Welcome to SUITCEYES!

SUITCASE is a research project that brings together seven partners across Europe to focus on novel communication interfaces, mainly for people with deafblindness. Deafblindness is a combination of sight and hearing impairments and affects how people communicate, access information, and get around. Our project aims to develop a smart wearable prototype with a haptic interface that will assist people with deafblindness in the following respects:

- Extend the environmental perception and the spatial orientation of the user;
- Enlarge the communication space and facilitate exchange of semantic content;
- Enhance learning and the user's engagement by integrating gamification and mediated social interaction.

To produce a cutting edge solution that meets these needs, the project combines smart textiles, sensors, face and object recognition, semantic technologies, psychophysics, machine learning, and gamification. To ensure that the needs and wishes of the users are catered for, a user-centric and interactive process is adopted in which interviews and extensive feedback will be an integral part of the project.

The project is funded by the EU's Horizon 2020 programme.

Up until now

The SUITCEYES project kickoff (17-20 January 2018) started strongly with the Symposium: From Touch to Cognition. Around 50 people consisting of some project members, project advisors, and external interested parties attended the symposium.

Read about the kickoff »
Presentations from the kickoff on YouTube:
About haptic communication »
About challenges and solutions for children with deafblindness »

3 July The first peer-reviewed SUITCEYES paper was presented at the PETRA 2018 conference. The paper was titled: "Empowering Persons with Deafblindness: Designing an Intelligent Assistive Wearable in the SUITCEYES Project" and can be accessed freely. Read about the paper »
Free accsess to full paper »

10-11 July The second face-to-face meeting of the SUITCEYES project consortium was hosted by the University of Leeds, School of Civil Engineering. We used that opportunity to review our work so far and plan the next few months. Read about the meeting »

Read about all our events »
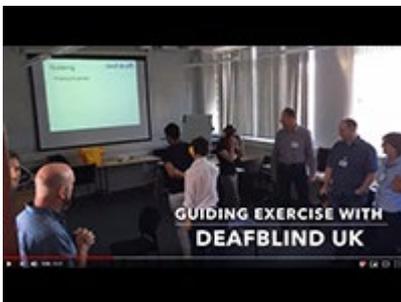
Guiding exercise with DeafblindUK

Graham Nolan from DeafblindUK took us on a theoretical and practical journey into the universe of deafblindness. Here we share a glance of the "guiding exercise" we conducted.

See the video »

SUITCEYES in media

See what press and media are reporting about the project.

See our publicity »

Example of object recognition

This video demonstrates detection and tracking of objects from a chest-mounted camera using an algorithm that combines a deep CNN detector and motion tracking in a unified system.

See the video »

📅 1-2 NOV

7th ICEVI European Conference on Psychology and Visual Impairment

Representation of SUITCEYES as a keynote speaker »

📅 30 JAN- 2 FEB 2019

ATIA 2019 conference

Where the Assistive Technology Community meets to network, learn, and share »

📅 11-15 MAR 2019

CSUN 2019 conference

Assistive Technology Conference »