

Professionals Fit 2 Perform

Professional drivers, fitness tracking, vigilance

We monitor professional drivers, making their working lives healthier and safer, while also bringing benefits to their companies in terms of reduced fuel consumption and vehicle wear and tear.

Overview

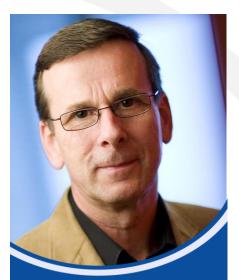
It's widely recognised that professional drivers often suffer from poor health, which can result in an increase in accidents.

Fit 2 Perform monitors the health of professional drivers through an innovative watch that monitors heart rate, skin conductivity and skin temperature. The physiological data from these watches is gathered in real-time through a combination of mobile devices using the Android operating system and back-end servers, before advanced algorithms are employed to transfer the data into fitness indicators (e.g. stress, tiredness and vigilance). This data is accessible by both the drivers and fleet managers, and can be used to ensure that drivers are in good health (reducing the chance of accidents and absenteeism), drive efficiently (reducing fuel consumption) and drive with care (reducing vehicle wear-and-tear).

Both real-time data and historic data are available and can be accessed simultaneously. We also have a strict driver privacy policy in place, along with strong security control mechanisms, to ensure the data is protected.

Market potential

Our end-to-end solution is ideal for professionals working in environments where fitness is key to their performance and safety. It also helps fleet owners to improve their total cost of ownership through reduced fuel consumption, vehicle wear-and-tear and absenteeism.



Key facts Project started: 2014 KIC: EIT Digital Theme: Driver wellbeing, road safety and driving efficiency No. of partners: 8



EIT Digital support

EIT Digital helped us to bring together the right mix of partners, including technological, service and academic organisations. The KIC also accommodated us at two of their Co-location Centres (London and Eindhoven), allowing us to work efficiently together, and provided funding and business development support.

Societal impact

Our product will help to improve road safety, as well as the health and wellbeing of professional drivers, taking steps towards an overall healthier and safer society. Fit 2 Perform will help professional drivers to increase awareness of their fitness and health, and support the development of new coaching and monitoring solutions.

Achievements so far...

- Developed initial algorithms for transforming fitness indicators from sensor data
- Developed reference implementation of the enabling ICT infrastructure
- Designed wearable watch with integrated Optical Heart Rate (OHR), Skin Conductivity (SC) and skin temperature sensors



Teamwork

Our partners are Astrata, Bittium, DFKI, Imperial College London, Philips, TNO (the Netherlands Organisation for Applied Scientific Research), the Technical University of Eindhoven and University College London.

We have fixed weekly days where we all come together to work on the allocated activity at the EIT Digital Co-location Centres in Eindhoven or London. Working together in this way has proved to work very well as short lines of communication between the partners and EIT Digital enables decisions to be made and issues to be resolved quickly.



An EIT Digital Initiative

More information

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https://www.eitdigital.eu/innovation-entrepreneurship/health-andwellbeing/business-community-2016/fit-to-perform/











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