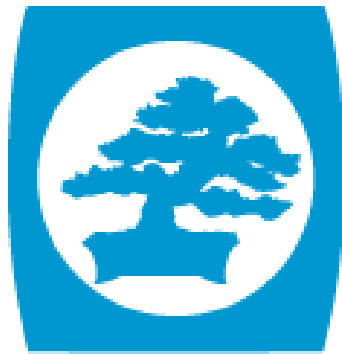


# Second CITA Regional Roadworthiness Inspection Meeting for Africa 27 – 28 February 2013

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**Capelec**<sup>®</sup>  
Ergonomics Efficiency Simplicity

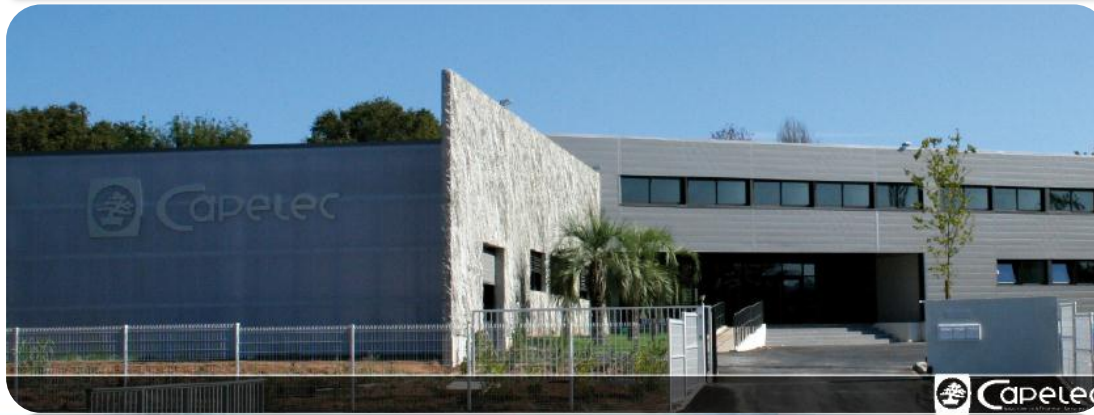
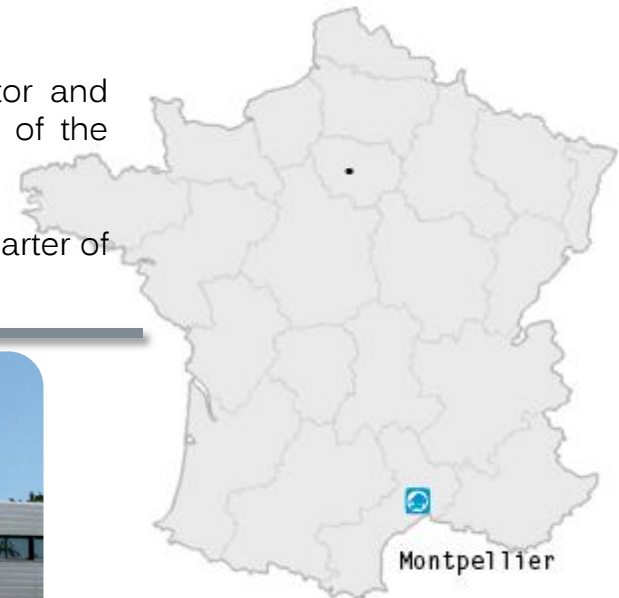
# BONJOUR !

# An automotive manufacturer specialized in equipment for Periodical Technical Inspection Centers

Capelec is a French company which has been designing and manufacturing since 1989 equipments for automotive periodical technical inspection.

Capelec follows the technological evolution of the automotive sector and proposes tools meeting perfectly with the needs and requirements of the professional.

Innovation, ergonomics and reliability are the hallmark of Capelec's charter of development.



## Our key dates

**1989** : Launching of the company.

**1992** : International launching at the AUTOMECHANIKA exhibition in Germany.

**1996** : Design of the 1<sup>st</sup> gas analyzer CAP3100.

**1998** : Development of a battery tachometer and of an EOBD tool,

**2005** : Integration of the test lane into the Capelec's range.

**2006** : Taking-over of SARO, new control of the headlight tester range.

**2008** : Export all over the world in more than 30 countries.

**2010** : Capelec moves to its new facilities into a 2,200 m<sup>2</sup> building.

**2011** : Integration of the 2-wheeler control range.

Capelec  
in 2011

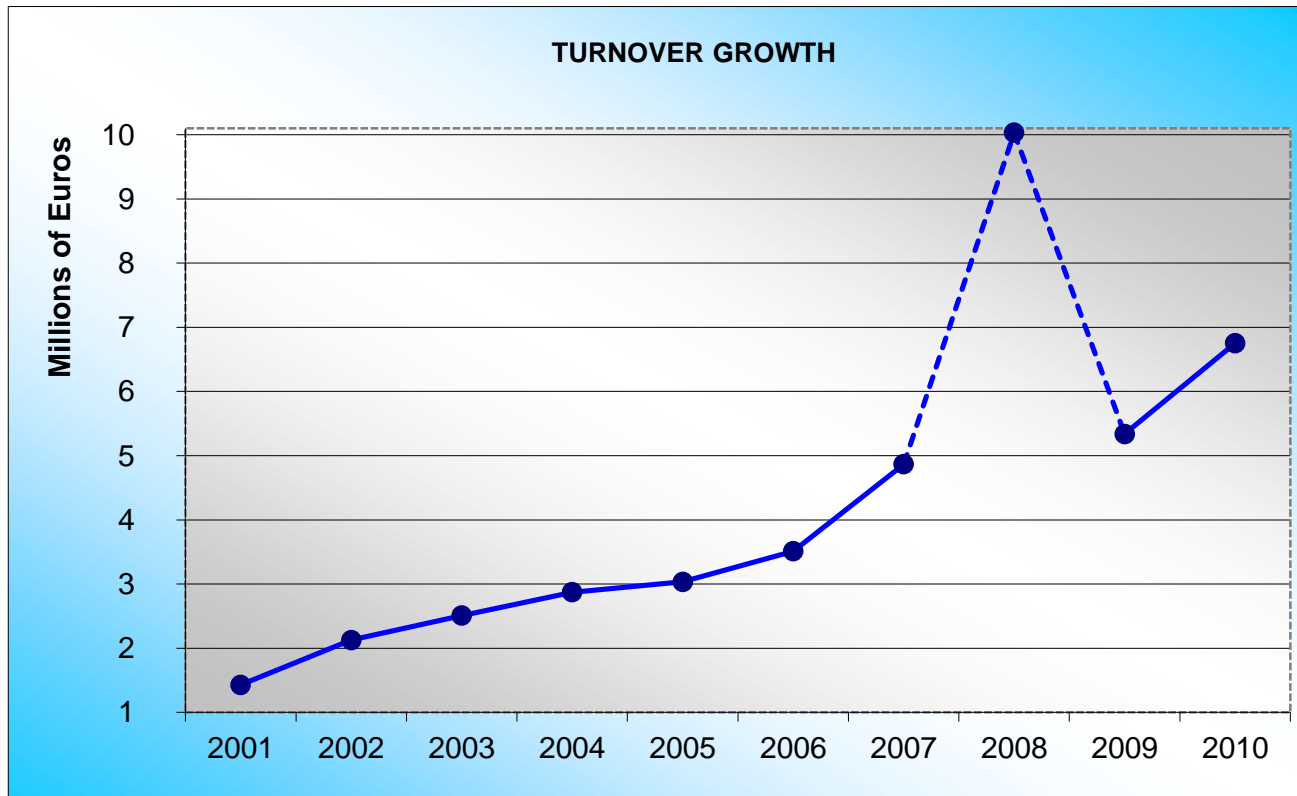
- French leader of PTI
- Worldwide specialist of emission testing

Capelec  
in 2015

- International recognized supplier of global solution for PTI



**Capelec®**  
Ergonomics Efficiency Simplicity

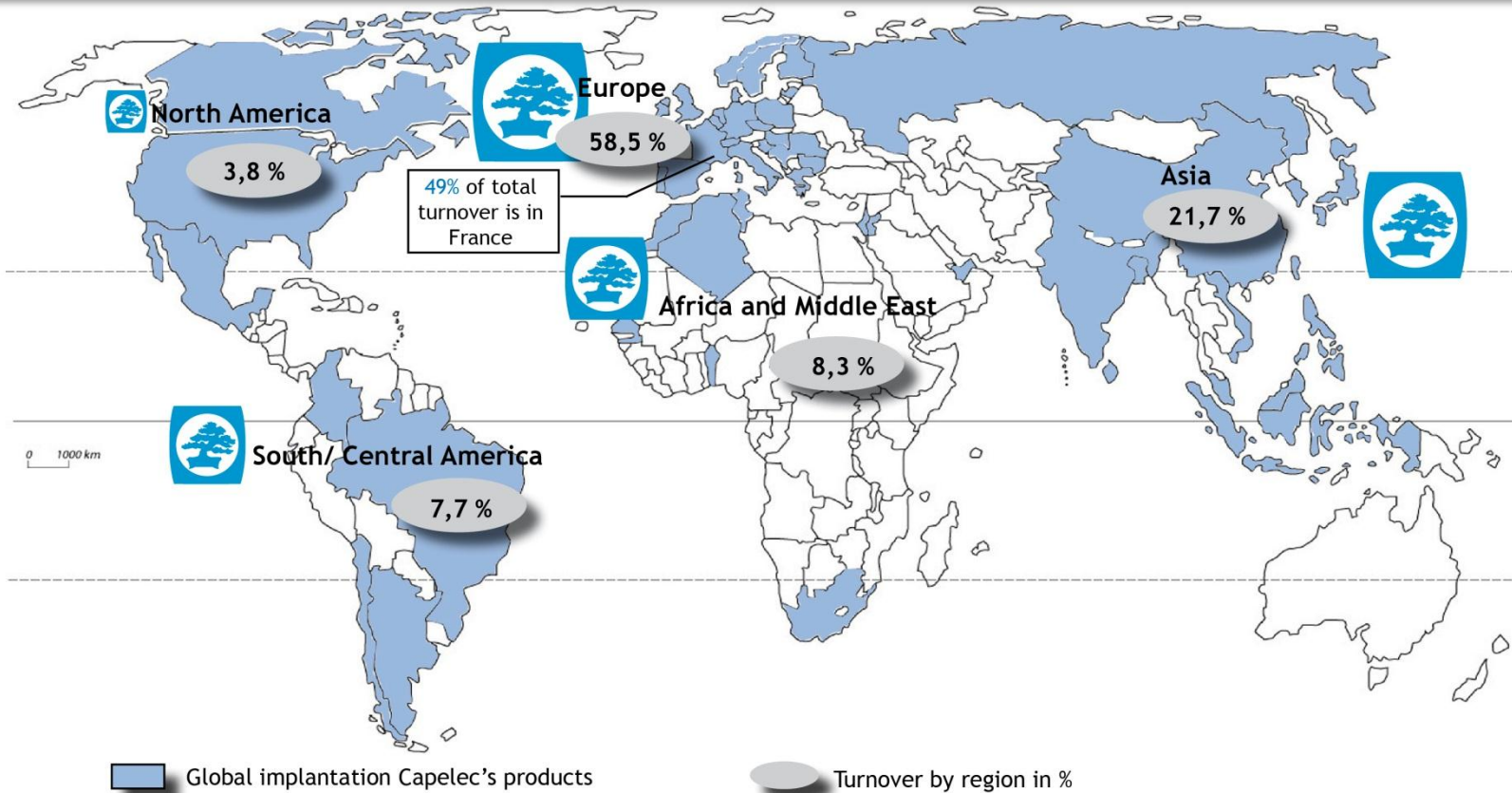


An average yearly  
growth of :  
**25%**



# Capelec®

Ergonomics Efficiency Simplicity



Capelec is pro-active on future evolution regarding PTI :

- Participation at Bureau of **EGEA European Garage Equipment Association**
- Active Member of **GIEG Groupement des Industries de l'Equipement de Garage (Garage Equipment Industries Group)**
- Presence in the **European work groups** (particle measurements, NO, NO2, suspension...)
- And in the **work groups on PTI** in France
- Corporate member at **CITA**

## Research & Development

4 poles:

- ➔ Emissions
- ➔ Optics
- ➔ Embedded electronics
- ➔ Security



- 15% of turnover CA invested in R&D
- 2 to 3 new products developed every year and protected by patents
- Respect and conformity to the International Standards
- Adaptation of equipments to local requirements
- Innovation

## The sales team

Dedicated area sales managers: France  
Export  
Far-away Export

Sales Administration/Communication

## A win-win business relationship with the customer

- Identify its directions and **opportunities of growth**
- **Go with him** in a win-win business relationship
  - . Communication tools (leaflets, supports, exhibitions,...)
  - . Marketing (competition analysis, product positioning, sales talk, ... )
  - . Technical (homologation, product improvement, training sessions,...)
- CAPELEC exhibits on main **international fairs** : AUTOMECHANIKA, EQUIP'AUTO, AUTOPROMOTEC.





*Macro Auto Tech  
Sri Lanka*

Our partners represent the brand in the field. We share with them common values :

- ❖ regulation survey
- ❖ High-Tech positioning
- ❖ To be a proposal force
- ❖ Premium services :
  - Reactivity
  - Availability
  - Customer focus
- ❖ Maintenance on site meeting with the customers' expectations
- ❖ Expertise

## Production

Made In France manufacturing to ensure our product quality

- ISO 9001 certified company
- Product traceability
- Planning and sizing of the production tool so that to meet with peak markets.
- Conformity certificates, first check
- Integrated logistics department dealing with more than 2,000 shipments every year



## OEM products

**OEM** are sub-assemblies to be integrated in garage equipments. Those sub-assemblies often make the intelligent part or the metrological part of the equipment.



Bench CAP3300



Smoke head CAP3030



Tachometer CAP8520

## CAPELEC range

Innovating range dedicated to PTI activity and especially designed for heavy use and demanding customers



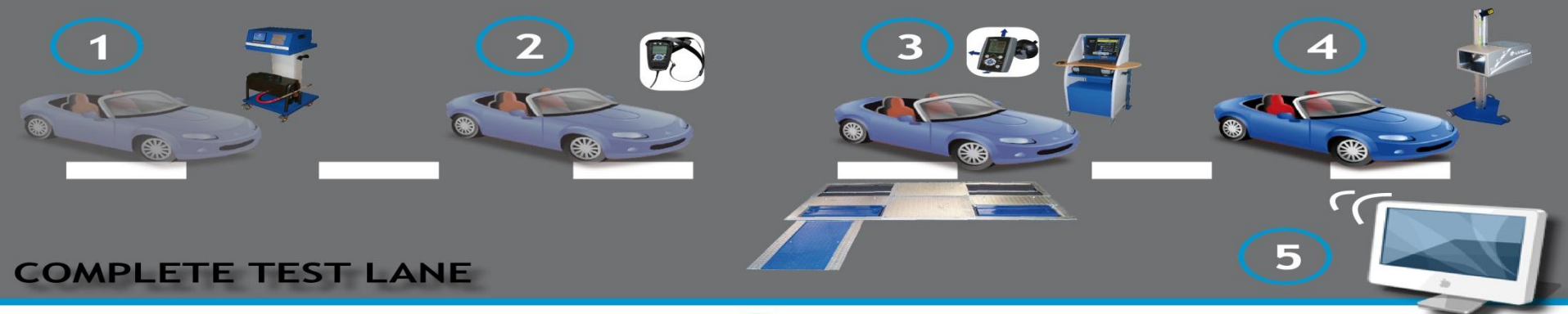
Combi unit CAP3201-GO



EOBD scantool CAP4150



Headlight Tester CAP2500



**1** Emission testing range: CAP3XXX

**2** EOBD range: CAP41XX

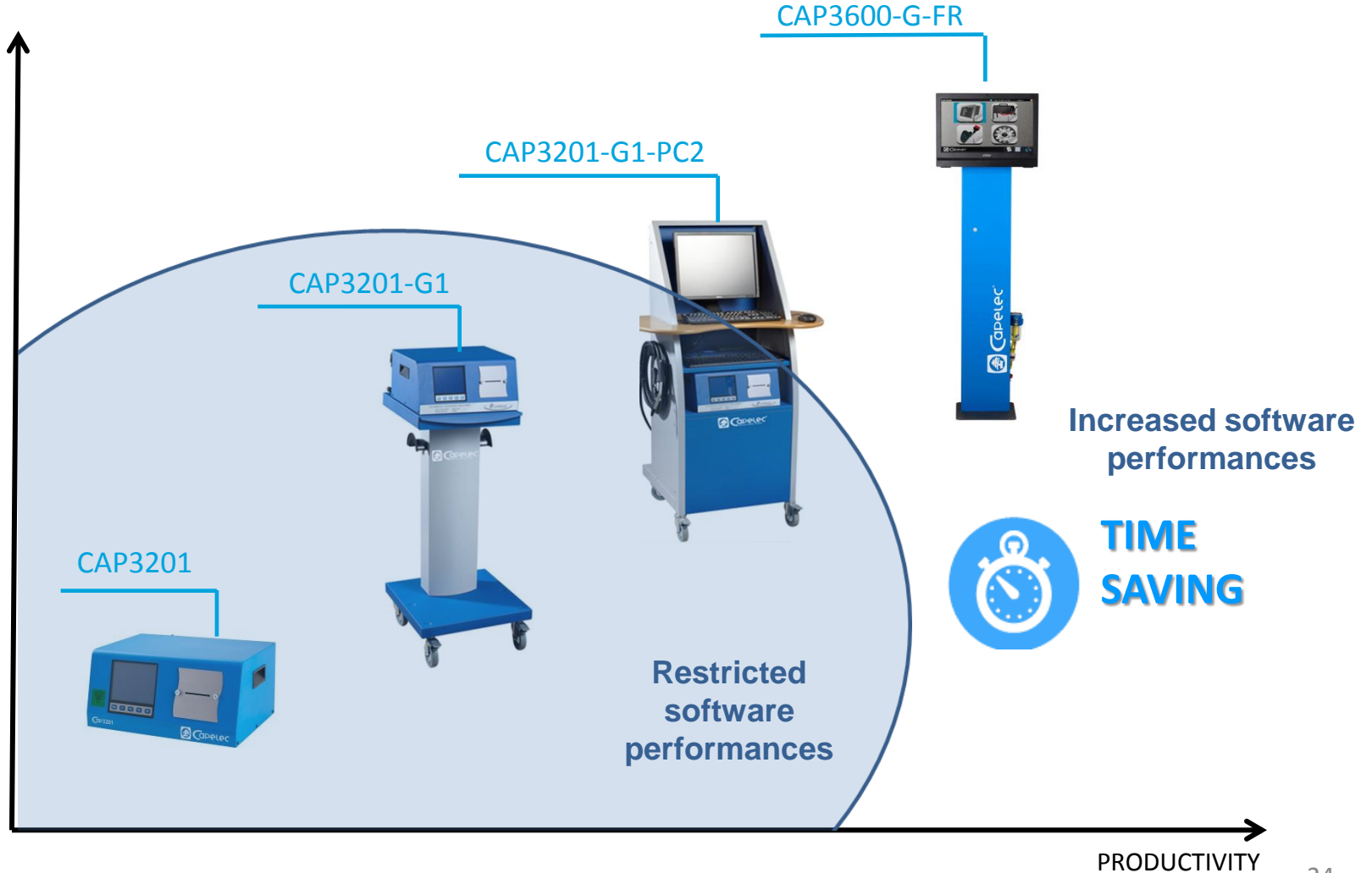
**3** Brake testing range: CAP9XXX

**4** Headlight tester range: CAP2XXX

**5** PC Data Collection

# EMISSION TESTER RANGE

FEATURES



### Software module

Centralized and programmable Operating System  
All-in-One PC with 22" large color touchscreen

### Control modules

A user-friendly range of options

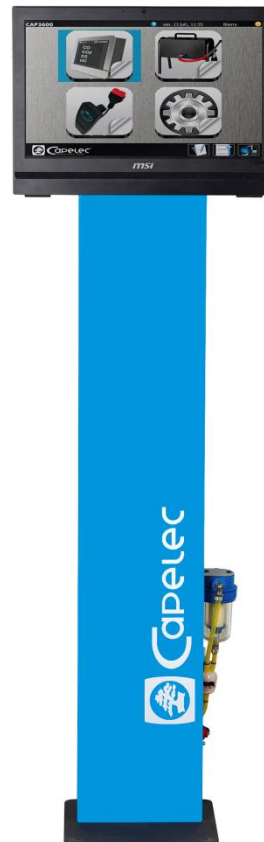
#### Interface & control devices

Remote management with an IR remote control  
(multiple equipments/multiple lanes)  
Operation on the station with digital or hardware keyboard



#### Interface & displaying devices

Backwardation or sharing large-screen display  
(HDMI port) – Additional display or shared with  
brake tester



### Measurement modules

Build-up your own station from an interactive kiosk

#### Portable smokemeter module

Wireless BT



#### Integrated Gas module

USB / RS232 connection



#### Optional modules : RPM, EOBD, T°C

Wireless BT



## Accuracy

Comply with Euro5 & Euro6 drives,  
Enables to check state of depollution system as a whole (EGR valve...) through a NOx measurement .

## Technology

Twin-channel bench,

- Channel 1: based upon a very accurate measurement of opacity ( $m^{-1}$ ) / Possibility to display the result in Particle Total Mass (PM)
- Channel 2: NOx measurement

Accuracy 4 times better than the current smoke meter,

## Methodology

Measurement procedure at idle speed & free accelerations

## Compliant

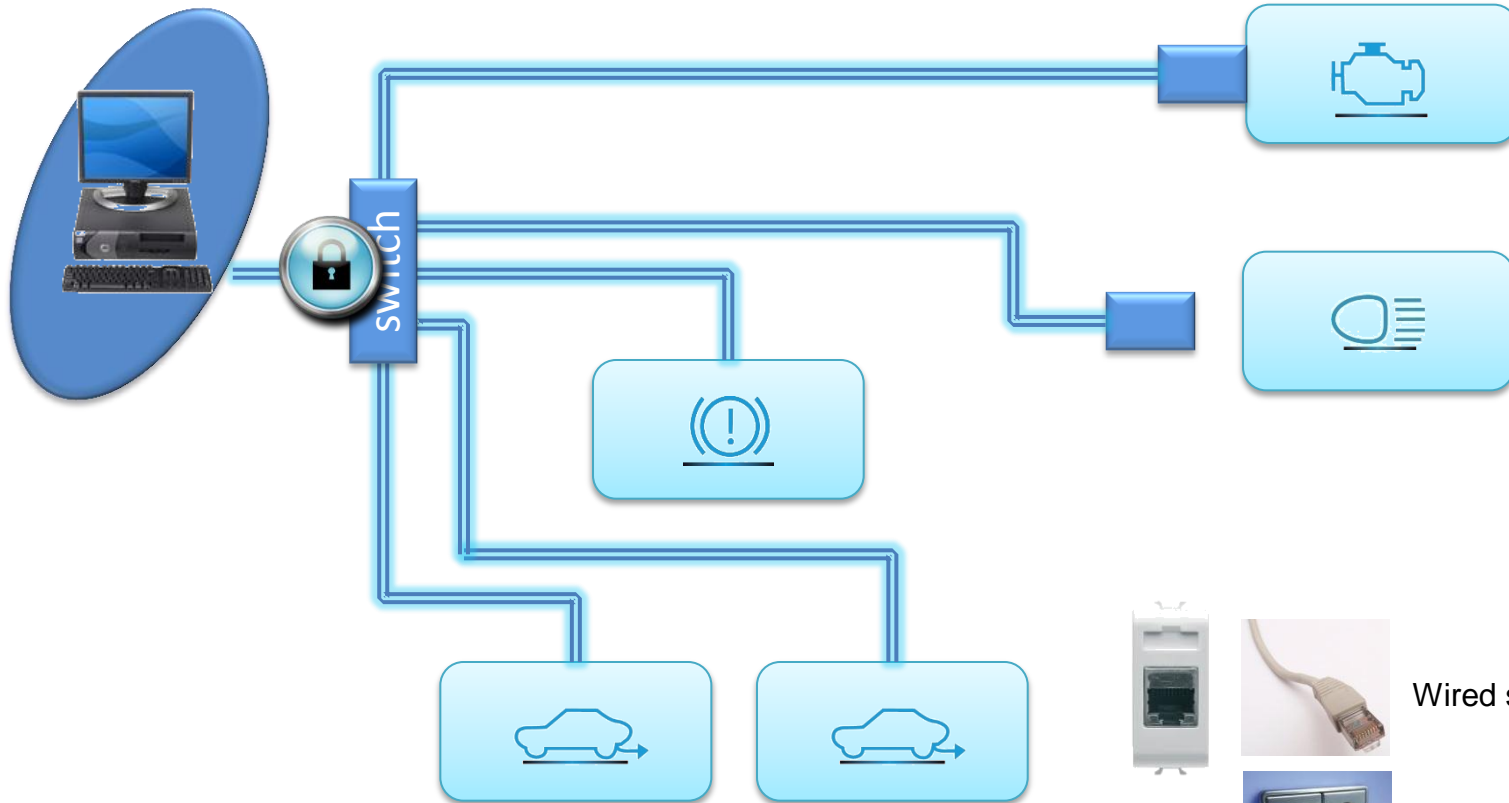
Since now can be used in the place of the current smoke head



OPACINOX CAP3040

Annex II:

Article 12.2.5: **Make impossible all changes  
of the information sent by control equipment**



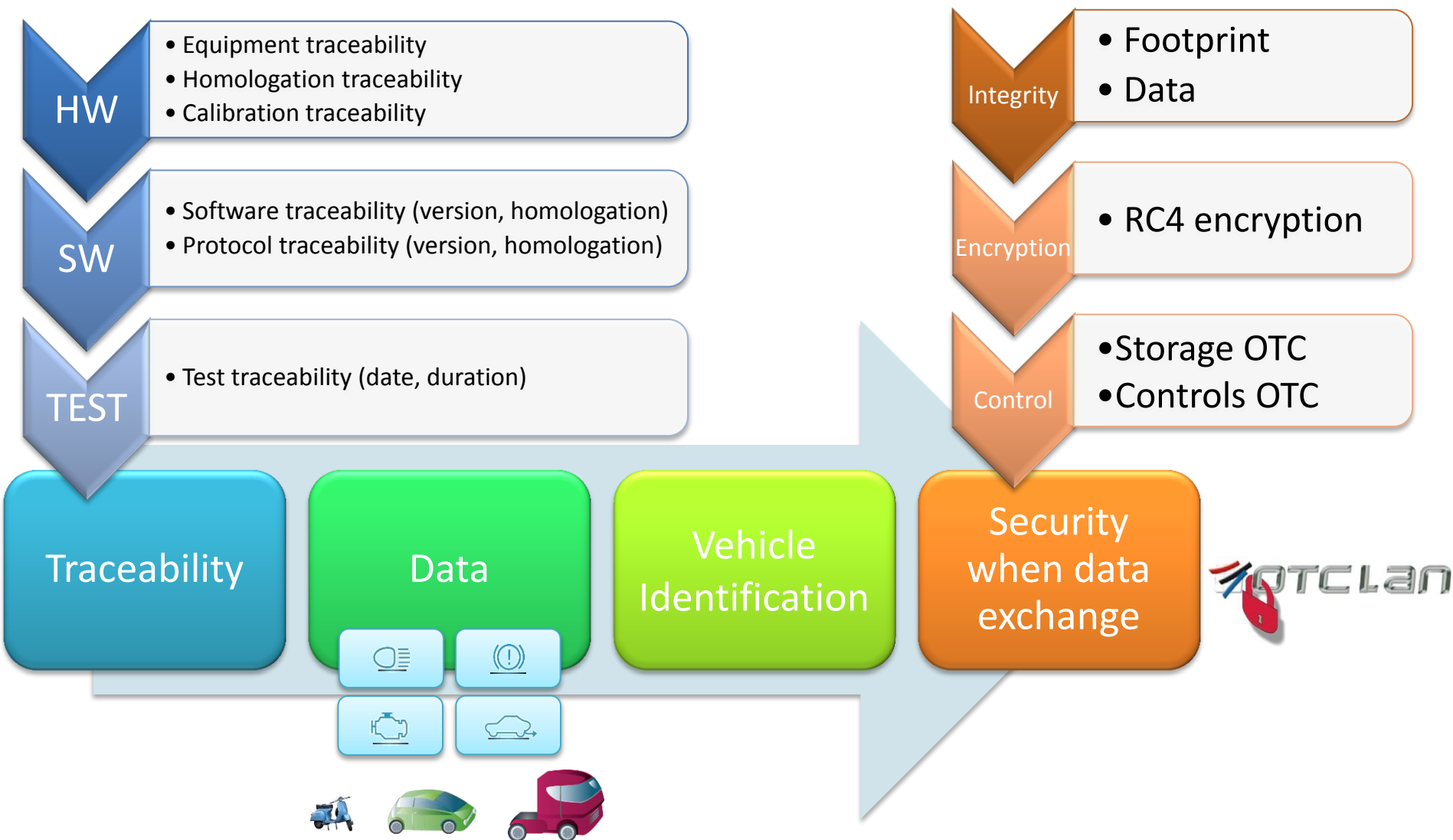
Wired solution: Ethernet



Wired solution : CPL power line  
communications system



Wireless solution: Wifi



**MERCI !**