

Click!

Prevent faulty plug connections by detecting their click sounds!

## The Project

During assembly of a car there are about 250 working steps in which plug connections need to be made. Missing or incorrectly made connections lead to rework costs of ~230 million € in German car factories, not even considering returning cars and regress costs, yet. Our intelligent acoustic monitoring system detects click sounds of plug connections to help to identify improperly set or forgotten plug connections and to automatically document the process. Besides the automotive industry and the German market, we want to target the whole manufacturing industry across Europe. We want to license click detection algorithms and want to provide customization as well as services around these algorithms.

## The Team

**Location:** Fraunhofer IDMT-HSA in Oldenburg

**Members:** **Danilo Hollosi (Lead)**, Christian Colmer (Marketing and Communication), Christoph Engel (Business), Martin Trochowski (R&D)

**AHEAD Infos** Batch: 09-2023 Phase: 1 Track: Licensing

## The Business Model

**Unique Selling Proposition:** Promising technology to achieve robust click detection in the field. There is no respective product in the market, yet.

**Unfair Advantage:** Algorithms working in very noisy conditions. Experience in the field. Data and methods. No competitor so far.

**Revenue Model:** algorithm licensing, consultancy, service

### Venture Readiness Level



### Technology Readiness Level



## The Side Facts

**Customer Focus:** B2B

**Searching For:** PoC partner, pilot customer (letter of intent), research partner (few-shot learning), mentors

**Industry Tags:** automobile & parts, industrial goods & service, personal and household goods, software & services

**Technology Tags:** artificial intelligence, machine learning, machine sensing, robotics, sensors, smart factory, wearables technologies