



Have you seen the light?

Future light signals for enhanced safety and comfort



In a future of self-driving cars, emerging applications will improve safety and sophisticate the interactions between vehicle and human. Hereby, light signals may play an increasingly important role with the outside world. Display-like surfaces or projection devices can serve up multiple traditional and emerging signals, bringing more safety and comfort.

WHICH KEY APPLICATION FEATURES DRIVE POTENTIAL BENEFITS?

- Which colors are useful? Which advantages would a multi-color display bring over mono-color signals?
- Which brightness level is appropriate for optimal visibility?
- The first examples of linear dynamic light signals are on the road for turn, tail or welcome lights. Which additional functionalities would a 2D or 3D display with higher resolution enable?
- What are the most attractive locations for these displays, offering new application possibilities?
- Which characteristics of these displays will be important to enhance styling?

PRIMARY APPLICATIONS

- Signaling for assisted and autonomous driving vehicles
- Traditional signaling functions (tail/stop, turn, DRL/position, ...)
- Extended communication signals to other road users for increased safety
- Other applications yet to emerge!

Have you seen the light?

Future light signals for enhanced safety and comfort



Safety

Pedestrians can confidently cross the road.



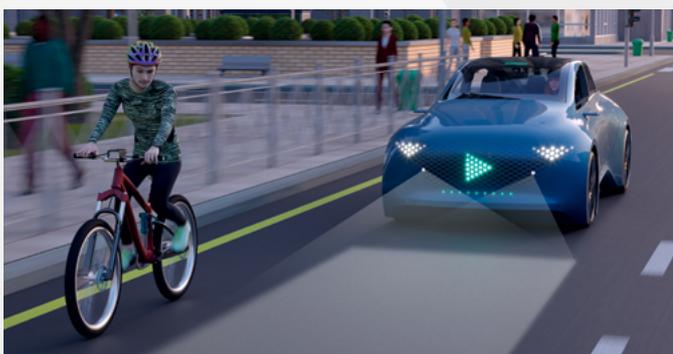
Safety

Occupants of nearby vehicles are grateful for displayed warning messages.



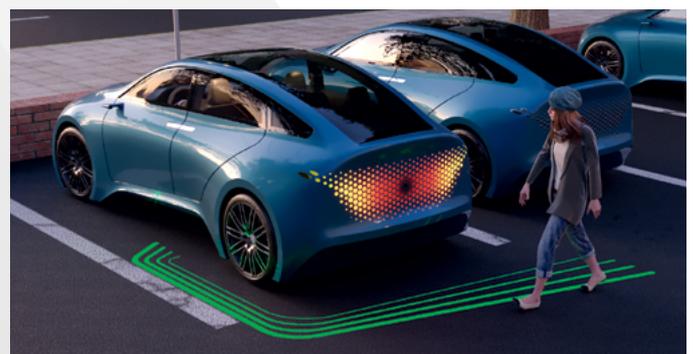
Safety and assistance

Everyone feels safer with friendly signals that indicate intent.



Safety

Cyclists appreciate being informed in advance that a vehicle plans to overtake.



Comfort

Occupants feel welcome and safe with individualized messages and guided paths.

©2018 Lumileds Holding B.V. All rights reserved.
LUXEON is a registered trademark of the Lumileds Holding B.V.
in the United States and other countries.

www.lumileds.com

Neither Lumileds Holding B.V. nor its affiliates shall be liable for any kind of loss of data or any other damages, direct, indirect or consequential, resulting from the use of the provided information and data. Although Lumileds Holding B.V. and/or its affiliates have attempted to provide the most accurate information and data, the materials and services information and data are provided "as is," and neither Lumileds Holding B.V. nor its affiliates warrants or guarantees the contents and correctness of the provided information and data. Lumileds Holding B.V. and its affiliates reserve the right to make changes without notice. You as user agree to this disclaimer and user agreement with the download or use of the provided materials, information and data.