



# Driver Sensing and the Intelligent Co-Pilot

Sensing and understanding driver performance, engagement and satisfaction

## Overview

We have designed an in-car sensor-fusion network and a socio-technical model linking driver conditions, context and the interpretation of the driver's need. Our Intelligent Co-Pilot senses the driver's physiological and psychological states, relative to their driving task and context, in order to assess whether the driver is attentive and capable of safely controlling of the vehicle.

This technology can give drivers with additional needs the confidence to continue to enjoy driving knowing that the car's co-pilot will intervene if help is needed. This will improve road safety, and driver and passenger confidence.

## Advantages

- Designed to address all conditions (medical conditions, medications, substances, psychological states) significantly associated with increased accident risk
- Intelligent and interactive co-pilot to gather and interpret data
- In-case diagnostic sensor network to estimate driver's physical and psychological state
- Use of AI to assess driver conditions

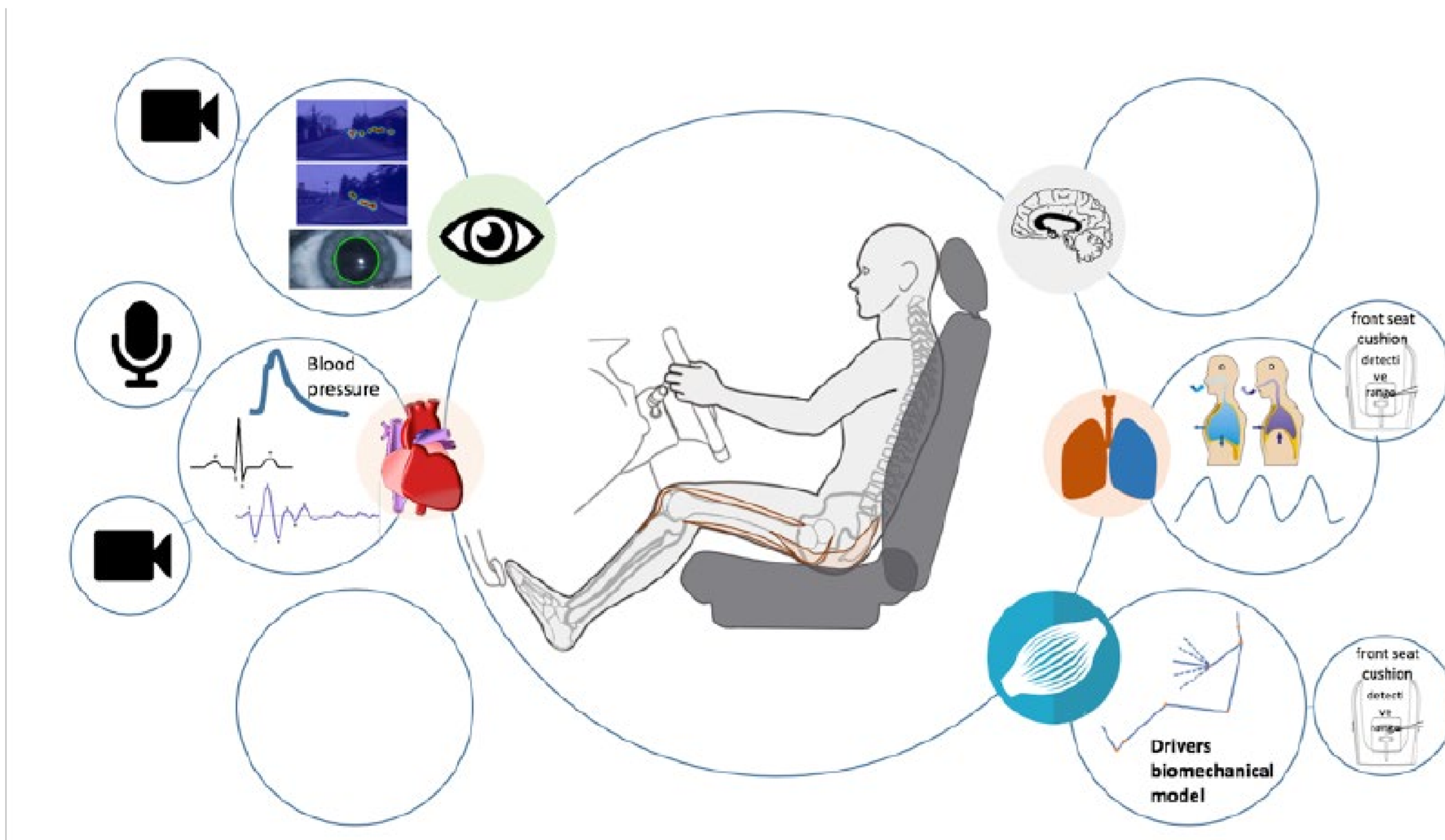
## Applications

- Insurance technology
- Health monitoring
- Car hire
- Drivers with additional needs



## Technology Status

Available for customisation and licensing



Reduced Sensor Set Overview

**Technology Sector**  
ICT | AI | Sensors | IoT

**Opportunity**  
Research collaboration  
Available to License

**Researcher(s)**  
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