

# Clerk Maxwell Centres (TICs)

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## What is a Maxwell Centre ?

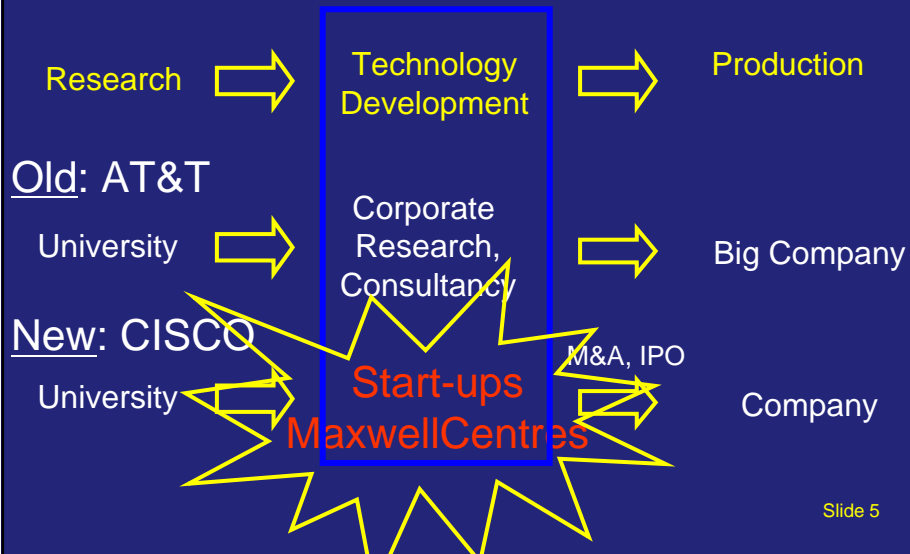
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## Clerk Maxwell Centre

- Translational Centre between Universities and Industry
- Technology and Innovation Centres (TICs): Intermediate Institutions (TRL 3 to 8)
- Proposed Brand: James Clerk MAXWELL because of his useful equations
- Fraunhofer Gesellschaft (€ 1.3bn)  
DARPA, ITRI, ETRI, TNO

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## From R to D



## Maxwell Centre

- Fills the void left by demise of Central Research Labs of large Companies:
  - Bell Labs
  - IBM
  - Philips
  - Martlesham
  - GEC, Marconi research labs
  - EMI

## Why do we need Maxwell Centres ?

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## Why Maxwell Centres ?

- Britain is second only to US in Research but lags in commercialisation
- Race among Nations to commercialise R&D
- Some of the best Research takes years to be investment ready
- Need for Focus and Scale
- Need for National Strategy (TSB)
- Make Research Investment ready

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## What Criteria ?

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## What Criteria ?

- Very large potential Market ( multi £ bn )
- Demonstrable UK lead
- Platform Technology serving an entire Sector
- Ability to retain valuable part of supply chain
- Attracting global lead companies

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## Why Now ?

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## Why Now?

- Global race between Nations to commercialise R&D First.
- Other Nations use TICs to good effect
- Creates National Focus
- Avoid subcritical initiatives
- Helps with a National Strategy

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# Funding

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# Funding

- £50 to 100m over 10 years per Sector
- £5m to £10m p.a.
- 1/3 Government Infrastructure
- 1/3 Industry funding
- 1/3 Government and EU project funding

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# Recommendations



# Recommendations 1

- Establish a number of Elite business focused Maxwell Centres
- TSB, RCs and Industry to work on a National Strategy:
  - 10 year vision
  - Selecting sectors
  - Work with existing TICs and RTOs
  - Location: Research excellence, absorptive capacity of industry





## Recommendations 2

- Government Procurement for demand creation and project definition
- Matching technologies to markets
- Active secondment scheme with academia and industry
- Strong Governance
- Business lead steering group
- Management Board

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## Recommendations 3

- Unique Quality Brand:  
Clerk Maxwell Centres
- TSB and UKTI to promote  
Maxwell Centres internationally to  
develop links and attract inward  
investment
- Make Research investment ready

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## Candidate Sectors

- Regenerative Medicine
- Renewable Energy
- Future Internet Technologies
  - Semantic Web
  - Software for the Planet
- Plastic Electronics
- Advanced Manufacturing
- Etc.

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## Conclusion

- Britain leads in Research  
BUT lags in commercialisation
- Maxwell Centres are proposed as  
Technology Innovation Centres  
in the UK
- TSB to lead definition and funding
- Provides Strategy and Focus for UK

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