

A Music ePartner for People with Alzheimer's Disease

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- TNO – Perceptual & Cognitive Systems
- Human-agent-robot-teams
 - Team support
 - Shared situation awareness
 - Improve performance & resilience
 - Harmonize workload distribution
 - Support stress coping
- ePartners
 - Robotic / virtual assistants
 - Affective, cognitive, & social support
 - Improve health & wellbeing
 - Companion / coach / teacher
- Situated Cognitive Engineering (sCE) method



Who We Are

Dr. Marieke M.M. Peeters

- Human-agent collaboration
- Personal & long-lasting human-agent relations
- Equal, confidential, secure, trustworthy
- Agent technology
- Ontology engineering
- User modeling & personalization
- Methods (design science)
- Healthcare (esp. dementia care)

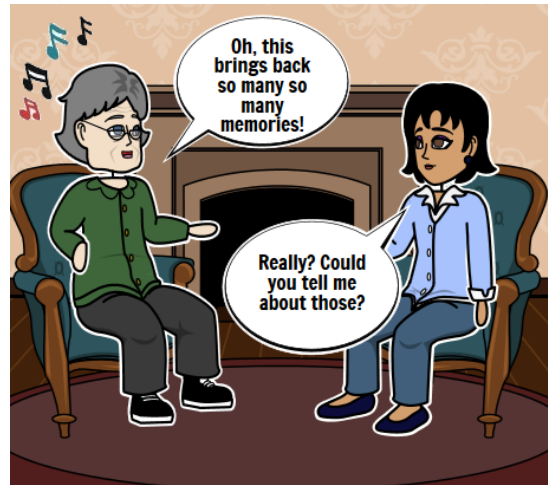


Stimulate physical activity

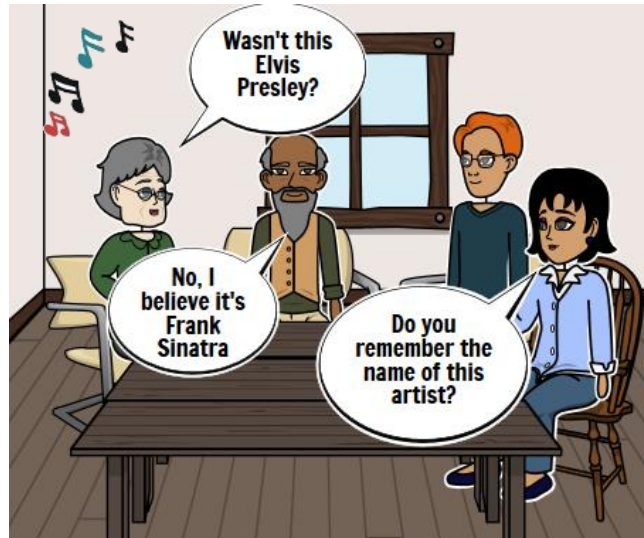
- Robot/avatar as musical ePartner
- Personal, trusted, & secure relationship, i.e. companion
- Spoken dialogue
- Joint music-related activities
- Alone, or with other patients, visitors, friends, and family
- Context sensitive – suggest suitable activity & music



Project idea



Stimulate reminiscence & self-disclosure



Stimulate cognitive activity



Improve mood, sense of security & self-esteem

Looking for

- Robot platform
- Virtual environment / avatar platform
- Content (i.e. music database)
- Care facility – to collaboratively develop and test technology
- (Wearable) sensor technology
- Graphical user interface designer
- NL processing knowledge / text mining