



Saving More Lives



# Investor Conference Deutsche Bank

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**Jan Carlson – Chairman, President  
& CEO**

January 12-13, 2016



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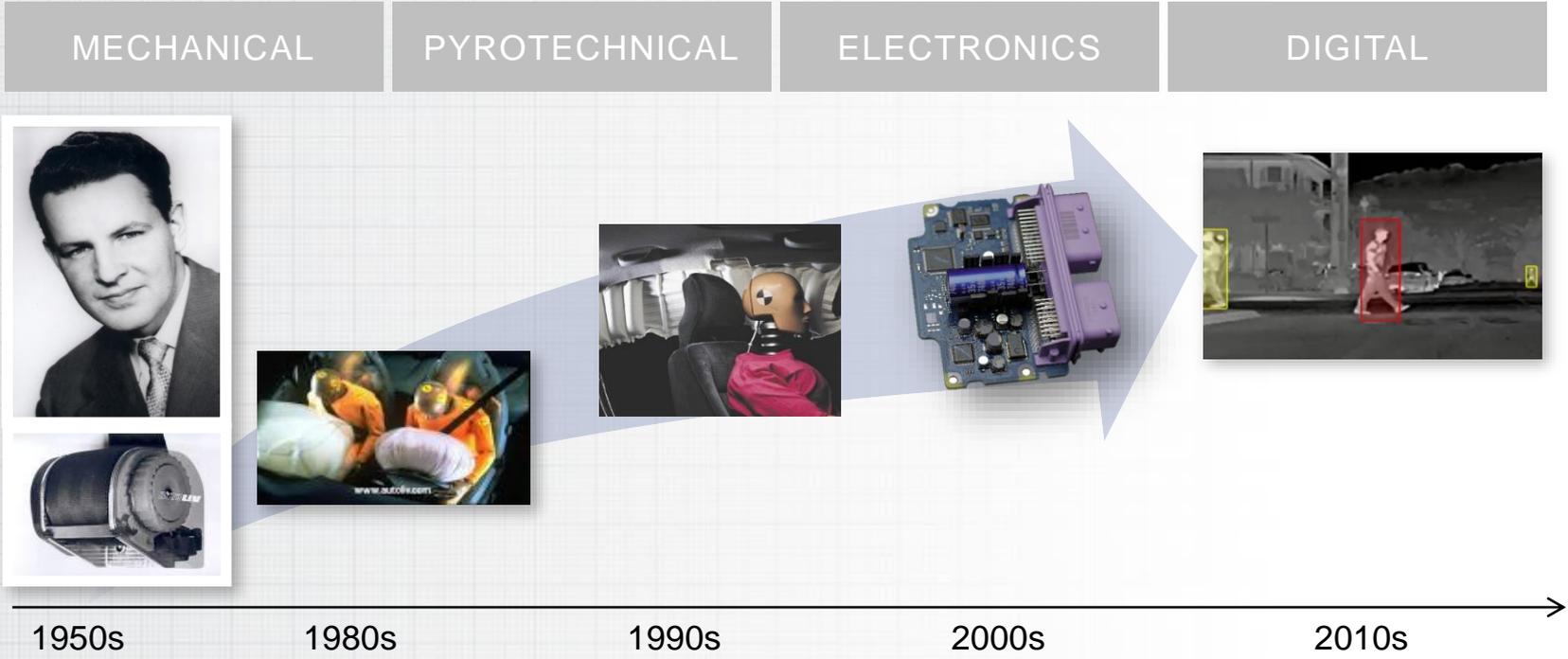
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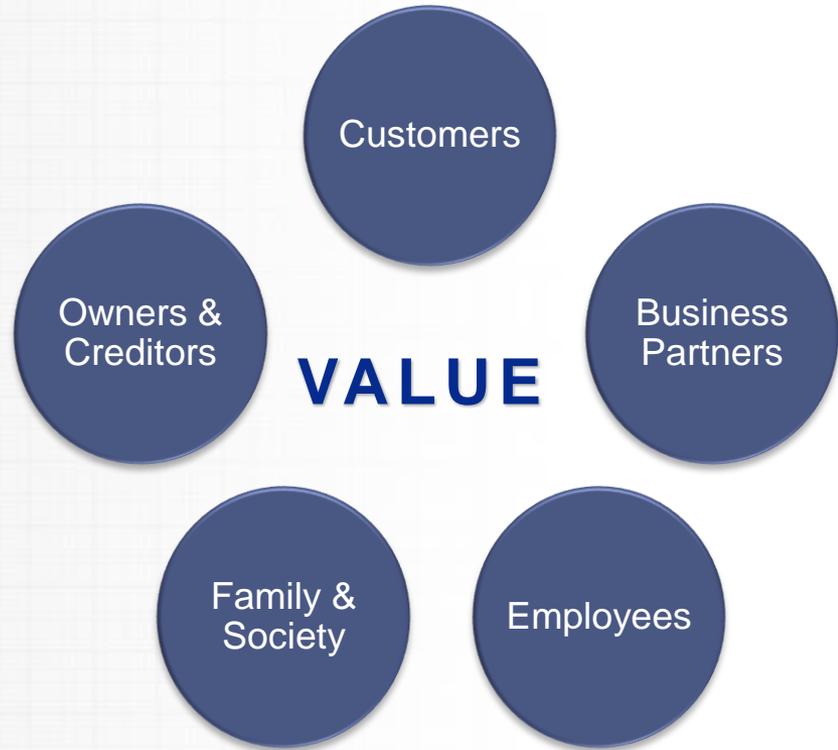
(\*) Non-US GAAP reconciliations are disclosed in our regulatory filings available at [www.sec.gov](http://www.sec.gov) or [www.autoliv.com](http://www.autoliv.com).

# Industry Pioneer with Strong Heritage

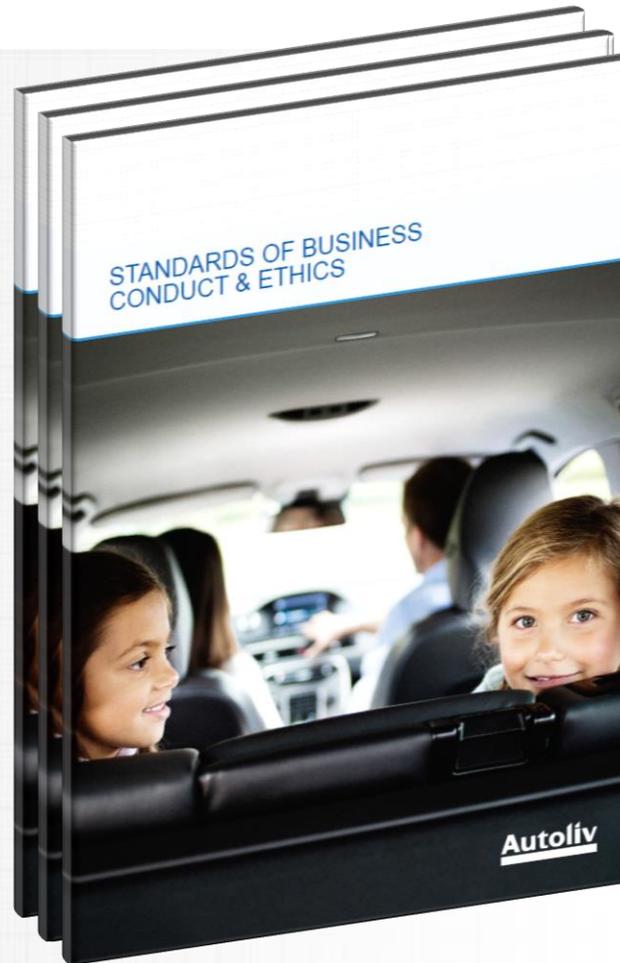
## More than 60 years of innovation in Automotive Safety



# Saving Lives and Creating Value



It starts  
with me



# New requirements drive the Market

## From standard situations to real life safety

### Standardized Test Scenarios



### Real Life Situations and Benefit



# Our Strategy to Stay Ahead

## A holistic approach to Automotive Safety



# Our Strategy to Stay Ahead

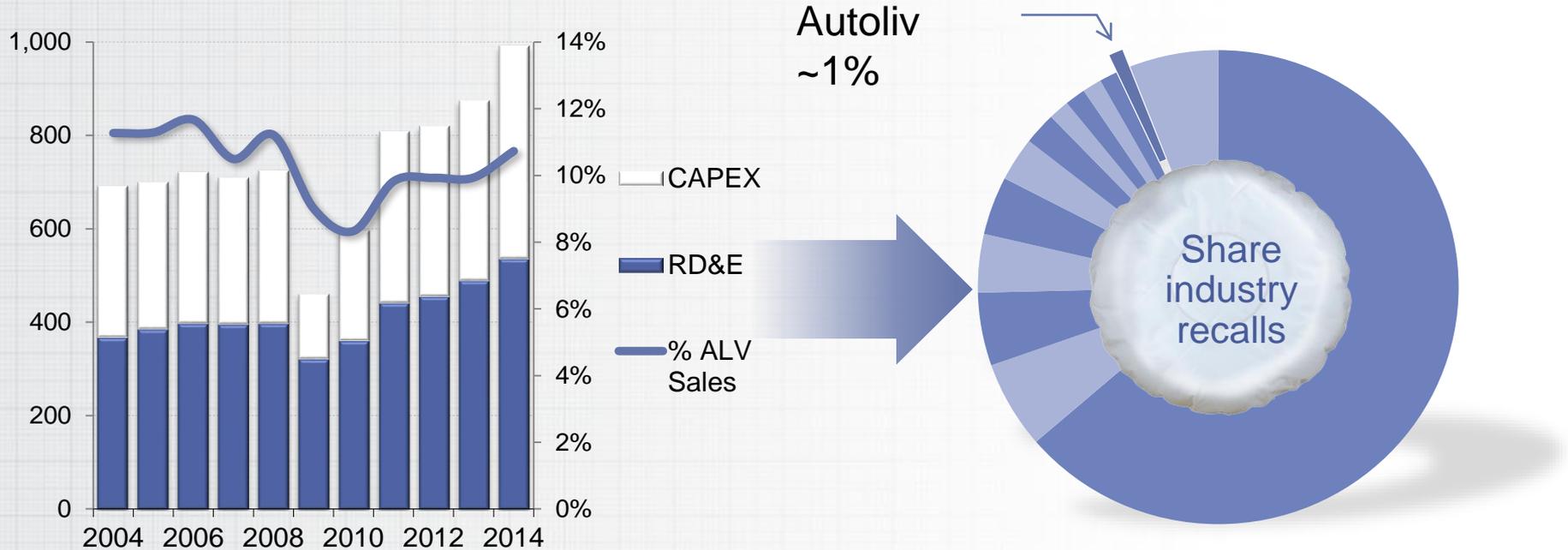
Quality is our first priority, in all we do



*Q5 is about Quality in all dimensions and is our journey towards Zero Defects*

# Our Strategy to Stay Ahead

Invest for robust growth in our markets to deliver Real Life Safety



## Real Life Safety Demos



### Demo's included:

- Mono vision based AEB,
- Mono vs. Stereo Vision real life braking,
- Radar based AEB,
- Rear cross traffic alert and braking,
- Night Vision (FIR) with various scenarios,
- HMI Zforce intuitive steering wheel for Automated Driving,
- GPS path following (manual & automated driving).

# Industry Partners in Safety with Autoliv Products



NEWS

## Mercedes E-Class



- **Active Safety**
  - Stereo & Mono Vision (Front camera)
  - Radar (77GHz) – 4 corners
  - ADAS ECU
- **Airbags**
  - Front Driver, Passenger, Knee
- **Steering Wheel**
- **Seatbelts**
  - Rear w Pretensioner

## Volvo S90



- **Airbags**
  - Driver
  - Inflatable Curtain
- **Steering Wheel**
- **Seatbelts**
  - Front Active Seatbelts w Pretensioner
- **Electronic Control Unit and crash sensors**
- **Battery Safety Switch**

# 2016 Truck/SUV of the Year

## Volvo XC90



NEWS

### Autoliv Content:

- Driver Airbag and Steering Wheel
- Side Inflatable Curtain Airbag
- Active Seatbelts with pretensioners
- Electronic control unit and crash sensors
- Battery Safety Switch



# 2016 Car of the Year

## Honda Civic

### Autoliv Content:

- **Active Safety**
  - Radar (24 GHz)
- **Frontal Airbags**
  - Driver and Passenger
- **Side Airbags**
  - Thorax and Inflatable Curtain
- **Steering Wheel**



# Vehicle Models Debuted with Autoliv Products

**Mercedes E-Class**



**Honda Odyssey**



**Audi A5**



**Honda CR-V**



**Volvo S90**



**Hyundai Grandeur**



**VW Tiguan**



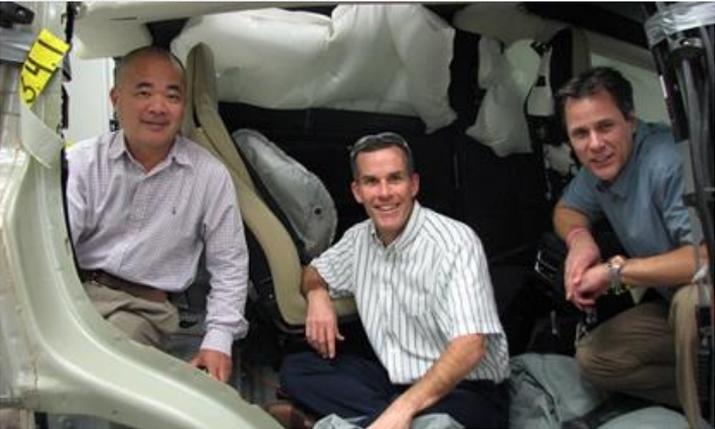
**Ford F-Series Super Duty**



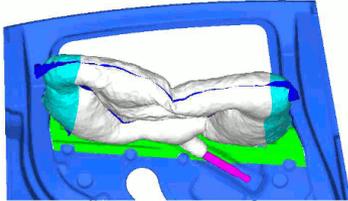
**Chrysler Pacifica**



# Tesla X Falcon Doors with ALV Door Mounted Side Airbags and Battery Safety Switch



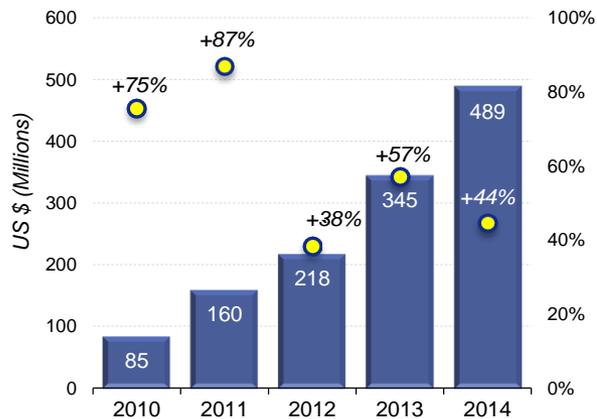
Loadcase 1 : Time = 0.028999



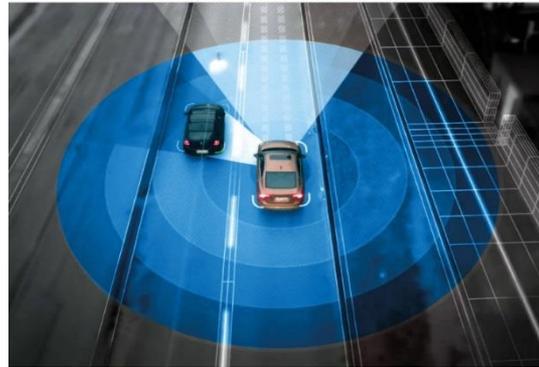
# Creating a Leader in Active Safety

while strengthening our leading position in Passive Safety

## Strong Growth



## Leading Products



## Strategic Transactions

**tyco**



**NISIN**

**MACOM™**

# Three pillars of Autoliv Electronics

## M&A is strengthening our way to \$3B

### Autoliv Electronics

#### Passive Safety Electronics

2014 approx. \$1B  
2019 > \$1B



#### ADAS

2014 approx. \$500M  
2019 > \$1B



M&A MACOM

SW IP - Volvo

#### Brake Control Systems

2016 approx. \$600M\*  
2019 < \$1B

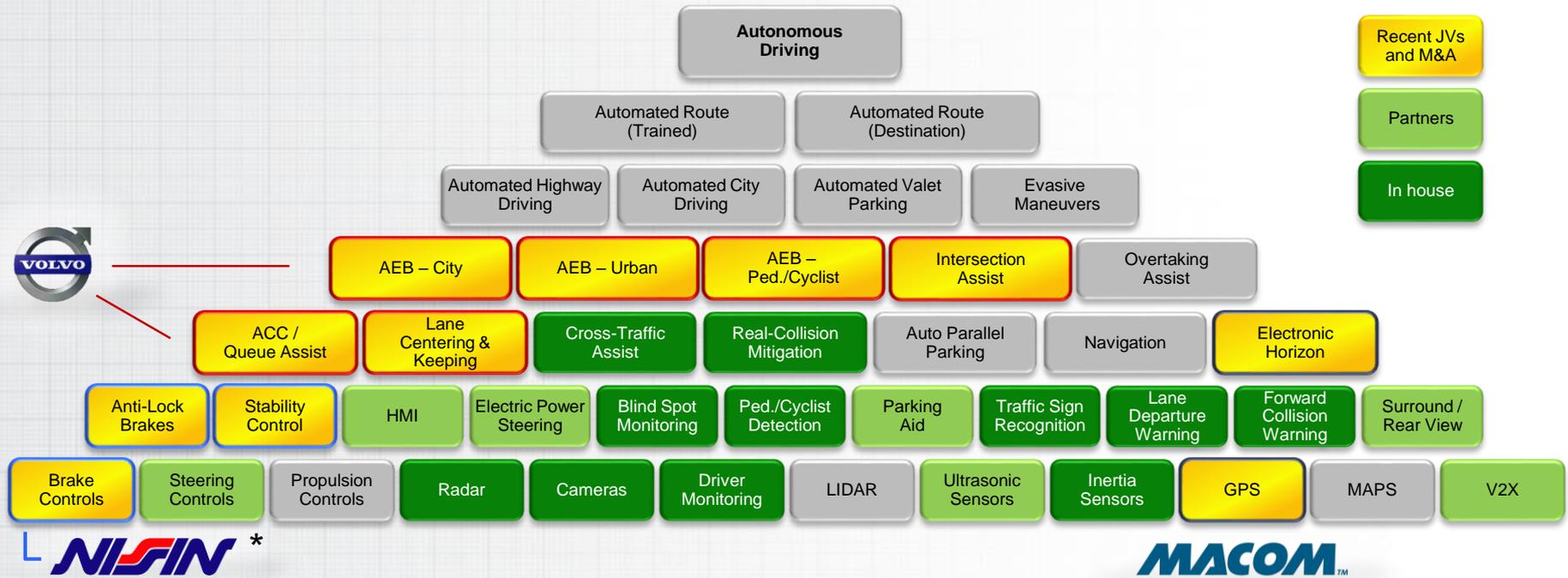


JV with  
Nissin Kogyo

(\* assumed closing early 2016)

# Real Life Safety towards Autonomous Driving

## Our current footprint within the pyramid



(\*) When transaction is closed

# Evolving 5-Star NCAP Requirements

Real Life Safety will rely on more complex Sensor Fusion Solutions

	2013	2014	2016	2018	2020
 Central ADAS ECU			 <b>Market Intro Autoliv 1<sup>st</sup></b>		 Preferred
 Front Corner Radar			 <b>Market Intro Autoliv 1<sup>st</sup></b>		 Preferred
 Front Sensor	 <b>AEB Mono AEB Radar Autoliv 1<sup>st</sup></b>	 1 sensor required		 Fusion preferred	 Fusion required
		 City Interurban 	 Pedestrians 	 Cyclists 	 Intersections 
	2013	2014	2016	2018	2020

# End of Decade Targets

CMD – October 2015

- Changing industry landscape
- Focus on Quality and Real Life Safety is our way to stay ahead
- Long term Financial Targets remain unchanged
- Strategic targets through end of decade:
  - Sales target is \$12B with an ambition to reach up to \$15B
  - Expand our presence in our new more than \$12B market
  - Grow EPS faster than our Sales growth rate
  - Investing in growth is our priority, excess Free Cash flow is returned to shareholders over time



# A Sound Investment

- Strong long-term top-line growth
- Among industry leading margins and return on capital
- Strong balance sheet and free cash flow generation over the cycles
- Shareholder returns over time



# Thank you!



## Autoliv

Every year, Autoliv's products  
save over 30,000 lives

and prevent ten times  
as many severe injuries