Smart Insights for Smarter Cities
Actionable Data - The Key to Your City

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APAC Director, Intelligent Mobility Solutions Division
Mobileye
Mobileye
Driving the Future of Mobility

27+
Leading OEMs rely on Mobileye

50M+
Mobileye-equipped vehicles

13 Automakers
Working with Mobileye to enable autonomous driving
**About Mobileye**

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<th>ADAS</th>
<th>Autonomous Driving</th>
<th>Data Services</th>
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| ▪ Leading market position for over a decade- above 75% MSS  
▪ 50M + vehicles equipped vehicles | ▪ Scalable end-to-end solution for AV & MaaS  
▪ RSS – Rigorous Safety model | ▪ Leading ADAS position to enable road asset and mobility mapping  
▪ Smart cities and non-automotive data applications |
Repurposing Camera-Based Safety Technology
From detecting potential dangers on the road with Mobileye driver-assist technology to Automated Road Asset Mapping.

Detecting Potential Dangers:
Vehicles, Pedestrians, Lane Markings, Traffic signs

Detecting Road Assets:
Lane Markings, Traffic Signs, Traffic Lights, Poles etc.
Mapping Through City Fleets

1. Harvesting
   Tap into existing resources to collect road asset data through EyeQ-equipped vehicles.

2. The data is anonymized and sent to the cloud.

3. Aggregation
   Generating GIS layers.

4. Insights
   Road Asset Mapping
   Mobility Mapping
Map thousands of assets over thousands of Km

And still be able to fit all that data into a handheld USB drive
Accurate Road Asset Management

Identify deficient road infrastructure
Pavement Management

Road potholes or cracks
Monitor city changes over time

Roadworks sites
Identify the city’s most dangerous intersections

In real-time
GIS Layers Available:

- Traffic signs
- Traffic lights
- Light poles
- Signage poles
- Reflectors
- Road edges
- Side/rail guards
- Road markings
- Lane markings
- Lane width
- Manholes
- Stop lines
- Crosswalks
- Tree trunks

Geographic information system (GIS) layers of infrastructure assets at time T.

T+1 delta layer consisting of missing/added/damaged infrastructure assets.
Infrastructure Asset Inventory

**Automate** infrastructure asset inventory

**Save money & time** when planning asset maintenance programs

**Prioritize** inspection and renewal programs with asset change detection
Pavement Condition Assessment

Monitor & improve pavement quality based on real-time data on road conditions.

Expedite pavement operations with accurate localization of surface distress.
Real World Examples
Mapping Japan Highways

Production at scale
Entire Japanese highway system map was produced in less than 24 hours

Map production is automatic
With the push of a button

The more equipped vehicles there are on the road, the nearer to real time the data is

25,000 km of Roads
Thank You!
Drive safe

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Mobileye, an Intel Company