



Expression of interest in collaborating on Horizon Europe calls with external partners

On behalf of Dr. Roel Boumans of the Behavioural Science Institute of Radboud University, we would like to express interest to cooperate as a partner in the following areas of Horizon Europe. More information about researcher and institute can be found below. For questions or remarks, please email collaborate@ru.nl.

Horizon Europe calls and topics:

- HORIZON-HLTH-2021-DISEASE-04-04: Clinical validation of artificial intelligence solutions for treatment and care - Virtual or embodied agent, AI and dementia
- HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage: Trustworthy AI tools to predict the risk of chronic non-communicable diseases and/or their progression
- HORIZON-HLTH-2021-TOOL-06-03: Innovative tools for use and re-use of health data (in particular electronic health records and/or patient registries)

Cluster: 1. Health

Deadline: September 21, 2021 and February 6, 2022

Brief description of contribution as a partner:

HORIZON-HLTH-2021-DISEASE-04-04

HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage

- Leading a Work Package: subject: longitudinal monitoring of speech patterns among older adults using a virtual agent, to evaluate eventual progression of cognitive impairment
- Potential results to be delivered: virtual agent on computer platform, behaviour analysis
- Contribution to expected outcomes in the call text: use case and requirements analysis, design, implementation, test on user behaviour

HORIZON-HLTH-2021-TOOL-06-03:

- Leading a Work Package: subject: collecting patient data using a speaking virtual agent able of processing the patient responses into reports for joint treatment decision making by medical professional and patient
- Potential results to be delivered: virtual agent on computer platform, behaviour analysis



- Contribution to expected outcomes in the call text: use case and requirements analysis, design, implementation, test on user behaviour

Looking for:

- Partners and consortia working on machine learning, speech patterns, language modeling, electronic health recording.

Relevance of expertise/previous research: Dutch NWO research program An Understanding Virtual Coach for People with Amnesia (ends April 2022).

Dr. Roel Boumans, Msc:

Roel Boumans is attached as postdoc to the Communication & Media group of the Behavioural Science Institute. His research focuses on the use of intelligent virtual agents and social robots for older adults. He is currently developing an empathic virtual coach for people with amnesia. [More information](#).

Behavioural Science Institute:

The mission of the BSI is to conduct top level research on human behaviour. In addition to this fundamental aim ('to understand behaviour') we aim at societal relevance ('to influence behaviour'). BSI researchers investigate the nature and development of human behaviour. We study the ways in which human behaviour is influenced by

- (i) individual factors (cognitive, affective, motivational and psycho-physiological processes),
- (ii) social-contextual factors (home, school, peer group or work organisation), and
- (iii) the dynamic interplay between such individual and situational factors.

In addition, we study the reverse associations, that is, how human behaviour influences such individual factors and the social context. We study both normative behaviour and psychopathology. We conduct laboratory experiments and field studies, large scale longitudinal studies, and randomized controlled trials. Our studies include behavioural, self-report, psycho-physiological, neuroscience, genetic, and virtual reality measurement paradigms. [More information](#).

Radboud University:

The research at Radboud University is of a high academic quality and is characterised by integrity and academic freedom. Curiosity is the primary driver for our researchers. This is also true when the emphasis of their research is on its application to society.

Radboud University



We are a broad-based university with a dynamic range of research focuses. Our combination of academic disciplines provides opportunities for multidisciplinary and interdisciplinary research. Our research responds to the complex problems of today and tomorrow. [More information](#).

For more information or questions: collaborate@ru.nl.