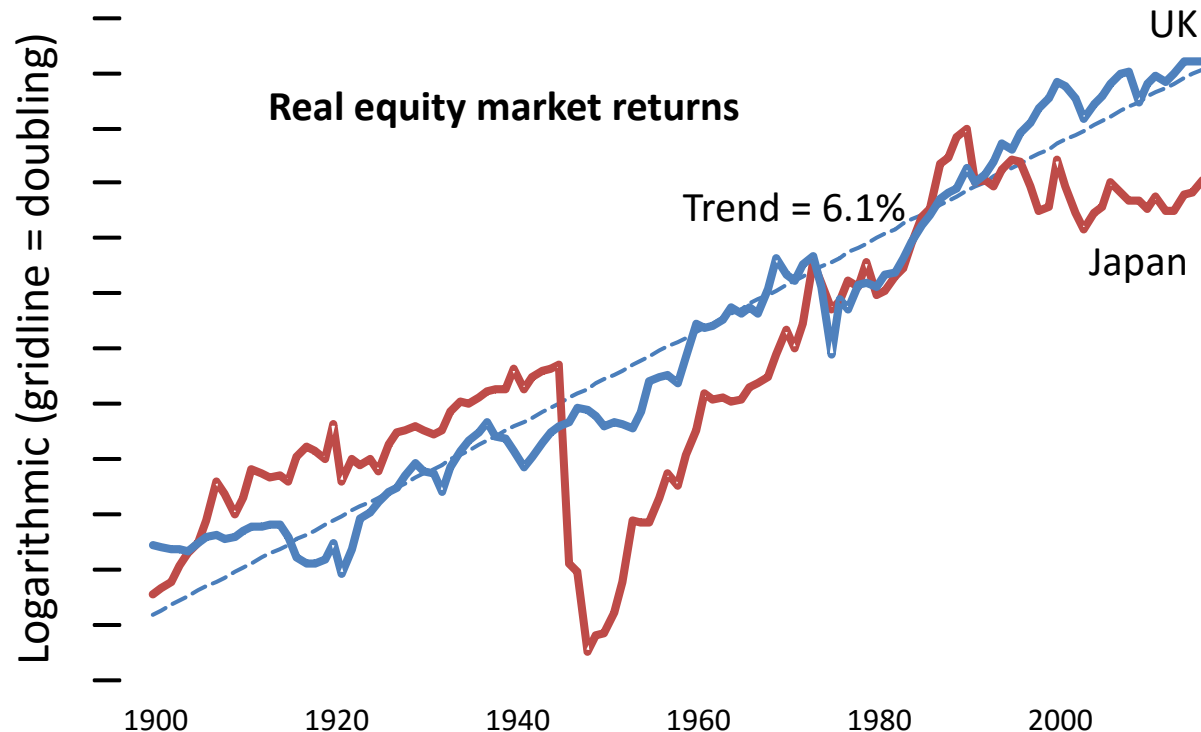
- UKRN's description of Ofgem's latest decision:

*“there was significant uncertainty in all the numbers contributing to the WACC and that it was not therefore the intention to achieve a precise match to the actual WACC and its components for the DNOs as a group as this would represent spurious accuracy. Accordingly Ofgem do not publish a point estimate of all the individual components of their WACC calculation.”*

(note 1, page 8 of UKRN's 2016 annual comparison report)

# Areas of uncertainty

- Forward-looking risk-free rate
  - In a world of sustained negative real yields on government bonds
- Forward-looking equity market return
  - What is low risk-free environment really telling us?



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- Forward-looking risk-free rate
  - In a world of sustained negative real yields on government bonds
- Forward-looking equity market return
  - What is low risk-free environment really telling us?
- Beta risk
  - Beta observations difficult
  - Observed evidence is ambiguous
  - No clear source for beta risk exposure
- Regulatory and political risk
  - Traditionally, we don't even include this in our WACC calculations



- How should we remunerate uncertain cost of debt?
  - How do we better forecast debt costs ex ante?
  - Or, should we adopt a cost of debt index (like Ofgem)?
- How sensitive is cost of equity to the risk-free rate?
  - Are we over-remunerating equity in today's market?
  - Will we hit problems in rising interest rate scenarios?
  - Should we adopt a cost of equity index?
- As regulators, how can we best manage risk?
  - Careful engineering of incentive/risk framework
  - How can we minimise regulatory/regulatory risk?
- What scope for convergence with structured finance?

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