



The usual suspects

- Lack of investment
 - Tangible: machines, computers etc.
 - Intangible: R&D

 - private (but tax competition)
 Public (return to public R&D is about 20%, <u>Haskel/Hughes</u> work for CASE)
- Lack of skills .
 - Public (schools)
 - Private (training)
- Adverse business climate ٠
 - Planning (important for retail productivity)
 - Infrastructure (Heathrow?)
- But...
 - Have these got suddenly worse since 2008?
 - is the modern UK economy captured in investment, R&D and GDP data?





Are these innovations counted in GDP, investment or R&D data?

- Not in R&D
 - R&D does not include design, market research, branding.
 - Banks (until very recently) didn't get an R&D form
- In investment?
 - Software: yes
 - Artistic originals: mostly are
 - R&D only this year
 - Innovation spending like design, market research, training, business process re-engineering, is not.
- Does this matter?
- Depends if intangible investment is quantitatively important...



