Out of the Garage and Onto the Streets: the Vital Role Technology Plays in the Future of Mobility
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Pat Gelsinger
CEO, Intel
The world needs:

- More Compute Chips
- Flexible Chip Design
- Globally Diverse Supply Chain

Technology for Good
Autonomous Future Needs:

- Innovative Technology
- Standards & Regulations
- New Business Models

End-to-End Solutions
Our purpose is to create world-changing technology that improves the life of every person on the planet.
The entire world is becoming digital

- Ubiquitous Compute
- Pervasive Connectivity
- Cloud to Intelligent Edge
- Artificial Intelligence
Semiconductors as a % of premium vehicle BOM

2019: 4%
2025: 12%
2030: 20%

Sources: Roland Berger, McKinsey, internal analysis
Semiconductors
Automotive TAM

$50B
2021

$80B
2025

$115B
2030

Sources: Gartner, Inc.: “Semiconductor Forecast Database, Worldwide, 2021 Update” and internal analysis
Investing in advanced manufacturing for the past 30 years
20% of semiconductors globally by 2030

Building more semiconductor manufacturing capacity in Europe
Leading-Edge Manufacturing in EU
Industry Support

- BMW
- BOSCH
- DAIMLER
- Volkswagen
- Deutsche Telekom
- LEONARDO
- NOKIA
- SIEMENS
- SIPEARL
Delivering today the technology for the autonomous future
Working with all major automakers

More than 88 million cars have Mobileye tech inside

Delivering at scale
On the roads in India

17 accident-related deaths every hour

11% of global road fatalities, with 1% of the world’s vehicles

ADAS-equipped vehicles are mostly not accessible to the mainstream
56% decreased likelihood of injury from rear-end collision

India-specific algorithms adapted to local conditions

ADAS improves safety

Source: Insurance Institute for Highway Safety
Efficient  Accessible  Safe

Delivering at scale
Out of the Garage and Onto the Streets: First Mobileye Robotaxi

Amnon Shashua
CEO, Mobileye
Mobileye first self-driving robotaxi
How safe is safe enough?

Jack Weast
Intel Fellow, CTO, Corporate Strategy Office
Vice President, Automated Vehicle Standards, Mobileye
Responsibility-Sensitive Safety
a mathematical model for autonomous vehicle safety
+ more than 30 Entity Members
What are the assumptions?
How safe is safe enough?
Working together to align on the values that autonomous vehicles should use in the real world.
Germany is first-mover towards autonomous future

Hildegard Müller
President of the VDA
New Robotaxi Service starting in Munich
Autonomous Future

Committed
foundry capacity in Europe

New
Intel Foundry Services
Accelerator program

Contributing
to standards and legislation

Automotive + Tech
making robotaxis a reality

Intel is Here to Help
See and experience autonomous reality
@Mobileye booth
Hall B2. A70