

31. Trusted healthcare services

Although there is a great demand for ICT-supported health care services, both patients and professionals are only reluctantly stepping in. A main obstacle is trust. We develop a web-portal that enables the delivery of healthcare services while incorporating and evaluating new trust technologies. Examples of these trust technologies are: data reliability evaluation to support decision-making, transparency tools to show how data is handled, and data leakage and secure multiparty computation for keeping patient data confidential. Our trusted healthcare services will be used and evaluated in the daily care setting of the Rehabilitation Centre with COPD and post-cancer patients – a living lab setting – so not just an academic platform.



ICT science question

Which technologies can contribute to greater trust in the use of ICT-supported healthcare services? Can we demonstrate these technologies in a realistic setting? Can we develop a reliable trust measure for ICT-supported healthcare services?

Application

Our trusted healthcare services include traditional modules like treatment planning and information, communication facilities and links to the Electronic Health Record (EPD). But they also incorporate state-of-the-art treatment modules like web-based exercising and an Personalised Activity Coach. This ambulant coach uses streaming sensor data and adaptive personalized feedback to achieve a physically active lifestyle.

The platform is developed in strong collaboration with Roessingh Rehabilitation Centre, Roessingh Research and Development and with the IT-companies VitalHealth and JC Groep, so it is solidly grounded in the real health world with stable ICT technology, advanced treatment modules and a firm scientific basis.



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COMMIT/ project
TheCS Trusted Healthcare Services

Alternative Application

By the way we develop and test the platform, we are creating an excellent starting point for successful valorization. We aim first at the Dutch rehabilitation market. A second market involves the care institutes.

Nice to know

Roessingh Rehabilitation Centre is leading in the use of tele-rehabilitation services in the Netherlands and participates in several European projects to develop new services.

Quote

“Based on the gained experiences, we will be able to develop quickly a patient portal for the rehabilitation centres in the Netherlands” - JC Groep



Only when e-health services are fully trusted by healthcare organizations and citizens, they will be massively used, resulting in reduction of health care costs and significant business opportunities.



We develop trusted health care services in a living lab environment, meaning that new modules can easily be integrated and tested the next moment by users, providing fast feedback on your product.



We deliver trusted healthcare services – co-designed by healthcare professionals and patients – with basic and advanced treatment modules, embedded in a living lab environment in daily rehabilitation care.



We offer a flexible platform to investigate new technologies that contribute to greater trust, and demonstrate and validate these technologies in a realistic living lab setting.

