SILVER
Supporting Independent Living for the Elderly through Robotics

The SILVER project

Supporting Independent LiVing for the Elderly through Robotics

Information day on PCP and PPI, Vienna 2014-03-17

SEVENTH FRAMEWORK PROGRAMME

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Content

- Example of “buyer’s group”
- Purpose
- Challenges
- Results (so far)
- Lessons

SILVER – what is it?

- SILVER = a development project
  - A **pre-commercial procurement** of new robotic solutions that assist the elderly in continuing living independent at home even with physical or cognitive disabilities.
- SILVER = an international consortia for performing the project
  - A **"buyer's group"**, consisting of providers of health care to the elderly in their homes, **and innovation actors**.
- Total budget for development contracts is 2.150.000 EUR, funded jointly by the buyer's group and by the EC Commission, FP7.
  - Planning and performing the PCP, as well as learning and dissemination (establish and execute an agreed PCP process for cross-border PCPs) is funded by the EC Commission, FP7.

SILVER Consortium

Innovation Organisations

- Technology Strategy Board (Coordinator) – United Kingdom
- Aalto University – Finland
- Brainport development NL – the Netherlands
- Forum Virium Helsinki – Finland
- Ministry of Health represented by NL Agency – the Netherlands
- Region of Southern Denmark
- VINNOVA - Sweden

Procuring authorities

- City of Eindhoven – the Netherlands
- City of Odense – Denmark
- City of Oulu – Finland
- City of Stockport – United Kingdom
- City of Vantaa – Finland
- City of Västerås – Sweden

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Purpose:
We are getting older, who will care for us?

- We are getting older, need for care increases
- Less younger people to work in care
- Less informal care givers
- And also: costs for healthcare are increasing every year

SILVER Challenge: Make elderly more self-reliant + less care from care givers

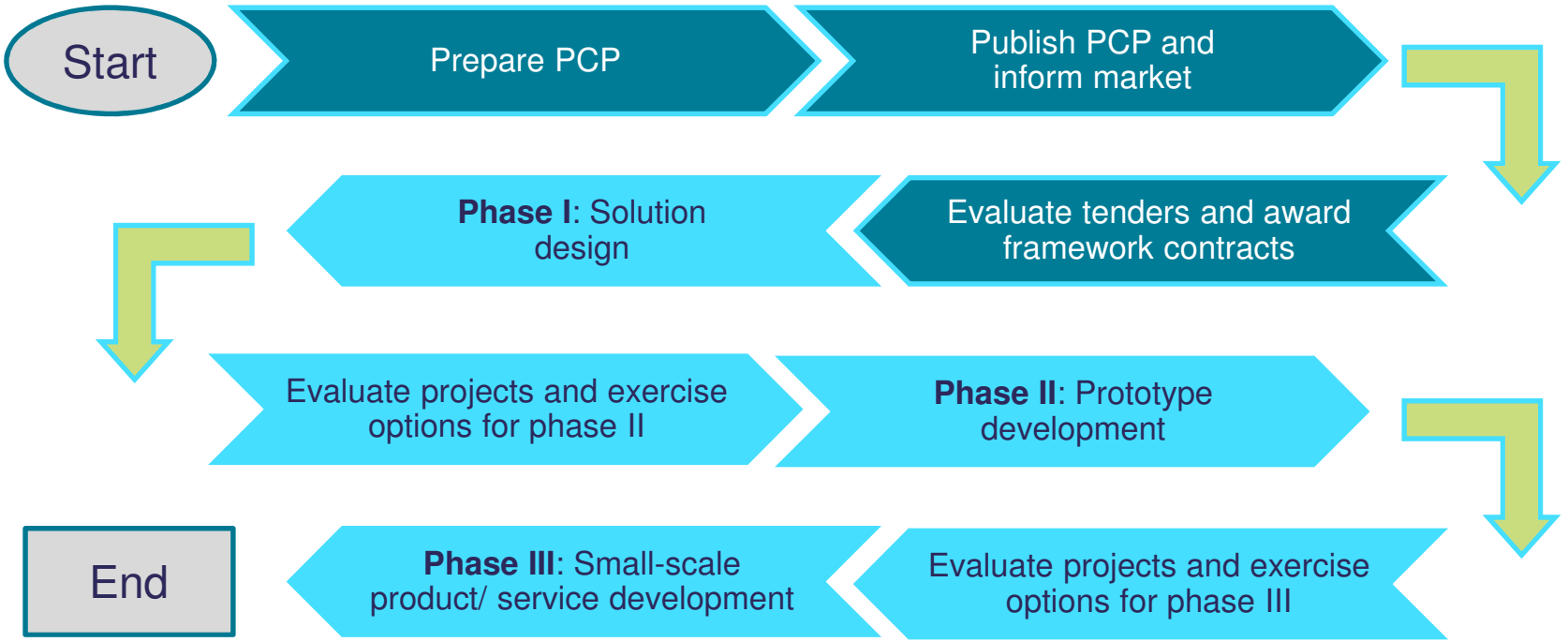
Possible to care for 10% more care recipients with the same amount of care givers by 2020.

Need for new robotics solutions that can take over all or part of the work of care givers.

These solutions should target assisting elderly and those caring for them with personal activities of daily living:

- *Personal hygiene and grooming*
- *Eating and drinking*
- *Functional transfers, etc.*

SILVER PCP Set-Up



SILVER PCP Time-line

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Results phase 1: 33 tenders, 7 winners

- **HelpingHand:** support users during toilet visits
- **Mealtime 360:** New type of eating assistive device to embrace a more complete process surrounding the mealtime situation
- **Iron Arm:** A light and ergonomic soft robotics device with idetection sensors and mechatronic actuators that can support personal activities of daily life for elderly users and collect data on their physical activities, allowing them to maintain muscle strength
- **LEGOROB:** a very affordable robot with limited complexity but able to perform various household tasks
- **Wearable Bionic Exoskeletons for Safe Ambulation** designed for elderly
- **Kompaï-P:** robot with an autonomous base platform, comprising of a cognitive assistance system and a medication management carousel system. Expansion modules can be added, such as the walking aid, position change assistance (standing, sitting) and handling systems.
- **DEXTERous Mobile Manipulator** a mobile sensor platform that is able to navigate inside an apartment and monitor clients in a non-invasive manner
- **Complete descriptions on** www.silverpcp.eu/silverproposal

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Lessons about transnational procurements

Advantages

- Learning from colleagues
- Larger budget
- More efficient use of public money
- EC funding possibilities

Challenges

- Language differences take time
- Getting on the same level of understanding needs and process
- Difficulties in comparing: e.g. comparing costs was not possible
- Travelling takes time (new ways of communicating via internet help a lot)

Follow the SILVER project

- SILVER website www.silverpcp.eu
- www.silverpcp.eu/registration
- www.silverpcp.eu/consortium

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