DISCOVERING MARKETS WITH THE HELP OF CITIZENS FRAUNHOFER'S PARTICIPATORY METHODOLOGY

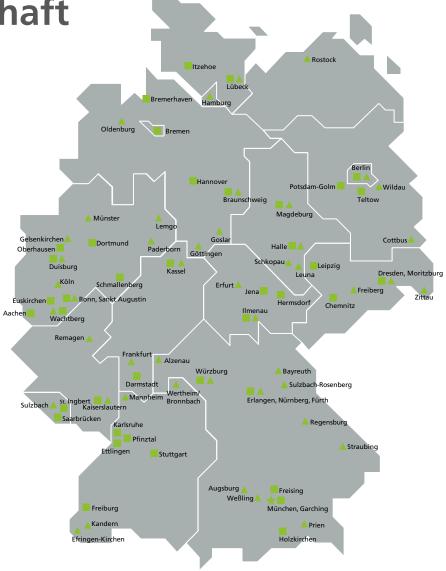
Martina Schraudner Fraunhofer-Gesellschaft

Gender Summit North-America Washington, November, 14th 2013



Die Fraunhofer-Gesellschaft Locations in Germany

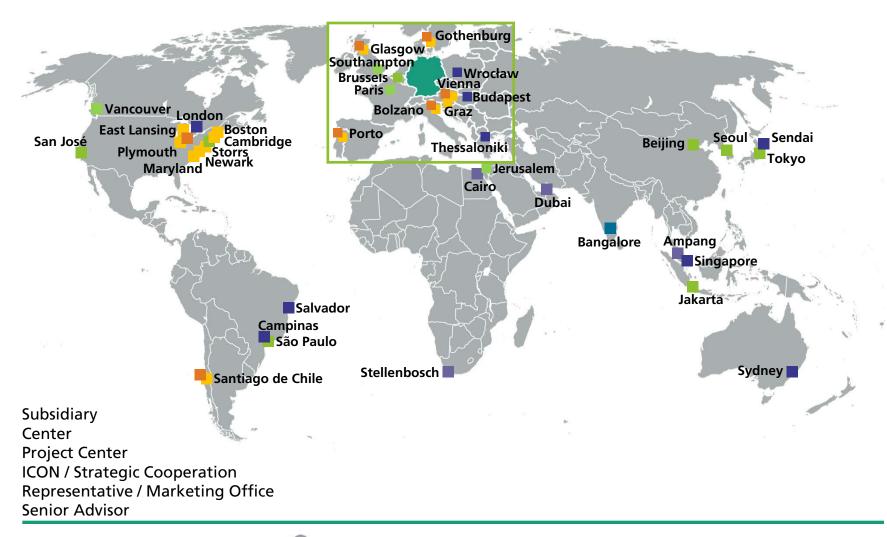
- 66 institutes and independent research units
- more than 22,000 staff
- 7 Alliances:
 - Information and Communication Technology
 - Life Sciences
 - Materials and Components
 - Microelectronics
 - Production
 - Surface Technology and Photonics
 - Defense and Security







Fraunhofer worldwide





Checklist: macro-method requirements for a responsible innovation process

Responsible Research and Innovation:

- include relevant societal groups
- ensure societal relevance, acceptability & ethical standards
- care for gender equality





The Discover Markets process addresses three stages of the traditional innovation process

MARKETS



- identifying
- exploring
- describing

IDEAS



- generating
- refining
- converting into specific projects
- → stakeholders
- professionals (diverse specializations)
- → prospective end-users

DEVELOPMENT



- establishing feasibility
- identifying specifics
- prototyping
- → engineers
- diverse other professionals

PROTOTYPE



- identifying application areas
- testing application areas
- determining specifics
- → stakeholders
- professionals (diverse specializations)
- → prospective end-users

BUSINESS MODEL



- marketing strategy
- financial plan
- partnerships
- → Fraunhofer Venture
- → start-ups
- → professionals (diverse specializations)

----- Discover Markets' approach







Discover Markets' methodology bases on three clearly separated steps

"Co-ideation" – generating ideas

participating "end-users" explore their needs and preferences in order to envision potential innovations – in egalitarian workshop settings – gender equality is ensured, if relevant;

2. Conditioning

specialists (not previously involved researchers and engineers) condition the produced ideas and make a preliminary evaluation of their potential;

3. Prototyping

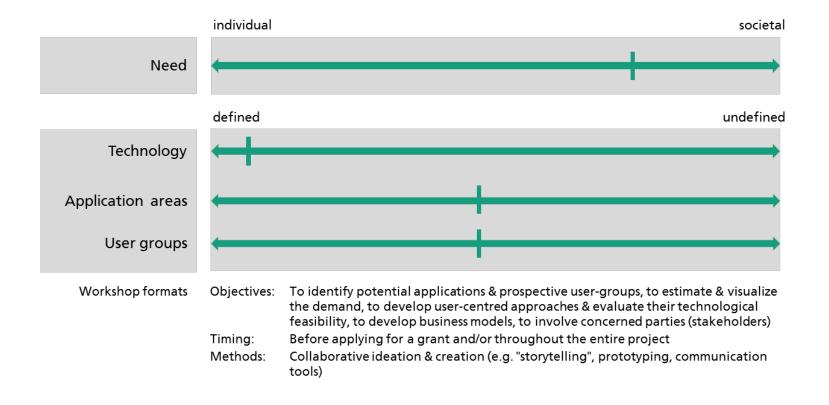
another group of specialists and "end-users" develop initial prototypes; the "end-users" test those mock-ups







The projects' three-step methodology bases on initial estimates on four categories

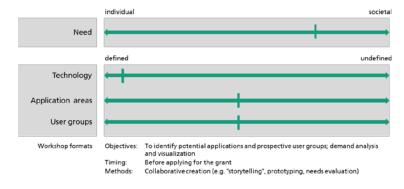






Case 1: CareJack seeks to explore user-needs to provide care-givers an intelligent orthosis

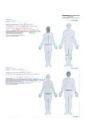
CareJack: Initial estimates











Purpose: Provide both physical support and ergonomic training on the job

Participants: Engineers, scientists, designers, "end-users" – male and female professional caregivers

Methodology: Storytelling, design prototyping, identifying needs

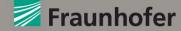
Results: Possible technological solutions and identified required further research & development







Case 1: Care Fraunhofer provide care



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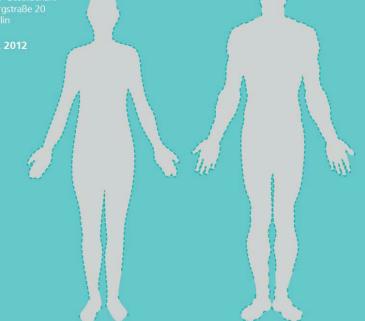
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CAREJACK-DOKU

Assistierte Pflege von morgen CareJack: Initial estimate

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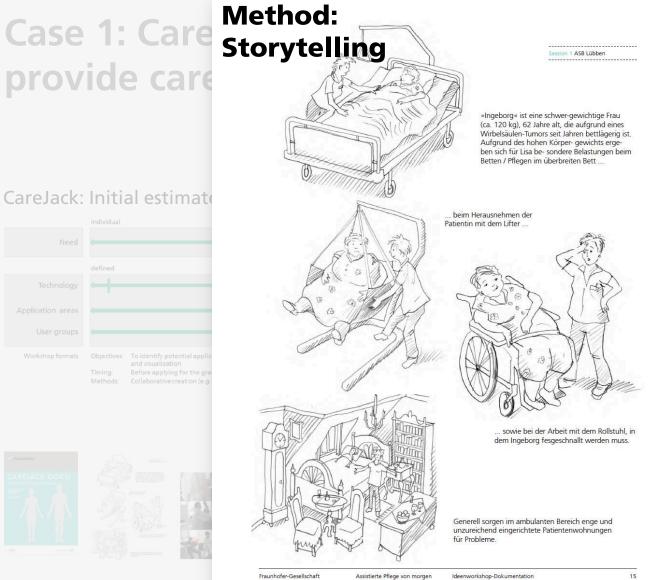
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CareJack: Initial estimate









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Discover Markets

CareJack



provide care

Case 1: Care Method: Design prototyping

CareJack: Initial estimate









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Assistierte Pflege von morgen CareJack

Ideenworkshop-Dokumentation

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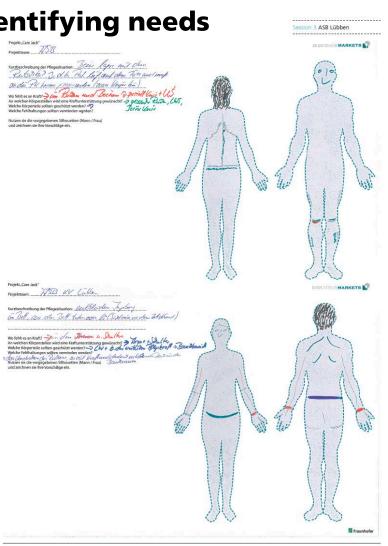
CareJack: Initial estimate







Case 1: Care Method: Identifying needs



Ideenworkshop-Dokumentation

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Discover Markets

Assistierte Pflege von morgen

CareJack



Discover Markets successfully integrates diverse user-perspective into the innovation process

- The developed methodology fosters user-directed innovation and is capable of integrating a wide variety of perspectives, both professional and from laypersons, from women and men
- CareJack and MyRehab exemplify the methodology and demonstrate the value of a participatory approach
- Directing the creative potential of individuals into innovation poses a particular challenge – but Discover Markets shows that there is a great potential to be captured
- Outlook: A qualitative evaluation is scheduled for 2013 / 2014





THANK YOU

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