

## Element 2.0

**ki**elements



## Digital Wellbeing



### DELTA App

Detects and diagnoses cognitive decline.

Reduces screening time by more than 50 %.

## Early Detection of Cognitive Disorders on the basis of Speech Analysis

ELEMENT is developing and certifying (CE, medical device Class I) Delta, an App that enables neuropsychologists to assess a person's cognitive state based on analysis of speech. Delta is a cockpit that digitises the complete cognitive test which results in faster, more cost-effective and earlier diagnosis and intervention.

Dementia is usually diagnosed through a series of tests and investigations that are time consuming, expensive and stressful. Only 50% of all cases of dementia in Europe are actually diagnosed which has significant implications for individual care management and the general healthcare system.

ELEMENT aims at fast, inexpensive screening methods, enabling early intervention to maintain a person's quality of life. The Delta App allows assessing peoples' cognitive ability based on speech analysis in a clinical supervised setting. Machine-trained algorithms indicate the risk for dementia, which can then be followed up by an expert's comprehensive assessment.



## Competitive Advantages

- Facilitation of light-touch screening for cognitive decline in clinical and non-clinical settings
- More comfortable and flexible usage without visiting professional physicians
- Faster, more cost-effective and better screening
- Reduction of overall costs associated with care management



## Target Markets

- One of the main use cases is the broad and lightweight screening of older persons in care settings, such as home care or nursing homes
- Customer segments are professional caregivers, general practitioners and specialists (neurologists, neuropsychologists, speech therapists), Pharma companies
- Target markets are France and German speaking markets (short-term), other European-speaking markets (intermediate-term)



## Status and Traction

- DFKI GmbH: coordination, technology maturation and business modelling
- ki elements UG (business champion and spin-off/subgrantee from DFKI GmbH): commercialisation of project results
- University Clinic of Saarland: clinical partner.
- INRIA, Nice: video analysis
- Innovation Alzheimer (sub-grantee of INRIA): clinical partner
- The certification process (CE Class I) for the Delta prototype developed in 2017 is designed and agreed
- The clinical evaluations in support of certification are starting in France (INRIA jointly with the Association Innovation Alzheimer) and Germany (University of Saarland)
- The business champion, ki elements UG, extended the marketing efforts from France to Germany and Switzerland



## Road Map

- The certification process (CE Class I) for the Delta prototype developed in 2017 is designed and agreed

### March 2018

- clinical trials start

### September 2018

- the certification-ready prototype is available; compliance with CE marking Class 1 declared

### September - October

- first commercial deals closed
- Several potential customers expressed the intention to purchase the Delta solution immediately upon the CE marking declaration



## Connect



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