Voicewise

Voice-based Inebriation Detection for Automotive Alcolock

- The project
- Demo

DEMO

F. Pellini
V. Cesarini
CTO

Vocal Alcolock

- ✓ The Vocal Alcolock will be a **low-cost, efficient alternative to the breathalyzer**
- ✓ It is based on **identifying the driver's state of inebriation through his/her voice**
- ✓ It can be implemented with **in-built car microphones**
- ✓ It cointains **Identity Verification** through Speaker Recognition, which acts as a safety measure to ensure the veridicity of the test
- ✓ The detection technology is Voicewise's proprietary AI algorithm, which can be envisioned working «a-priori», without having a driver profile, or specific to identify each person's vocal variations

DEMO

- ✓ **Pre-recorded vocal samples** of people in sober or inebriated state uttering specific vocal tasks
- ✓ The demo involves submitting vocal samples manually to our algorithms to prove their working principles and preliminary effectiveness
- ✓ The vocal samples are NOT part of the training set of the algorithms and **have never been evaluated** by it

DEMO

- ✓ Involves Italian-native participants
- ✓ Subjects should be evaluated in a **sober and/or inebriated state** (>0.05% BAC): the participants of the DEMO must drink up to a 0.44 liter can of beer
- ✓ A subject records his voice (in the case of inebriated subjects, 20+ mins must be waited after the last drink) and receives his real-time result regarding its state
- ✓ The result is compared to a classic breathalyzer
- ✓ As a prototype, the aim of the demo is to show the workflow and demonstrate the feasibility

Thank you

Contacts

www.voicewise.it

Simone Fiore Miraglia – CEO – simone.miraglia@voicewise.it

Valerio Cesarini – CTO – valerio.cesarini@voicewise.it

Fabio Pellini – CIO – fabio.pellini@voicewise.it

Maria Tavasci – Business Development – maria.tavasci@voicewise.it