



The Power of Ideas

Relating R&D to Innovation in the NHS

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Joint Health Research Conference:
Committed to better research in the NHS
Friday 10th July 2009

Presentation Themes

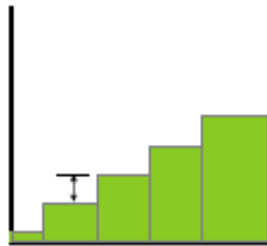
- Innovation & the NHS
 - The emerging innovation landscape within the NHS
- Innovation and R&D
 - New linkages & new opportunities



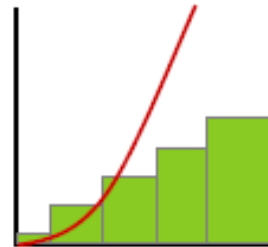
What is innovation?

More than invention – about turning ideas into reality

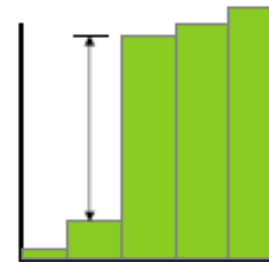
Incremental



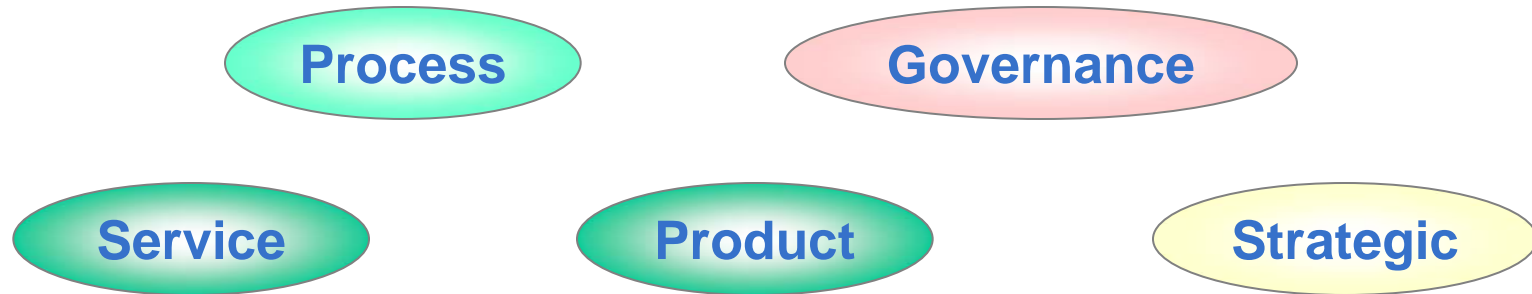
Incremental
with side effects



Transformational



Different Dimensions of Innovation



Catalysts for Innovation

- Top-Down – *policy-driven*
- Bottom-Up – *Organisation-driven*
- Sideways-In – *Profession-driven*
- User-driven

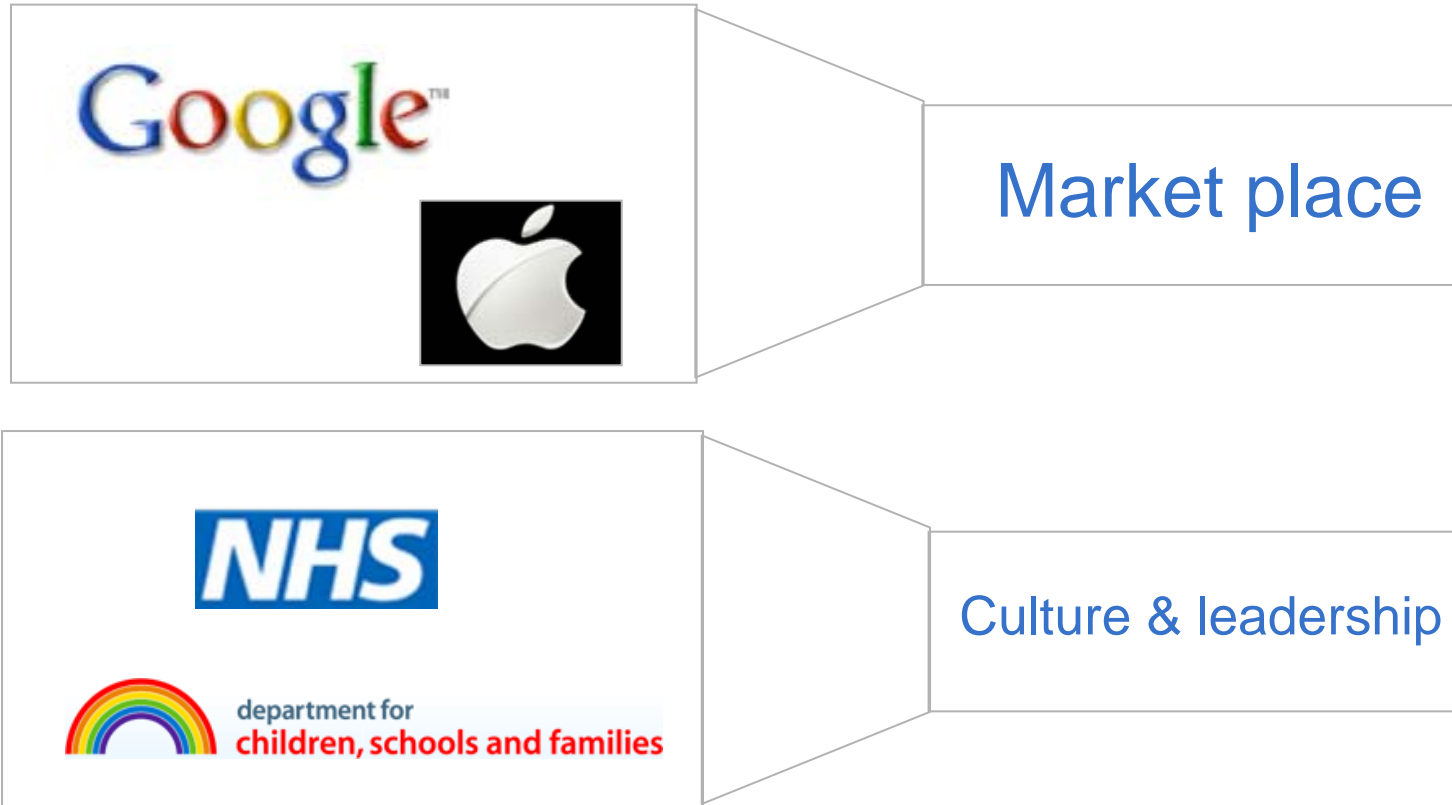


The Innovative Organisation

- Culture
 - Leadership
 - Continuous improvement
- Ideas & knowledge
 - The 'currency' of innovation
 - Inside & outside the organisation
- Management system
 - Turning ideas into reality



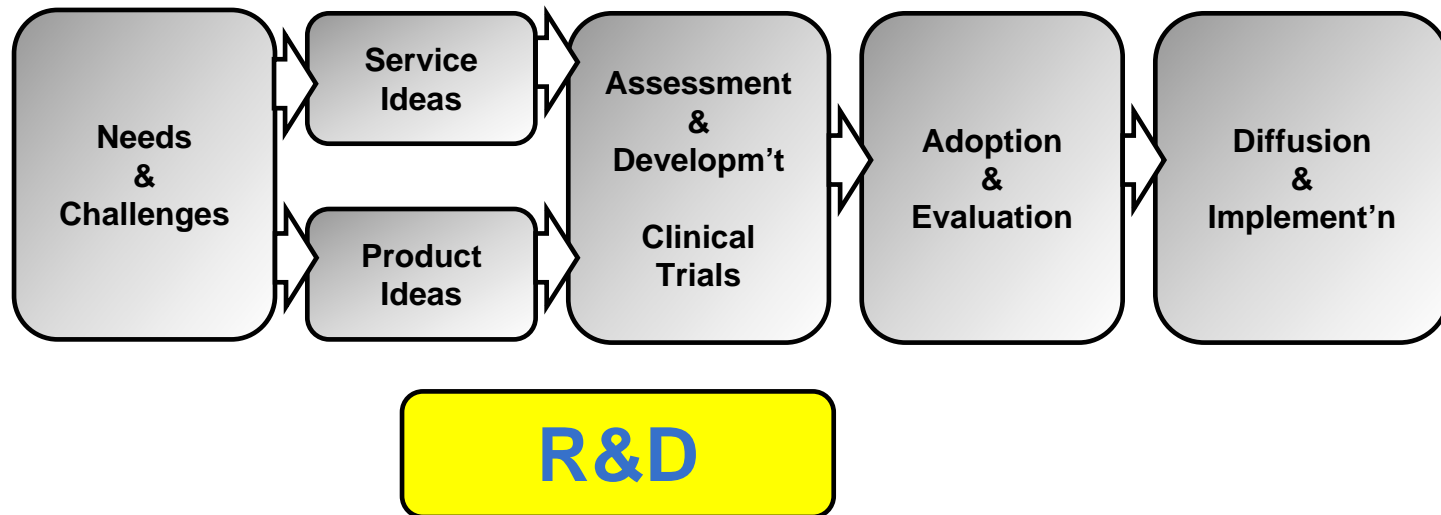
Private & Public Sector Innovation



Innovation Pipeline



Innovation Pipeline

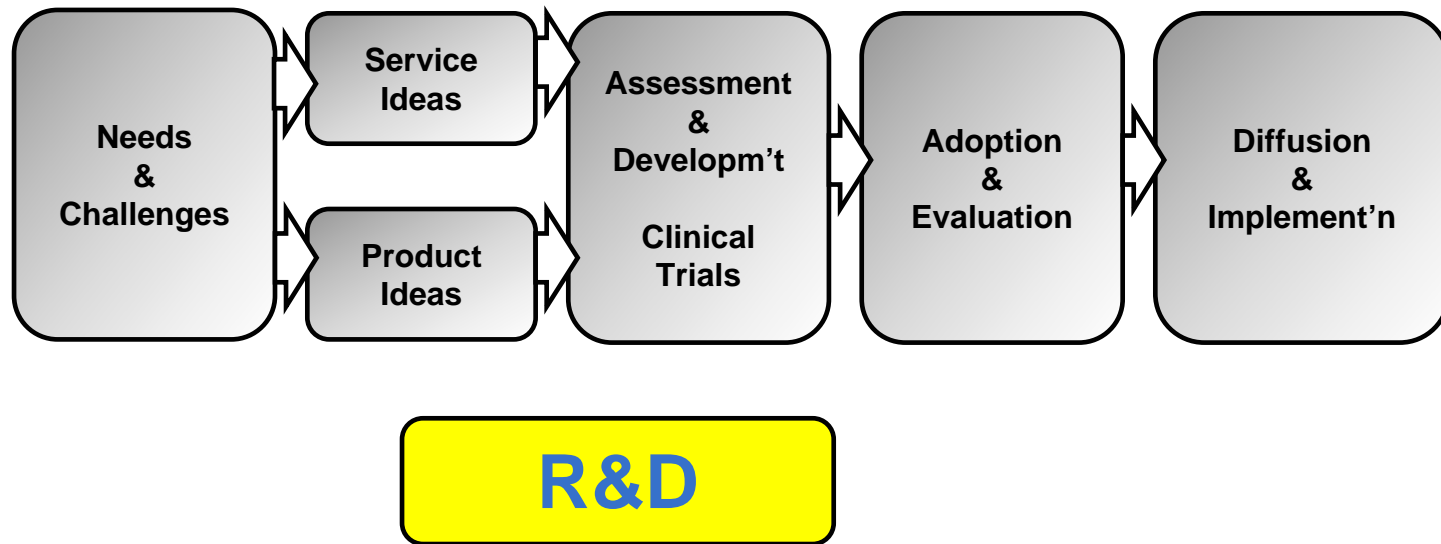


R&D - Innovation

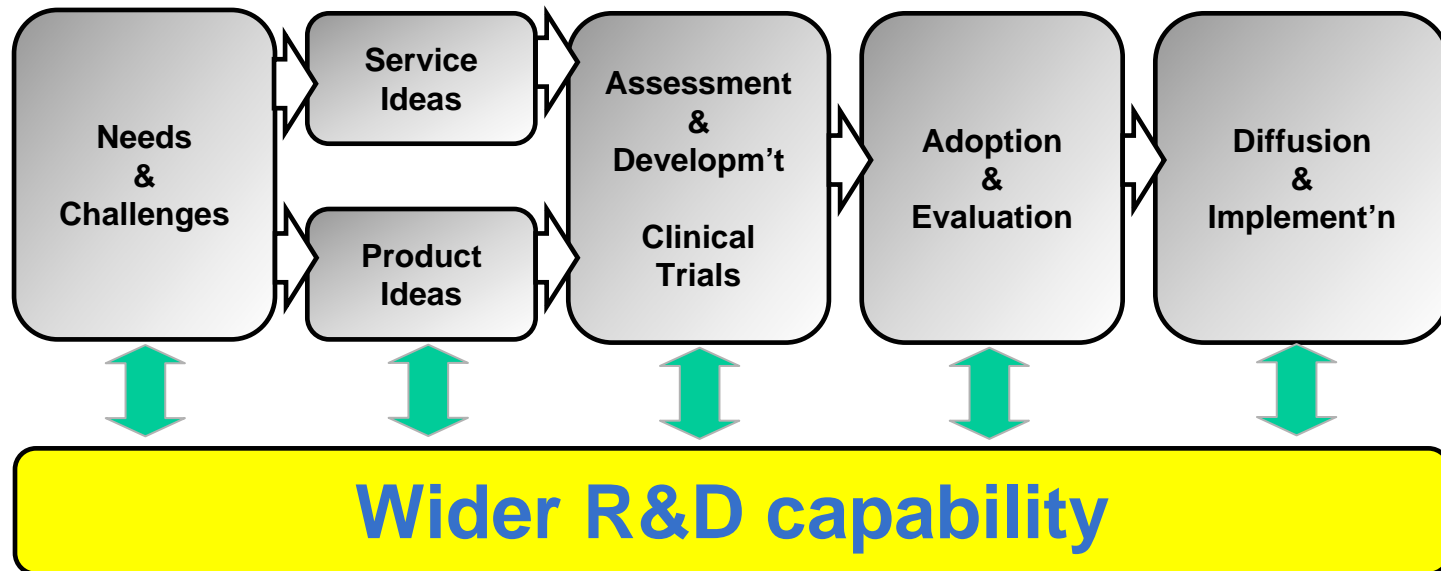
- Integral to the innovation process
 - But potentially wider impact
- ‘Disciplined discovery’
 - Asking the right questions
 - Generating new ideas
 - Evaluating results – presenting evidence
 - Knowledge of the world – due diligence
- ‘Professionalising’ the innovation process



Innovation Pipeline



Innovation Pipeline



Innovation in the NHS

Next Stage Review:

High Quality Health for All

Quality & Innovation in the NHS

- Challenges
 - Cultural legacies
 - Financial constraints
 - Poor adoption record
 - Complex product pathways



“The way in which you connect quality to productivity is innovation.”

David Nicolson, NHS CE



Existing NHS Innovation Landscape



Example NHS Innovation Projects

North Staffordshire Combined Healthcare NHS Trust

This cushion's made for walking

Jackets to keep the Polish army warm inspired an invention by a Midlands physiotherapist. Her brainchild could soon be sold around the world.

Jill Parker, commercial physiotherapy manager at the Alder clinic, Princess Royal hospital, Telford, heard about a self-inflating cellular polymer substance used in coats and also inflatable beds, from her brother, an engineer in Poland.

This was the beginning of a seven-year process that has finally seen the Physio-Master foot cushion enter production, with help from a scheme to encourage NHS staff to develop their inventions.

Ms Parker, who works for the Strewsbury and Telford hospital trust, discovered that the foot cushion would replicate the action of walking, and thus stimulate circulation to help patients with deep vein thrombosis. It is also said to improve proprioception to help balance reactions, working as effectively as a wobble board, but at a much lower cost.

None of the medical device manufacturers she approached was interested. However, she then learned of MidTECH, the NHS innovators hub in the Midlands. The Physio-Master finally went on sale in November after years of tests, and a firm in the USA is already showing interest. 'I've spent hours and hours of my own time on developing this, and if I make any money it will be a bonus,' Ms Parker said. 'Ultimately it's about seeing the clinical possibilities and producing something worthwhile.'

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FURTHER INFORMATION
www.nhs.uk

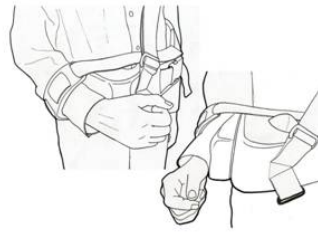
12 July 2009



Jill Parker at the launch of Physio-Master, with MidTECH chief executive David Graves



A class based training package for Primary Sch



Campaign to stub out cigarette litter issue

Drip stand boosts care in the home

City leads way on ports bid

Decen jobs



MidTECH



RENFREW GROUP MIDTECH MEDICAL CABINET

SHEET 3



Next Stage Review Initiatives

- **Legal duty on SHAs to promote innovation**
 - Regional Innovation Funds - £2M in FY09-10 for each region - £5M in FY10-11
- **Academic Health Science Centres (AHSCs)**
 - World-class academic clinical partnerships
 - 5 designated in March 2009
- **Health Innovation & Education Clusters (HIECs)**
 - Partnerships between NHS, higher education, industry
 - To support the spread of innovation locally and strengthen professional education and training.
 - £10M available
- **National innovation challenge prizes (to be announced)**
 - Focussed on challenges facing the population (e.g., child obesity, COPD); £20M available



“Easy access to a comprehensive evidence base for everyone in health and social care who takes decision about treatments”

Understanding & sharing what we mean by ‘good’



Final Remarks

- Importance of Innovation - link to Quality
- Many initiatives, landscape changing
- Importance of R&D - integral to the process & culture
 - 'Disciplined discovery' – Professionalising innovation
 - » Clarity on questions
 - » Evaluation – importance of evidence
 - » Knowledge - due diligence

