

Investment and the regulatory framework

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Background



- ☐ Study undertaken for DG InfSo
 - London Economics with PwC ISU
 - Views expressed are those of London Economics, not the European Commission
- ☐ Study objectives
 - Build a dataset relating to investment in physical infrastructure
 - Review key drivers of investment
 - Consider impact of regulatory framework on investment

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Data

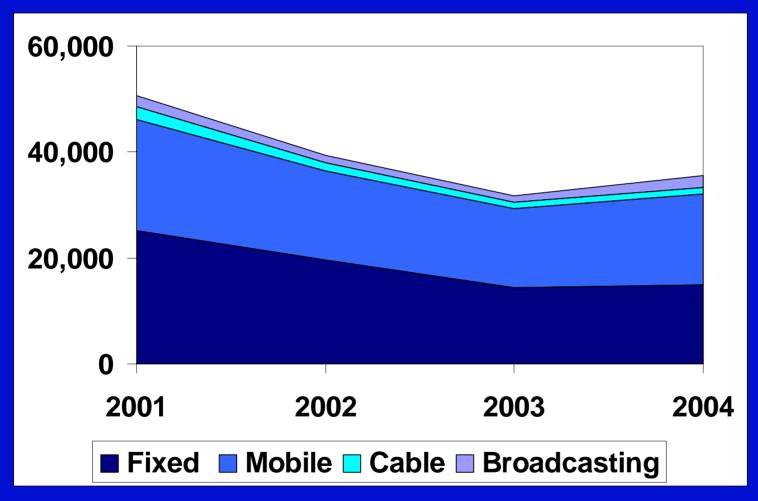
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- Capital expenditure in physical infrastructure
- Company annual reports
- ☐ Data collected, by Member State, for four "sub-sectors"
 - Fixed telecoms
 - Mobile telecoms
 - Cable
 - Broadcasting (inc. satellite)
- □ Need to disaggregate data for some multi-sector or multi-national operators





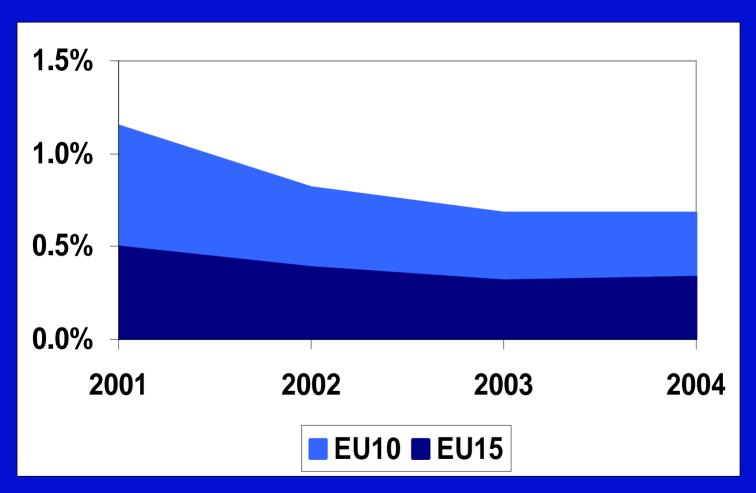


Source: London Economics

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Source: London Economics

Proposed Model



$$\ln(I_{ijt}) = \alpha + \beta Z1_{jt} + \delta Z2_{jt} + \theta Z3_{ijt} + \varepsilon_{ijt}$$

 $ln(I_{ijt})$ is gross investment in tangible assets for each firm

Z1_{it} are country-specific characteristics that change over time

Z2_{it} are market-specific characteristics that change over time

Z3_{ijt} are firm specific characteristics that may or may not change over time

 α , β , δ and θ are the model parameters to be estimated and ϵ is the error term.





Entry Regulation (1/3):

legal entry conditions (trunk, int., mobile)

Public Ownership (1/3):

% shares government owned (Fixed incumbent/largest mobile operator)

Market Structure (1/3):

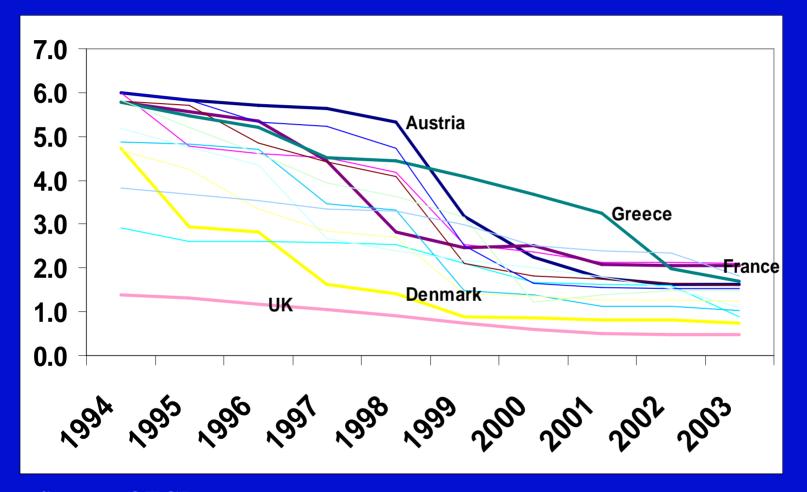
Market share new entrants (trunk, int., mobile)

Source: OECD





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Source: OECD

Results



- ☐ Results from several versions of the model suggest:
 - There is a positive relationship between the regulatory index and investment
 - i.e. as the index "improves", investment rises
- ☐ Other company-specific factors related to investment
 - "Incumbent" status
 - Multi-country status
 - Multi-sector status
 - Operation in the mobile sector
 - Company size (total assets)

Discussions with operators

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- □ Suggest strongly that regulation influences investment (+ve and -ve)
- Regulatory uncertainty consistently raised as a key issue
- ☐ Approaches to reducing uncertainty
 - Clarity (legislation and NRA actions)
 - Timeliness (implementation)
 - Guidance (key regulatory principles)
 - Harmonisation (across Member States)
 - Processes (appeals and enforcement)





- 1. Does regulation influence investment? Is there feedback?
- 2. How does regulation influence investment?
- 3. What is the role of competition in relation to investment and how does it interact with regulation?
- 4. What changes to the regulatory framework could improve the conditions for investment?



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