

ChroNoct

CHRONic Respiratory Disorder
Prediction and Management through
Contactless Remote **NOCT**urnal
Monitoring

www.sleepiz.com/chronoct



The global healthcare system is under immense pressure and the rising aging population adds to it. To minimise this added burden, a system needs to be in place that enables doctors to speed up their processes whilst enabling older individuals to stay healthy for longer.

Aim and expected impact

ChroNoct is a European research project aiming at minimizing the burden on the healthcare system by the development and cocreation of a platform that monitors vital health parameters at night, by using radar-based contactless and remote technology for the early prediction, management, and diagnosis of chronic respiratory disorders amongst older adults.



Core technology

The ChroNoct project revolves around an innovative device, Sleepiz One+, that measures key health parameters during sleep, by using low energy electromagnetic wave reflections, which can detect very small body movements:

- Breathing rate
- Heart rate
- Body motion
- Sleep Apnea
- Sleep/Wake
- Presence

The contactless device ensures no sleep disruption, provides insight into one's health status and enables remote health monitoring to make long-term assessments and predictions.



Further research and development

Further customisation of the device (including accessories and software) is required to integrate the product into the current healthcare system and to increase usability, adoptability and compliance.

Throughout the product development process, usability studies, surveys and interviews are conducted with potential end-users to gather feedback. Key users include older adults, caregivers and physicians. The end-user feedback will be used as input for developing product prototypes.

The project started in 2022 and has a duration of 24 months, after which the goal is to launch the device into the healthcare system.



Project Partners

The ChroNoct project is coordinated by [Sleepiz AG](#). Besides Sleepiz, the other project partners involved are:

- [In4care – Happy Aging](#)
- [terzStiftung](#)
- [Aalborg University](#)

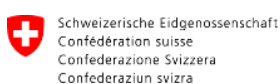
Together they bring in expertise in the field of radar technology, predictive algorithms, user-centred design/consumer-interest and digital health research.



AALBORG UNIVERSITET



The project is carried out under the AAL Programme, co-funded by the European Union and national funding authorities in Switzerland (Innosuisse), Belgium (Agentschap Innoveren & Ondernemen), and Denmark (Innovationsfonden).



Contact us for more information!

- Project contacts

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