

# Mobileye Drive™ Self-Driving System

Premiere Level-4 Solution Now Commercially Available for Autonomous Mobility-as-a-Service

April 12, 2021 — Mobileye, an Intel Company, today announced that its self-driving system (has reached commercial availability. Purpose-built for the future of autonomy, the full-stack solution — branded Mobileye Drive™ — is designed to drive a range of autonomous vehicle (AV) applications, including robotaxis, consumer passenger cars and commercial delivery vehicles.

## The Industry's Premiere Commercial Full-Stack Self-Driving System

- Mobileye Drive is a unique turnkey solution based on state-of-the-art self-driving technology that is road tested and ready for commercial deployment.
- Designed for mobility-as-a-service (MaaS), autonomous delivery vehicles (ADV) and consumer AVs, Mobileye Drive brings robust safety, functionality and scalability.
- Mobileye Drive can help a variety of industries ride the autonomous wave, whether it's transforming transportation offerings, optimizing fleet utilization and increasing ridership, or securing a place in the future MaaS ecosystem and consumer AV marketplace.

## The Mobileye Trinity: Cutting-Edge and Safe-by-Design Autonomous Technology

Core to Mobileye Drive is Mobileye's trinity solution: Road Experience Management™ (REM™) mapping technology, rules-based Responsibility-Sensitive Safety (RSS) driving policy and True Redundancy™, which combines two separate, truly redundant sensing subsystems based on world-leading camera, radar and lidar technology.

- **True Redundancy™**: Mobileye Drive utilizes advanced vision-sensing technology, combining two independent perception subsystems: a camera subsystem that provides full end-to-end autonomous driving and a radar-lidar subsystem that has the same capabilities.
- **Road Experience Management (REM)**: Mobileye's REM leverages crowdsourced data from mass-market advanced driver-assistance systems (ADAS). This helps to automatically build AV maps in the cloud with geographic scalability and at low cost, enabling vehicles driven by Mobileye Drive to accurately navigate global road networks.
- **Responsibility-Sensitive Safety (RSS)**: Mobileye's pioneering driving policy technology, RSS provides a formal model for safe driving decisions made by Mobileye Drive.

The Mobileye technology trinity delivers a sensing solution that is orders of magnitude more capable than human drivers. Mobileye Drive is powered by the Mobileye EyeQ™ system-on-a-chip and most advanced custom hardware and software solution specifically designed to support fully autonomous vehicles.

## A Complete Modular Solution to Transform Mobility

- Mass transportation and public transit providers can leverage Mobileye Drive to optimize their fleets — including buses, shuttles, vans and passenger cars — and lower transportation costs, while improving customer experiences.
- Mobileye Drive enables a seamless transition to autonomy for delivery fleets, including those managing last- and middle-mile delivery in complex, urban environments.

## Capturing a Growing Market Opportunity

- Mobileye Drive arrives as the company moves to become a complete mobility provider, with commercial MaaS deployments planned for Israel, the [UAE](#), [Japan](#), [France](#), the United States and beyond.
- Mobileye's momentum continues to build in parallel with the growth of robotaxi MaaS, which is [expected to reach a \\$160 billion total addressable market by 2030](#).
- Mobileye Drive is also driving transformation in the fast-growing goods delivery industry, with the company recently announcing a [deal with Udelv](#), which develops ADVs specifically for last- and middle-mile delivery on public roads. The autonomous last-mile delivery market is expected to reach [nearly \\$85 billion by 2030](#), while [analysts suggest](#) driverless middle-mile delivery will create a \$1 trillion market.

World premiere of

# Mobileye® Drive™

A turn-key self-driving system ready for commercial deployment at-scale for Mobility-as-a-Service, delivery vehicles, and more.

### Full sensor suite:

- 13 Cameras
- 3 Long-range LiDARs
- 6 Short-range LiDARs
- 6 Radars



L4/L5 compute based on Mobileye EyeQ®5 SoCs

## Based on the Mobileye Trinity

### → True Redundancy™

Robust perception system comprised of two independent sub-systems (cameras and radars + LiDARs)

### → Road Experience Management™ (REM™)

Proprietary, constantly refreshed, crowdsourced AV maps built to scale across the globe

### → Responsibility-Sensitive Safety (RSS)

Formal model for AV safety and decision-making

## **About Mobileye**

Mobileye is leading the mobility revolution with its autonomous driving and driver-assist technologies, harnessing world-renowned expertise in computer vision, machine learning, mapping, and data analysis. Our technology enables self-driving vehicles and mobility solutions, powers industry-leading advanced driver-assistance systems, and delivers valuable intelligence to optimize mobility infrastructure. Mobileye pioneered such groundbreaking technologies as True Redundancy™ sensing, REM™ crowdsourced mapping, and Responsibility Sensitive Safety (RSS) technologies that are driving the ADAS and AV fields towards the future of mobility. For more information, [www.mobileye.com](http://www.mobileye.com).

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