DeepBreath

Intelligent feedback and training system for maximum vitality

The Project

Due to decreasing physical activity and too little strain, the musculature degenerates with increasing age. This also affects the respiratory muscles around the lungs. As a result, people lose their vitality. A huge portion of people has an insufficient physical activity and is affected. DeepBreath will offer a wearable for breath training. This consists of a sensitive and intelligent belt, a feedback and training app, as well as a community for sharing training successes and user experiences, for individual coaching and for offering seminars and breathing sessions. The target market is lifestyle products with wearable for self-tracking, self-optimization and preventive health. We use Fraunhofers shape-memory alloy strain sensors to realise the sensing of breath.

The Team

Location: Fraunhofer Institute for Machine Tools and Forming Technology IWU, Chemnitz

Members: **Thomas Mäder** (sensor development), Markus Wodarz (breathing trainer, therapist)

AHEAD Infos

Batch: 03 / 2023 **Phase:** 1 **Track:** Spin-Off

AHEAD

The Business Model

Unique Selling Proposition: precise & continuous measurement, design, breath training everywhere, intelligent impulses via AI, simple handling

Unfair Advantage: development advance and patent in shape-memory alloy strain sensors, team composition,

Revenue Model: sales, services, subscriptions

Venture Readiness Level

Technology Readiness Level

The Side Facts

Customer Focus: B2C

Searching For: co-founder, investors

Industry Tags: health care, travel & leisure, utilities, personal goods

Technology Tags: artificial intelligence, digital healthcare, internet of things, preventive healthcare, self-tracking, sensors, wearables technologies