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'Devices for Dignity'

D4D

A Healthcare Technology Co-operative

Launched January 2008

Professor Wendy Tindale
Sheffield Teaching Hospitals NHS Foundation Trust

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Outline of session

- What an HTC is and what it does
- Devices for Dignity HTC
 - Identity and mission
- D4D role in AT
- Project adoption and resources
- Role in mainstream market?

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An HTC is

*"A clinician-led, formal but responsive collaboration between **clinicians, patients, academia and industry** which acts as a focus for 'technology pull' into the NHS.*

*Based in an NHS Trust, it will be a **national resource** established to address areas of **unmet clinical need [unglamorous]**, where innovations in treatments and technologies have the potential to make a **high impact** by both reducing morbidity and improving QoL for a large population of patients."*

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'Devices for Dignity' will

- Match patient need with industry skills and capacity to create world class health technology
- Accelerate development of clinically effective health technologies
- Become a development partner of choice for industry

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The HTC Model

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Devices for Dignity HTC Model

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Devices for Dignity HTC: Mission

“To deliver innovative medical devices to support patients with long term conditions, which preserve their dignity and independence.”

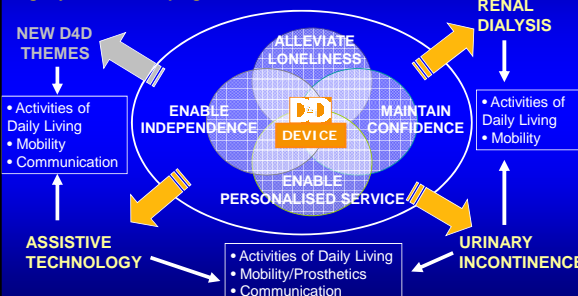


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Dignity Challenges

Dignity in Care Campaign, 2006



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Why are the themes important?

- Substantial hospital admissions, Out Patient and Follow-up attendances
- Significant impact on care in community

Assistive Technology
11 million people with disabilities in UK

Urinary Incontinence
24% of older people
30-60% of people in institutional care

Renal Disease
Focus: Renal Dialysis
Only 0.05% of population but increasing & expensive to NHS (2% of budget)

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D4D Role in Assistive Technology

- Five sub-themes
 - Mobility
 - Communication
 - Eating and Drinking
 - Aids for Daily Living
 - Innovations Broker
 - Internet based service, facilitates translation of ideas to products (Peter Cudd)
- 'Cross'-theme AT/incontinence

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Assistive Technology

- Wheelchair halo traction
 - Greater independence / QoL
- Communication
 - User needs capture for high-tech augmentative alternative aids



RED EMBEDDED DESIGN
DELIVERING YOUR VISION



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Assistive Technology

- Drinking devices
 - Scoping study : why sub-optimal hydration?
: older people's experiences?
- Daily living
 - 'Heads Up' (MND +...)
 - Comfort AND Support
 - User-driven co-production




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Cross theme AT/incontinence

- Dignity mobile bidet commode



Andy's story

Andy Speechley
Independent Care Products Ltd

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Cross theme AT/incontinence

- Dignity mobile bidet commode



The realisation

Andy Speechley
Independent Care Products Ltd

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D4D Programme Management & Resources

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D4D Capability

- 'One stop shop' approach (delivering solutions) 
- Focused in addressing clinical need within core disciplines
- In-depth clinical knowledge in disciplines
- Access to relevant patient groups
- Ability to validate clinical relevance & endorse projects
- Proven ability to guide product through both preclinical and clinical phase of development
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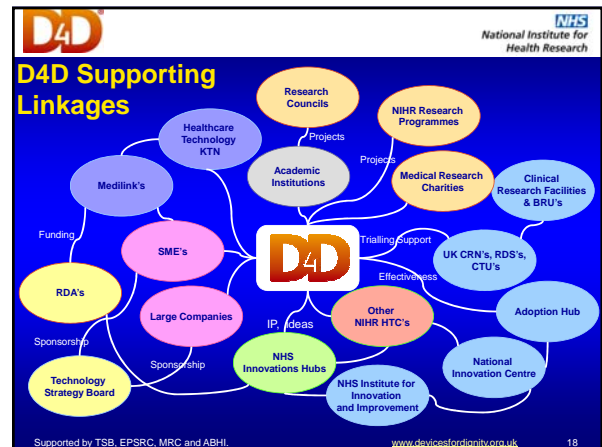
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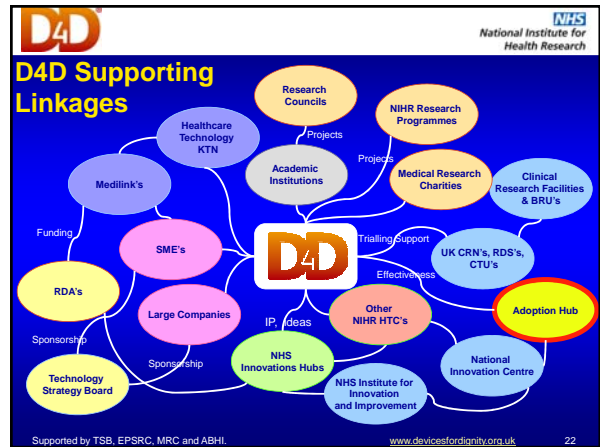
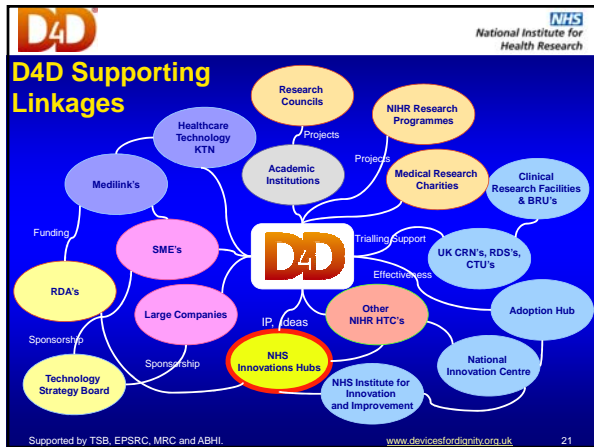
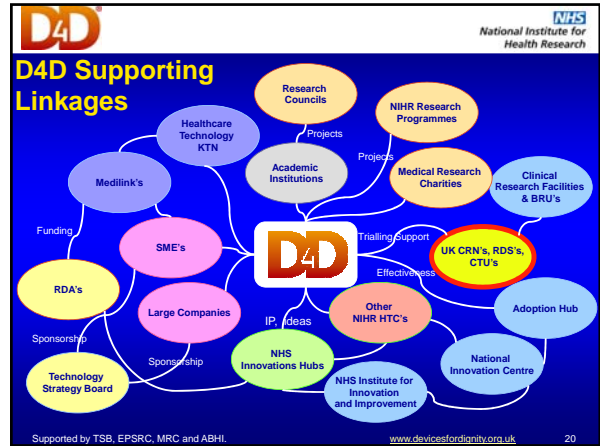
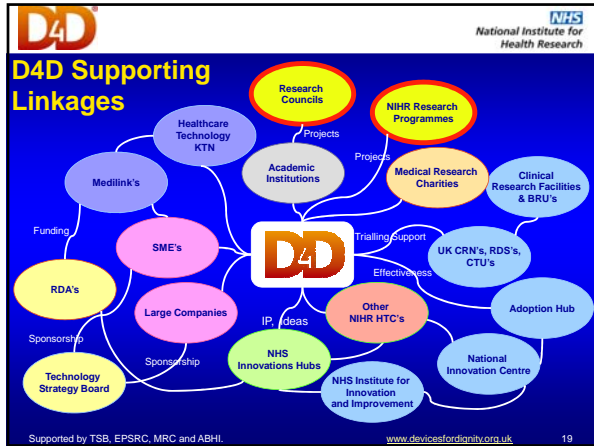
D4D Capability

- 'One stop shop' approach (delivering solutions) 
- Skill to undertake design modification
- Design/prototype manufacture facility that complies with strict regulatory requirements
- Registered with MHRA as medical device manufacturer
- Ability to take products through to CE marking
- In depth regulatory awareness (technology enabler)



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Project Adoption into D4D Portfolio

- Varied sources (~2 per week)
 - Patients, Carers, Healthcare Professionals, Inventors, Industry, Academics
- Needs, ideas, solutions
- Checklist
 - Information for prioritisation

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What information do we need?

- Background
- Which Dignity Challenges does it address?
- Likely impact?
 - clinical, commercial
- Required D4D input?
 - Design, prototyping, route to market
 - Identifying users
 - Grant partnering
 - Clinical evaluation/validation
 - NHS Adoption
- Current status?
- Funding arrangements?

Project adoption dependent upon:


- Fit with D4D objectives
- Peer review
- Impact
- Likelihood of success
- Economic assessment
- Resource availability

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D4D role in the mainstream market?

- 'Fit for patients not simply fit for function'
 - Co-production model ensures strong user involvement
 - Dignity and independence : lowest common denominator
 - Inclusive design approach
- D4D 'kitemark'?
 - Assurance for users
 - Confidence for retailers
 - Influence catalogue?
- Provider of reliable and impartial information
- 'Feedback loop' for unmet needs
- National resource for LA & partners for complex equipment



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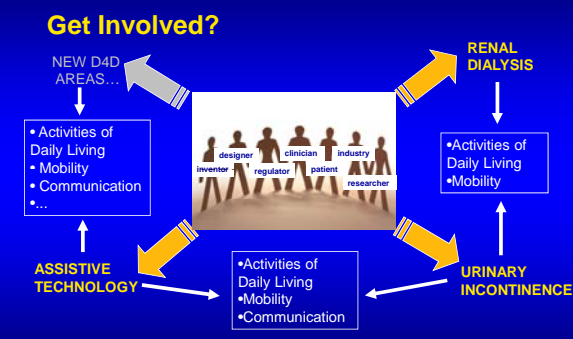
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Get Involved?



NEW D4D AREAS...

- Activities of Daily Living
- Mobility
- Communication
- ...

ASSISTIVE TECHNOLOGY

RENAL DIALYSIS

- Activities of Daily Living
- Mobility

URINARY INCONTINENCE

- Activities of Daily Living
- Mobility
- Communication

designer, clinician, industry, investor, regulator, patient, researcher

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Contact us

Clinical Director : Wendy Tindale
wendy.b.tindale@d4d-htc.org.uk

Assistive Technology Lead : Mark Hawley
mark.hawley@sheffield.ac.uk

Commercial Director : Chris Harris
chris.harris@d4d-htc.org.uk

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