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DVN GLOBAL MARKET STUDY ON NEW LIGHTING FUNCTIONS 2020-2030



DVN study will be ready for publication in
September 2020. Price: 5 000 Euros

For ordering or more information

Contact Salomon Berner
Driving Vision News
sberner@drivingvisionnews.com
+33 607 64 05 02

The last decade was very rich in innovation for Lighting with the launch of the breakthrough ADB followed by its Matrix beams version, the democratization of LED Lighting, the introduction of new sources with Laser and OLEDs and the emergence of a ambient interior lighting.

In this year 2020, following the general trend for Autonomous, Connected, Shared and Electric vehicles, the research in Lighting has begun to explore new functions with high definition systems, road projection, displays for exterior lighting as well as new functionalities for interior lighting.

But the Coronavirus crisis has moderated this impulse. Nevertheless, everybody knows that calm always follows the storm, and the lighting community must prepare what will be the major innovations during the decade 2020-2030. These innovations will be mainly oriented towards improved safety for exterior lighting with new functions of communication by light and new styling approaches, and towards a new user experience with interior lighting preparing a more futuristic connected and cocooning passengers' cabin. With the help of many experts, DVN has realized this study to provide insight into these major innovations to come, evaluating their interest, risks, chance to succeed and to be allowed by regulation.

The study is titled:

“NEW LIGHTING FUNCTIONS 2020-2030 TO IMPROVE SAFETY, COMMUNICATION, COMFORT, AND STYLING”

To bring this study together, DVN have been working in three directions:

- Face-to-face and video interviews with key people round the world representing industry, universities, institutes, regulators, and other relevant experts. Among them:
 - OEMs: Audi, BMW, Ford, Honda, SAIC Volkswagen, PSA, Renault, Volvo cars.
 - Lighting suppliers: AL, Hella, Koito, Mind (Great Wall), **Stanley**, Valeo, ZKW, Everlight, Lumileds, Osram.
 - Tier 2 suppliers: Ansys, Inova Semiconductors, Weidplas
 - Universities and regulation organisations: ELS, ICAT, KIT Karlsruhe, L-Lab Lippstadt, LRC, THM
- **Cross-Industry**
 - Ciesun, Tivium, UMTRI,
- Meetings between six veterans in the Automotive Lighting field with each more than 30 years of experience: Hector Fratty, Ralf Schaefer, Leo Metzemaekers, Rainer Neumann, Jean-Paul Ravier, Geoff Draper, Carsten Befelein, Daniel Stern.

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