

Contribution to WTIM-10 session 1

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TITLE: The economic impact of ICT and intangibles: what do we know, what do we need to know?









Coinvestment and intangibles

- Focus on computers is focus on tangible capital
- At same time, firms developing intangible capital. Examples:
- The iPhone:
 - R&D and patents. Plus:
 - Software, Design, Marketing and reputation,
- EasyJet

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- No R&D, no patents. But:
 Software, branding, business process
- **Financial services**
 - No R&D, no patents. But:
- Non R&D product development, software, branding, business process, training
- Thus broaden growth accounting approach to contributions of
 - Labour
 - Tangible capital (ICT and non-ICT)
 - Intangible capital (R&D, software, design, branding, training, business process)
 - Total factor productivity

Type of intangible investment	Includes the following intangibles	Current treatment in National Accounts
Computerised information	(1) Computer software(2) Computer databases	Both treated as investment
Innovative property	 (1) Scientific R&D (2) Mineral exploration (3) Copyright and license costs (4) New product development costs in the financial industry (5) New architectural and engineering designs (6) R&D in social science and humanities 	Only (2) and (3) treated as investment
Economic competencies	 Brand Equity Firm-specific human capital Organisational structure 	None of these treated as investment

















Summary

- Growth accounting the right framework for impact of ICT on productivity
 - 1980s/90s: technical progress in computer industry
 - 1990s:
 - computer capital deepening set up productivity gains in rest of the economy
 - · co-investment also raised productivity
 - 2000s and beyond
 - Organisational and network change via the internet
- Clear research agenda on measurement to better inform policy
- Developing policy agenda favouring
 - Deregulation to favour intangible assets and experimentation
 - No tax credits on most intangible investments
 - Support for public sector R&D