



Safe Harbor Statement*

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Autoliv

North American International Auto Show

NEWS FLASH

2019 Vehicles of the Year











Genesis G70





RAM 1500



Vehicle Models Debuted at NAIAS'19

where Autoliv products are well represented













Uniquely Positioned to Save More Lives

Continuous innovation to reduce global traffic fatalities



Focus on Real Life Safety

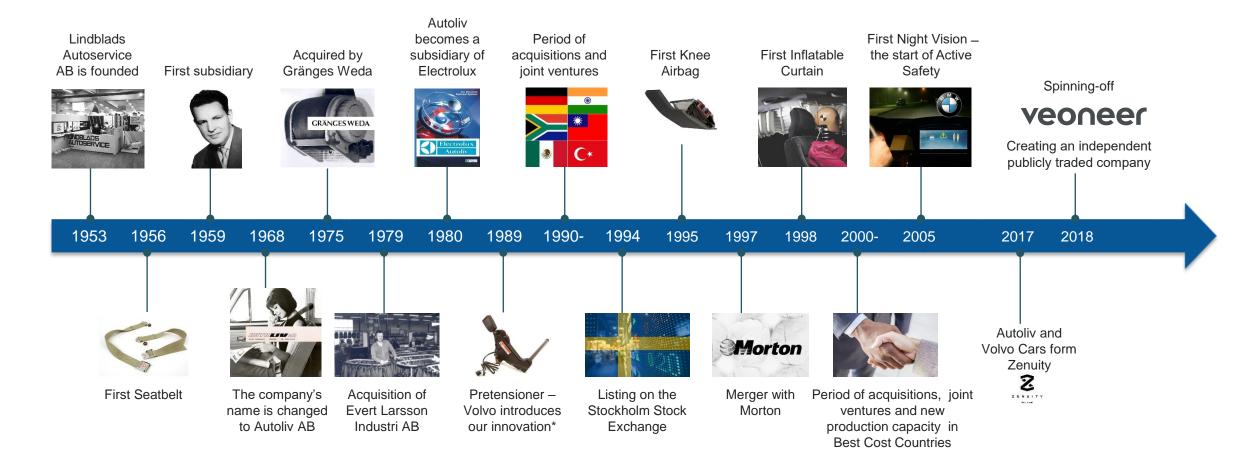


More sophisticated safety solutions for future autonomous and electric vehicles





Autoliv – 65 years of Dedication to Saving Lives Entering the next phase





Autoliv 2018 milestones

Autoliv and Veoneer to pursue respective growth opportunities separately

- New executive management team from April
- Veoneer spin-off in July
 - Improved focus and flexibility for both companies (culture, people, business)
 - Improved investor choice
 - Increased debt for Autoliv
- Above market growth reported first nine months supported by strong order intake since 2015
- Continued strong order intake reported first nine months
- Light vehicle market in China under pressure in second half year
- New emission test protocol in Europe with volatile light vehicle production in second half year

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Autoliv Today is Stronger Than Ever

MARKET SHARE 2018

40%

worldwide, clear #1

OPERATIONS IN

27

countries

ORDER INTAKE

>50%

of global orders 2017A

DAILY PRODUCTION

~1 Mn

units

SALES

\$8.6 Bn

LTM

EMPLOYEES

>66,000 worldwide

ADJ. OPERATING INCOME(1)

922 Mn

LTM (10.7% margin)

FREE CASH FLOW(2)

\$403 Mn

2017A (70% cash conv.(3))

Essential Product Portfolio for Saving Lives Today











²⁾ Defined as Operating Cash Flow less Capital Expenditures, net



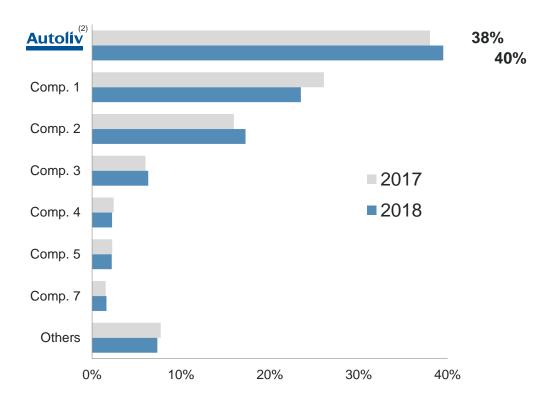
⁽³⁾ Defined as Free Cash Flow/ Net Income

Strong starting point

Clear market leader in a consolidated market

Firm Market Leader at 40% – Far Exceeding Competitors⁽¹⁾

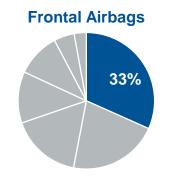
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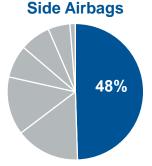


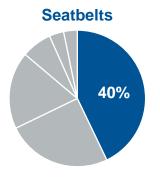
- (1) Estimated market shares. Based on Autoliv's passive safety market definition including airbags, seatbelts and steering wheels
- (2) Pro forma combination

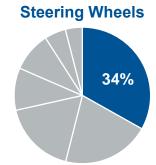
#1 Rankings Across Product Portfolio(1)

2018A











Well-Balanced Customer Base

Significant Presence in High-Growth Markets

Serving All Major OEMs...

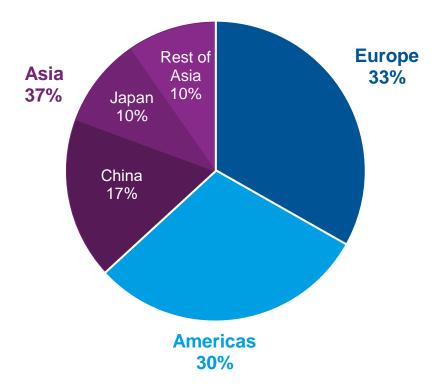
% of 2017A Revenue⁽¹⁾

RENAULT NISSAN MITSUBISHI	15%
Ford	10%
VOLKSWAGEN AKTIENGESELLSCHAFT	9%
HYUNDRI / KIA MOTORS	9%
TOYOTA	7%
FIAT CHRYSLER AUTOMOBILES	7%
HONDA The Power of Dreams	7%
DAIMLER	6%

<u>GM</u>		5%
BMW GROUP		4%
PSA		4%
Mezda		2%
(NOTANO)		2%
长城汽车 Great Wall Motors		2%
LAND- -ROVER	JAGUAR	2%
Others		9%

...Across All Key Automotive Regions

% of 2017A Revenue⁽¹⁾



⁽¹⁾ Pro forma of M&A transactions amongst OEMs, including PSA's acquisition of Opel/ Vauxhall from General Motors and Nissan's stake purchase in Mitsubishi



Highest Reliability and Industry-Leading Quality Standards

"Zero Defects by Flawless Execution"

Relentless Focus on Quality Through Q5 Program...

Design Robust
Products

Buy Flawless
Components

Manufacture
Flawless Products

Verify Product
Conformity









Product & Process
Development

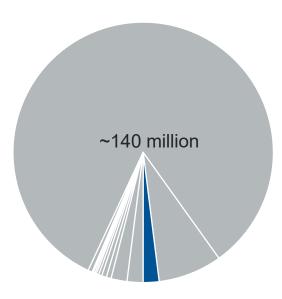
Supplier Management Production System

Mistake Proofing

- (1) Failure to meet intended state and/or specification
- (2) Scope: Recalls related to Passive Safety in Japan, Canada, US, China, South Korea, Australian, EU, UK, DE; 2010-01-01 to 2018-06-30
- (3) Estimated 2017A market shares

... & Minimal Recalls

Share of Global Recalls since 2010⁽²⁾



Autoliv 2% vs. 38% Market Share⁽³⁾



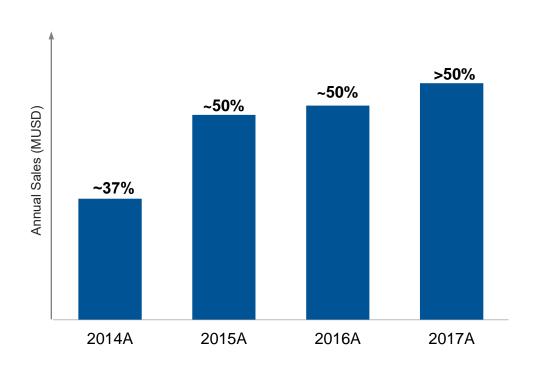
Strong order intake

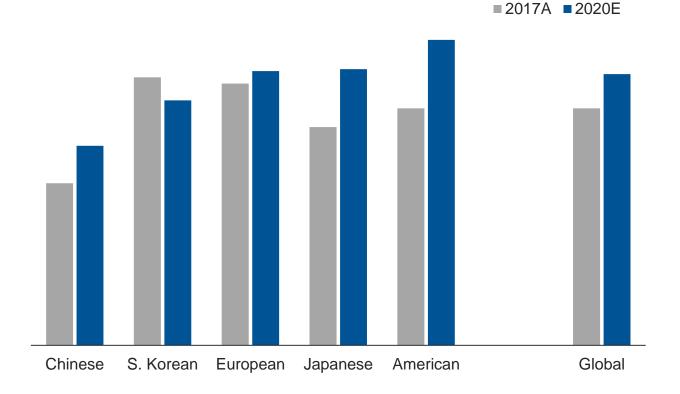
Order Intake Tailwind Driving Sales Growth and Market Share Gains

Strong Order Momentum...

Order Intake Annualized Sales and Share of total awards; 2014A-17A

... bringing Broad Market Share by Brand Origin Improvement

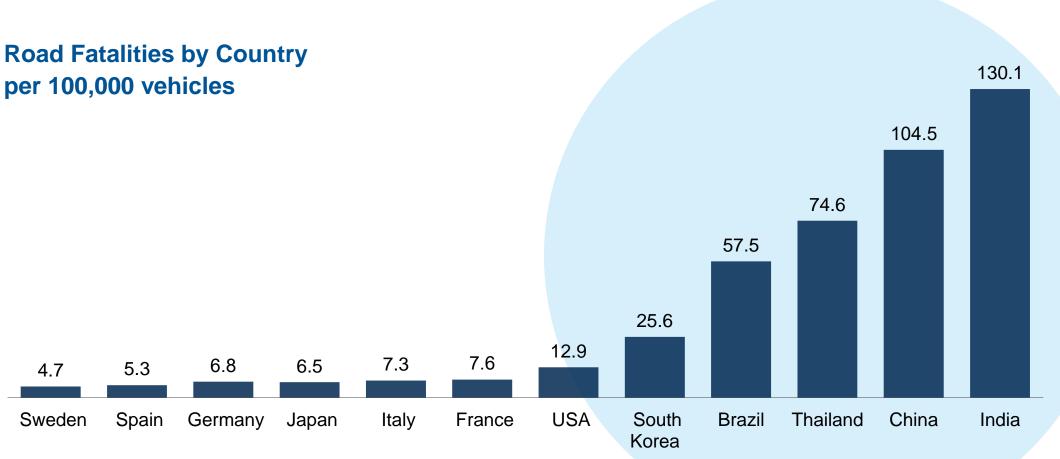






Based on to IHS' LVP (Light Vehicle Production) outlook as of April, 2018.

Significant traffic safety improvement potential



Sources: WHO Global Status Report on Road Safety 2015
Published in 2015 Based on Data Collected in 2013 (Latest Available Data)



Saving More Lives & Creating Sustainable Growth





R&D Priorities

New Restraint Considerations = Current Occupant Safety Requirements + More

ADAS & AD



Main Challenge: New seating positions

- Safety solutions more complex: Need to adapt to new & varying seating positions
- ✓ Safety integrated on seats

Electrification

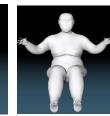


Main challenges: Weight & noise

- ✓ New materials development
- ✓ Electrical solutions
- New quieter products
- ✓ Battery cut-off switches

Adaptability to Size & Age of Occupant









Adaptability of restraint systems

- ✓ Personalized restraint system
- Occupant diversity
- Child protection

and more...



Protection of:

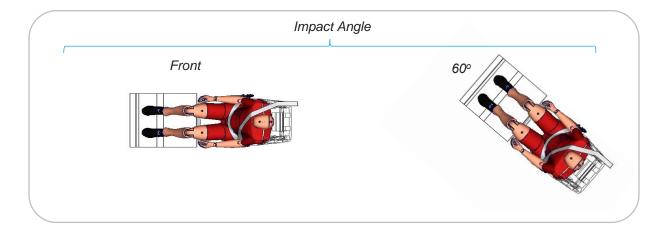
- ✓ Pedestrians
- ✓ Cyclist
- ✓ Powered two-wheelers
- ✓ Others



Research/Technology 2025+

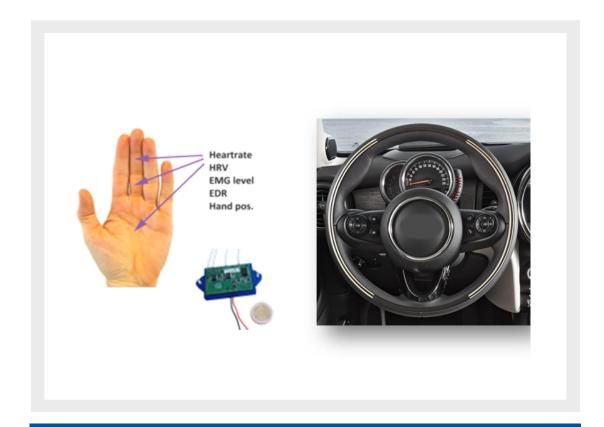


Collaborate with OEMs and other Tier 1 to develop new airbags and seat belt systems for automated vehicles





Research/Technology 2025+



Integrated sensing for Hands On Detection, Vital Sign Measurement and HMI



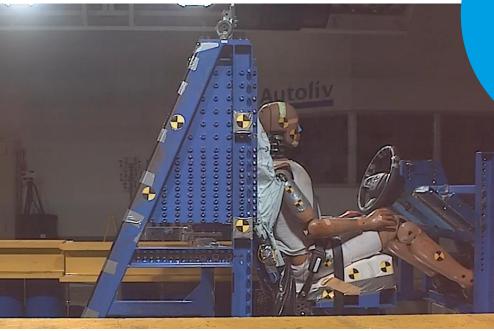
HMI for automated driving including Steer by Wire and Stowable Steering



LifeCell 360 Airbag

- Extension of LifeCell for side impact concept.
- Protection for all impact directions





Example:
Frontal impact
35 mph (USNCAP)
in conventional
seating position



Introducing Driving Avatar



- Safety Score uses your smartphone to help you become a safer driver.
- By monitoring real-time:
 - Acceleration
 - Speed
 - Braking
 - Turning
 - Phone use

Autoliv's proprietary data algorithms and known causes of accidents provides a **personal safe driving score**.

 The driver can review data and learn how to become a safer driver by changing driving behavior and habits.



Introducing Driving Avatar



- The **individual driving score** can be used by:
 - ride-hailing services
 - taxi, limousine and other fleet and professional driving companies

to provide an unbiased picture of drivers' safe-driving habits and provide a platform for evaluating and improving behavior.

 Additionally, a personalized Safety Score could also be used to reduce insurance costs.



Innovating to support Electrification of vehicles

Innovation Within Current Portfolio

Reducing Weight and Size





Pre-Pretensioner

- Mechatronics integration
- ✓ mass and package reduction

New Passenger Inflator

- ✓ Modular design
- ✓ Overall system cost reduction

Reducing Noise



Improved Seatbelt Designs

- Reduce noise levels of existing designs
- ✓ New Seatbelt designs

Opportunities from more electrical power



New Seatbelt Retractor

- √ 100% Electric Seat-belt Tensioning
- Improved adaptivity

Safeguard against fires caused by short-circuiting





Pyrotechnic Safety Switch

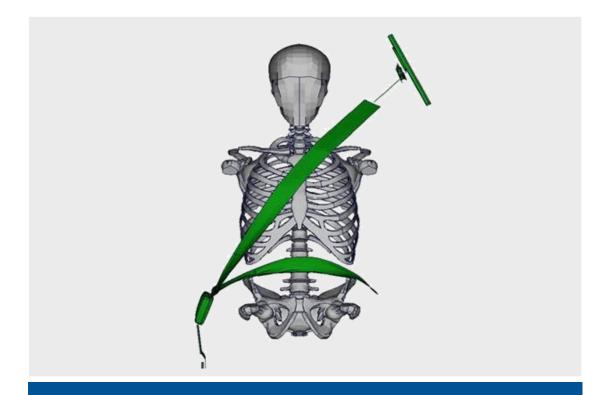
- Disconnects the batteries from the circuit board in less than a millisecond
- Uses proven airbag initiator technology



Developing Adaptive Restraint Systems



Work with OEMs to increase usage and functionality of Human Body Models beyond standard crash dummies



Biometric/biomechanical studies with leading universities to predict brain injuries, rib fractures and thoracic injuries for all occupants



Example: Countermeasures for the Fragile Population



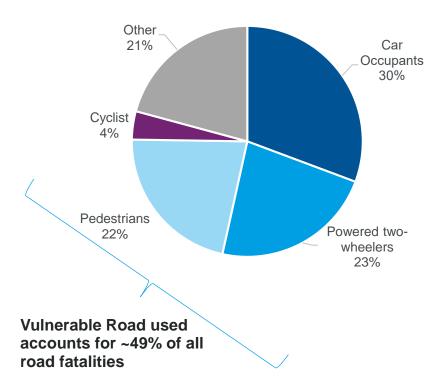
Adaptability of restraint systems

✓ Personalized restraint system can reduce injuries by 10%-30%



Vulnerable Road Users

Road traffic death by type road user*







Pedestrian Airbag Saves the Life of 12-year Old Boy



Vulnerable road users and autonomous vehicles

- Protection of vulnerable road users key for acceptance of Autonoumous vehicles
- OEMs and RoboTaxi companies show increased interest because when driving shifts from driver to machine, liability transfers from driver to corporation



2019 Focus

- Continue to Execute on Strong Order Book
- **Product Launch Effectiveness**
- Monitor and Manage Light Vehicle Market Volatility
- Secure Our New and Stronger Market Position
- Capital Market Day in Second Half Year
- Save More Lives



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