



Robotic Assistant for MCI patients at home

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The past, present and future of European
service robotics for eldercare and assisted living
ERF 2017 Workshop

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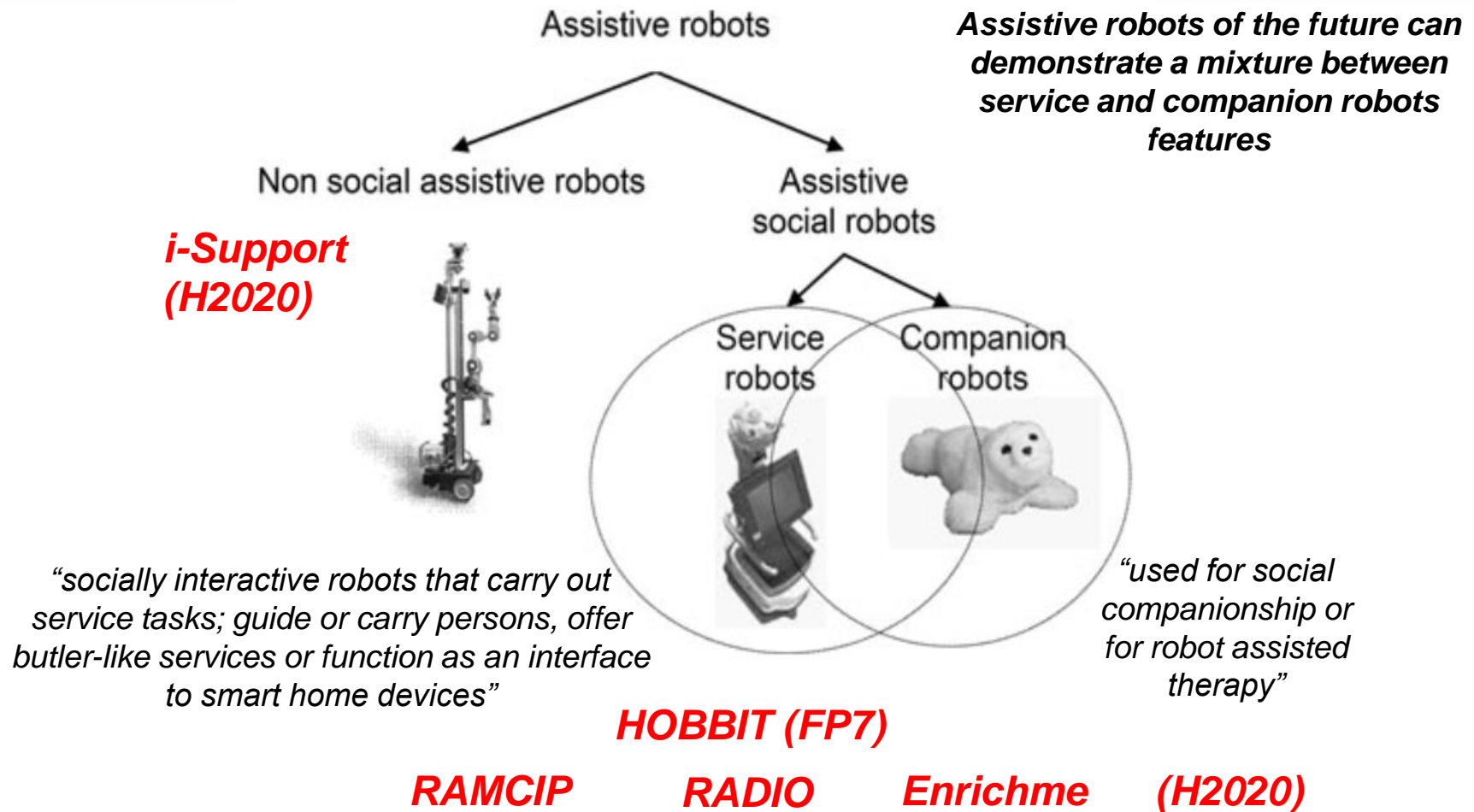
Workshop motivation and objective

The past, present and future of European service robotics for eldercare and assisted living

- Frailty and cognitive impairments put risks on older populations
- Ageing in place is key for prolonged active and healthy ageing
 - Challenge often difficult to meet
 - Needs supervision and assistance provision from formal or informal human caregiver in the older person's home, often on a constant basis
 - Domestic service robotics solutions could help alleviate this, relieving some of the caregiving burden
- Workshop aims:
 - To summarize key achievements of past and present EU research projects in service robotics for assisted living
 - To discuss on applications and key challenges
 - when service robots are to be applied in the real home environments of those in need

Assistive robots taxonomy

Key workshop participants



Categorization of robots in eldercare

Heerink, M., Kröse, B., Evers, V., & Wielinga, B. (2010). Assessing acceptance of assistive social agent technology by older adults: the almere model. *Int'l J. of social robotics*, 2(4), 361-375.

Workshop approach

- Short presentations by the organizers and invited speakers
 - Applications supported by service robots developed from past and present EU-funded projects
 - Key added value for the target end users
 - Key challenges encountered towards their use in the real practice
- End user and industrial perspectives
 - Key user needs and expectations and acceptability issues
 - Advanced products being developed by European robot companies within EU-funded research projects
 - with a view to better suit the needs of future practical applications

Workshop agenda

- 16:15 – 16:18: Introduction by the moderator - workshop scope and participants summary (Dimitrios Tzovaras)
- 16:18 – 16:54: Short (7-min) presentations related to past and present EU-funded research projects on service robots for assisted living
 - The FP7 HOBBIT project; key advances, applications and challenges (Markus Vincze)
 - The H2020 RAMCIP project; developing a service robot for MCI patients at home (Dimitrios Tzovaras)
 - The H2020 RADIO project; coupling service robots with smarthome infrastructures (Stasinios Konstantopoulos)
 - The H2020 Enrichme project; a mobile robot for elderly with MCI (Matteo Bonasso)
 - The H2020 I-Support project; developing a domestic service robot for bathing tasks (Cecilia Laschi)
- 16:54 – 17:02 Insights on end user needs, expectations and acceptability issues for service robots (Carla Abdelnour)
- 17:02 – 17:10 Development of advanced service robot products to better suit practical needs (Rich Walker)
- 17:10 – 17:40 Discussion/brainstorming session
- 17:40 – 17:45 Workshop conclusions and closure

Thank you



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