

Strongly committed to providing innovative solutions to elderly, disabled and other vulnerable groups, TACTILAPTIC System has developed a new concept of **augmented skin**, protected by patents and unique know-how.

Using electrical properties of the human body, its device allows natural mechanoreceptors to control digital music.

After several years of applied research in the medico-social sector, disability and the dependent elderly, (700h) the proof of concept (POC) has allowed three main functions of the device to be defined:

- **Augmentative Alternative Communication:** Ranging from the smallest area of skin to the entire body, without any prior technique, the device allows people to communicate despite impaired cognitive or physical abilities.
- **Rehabilitation:** by means of proprioceptive mobilization, strength or the movement of weight is understood as variations, volume, and pitch of sound.
- **Relaxation & Well-being:** The dialogue between the body and the mind promotes sensory concentration, and helps patients escape from a sometimes painful everyday life.

In the same way as a Serious Game, the device mobilizes cognitive and physical abilities.

Particularly relevant for those treated at the Pitié Salpêtrière Hospital, the device will be deployed to patients and professionals, in the neurological diseases, psychiatric diseases or trauma departments, in partnership with Brain and Spin Institute, incubator iPEPS, and the LivingLab cLLAPS, .

The first study will focus on an Augmented and Alternative Communication system and will be carried out in the Pole of Nervous System Diseases, for the use of paramedical professionals and patients of SSR / LTC services and intensive care unit, the aim being to develop and subsequently offer a range of clinically-validated tools.

Beyond preventive objectives offered by Tactilaptic in terms of Public and Mental Health, the long-term aim is to find out whether this concept could offer therapeutic benefit for certain pathologies.

in a medical device (DM) perspective. Non-drug interventions for people with Alzheimer's and related diseases is an area of research being developed. The latest studies of the brain give increasing significance to these alternative or additive approaches. Incubation at ICM will make this research object available for future collaboration with scientific teams.