



patient@home

Innovative Welfare Technology
for the 21st Century

Project seminar
WP 1.1 Rehabilitation training

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About Patient@home

- Patient at home intend to
 - Reduce the demand on the public sector
 - Reduce the number of admissions
 - Reduce the duration of hospitalisations
 - Develop new safe treatments

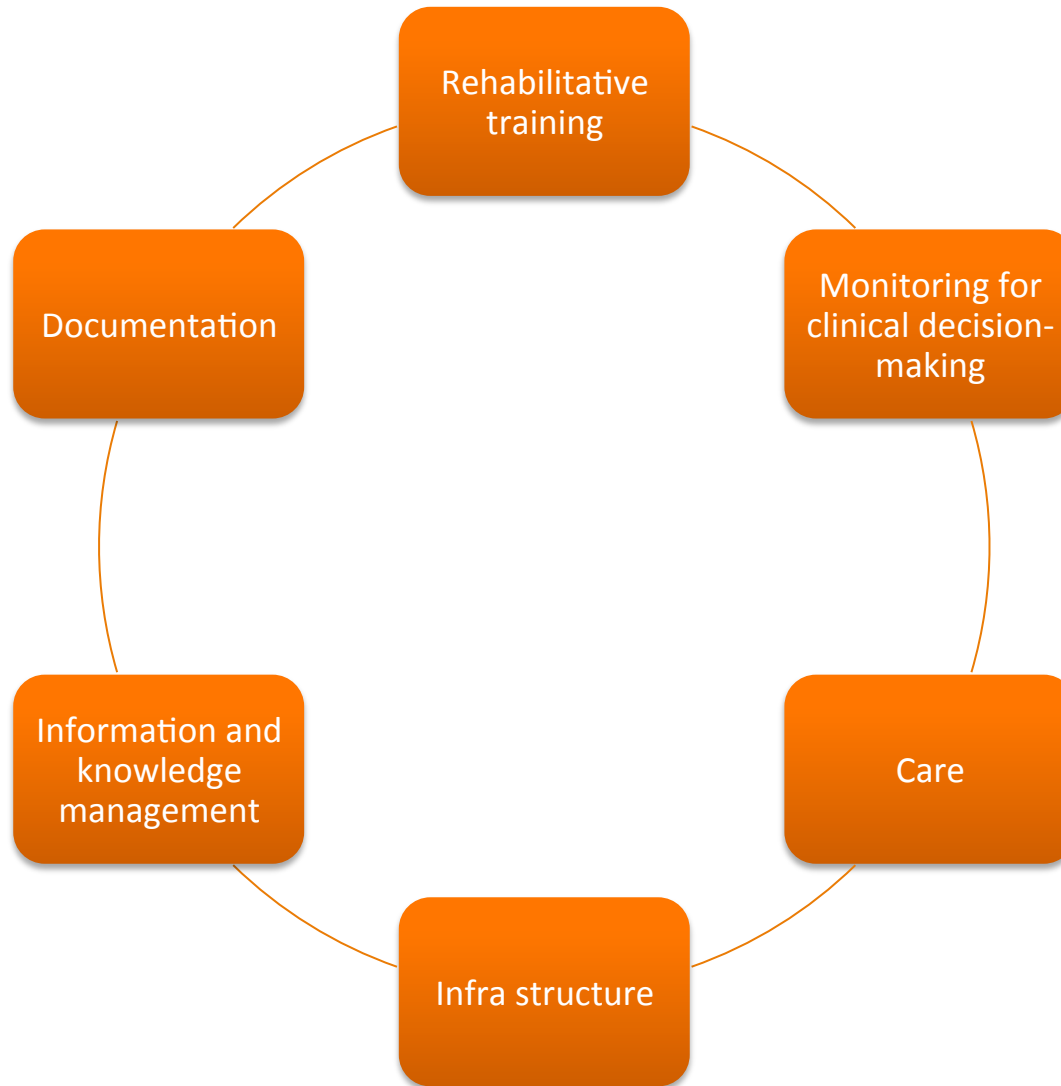


Inter-disciplinary innovation collaboration

- More than 40 national and international partners
 - Private companies
 - Research institutions
 - Health care staff
 - Patients



Workpackages



`Rehabilitative Training`

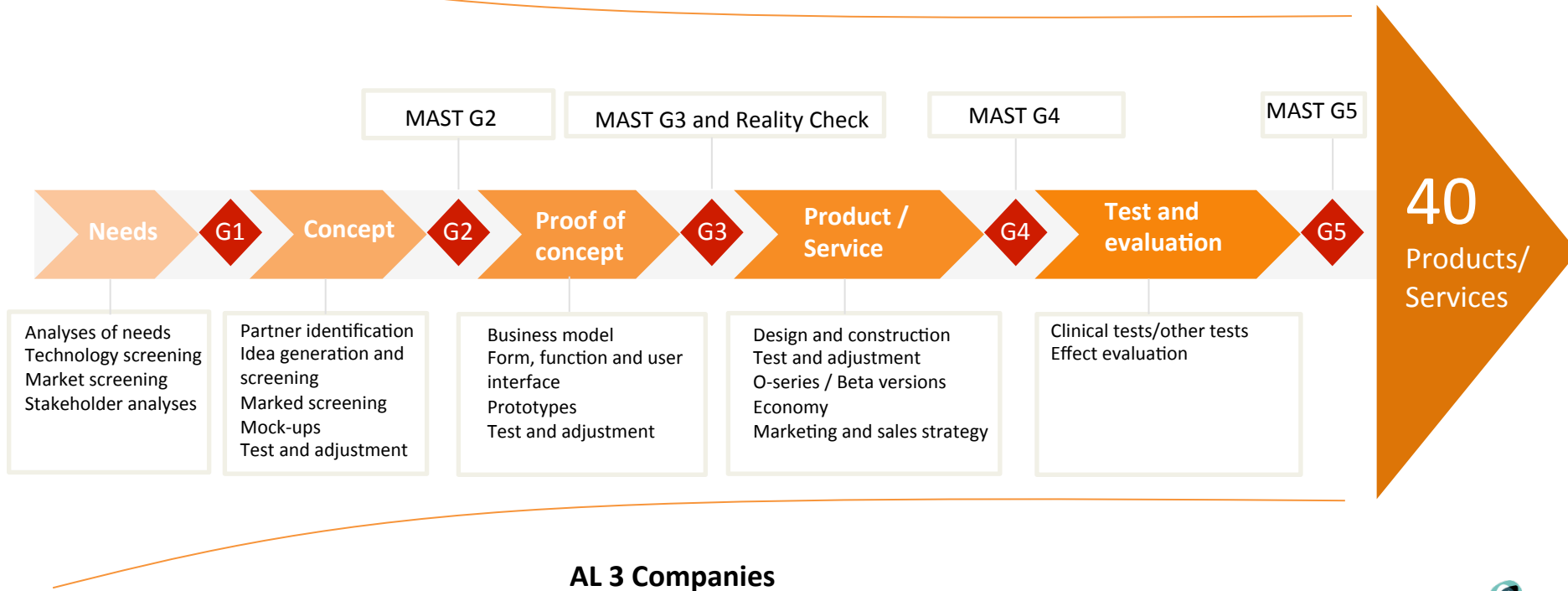
- Maersk McKinney Moller Institute
 - *`paralysis or stroke`*
 - *Training with robots*
- Technical University of Denmark
 - *`geriatric patients`*
 - *Fall prevention*
 - *Play ware*
- Sports Science and Clinical Biomechanics
 - *`cervical radiculopathy`*
 - *Interactive training using apps*
 - *Measure and monitor*



Innovation model

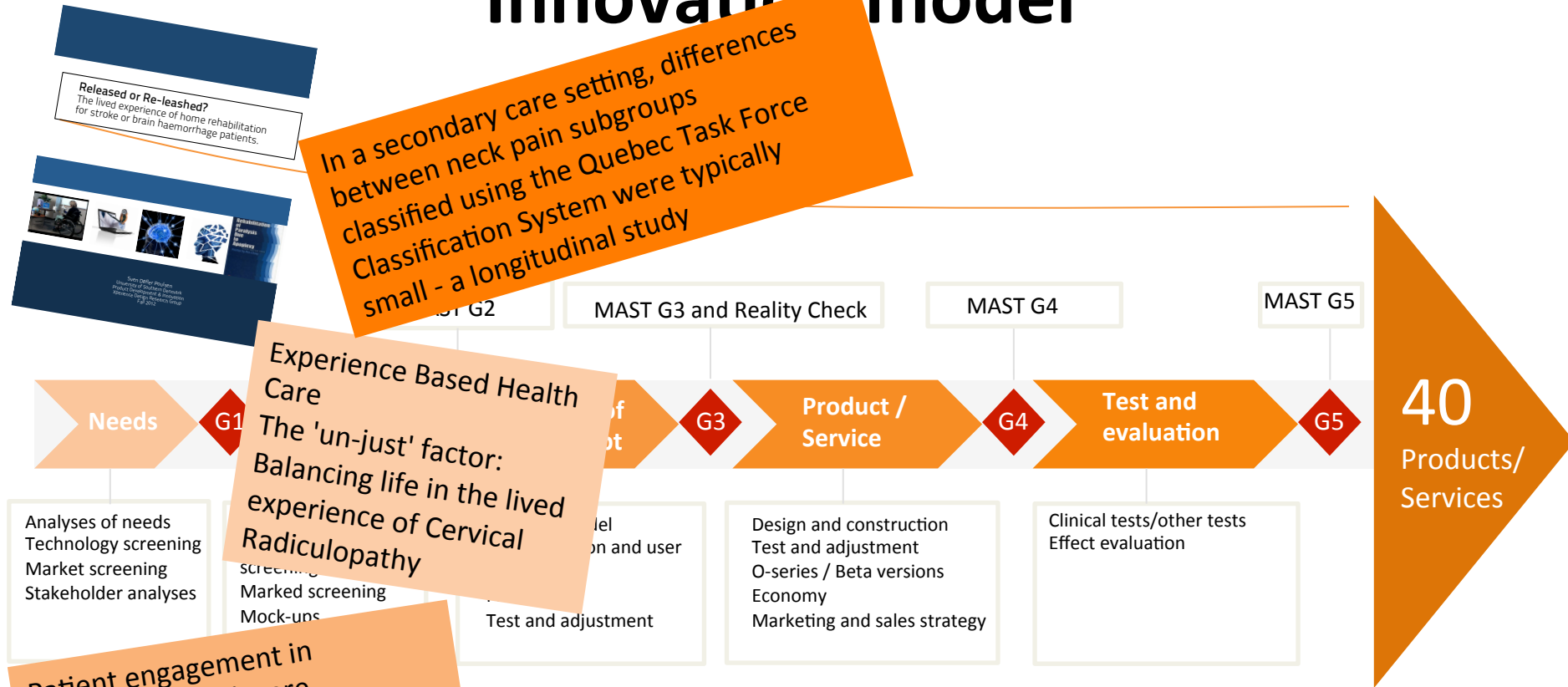
Innovation model

AL 1 Researchers



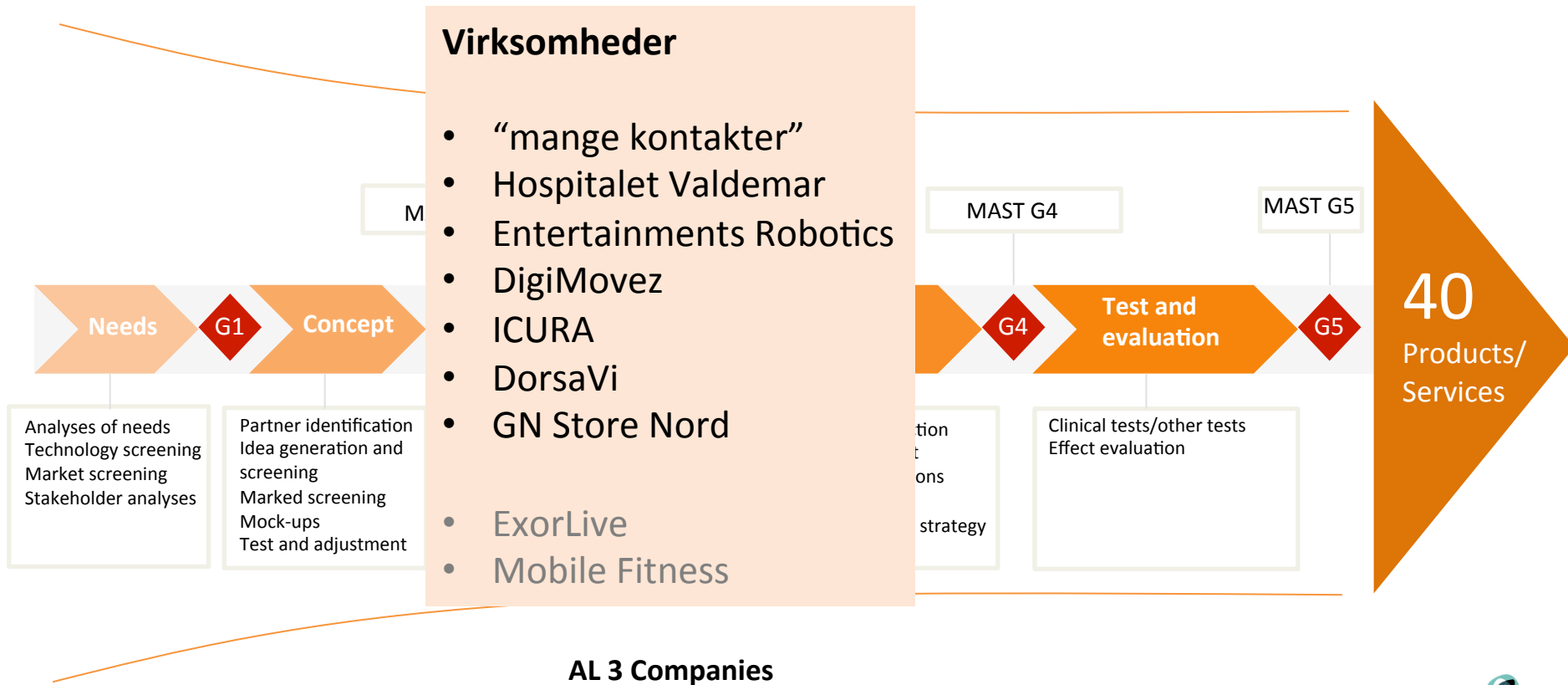
AL 3 Companies

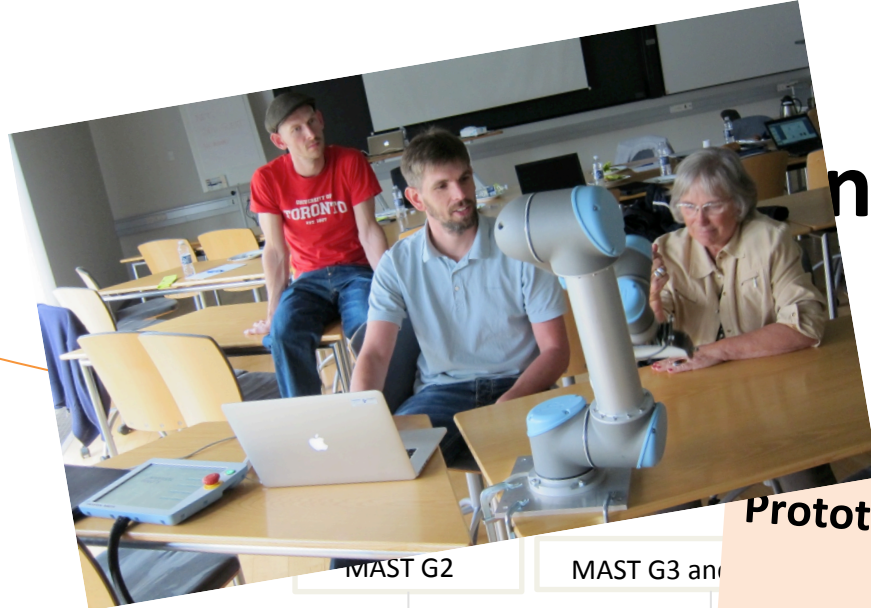
Innovation model



AL 3 Companies

Innovation model





MAST G2

MAST G3 and



Prototypes

- Sensorer til måling af bevægelser
- Test batteri for nakken
- Øvelsesprogram
- Interaktive apps til øvelser
- Apps til balance
- Tiles / spil til rehabilitering
- Robotter til træning

40

Products/
Services

Needs

G1

Concept

G2

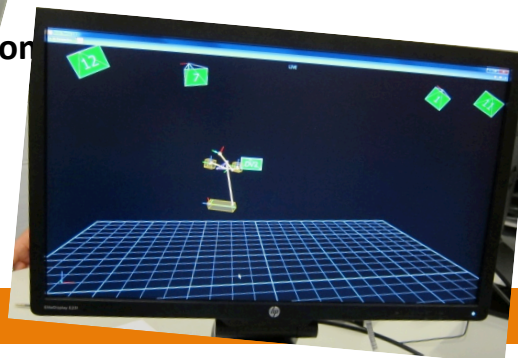
Proof of
concept

G3

Analyses of needs
Technology screening
Market screening
Stakeholder analyses

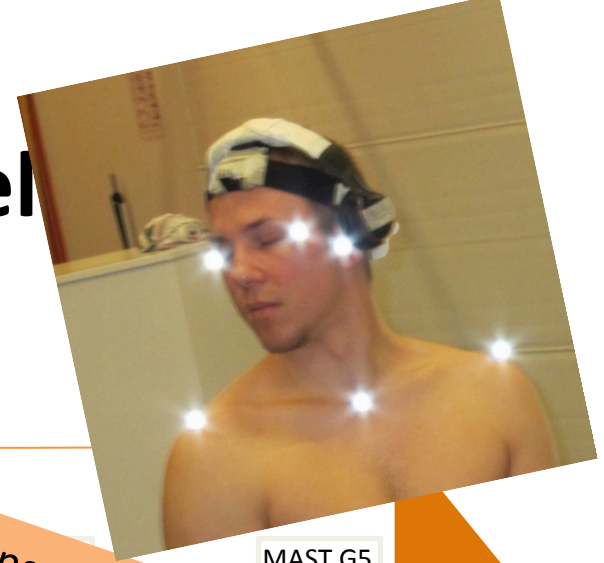
Partners

Business model
Innovation and user



Innovation model

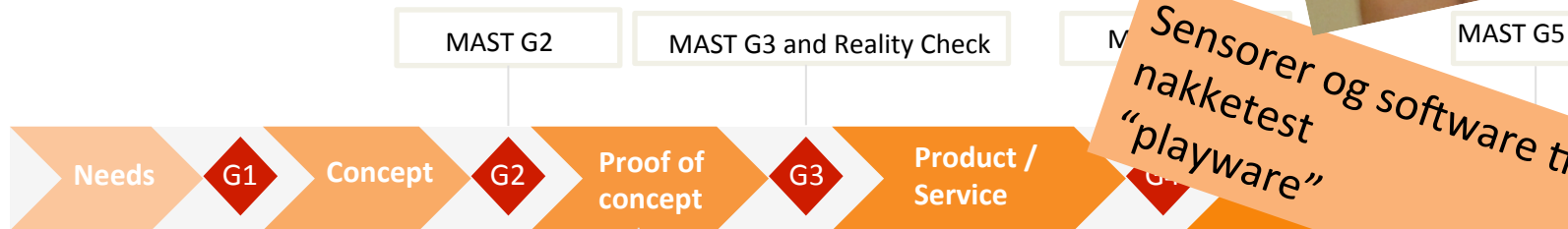
AL 1 Researchers



Sensorer og software til
"nakketest
playware"

40

Products/
Services



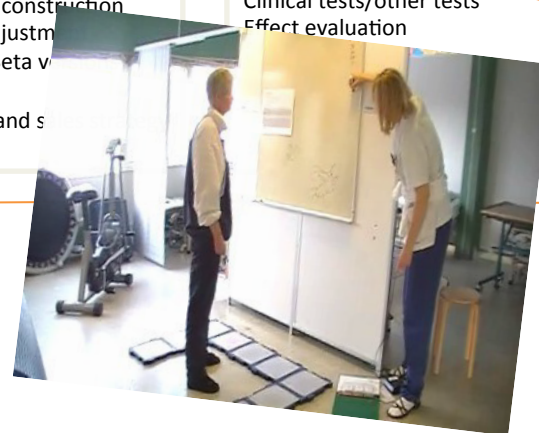
Analyses of needs
Technology screening
Market screening
Stakeholder analyses

Partner identification
Idea generation and
screening
Marked screening
Mock-ups
Test and adjustment

Business model
Form, function and user
interface
Prototypes
Test and adjustment

Design and construction
Test and adjustment
O-series / Beta version
Economy
Marketing and sales

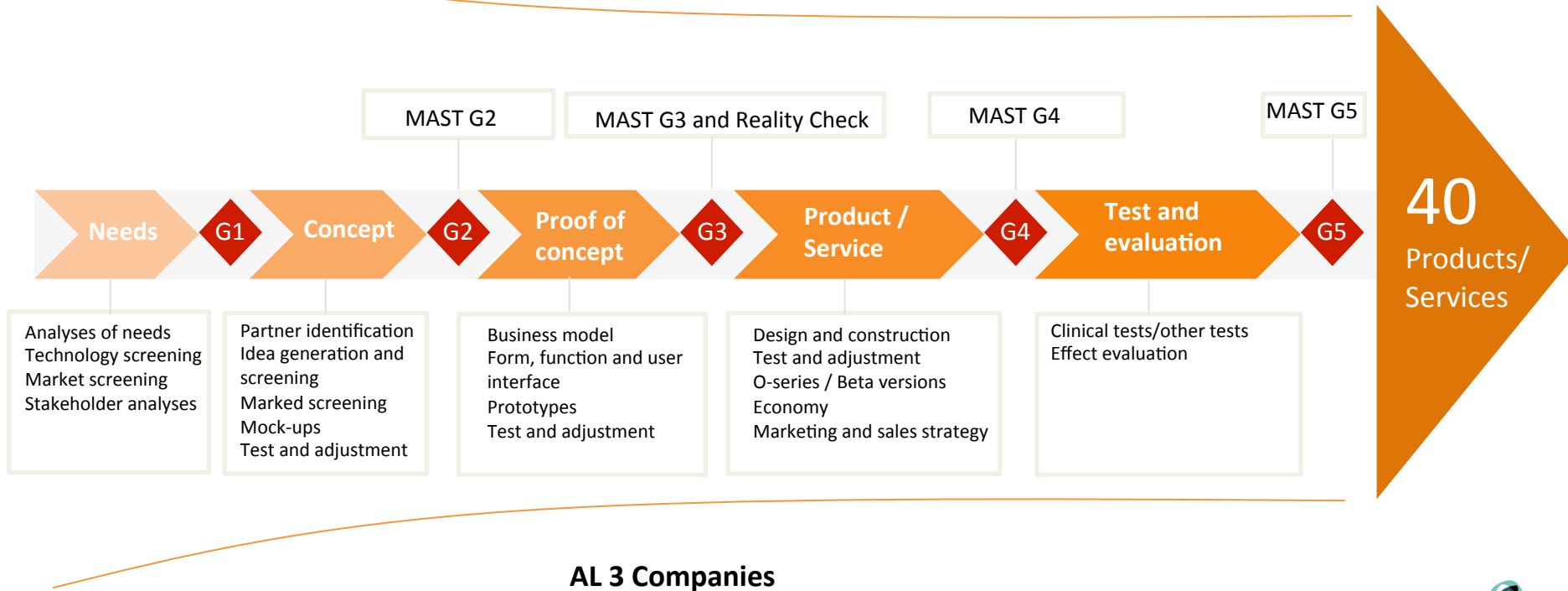
Clinical tests/other tests
Effect evaluation



AL 3 Companies

Innovation model

AL 1 Researchers



AL 3 Companies

Program

12.00 – 12.15 Velkommen og status WP1.1. Per Kjær

12.15 – 12.25 Måling af 3-D nakkebevægelser i rehabilitering. *Bue B Hesby*

12.25 – 12.35 ViMove trådløse sensorer måler lænderyggens bevægelser -og gør både patienter, behandlere og forskere klogere på hvordan vi bevæger os. *Hanne L Mjøsund*

12.35 – 12.45 ReHap: Hjemmetræning til patienter med diskusprolaps i nakken. *Hanne Rasmussen*

12.45 – 12.55 Legende træning til faldforebyggelse og genoptræning - effekter og økonomi. *Henrik Hautop Lund*

12.55 – 13.05 Legende hjemmetræning - et pilotstudium hos ældre borgere.

Jari Due Jessen

13.05 – 13.15 Affordable training robots. *Anders Stengaard Sørensen*

13.15 – 13.25 Universal Robotrainer og Headset trainer. *Jacob Nielsen*

13.25 – 13.35 Velfærdsteknologi set i et større perspektiv. *Gisela Sjøgaard*

13.35 – 15.30 Besøg på stande, match making og networking- Der serveres kaffe te og frugt-

15.30 – 16.00 Opsamling, nye partnerskaber, afrunding

God fornøjelse



Released or Re-leashed?

The lived experience of home rehabilitation for stroke or brain haemorrhage patients.

Experience Based Health Care

The 'un-just' factor: Balancing life in the lived experience of Cervical Radiculopathy



Rehabilitation
of
Paralysis
Due
to
Apoplexy

www.sctag.com
Written by Fan Chang

Sven Døfler Poulsen
University of Southern Denmark
Product Development & Innovation
Xperience Design Research Group
Fall 2012



Modular Interactive Tiles



patient@home

A decorative graphic on the right side of the slide consists of numerous orange house icons of various sizes and orientations, some overlapping each other, creating a cluster that resembles a map of a region or a collection of homes.

Development, test and validation of technologies to be used in exercise therapy for people with cervical radiculopathy

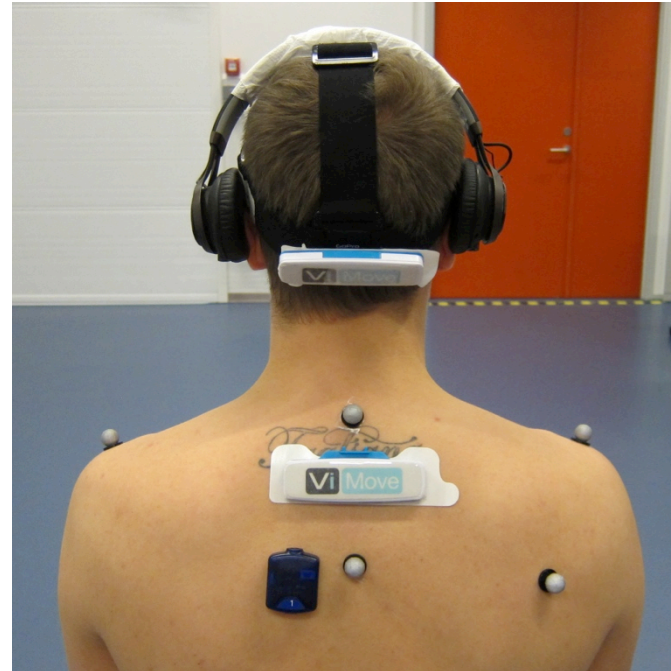
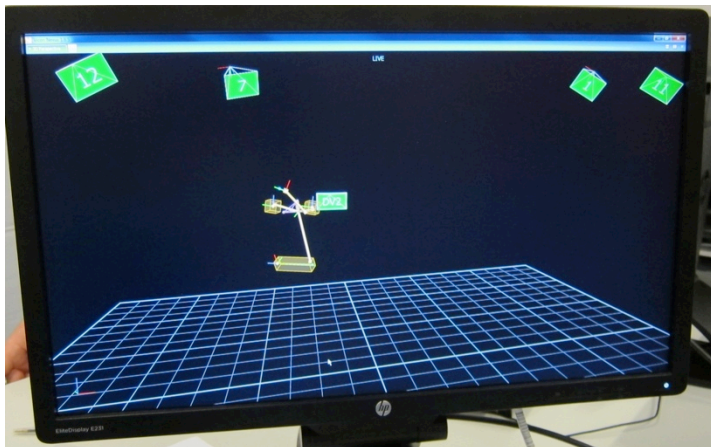
Bue Bonnerup Hesby, ph.d.-student, cand manu

Physiotherapist Universal Robot?



Examples of testing with Vicon and DorsaVi

- Motion sensors
- Vicon markers
- Specified movement



Technologies in play

- Sensors systems containing gyroscope, accelerometer and magnetic compass
- Infrared cameras for 3D capture of motion





