

Drowsiness monitoring: A matter of life & death !

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Frightening situation !

- 20-30% of road accidents are due to drowsiness !
- 6-11% of population suffer from Excessive Daytime Sleepiness !



Source: <http://www.lejdd.fr>



Source: <http://devenirroutier.centerblog.net>

What cues do drowsiness monitoring systems use ?

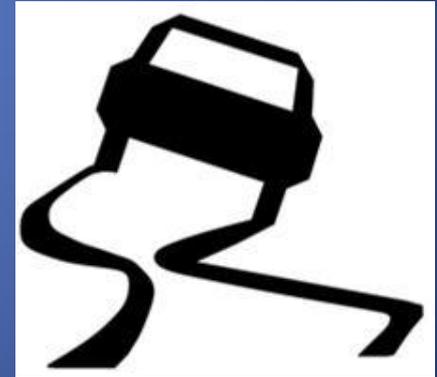
**State of
the driver**



**Behavior of
the driver**



**Behavior of
the vehicle**



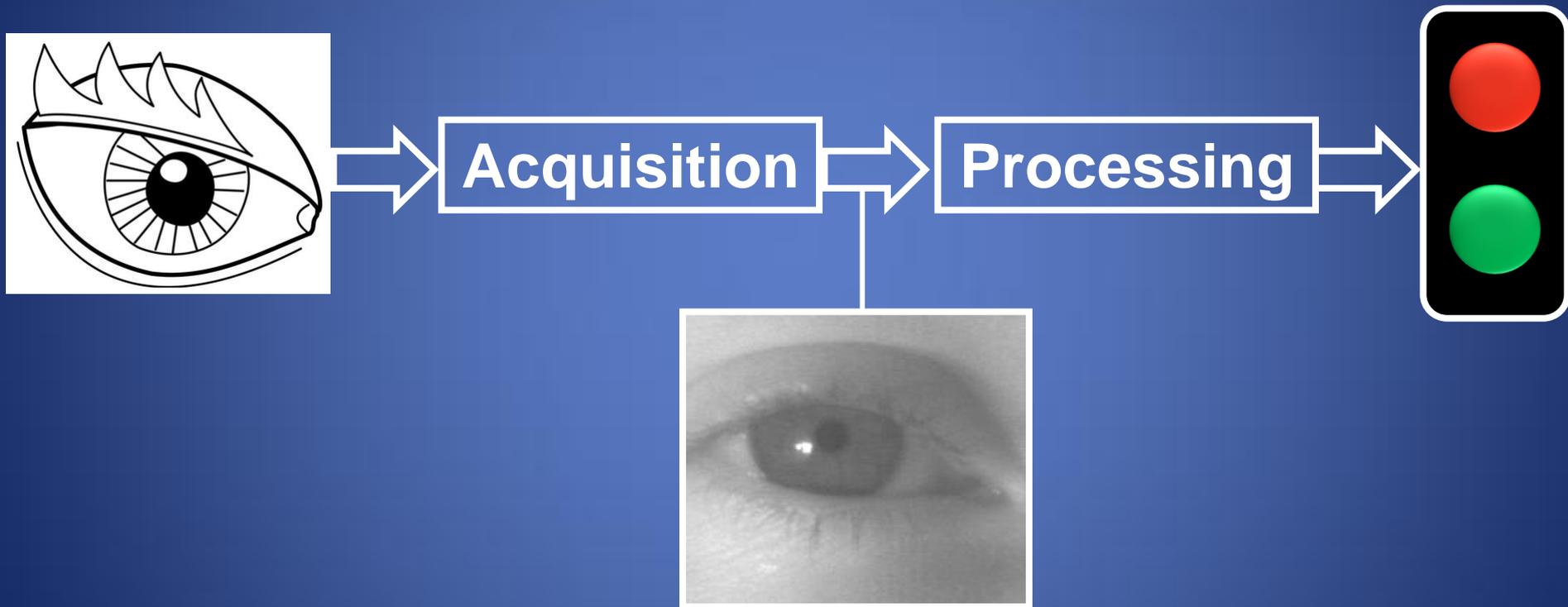
What is the best approach ?

**State of
the driver**

**Behavior of
the driver**

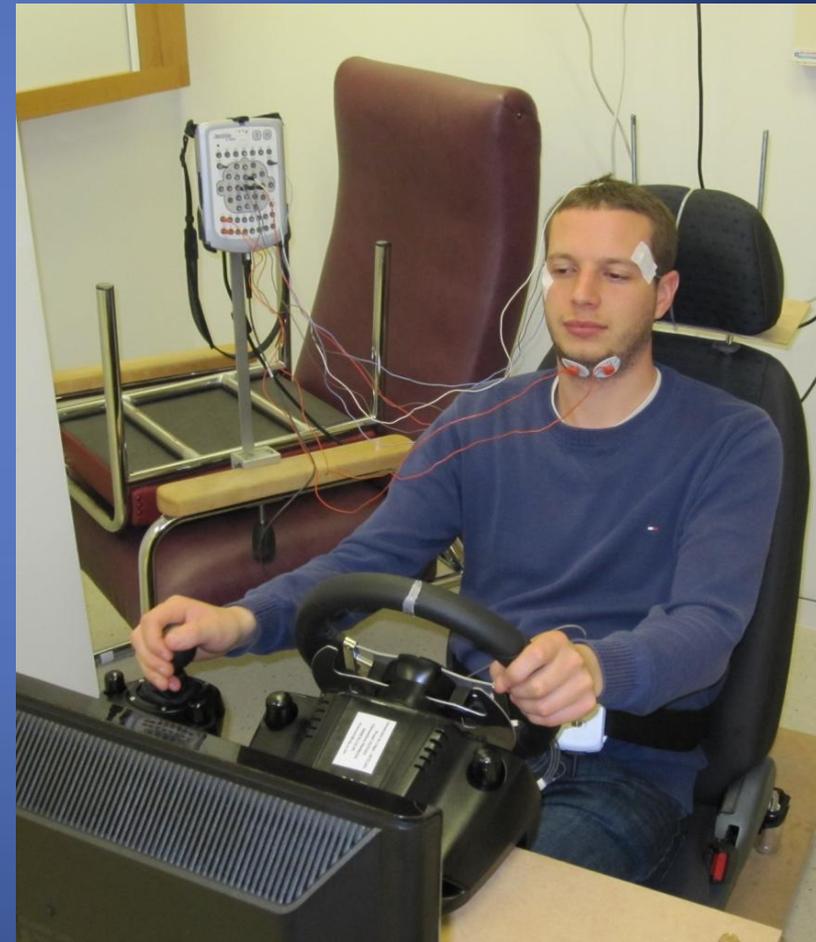
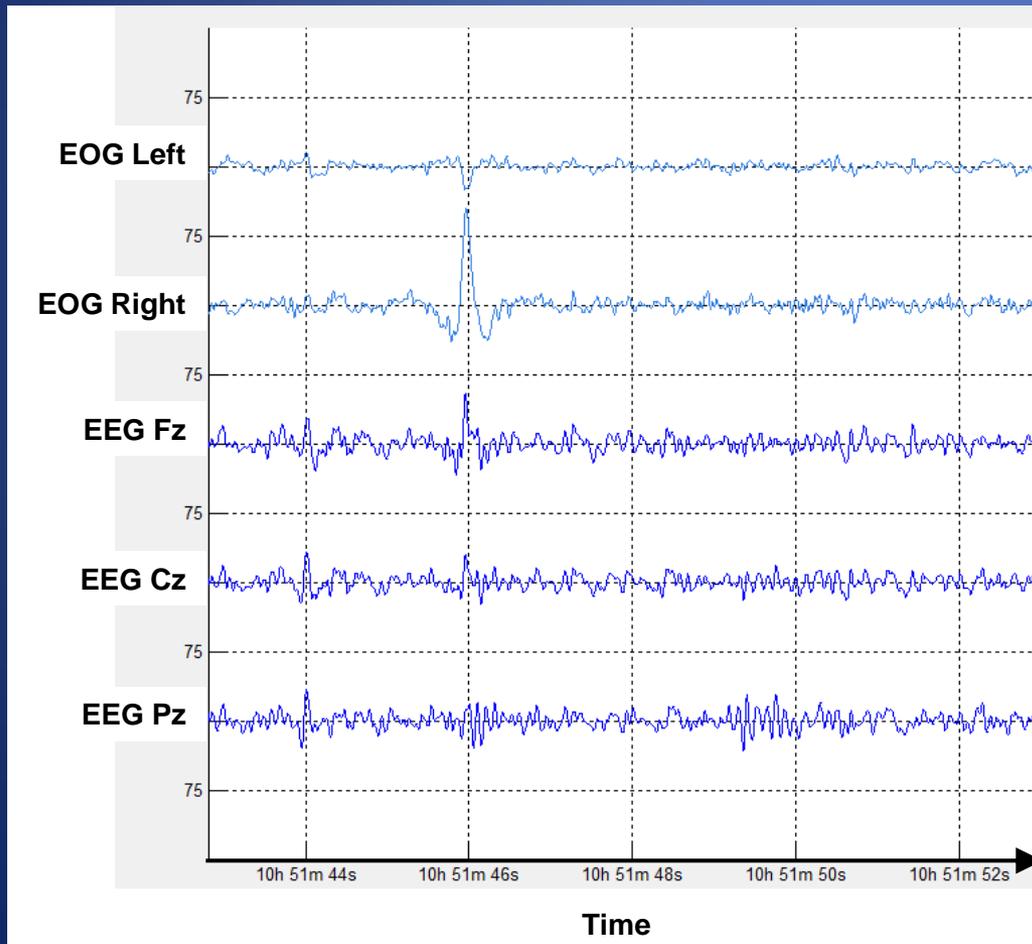
**Behavior of
the vehicle**

Our solution



How to validate ?

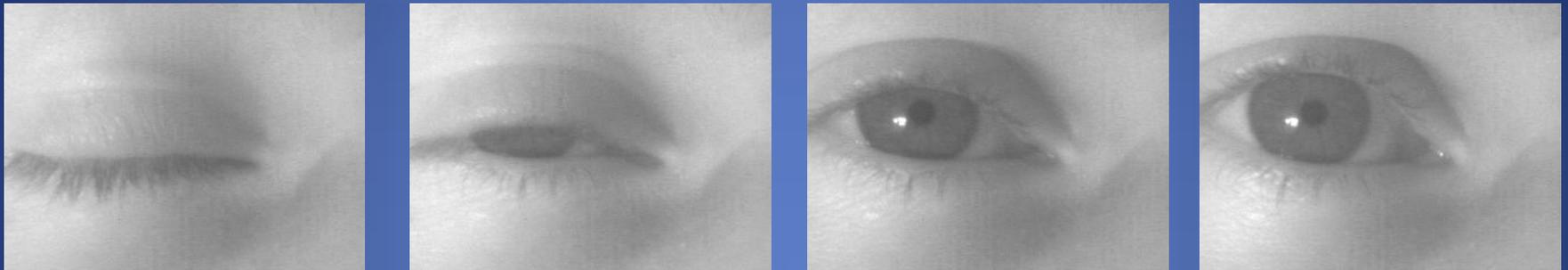
Polysomnographic signals = "Gold standard"



Bottom line

- **University of Liège is active in drowsiness research**
- **Opportunities for joint projects**

DRIVE HOME SAFELY !



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