

ERF2014: 13 Marts 2014

Health Care Robotics

for Assisted and Active Living



Session

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|--------------------|--|
| 11.00-11.05 | Workshop introduction
<i>Mette Søndergaard Nielsen, Danish Technological Institute</i> |
| 11.05-11.25 | Service robots assisting care givers and elderly people
<i>Theo Jacobs, Fraunhofer IPA</i> |
| 11.25-11.45 | Robotics for stroke rehabilitation - moving from concept to practical application
<i>Dr. Farshid Amirabdollahian, University of Hertfordshire</i> |
| 11.45-12.05 | Bringing care robots to care practise
<i>Dr. Gert Jan Gelderblom, Zuyd University of Applied Sciences</i> |
| 12.05-12.25 | Patient@home
<i>Mette Søndergaard Nielsen, Danish Technological Institute</i> |
| 12.25-12.30 | Workshop round-up
<i>Mette Søndergaard Nielsen, Danish Technological Institut</i> |



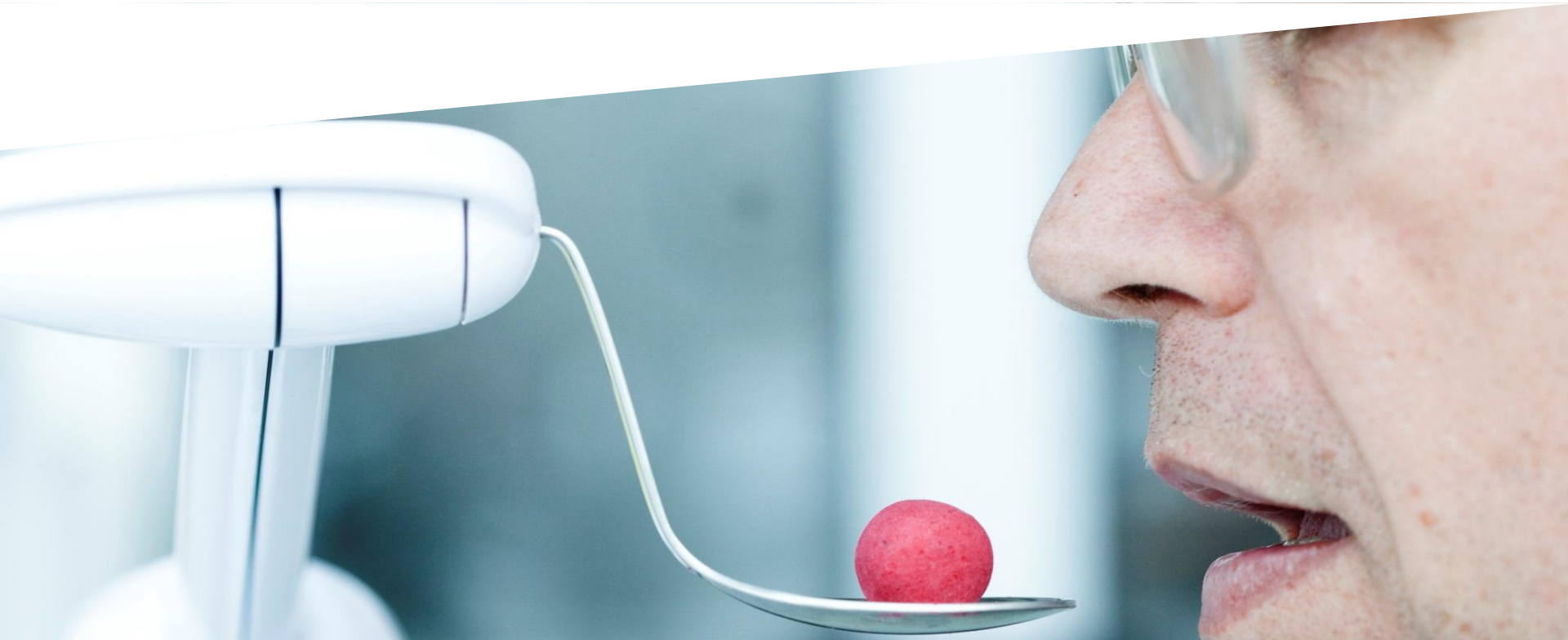
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Mette Søndergaard Nielsen, Consultant

msni@dti.dk, +45 72201245





Agenda

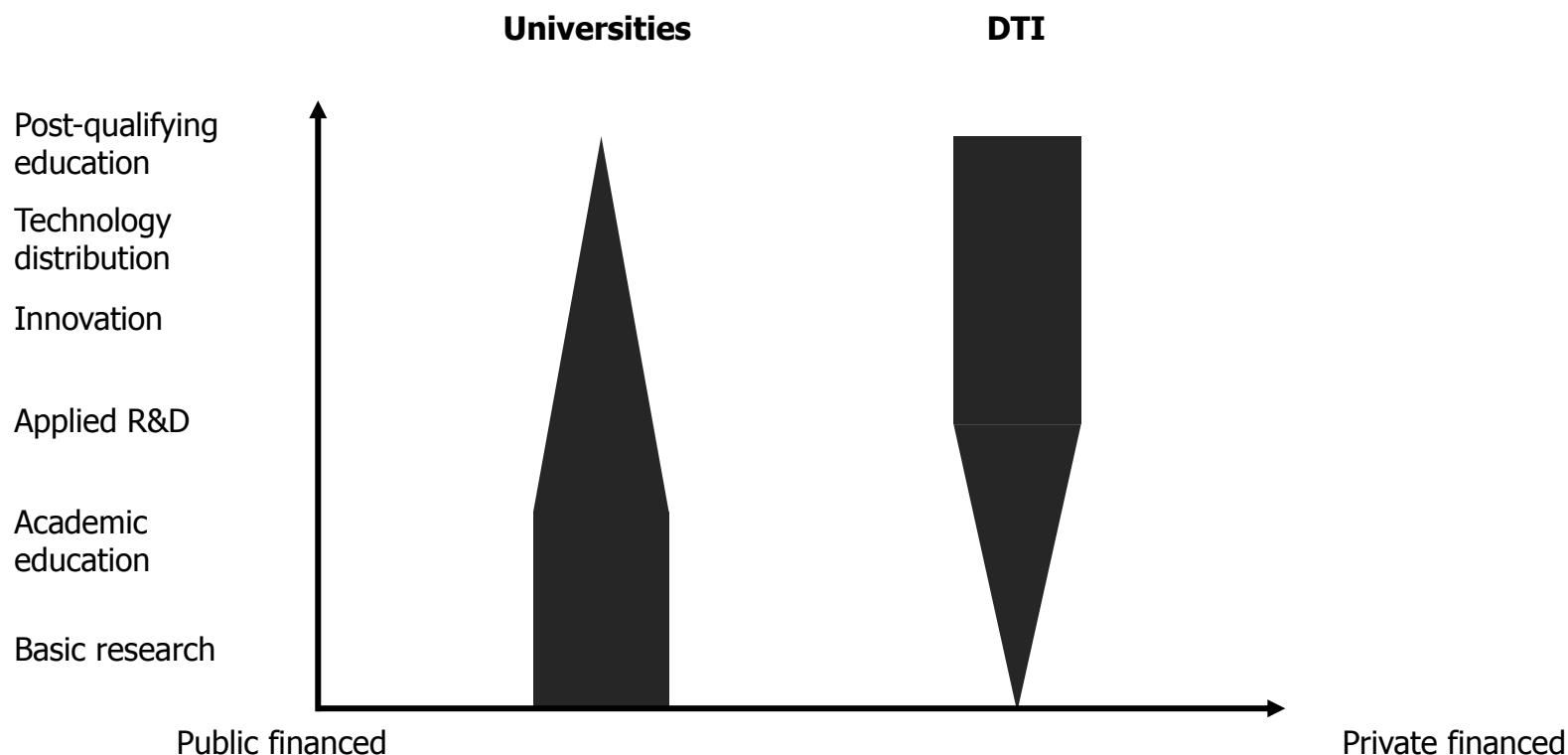
- Danish Technological Institute and the Centre for Health and Human Interaction Technologies
- Patient@home – the largest ever Danish R&D Health Technology project





Danish Technological Institute

- Non-for-profit tech transfer organization
- Address the needs of the industrial sector and society as a whole through the development and dissemination of technological innovation



Centre for Health and Human Interaction Technologies



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Patient@home

- The largest ever Danish project within health care technologies
- Supported by the Danish Government (2012-2018)
- Focuses on minimizing hospitalization (duration and frequency) by 1) preventing hospitalization, especially re-submissions and 2) shortening the duration by treating the patient partially or fully in their own home
- Approx. 50 partners (Public and private)

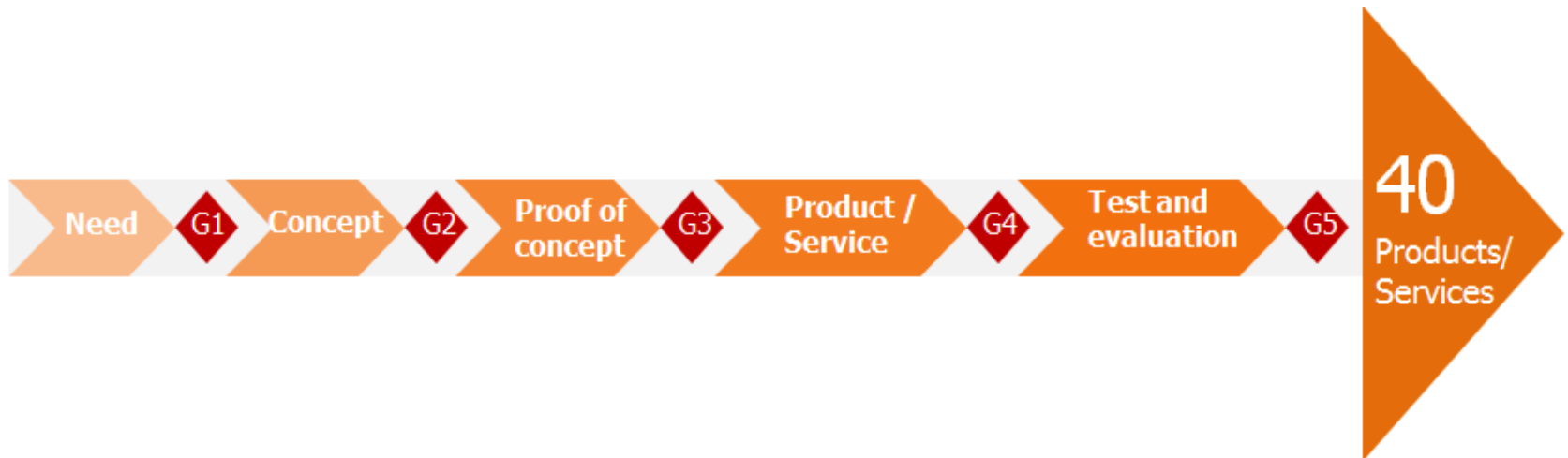


GOAL: 40 NEW PRODUCT/SERVICES LAUNCHED



Innovation model

- Valleys of death
 - Proof of concept to a product/service
 - Developed product/service – to launched product/service implemented in user environment





EX 1

Patient transfer

- Time consuming task for health care professionals
- How might we create a transfer technology that 1) allows patients to move themselves, 2) supports natural movement and 3) stimulates the patients physically?

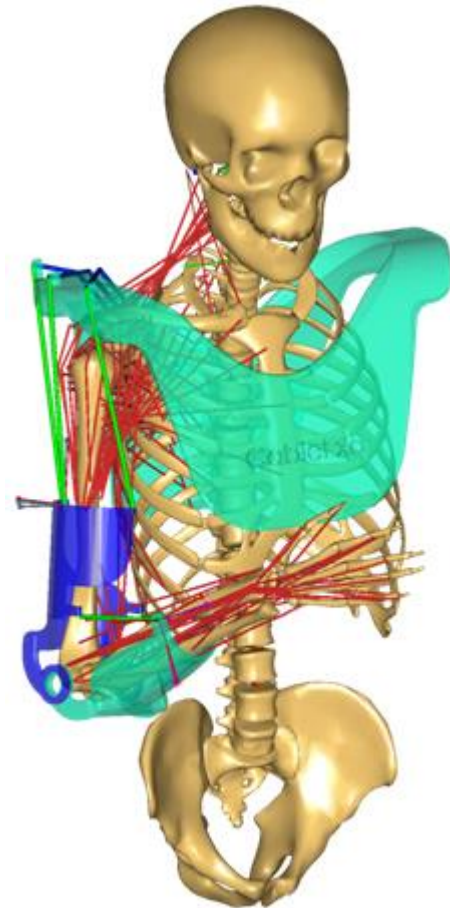




EX 2

Exoskeleton for arm and shoulder

- Rehabilitation of stroke patients experiencing paralysis
- How might we design a lightweight Exoskeleton that fully or partially relieve symptoms and paralysis, and which conveniently takes over the function of the dysfunctional muscles that caused the paralysis





EX 3

Telenoid

- Testing state of the art technologies in new environments
- Elderly with dementia
- How might we adapt and redevelop technologies to fit into a health care context?





EX 4

Geriatric Patients

- How might we send geriatric patients home from the hospital at an earlier stage by introducing known CE approved technologies and reorganizing our health care service?
- Sensors, alarms, compliance technologies etc.





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Thank you!

// Mette Søndergaard Nielsen, Consultant

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