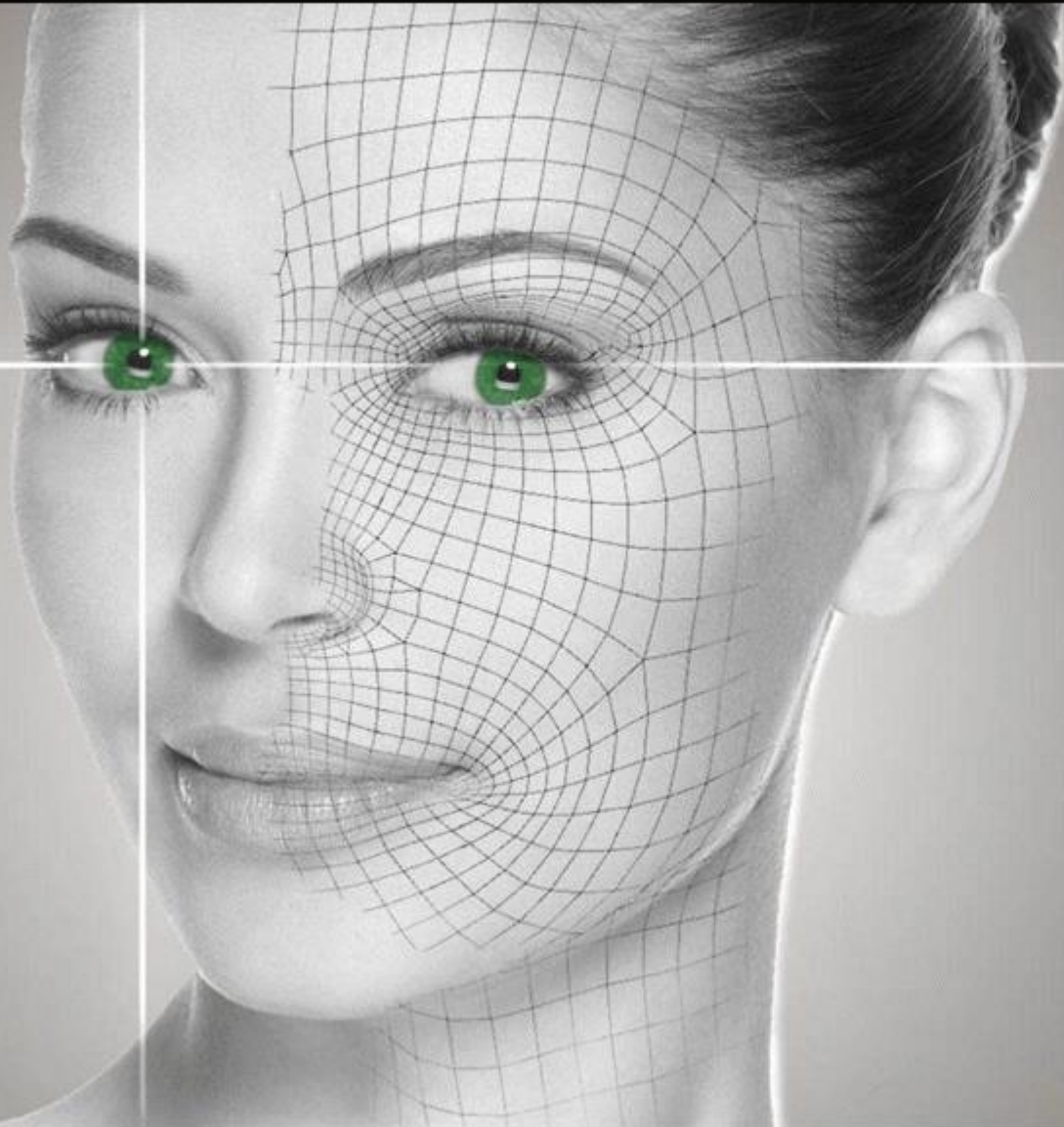


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111111111100011111  
001110010111110001  
100011110010011111  
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100100001000111101  
101101101001000111  
001111110011100010



The future through your eyes



Luc DOERENBECHER  
CEO



DSC 2024 EUROPE VR



Our Job: **designer of advanced and innovative solutions for Eye Tracking technologies.**



For What : **for simulation and real-life driving situations.**



Our Mission: **safety improvement and better connect people to their environment**



PERTECH SOLUTIONS

Our technology



1

Solution dedicated to simulation and real driving situation

360

degree of mobility

20

years of experience

0,25

degree of accuracy

60

grams of remote technology

2004

1<sup>st</sup> development for RENAULT

0

corneal reflection (without IR)

350

Up to eye information per second



PERTECH SOLUTIONS

Our expertise : Eye tracking for connecting driver to their environment



BECAUSE  
90 %  
of the information  
used are  
VISUAL



Solutions designed for simulation  
and real-life situations

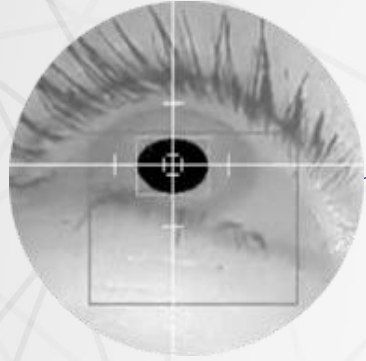
In the automotive and aeronautics fields



01/10/2021 - TS 11:49:21:029 - TC 00:00:21:018



Gaze



Eye Detection  
Eye Movements  
Saccades



Blinks



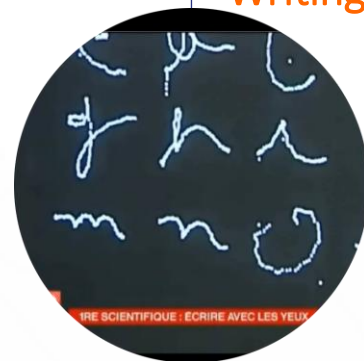
Eye  
Identification



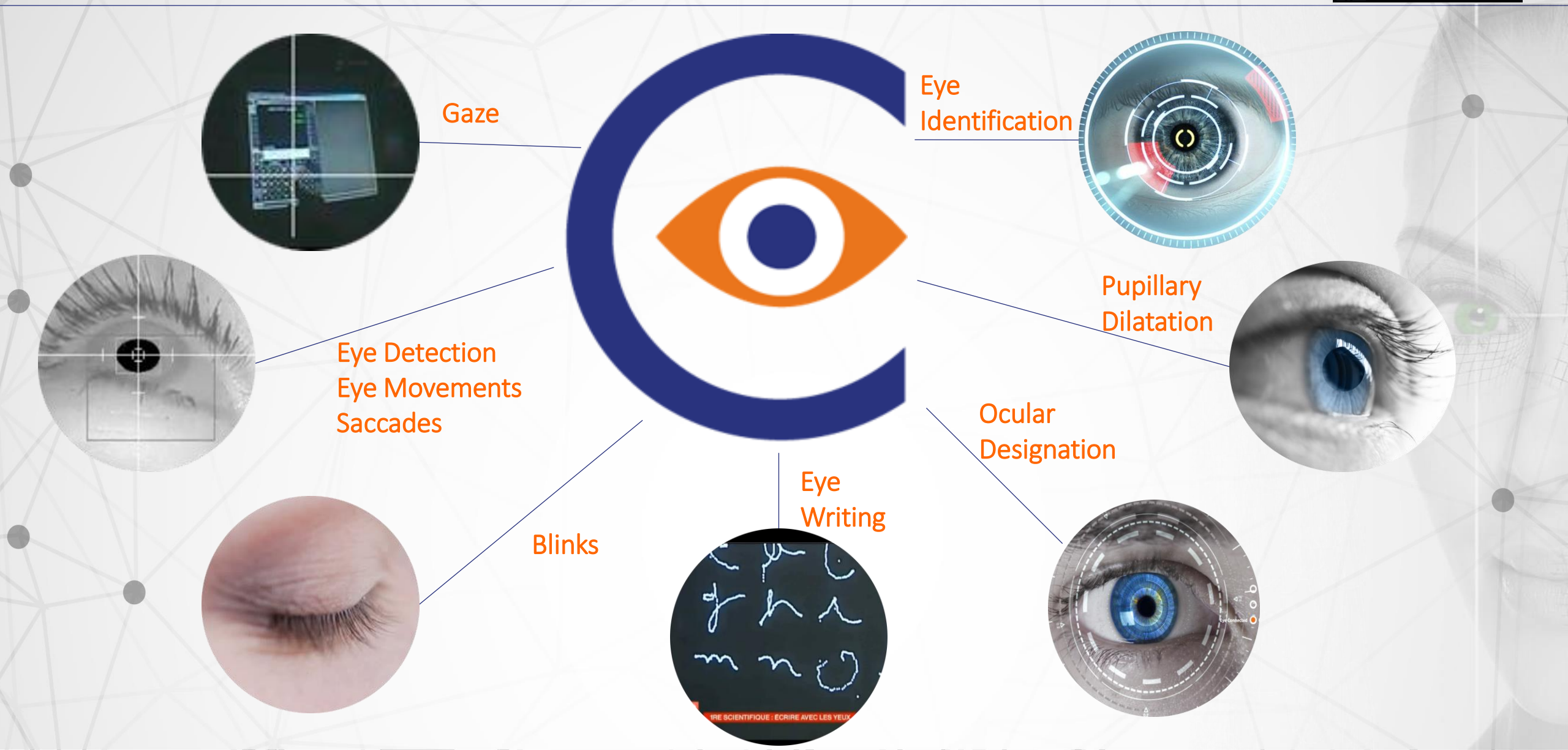
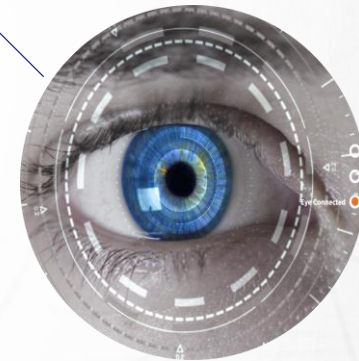
Pupillary  
Dilatation



Ocular  
Designation



Eye  
Writing





PERTECH SOLUTIONS

The Connected Eye program challenge



OCULAR  
DESIGNATION FOR  
CONTROL BY THE  
GAZE



REAL-TIME  
DRIVER BEHAVIOR  
ANALYSIS



EMOTION AND STRESS DETECTION

ERGONOMICS  
-  
SAFETY

IMPROVE HMI AND ABILITIES OF THE  
DRIVER TO ENSURE A SAFE DRIVING  
ENVIRONMENT...



DRIVER  
MONITORING  
-  
HYPOVIGILANCE



- the **eye** becomes a central control organ and replaces the **hand or foot**.
- The **eye** becomes a real measure, control and decision making tool, **connected to the vehicle**.



**PERTECH SOLUTIONS**

Our added value proposition



20 YEARS OF EXPERTISE IN EYE TRACKING  
AN UNIQUE KNOW-HOW

### OEM Software

Toolkit, and SDK modular software environment acquisition, characterization and data analysis



INNOVATIVE, HIGH-PERFORMANCE,  
AND HARDWARE-INDEPENDENT TECHNOLOGY



### Hardware



Embedded solution including software



Evolutionary and non-intrusive ultra-light head-mounted sensor including software





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thank you

... let's continue on our booth n°5

[www.pertech-solutions.fr](http://www.pertech-solutions.fr)