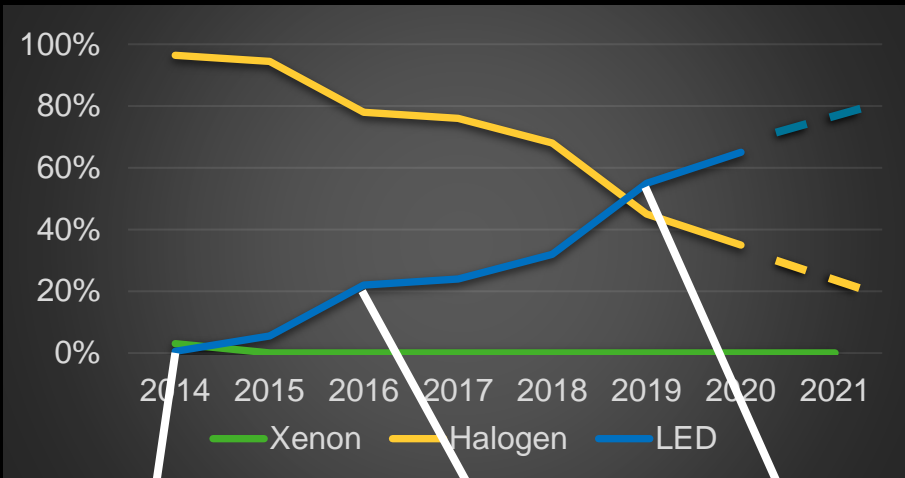


DEPLOYMENT OF LED TECHNOLOGIES IN RENAULT

AFTER FULL LED HEADLAMPS FOR ALL, HOW ADB SYSTEM CAN BE ADRESSED TO MASS MARKET?

BEDU FRANÇOIS – EPIC ONLINE TECHNOLOGY MEETING ON AUTOMOTIVE LIGHTING

AFFORDABILITY: LED HEADLAMPS FOR ALL SEGMENTS AND ALL REGIONS



LED HL
Gen 1



LED HL
Gen 2



LED HL
Gen 3

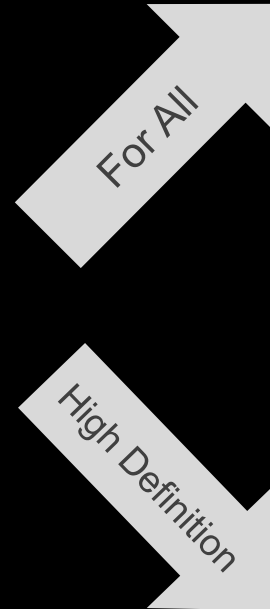


With **STANDARDISATION**, a majority of vehicles are equipped with full LED headlamps.

Economical breakthrough to achieve the full adoption of LED technologies with:

- Simplification
- Integration
- Standardisation

INTELLIGENT LIGHTING FOR ALL & HIGH DEFINITION



ADB systems have huge value for end-customers.

- **Cost reduction for large adoption of the system**
- **Development of standard μ LED solution for full FoV application with 20 to 100 kpixels.**

TO CONCLUDE FOR THE FUTURE OF AUTOMOTIVE LIGHTING

Simplification, integration and standardisation of drivers light sources and primary optics are mandatory.

New E/E architecture with Software as product is coming.

Development of μ LED able to address the full horizontal Field of View with good resolution for projection and low power consumption.

Similar revolution is coming for internal lighting and external signalisation with dynamic effect of hundreds of LEDs.

THANK YOU