

Who we are?

WavBrain is a spin-off start-up of the university of Toulouse.

WavBrain industrializes research work in Artificial Intelligence carried out within Toulouse INP.

WavBrain takes advantage from the support of Toulouse Tech Transfer since the technology entered pre-maturation in 2020.



TOULOUSE



HypoEEG

- Real time detection of drowsiness using mono-signal EEG sensor.
- Less than 1% of non-detection error.
- WavBrain HypoEEg: the result of three technological advances:
 - The miniaturization of EEG brain wave sensors.
 - Real time analysis of brain signals (one sensor) using AI.
 - Al algorithms embedded on the sensor.
- Fully embedded drowsiness detection system
- No need for server connexion: GDPR conformity.
- Visual, sonor or vibration alarm:
 - · 2 states: drowsy or awake
 - 3 levels: low, medium or high risk (over time)



- Unique calibration per user.
- Light and fully embedded system that can easily be integrated into glasses, headsets,....
- · No need for specific infrastructure or central connexion.
- Secure, customizable, efficient... closer to the source of the problem.

Study

- 60 subjects
- Age: 18 to 25 (median age: 21)
- 78% F, 22% M
- 2 acquisitions per subject: 9AM et 6MP
- No sleep trubles
- Karolinska Drowsiness Test (EEG data)
- Single calibration at 9AM



