The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

Value<

Disclaimer : Except for those statements that report the Company's historical results, the statements being made are forward looking statements. Actual results could differ materially from those projected in the forward looking statements. Factors which could cause actual results to differ from expectations include the following: volatility in supply and demand affecting revenues and market prices, price and availability of silicon foundry, assembly and test prices, assembly and test subcontract capacity required to meet financial targets and/or meet backlog requirements, risks and delays associated with bringing up new production capabilities or with deliveries from subcontractors, timing and market acceptance of new products, increased expenses associated with new product acceptance of new products, increased expenses associated with new product introductions of process changes, delays in developing or achieving volume production of new products, which can result in delays or failure to contribute to revenues and profits, ability of the Company to maintain its customer and vendor base and delays in and/or inability in raising additional capital.

Agenda

• *

09:30	Arrival and coffee	
10:00	Welcome and introduction Melexis' playground for the next 5 years	Marc Biron, V
10:45	Break	
11:00	EV powertrain	Syrine Manse
11:15	EV thermal management	Laurent Otte
11:30	EV battery	Magnus Ahls
11:45	E-braking and E-steering	Antonius Du
12:00	Lighting	Michael Ben
12:15	Questions from the audience	
12:45	Lunch	
13:15	Beyond automotive	Vincent Hilig
14:00	Questions from the audience	
14:15	Conclusion	Marc Biron
14:30	Rotation in groups: Production tour, demos and networking reception	
17:00	End of the day	

Vincent Hiligsmann and Karen van Griensven

sour and Bruno Boury

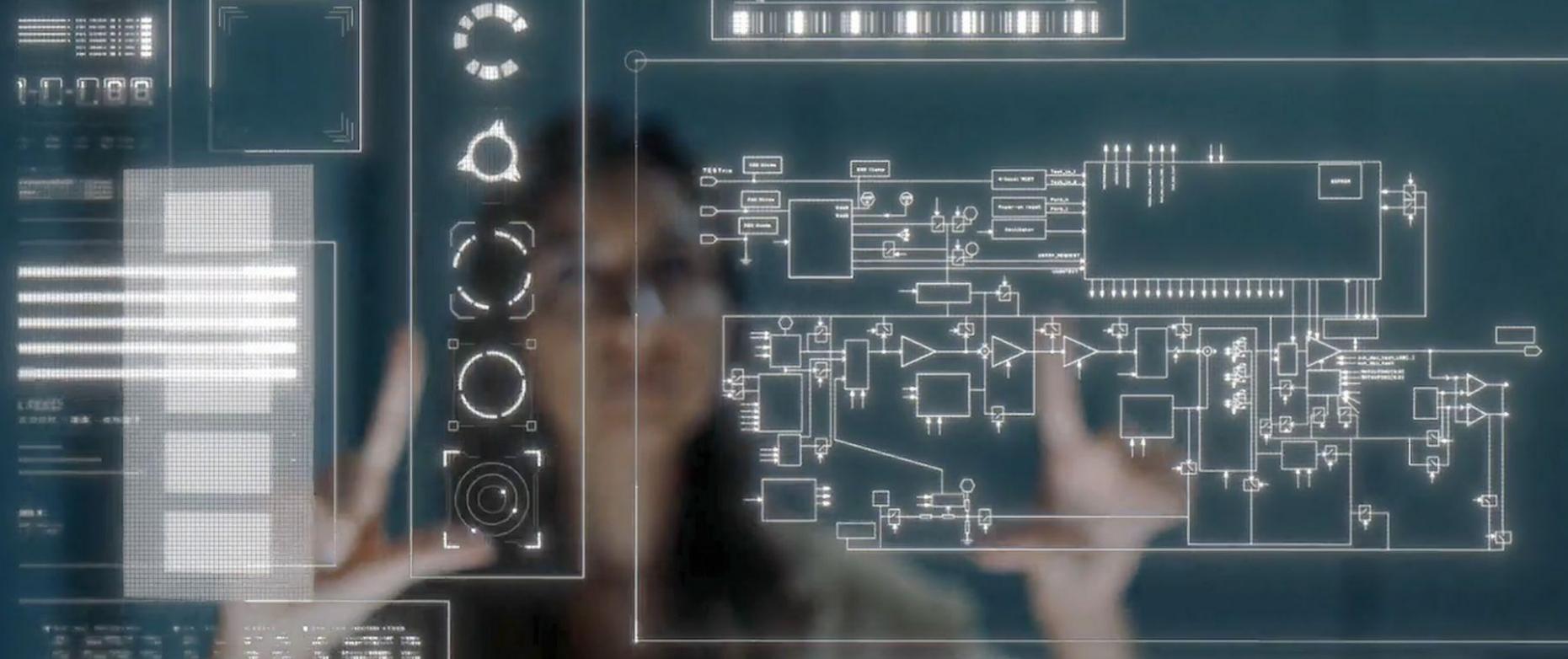
e and Marc Lambrechts

stedt

uisters and Karen Stinckens

nder

gsmann and Gael Close



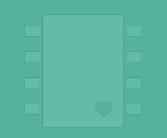
and a state of the second s

iner-mant can

CATE AVAILABLE COMMENTS

r





Electrification Electrification

Climate change Climate change

Competition for talent Competition for talent

Aging and increasing world population

Aging and increasing world population

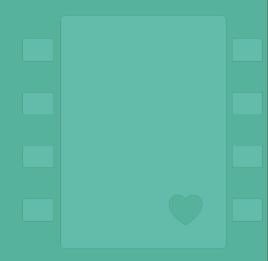


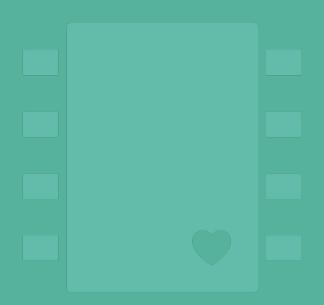
Changing mobility Changing mobility

The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

China's EV leadership China's EV leadership

Artificial intelligence **Artificial intelligence**







Strategy

Technology

Automotive industry Innovation New applications

Beyond automotive \blacksquare Digital health, Robotics, Alternative mobility, Sustainable world

Partnerships

Customers, suppliers, research and educational world

Increased knowledge, broadening horizons, sharing inspiration

People

Attract the best imaginable talent

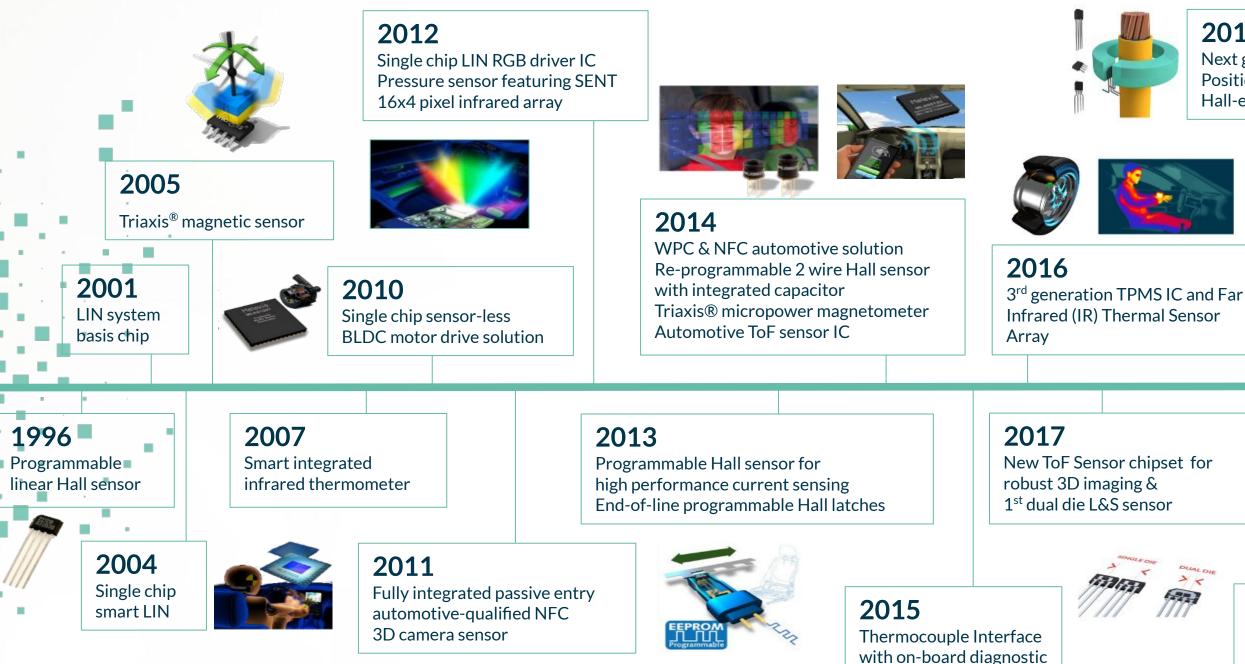
A vibrant, exciting and inclusive work environment

Innovation with Heart

The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

Melexis

Industry first from Melexis



The content of this presentation is CONFIDENTIAL & PROPRIETARY, ALL Rights Reserved.

2018

Next generation Triaxis[®] Position sensor IC and Hall-effect current sensors

2023

First contactless temperature to be integrated in smart-watch Unprecedented accuracy for Hall-effect DC current sensing Triphibian revolutionizing the world of MEMS pressure sensors by measuring gas and liquid media from 2 to 70 bar



2020 Multi-channel RGB-LED driver enabling high-speed light animations (MeLiBu®)



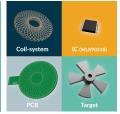




. . .

- E

2021 Inductive resolver with innovative architecture



featuring SENT

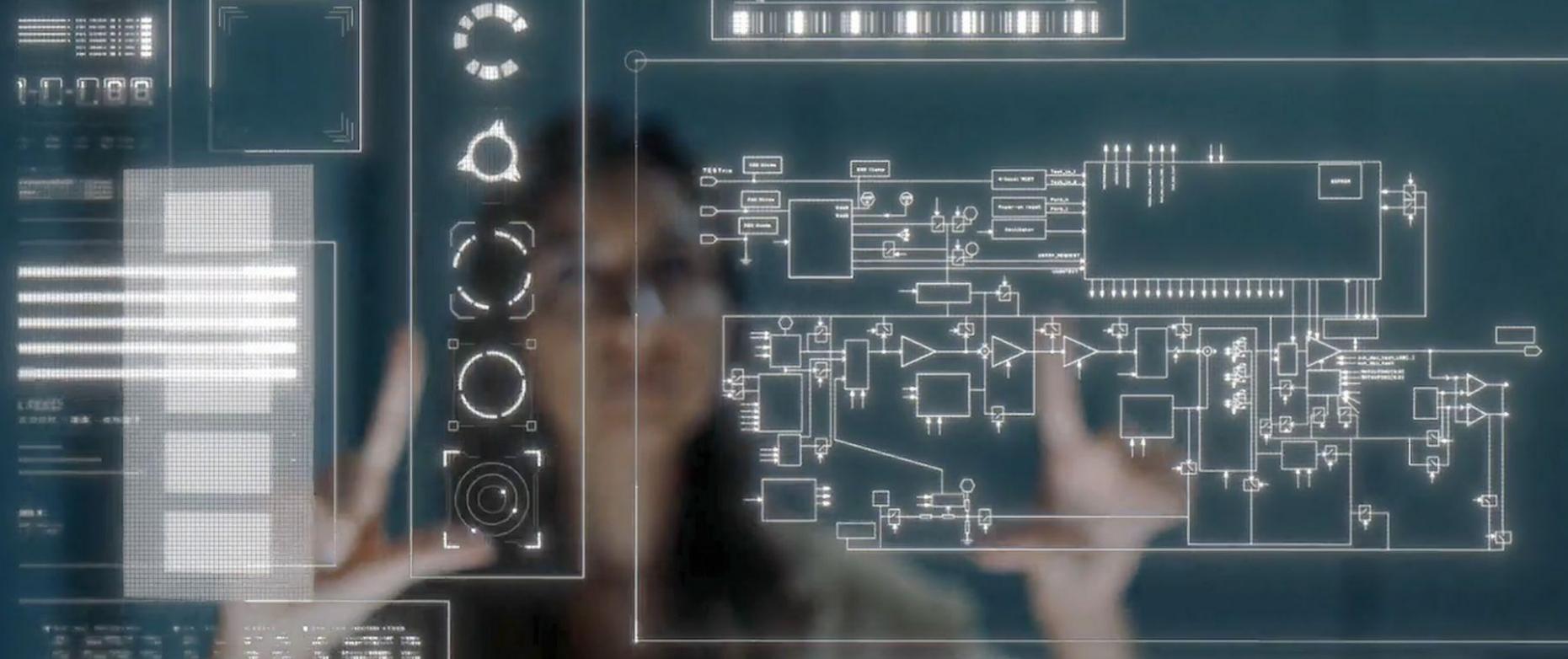
2019 Automotive grade single-chip VGA ToF sensor Miniature medical grade infrared temperature sensor

2022

Tactaxis gives robot a sense of touch Revolutionary floating switch World's first pico-resolver Most accurate automotive pressure sensor ever made Combined dual Latch and Switch Triaxis[®] PCB-less with dual stack dies





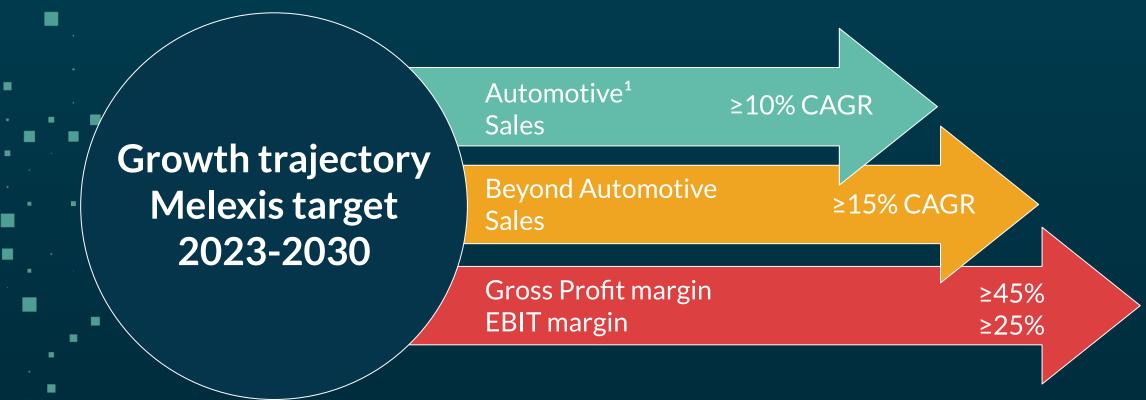


and a state of the second s

iner-mant can

CATE AVAILABLE COMMENTS

r



(¹) <u>Assumption</u>: 0% growth for the global vehicle production

The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

Growth drivers

EV powertrain EV thermal management EV battery E-braking & E-steering

Lighting

Sustainable World Alternative Mobility Robotics Digital Health



New Kuching building answers to global challenges

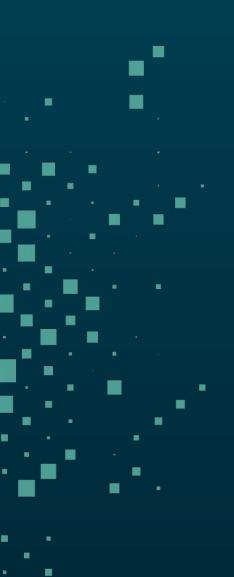
he content of this presentation is CONFIDENTIAL &

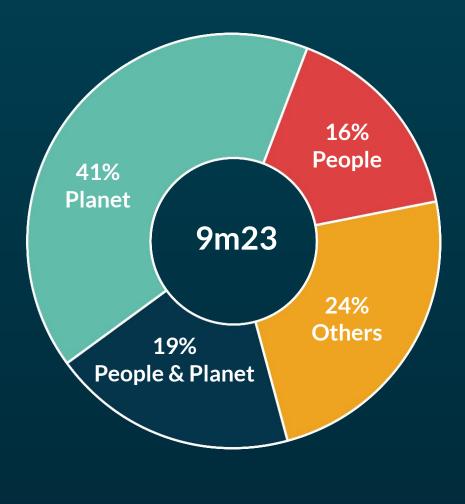
Sophia-Antipolis

The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.



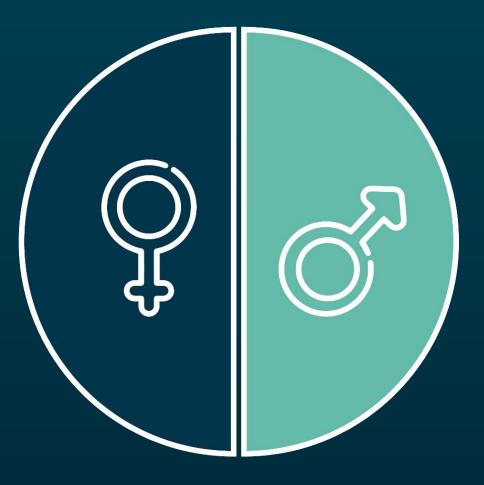






Sustainable Portfolio (% Sales)

40% less CO₂ emissions per chip by 2030



Board of directors (50/50)

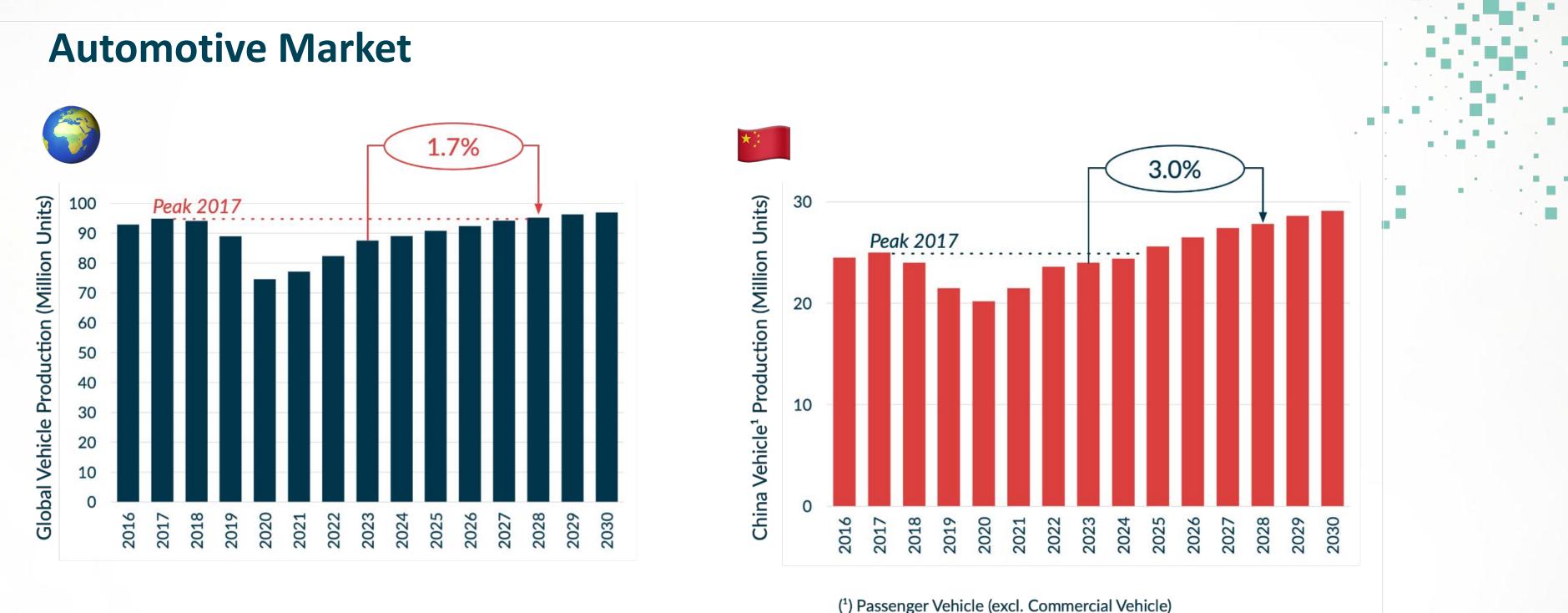




Melexis

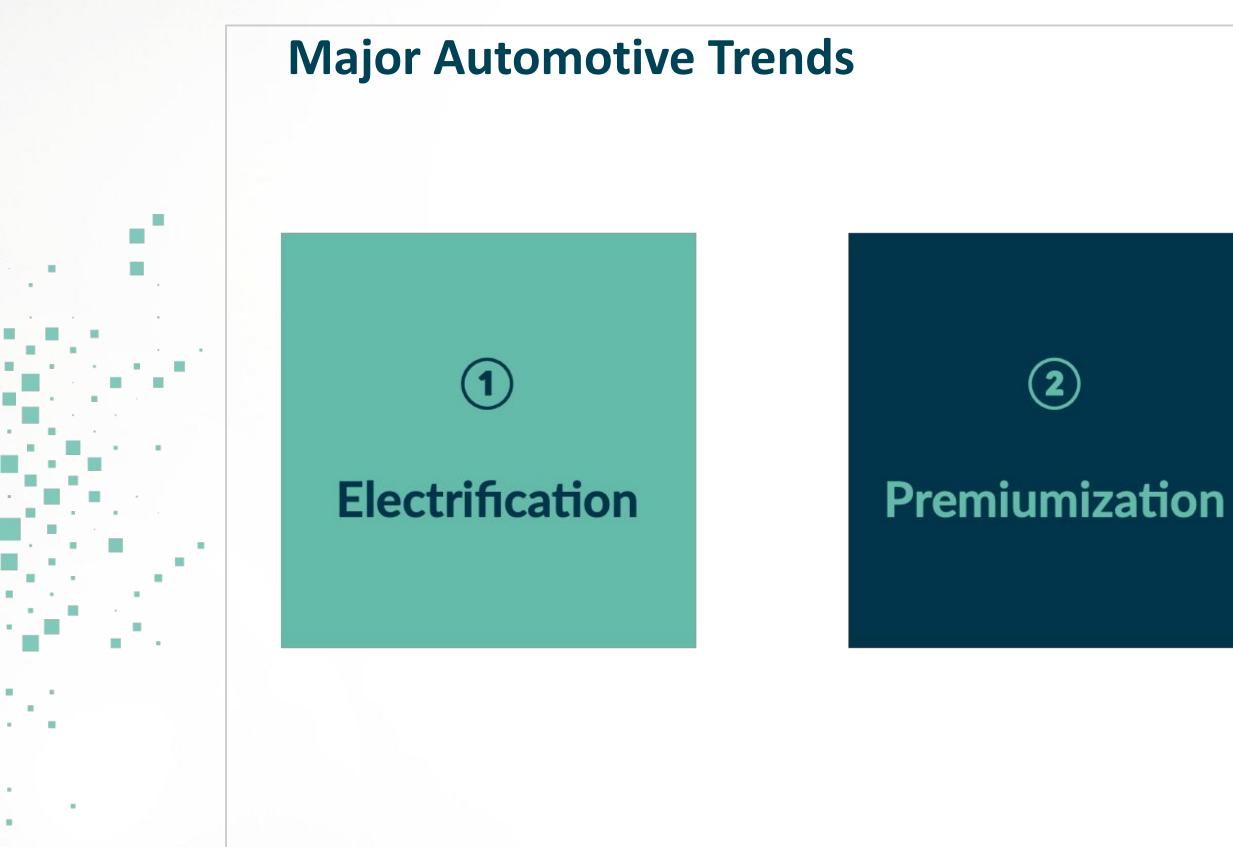
-

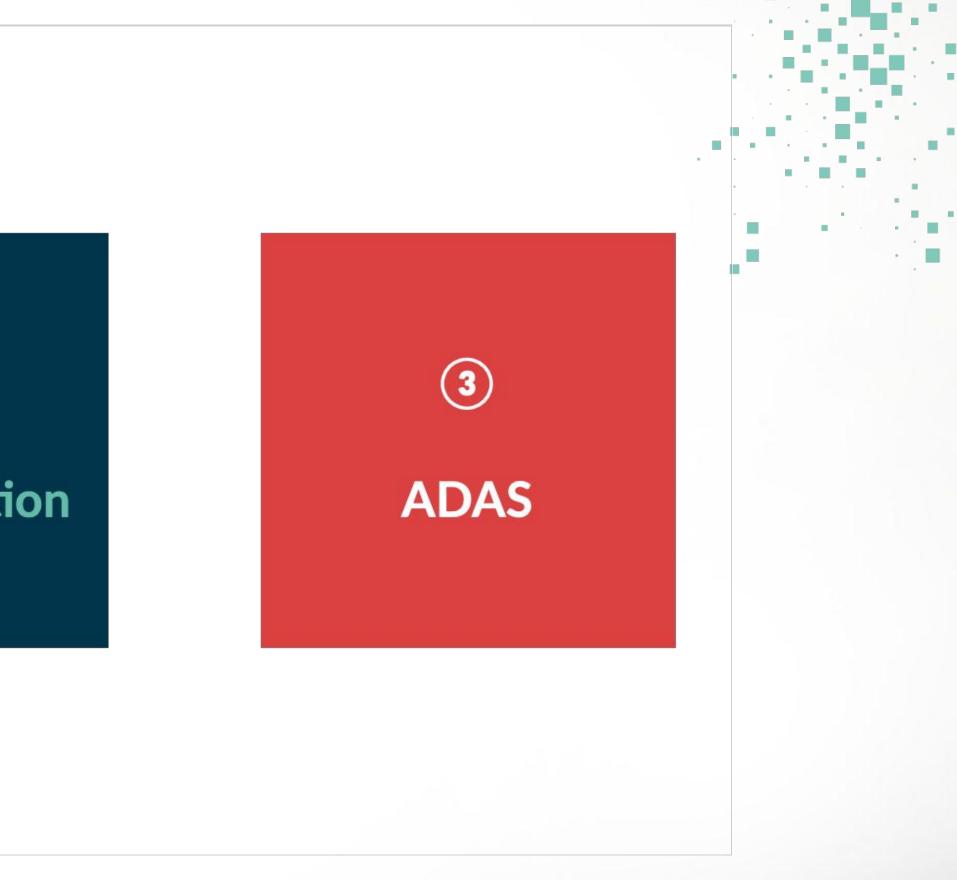




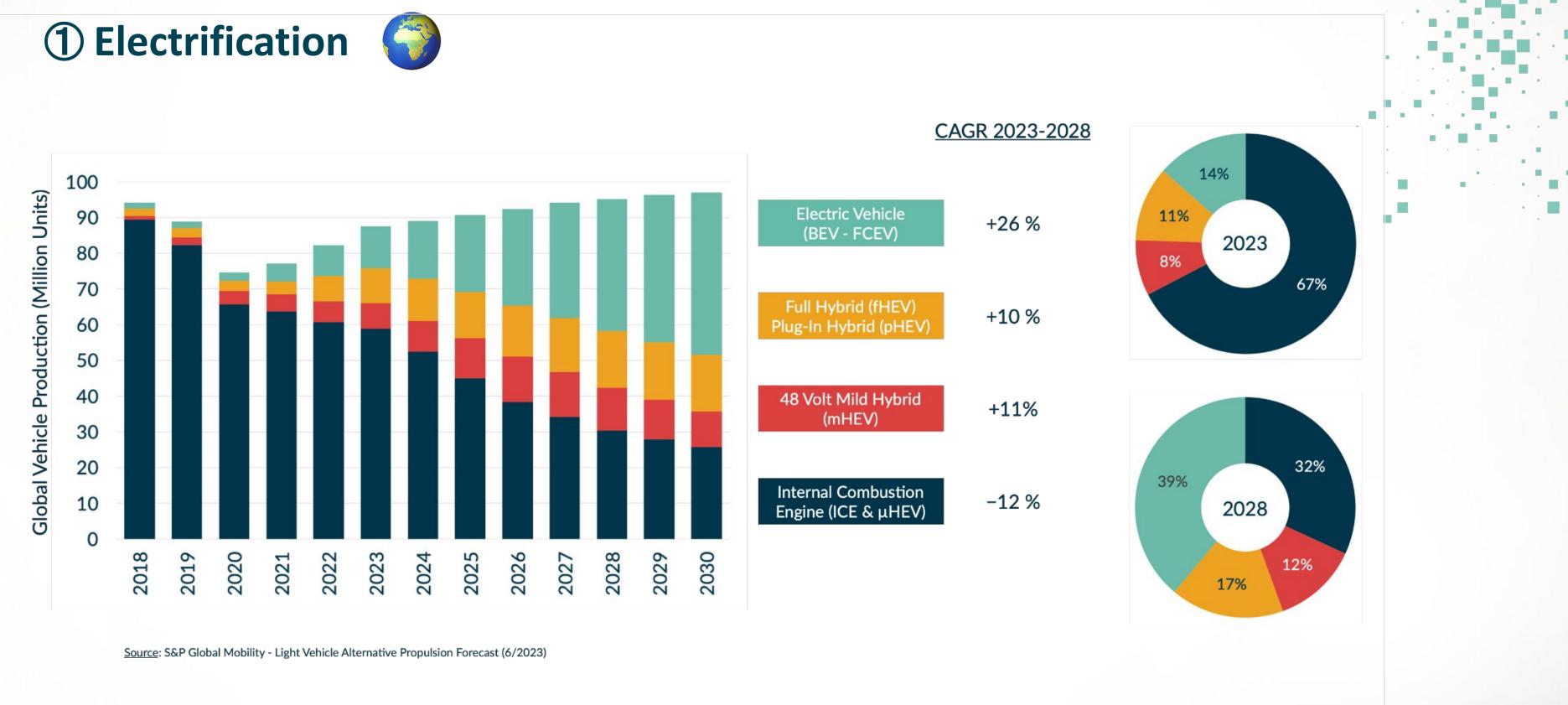
Source: S&P Global Mobility - Light Vehicle Alternative Propulsion Forecast (6/2023)

Source: China Association of Automobile Manufacturers [CAAM] (2023)





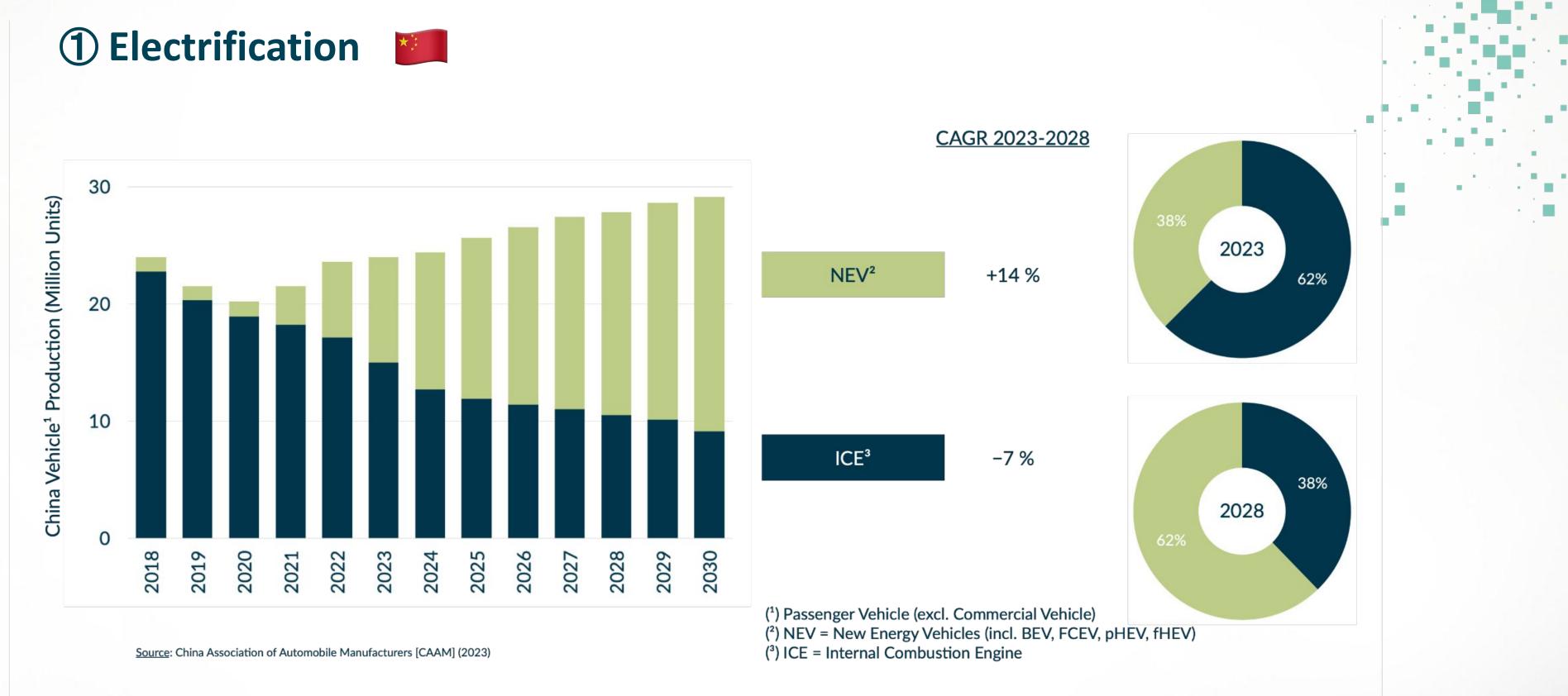




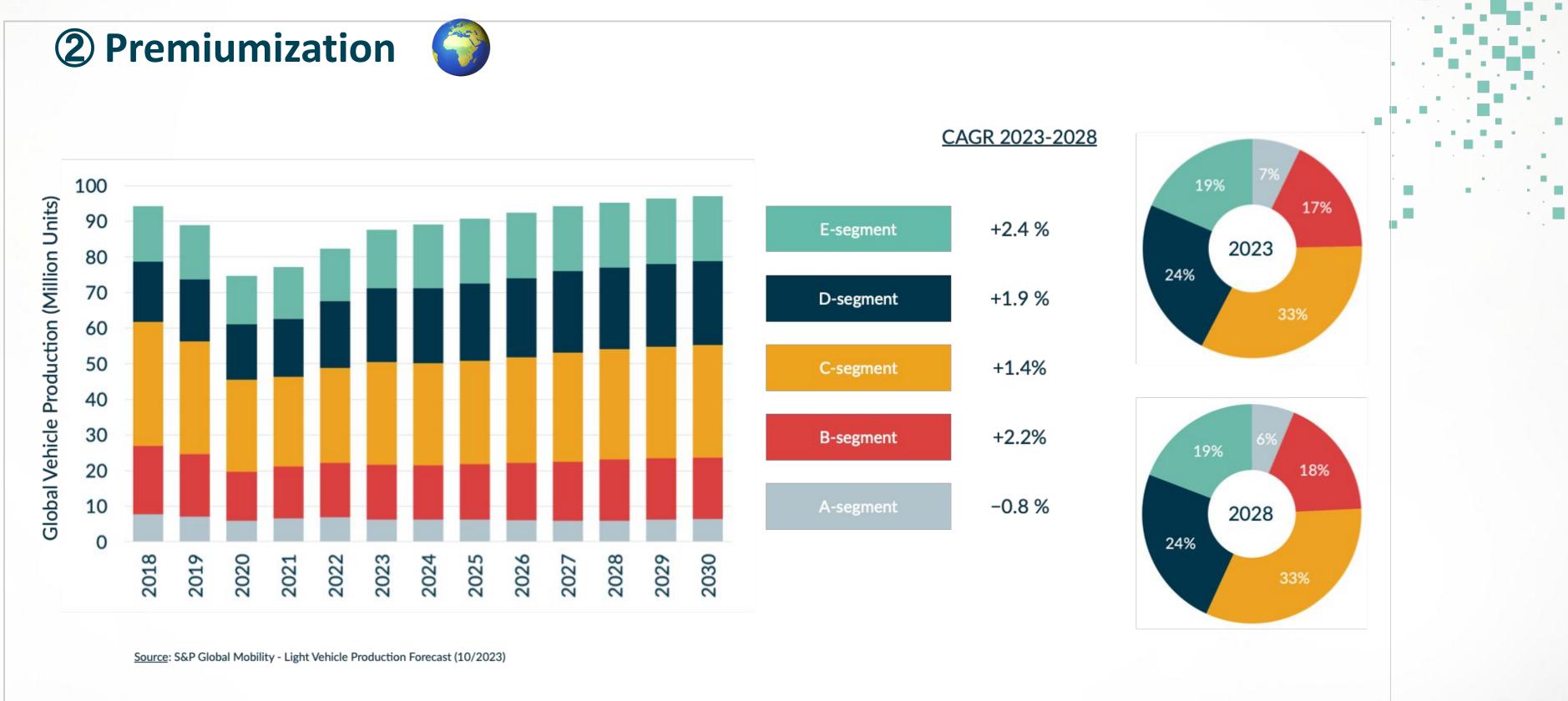
.

.



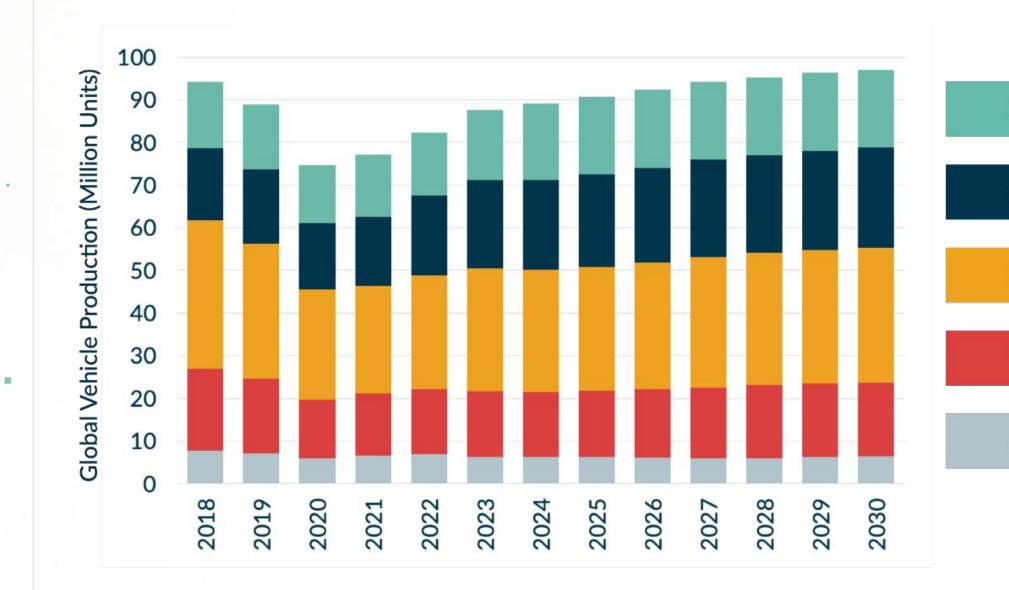


.



.





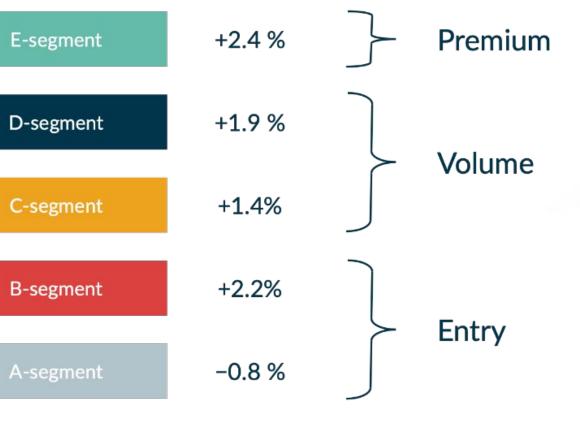
Source: S&P Global Mobility - Light Vehicle Production Forecast (10/2023)

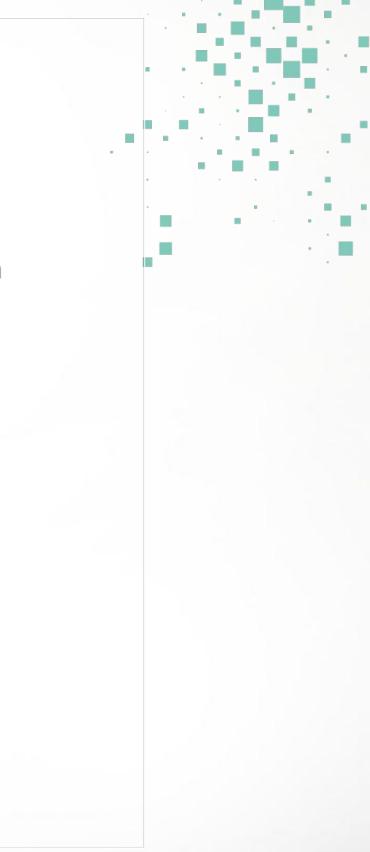
. 1

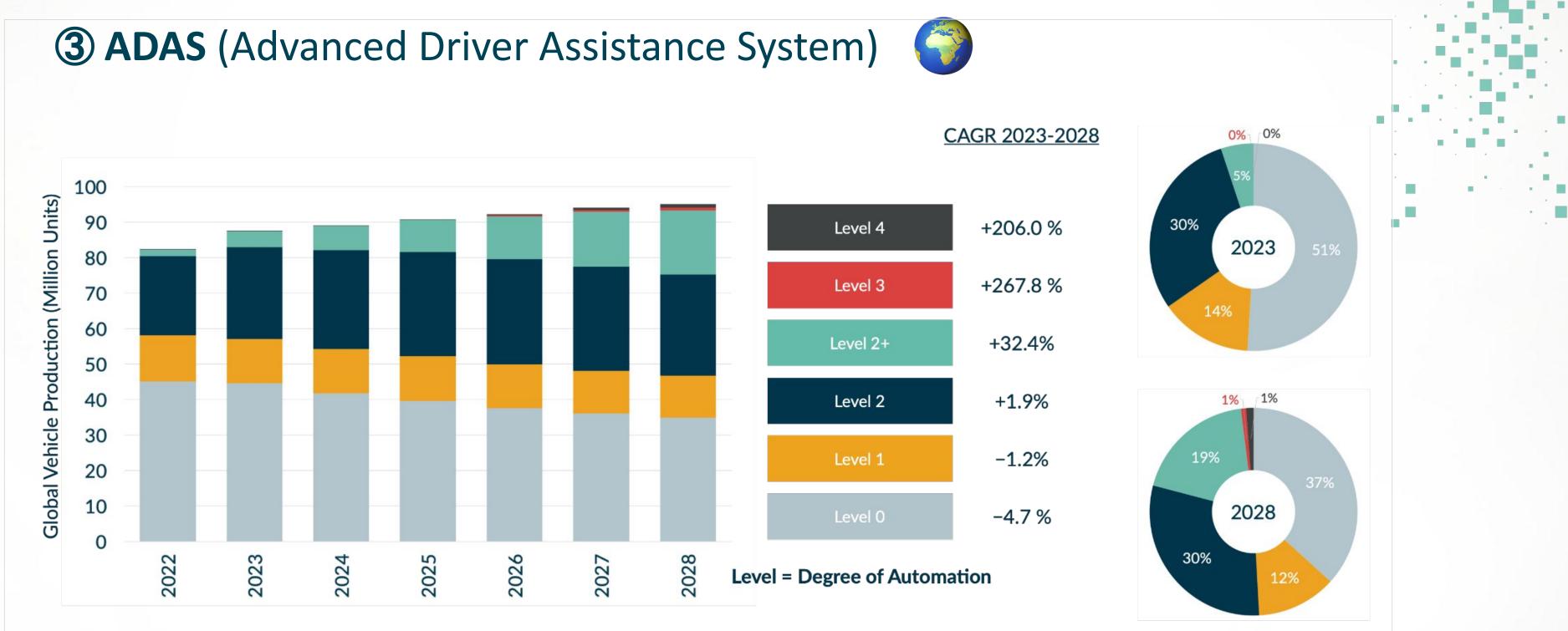
.

÷,

CAGR 2023-2028







Source: S&P Global Mobility - Autonomy Level Forecast (11/2023)

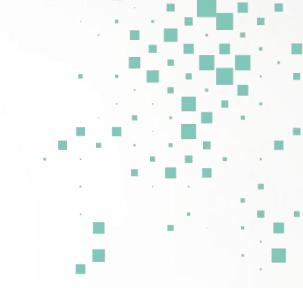
.

Serviceable Addressable Market (Euro)

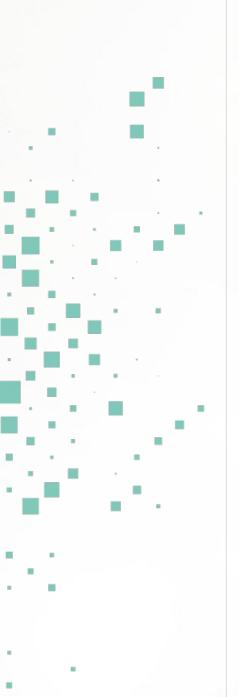
• Updated view based on a thorough bottom-up sockets model

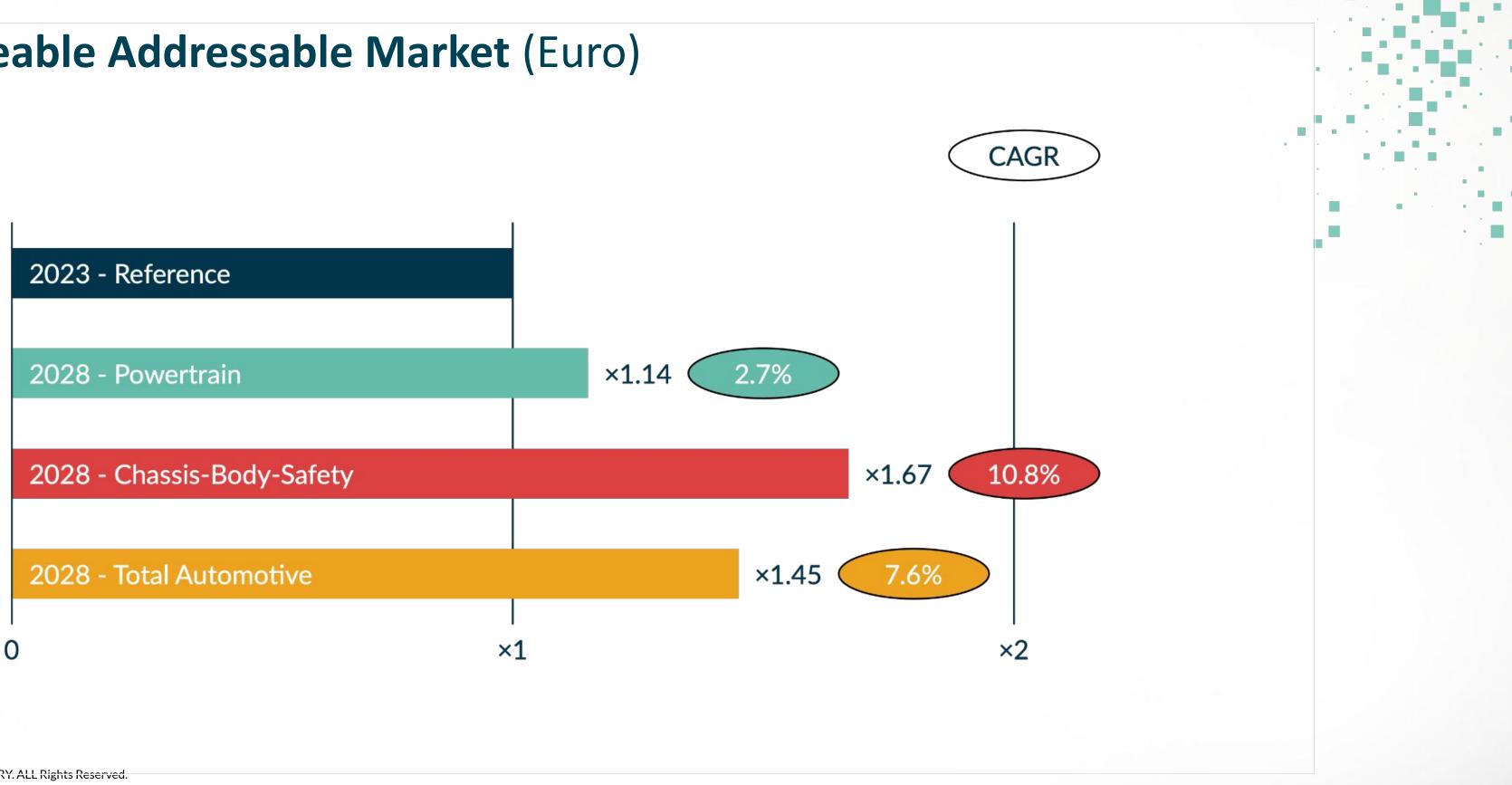
- Assumptions:
 - More conservative than S&P Global (former IHS Markit)
 - Global vehicle production: CAGR = 0% (vs. 1.7% @ S&P Global)
 - Electric Vehicle: CAGR = 18% (vs. 26% @ S&P Global)
 - Powertrain: split vs. Electrification types
 - Body-Chassis-Safety: split vs. Entry, Volume and Premium segments
- Resilience Test vs. Electrification penetration: less than ±2% variation

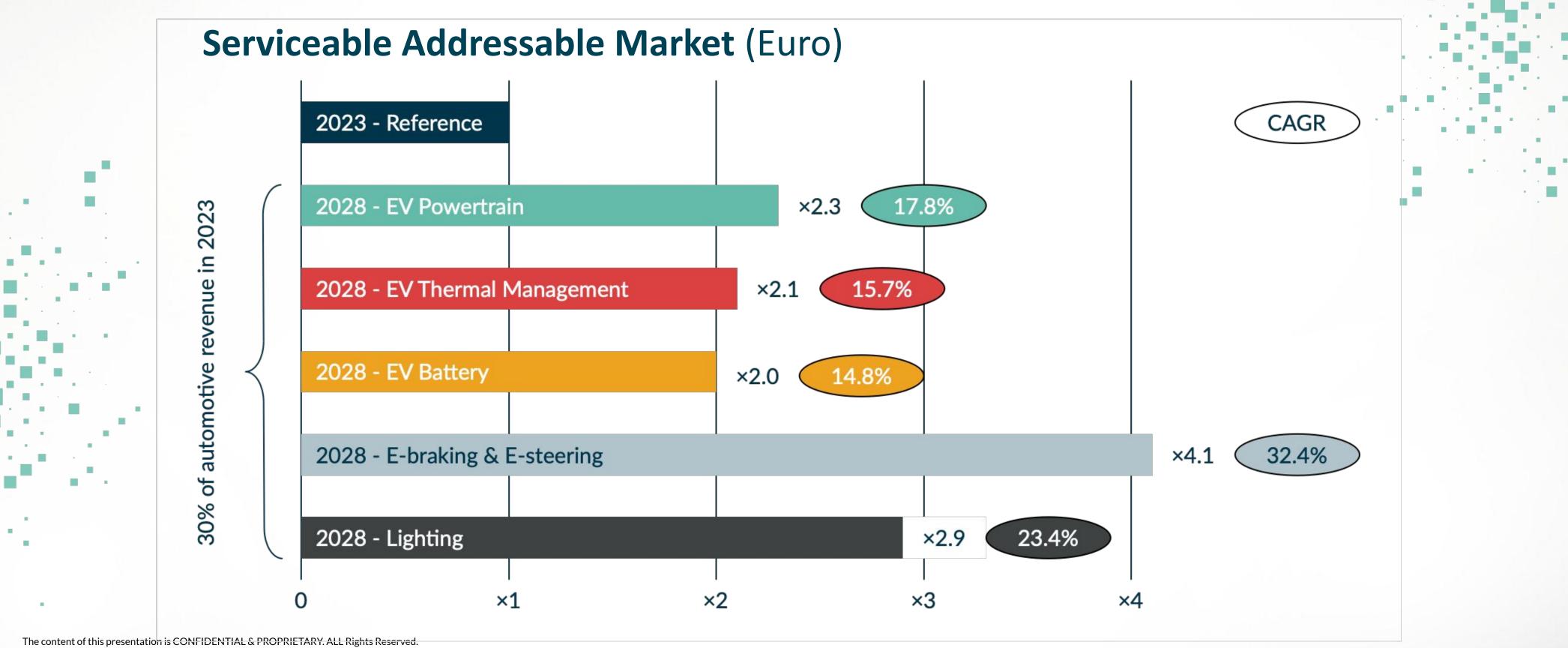
HS Markit) 7% @ S&P Global) 9 Global)



Serviceable Addressable Market (Euro)

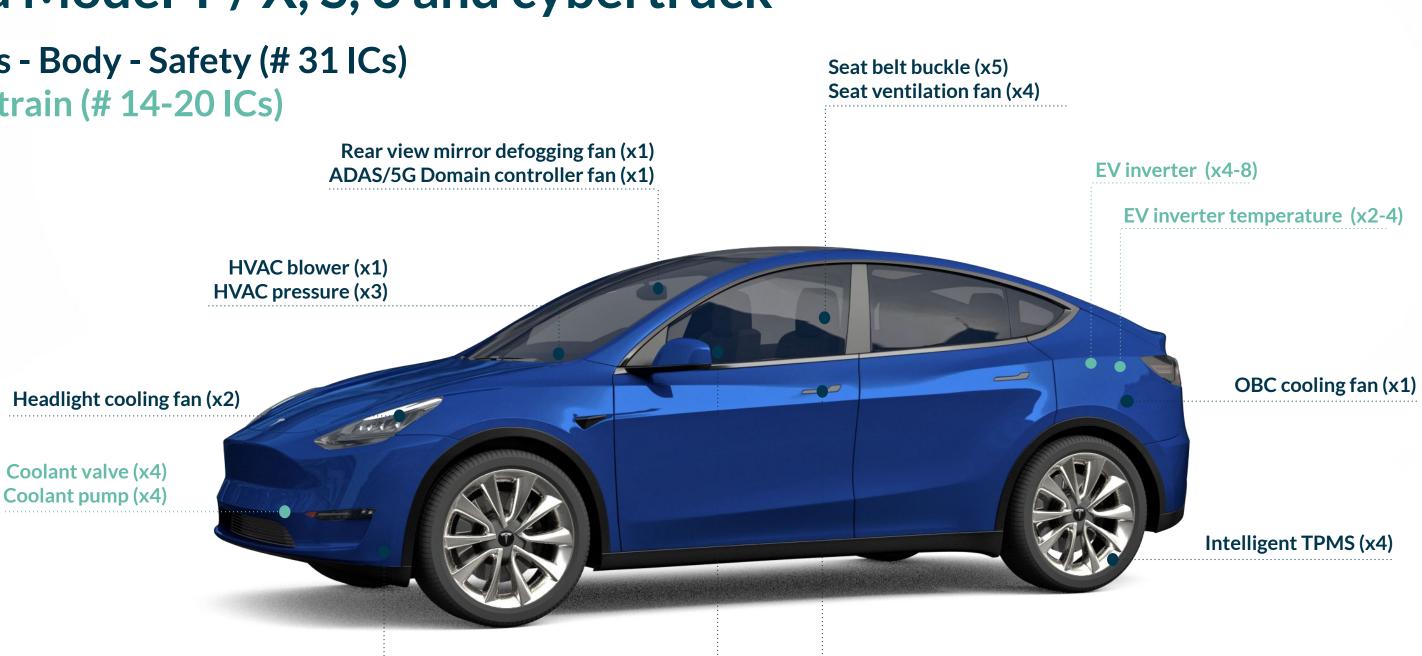






Tesla Model Y / X, S, 3 and cybertruck

Chassis - Body - Safety (# 31 ICs) Powertrain (# 14-20 ICs)



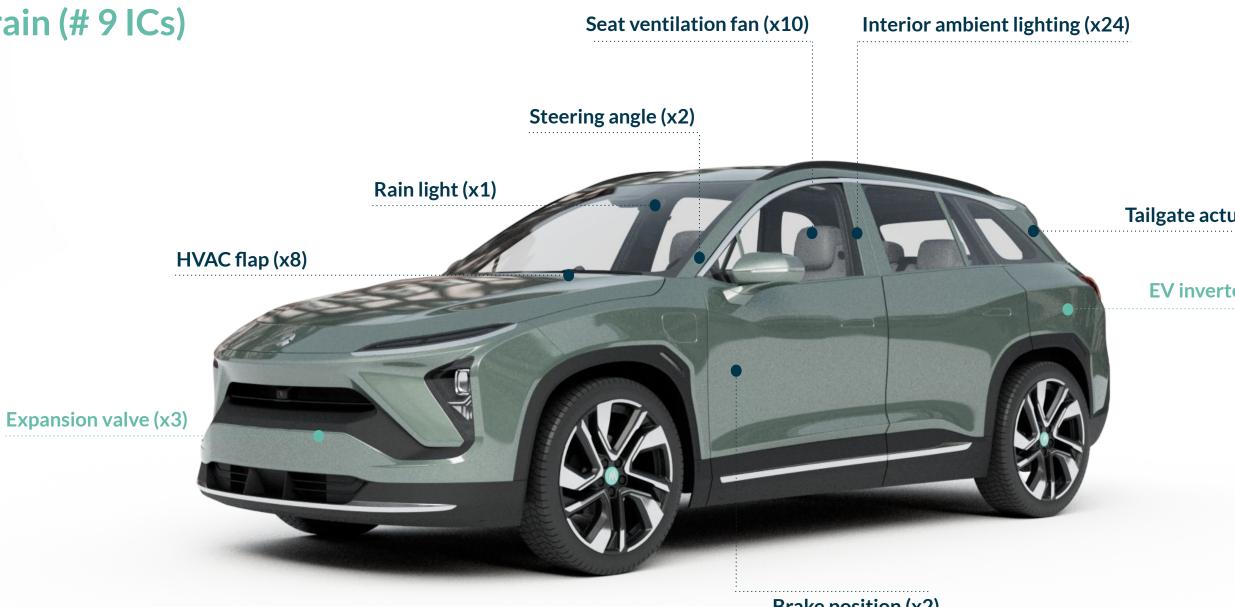
Chassis height sensor (x4)

Steering column control (x1)

Door handle wake up switch (x4)

NIO ES6 蔚来汽车

Chassis - Body - Safety (# 48 ICs) **Powertrain (# 9 ICs)**





Brake position (x2)

Tailgate actuation (x1)

EV inverter (x6)



Brake position (x2-3)

Door handle latch (x3)

Melexis' car



Powertrain

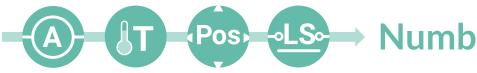
Traction inverter Battery monitoring system (BMS) DCDC converter Thermal management Onboard charger (OBC) Accelerator / brake / clutch position Brake fluid level detection Transmission Clutch switch Gear shift Engine cooling fan Water pump Water valves Grille shutter Exhaust gas recirculation (EGR) Valve exhaust gas pressure Throttle Crankshaft position Manifold absolute pressure sensor Fuel pump Fuel level

Chassis - body - safety



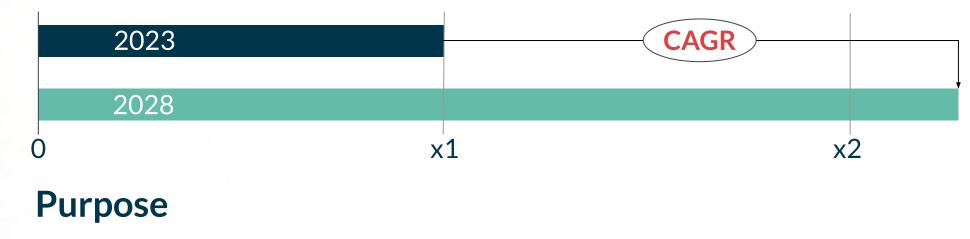
In-cabin monitoring & gesture control Driver monitoring (DMS) ADAS / Dashboard GPU cooling Washing liquid level detection Wiper Rain-light sensor Hood lock switch LED headlight ventilation fan LED and laser headlight control Tire pressure monitoring system (TPMS) Smart tire sensor Ride height Electrical power steering (EPS) Brake light switch Turn signals / stalk-end position Electric parking brake Flap position detection Climate control / HVAC Seat heating and ventilation Seat belt buckle Seat position adjuster Seat lumbar pressure Seat occupant detection Keyless entry Door lock switch Door handle wake up switch Side mirror adjuster Window lift Sunroof In-vehicle networking Interior ambient lighting Interior animated lighting Puddle lights Stop lights Rear lights Tailgate/trunk motor opener Trunk lock switch





Involved product lines

Serviceable Addressable Market (Euro)





Number of IC addressable

Introduction to the system

Growth factor

- Key application (product available)
- Key application (innovation ongoing)



Pos



Position sensor ICs

Current sensor ICs



Motor driver ICs

LS-

Latch & switch ICs



Temperature sensor ICs



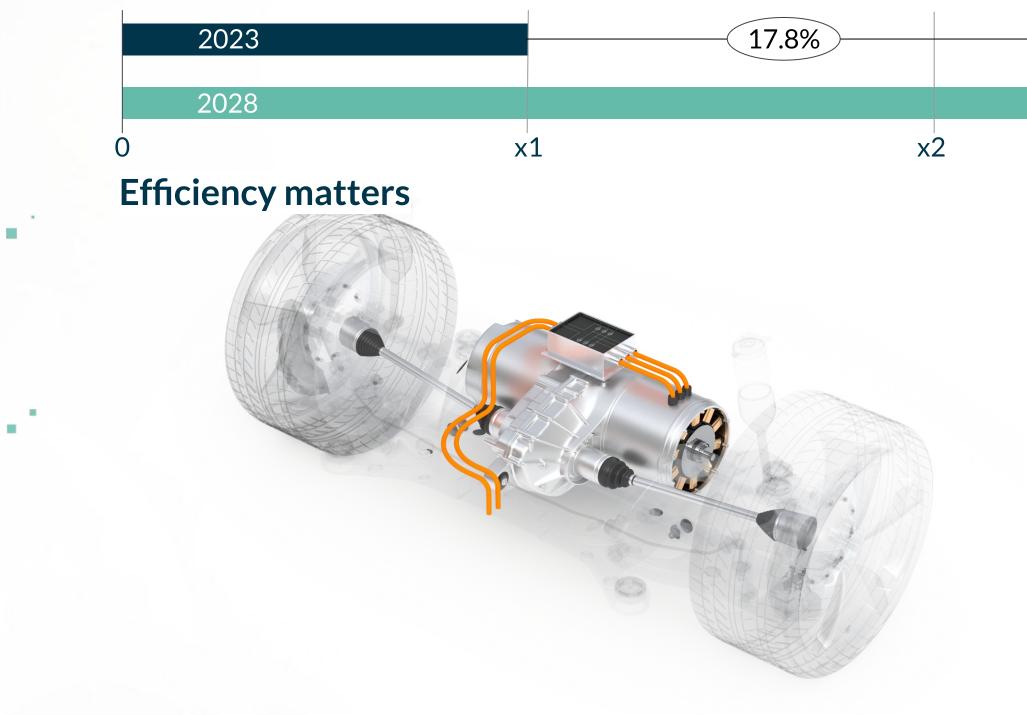
Pressure sensor ICs



Sensor interface ICs



Smart LED driver ICs



5 to 22 ICs

x2.3

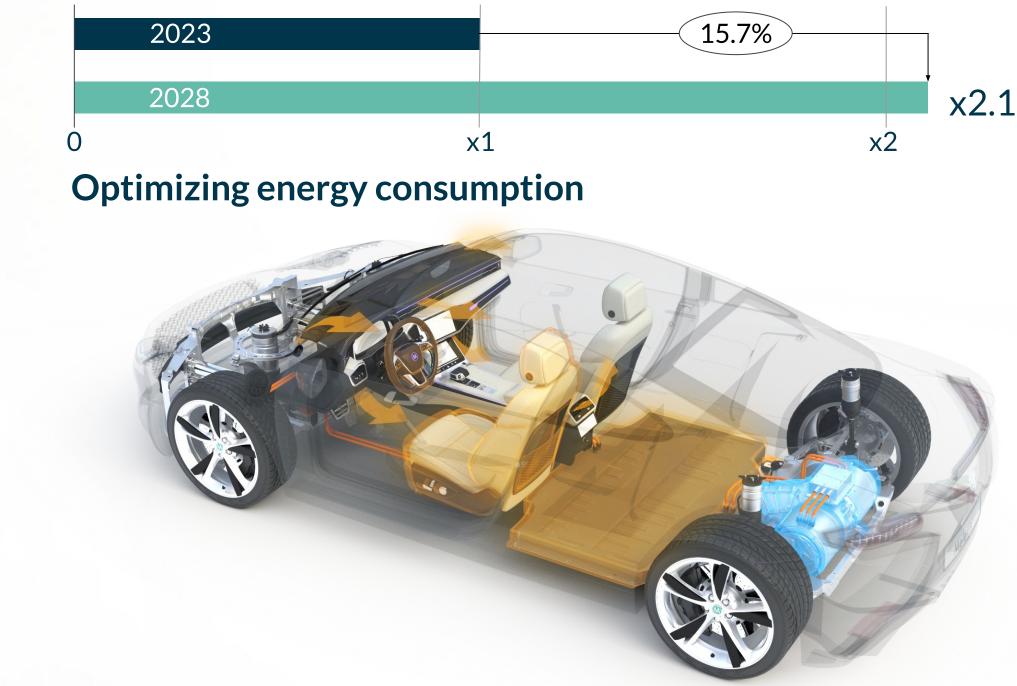
In electric vehicles, the inverter converts DC power from the battery to AC power for the motor drive, which in turn transforms it into propulsion power. The efficiency of this system has a direct impact on the all-electric range, road performance and comfort.

- AC phase current monitoring
- Rotor position sensing
- Power module temperature monitoring
- Safety cover open/close detection
- Power module signal filtering (snubber)



EV THERMAL MANAGEMENT

Serviceable Addressable Market





In order to optimize energy while increasing the All Electric Range, a perfect thermal management system is key. Ideal performance of the battery requires a temperature between 20-40°C. Without the free heat of a classical ICE, the energy for heating & cooling the cabin needs to be optimized.

- Pressure monitoring
- Temperature monitoring
- Current consumption monitoring
- E-compressor current sensing
- Fast charge current monitoring
- Valve & pump positioning & controlling
- Refrigerant pressure sensing (Triphibian)

EVBATTERY - A to 18 ICs

Serviceable Addressable Market



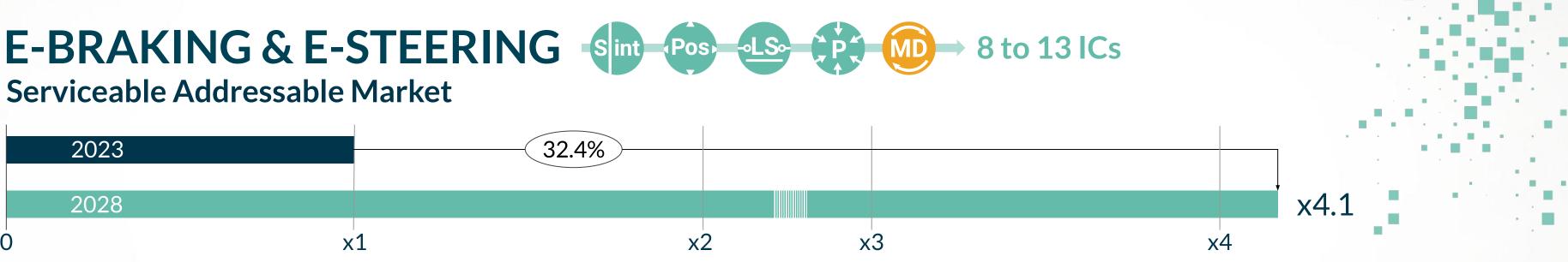
Extending battery range, life and safety

The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

The high voltage battery stores electrical energy which powers the electric motor. It determines the range the vehicle can travel on a single charge. It's optimization is a game changer. Battery management systems ensure the safety and the longevity of the battery.

- Current monitoring
- Pressure monitoring
- Temperature monitoring
- Impedance sensing
- Thermal runaway detection

E-BRAKING & E-STEERING



Higher safety level for (autonomous) cars

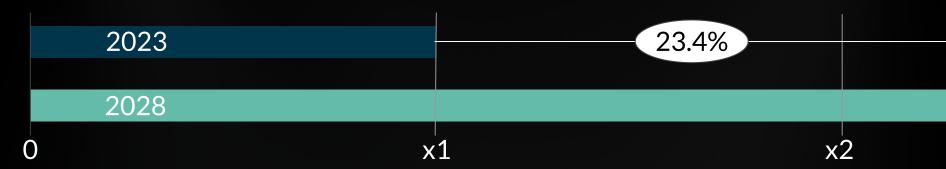


In the world of automotive innovation, sensor ICs act as the silent heroes, enabling precise control, responsiveness, reliability and safety. These technical marvels drive us on the journey from pumps & vacuum (mechanical) to the X-by-wire revolution (electronic).

- E-steering wheel angle position & torque sensing
- E-steering rack position sensing
- E-brake pedal position sensing
- E-brake caliper position & force sensing
- Rotor positioning for electric motors
- Park lock motor positioning & controlling
- Fluid level sensing

INTERIOR & EXTERIOR LIGHTING Serviceable Addressable Market





Functionality, personalization and premiumization



10 to 150 ICs

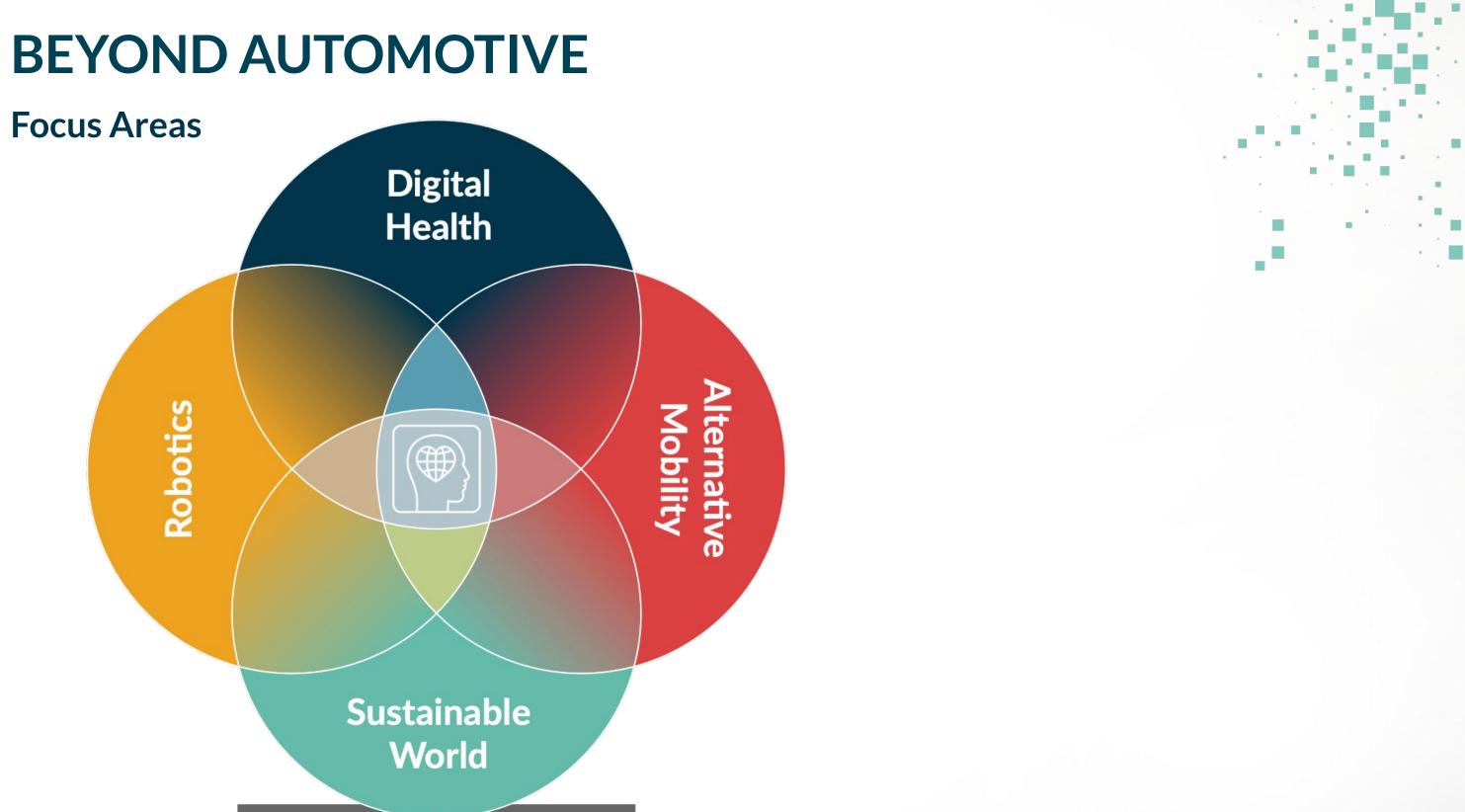
x2.9

Lighting is upgrading the interior and exterior of our cars. It brings comfort, safety and functionality. Lighting is the new differentiator for OEMs as well as for brand recognition.

- Interior ambient lighting
- Animated lighting
- Logo & grille illumination
- Daytime running light
- Rear lighting

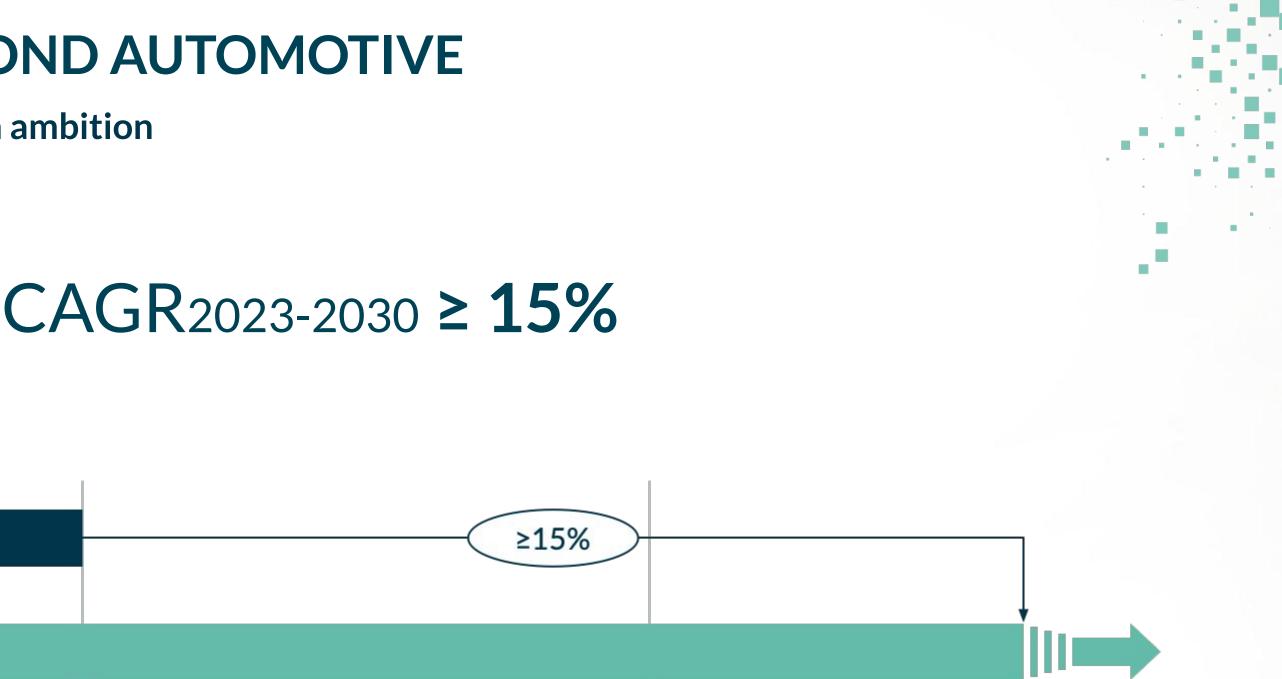


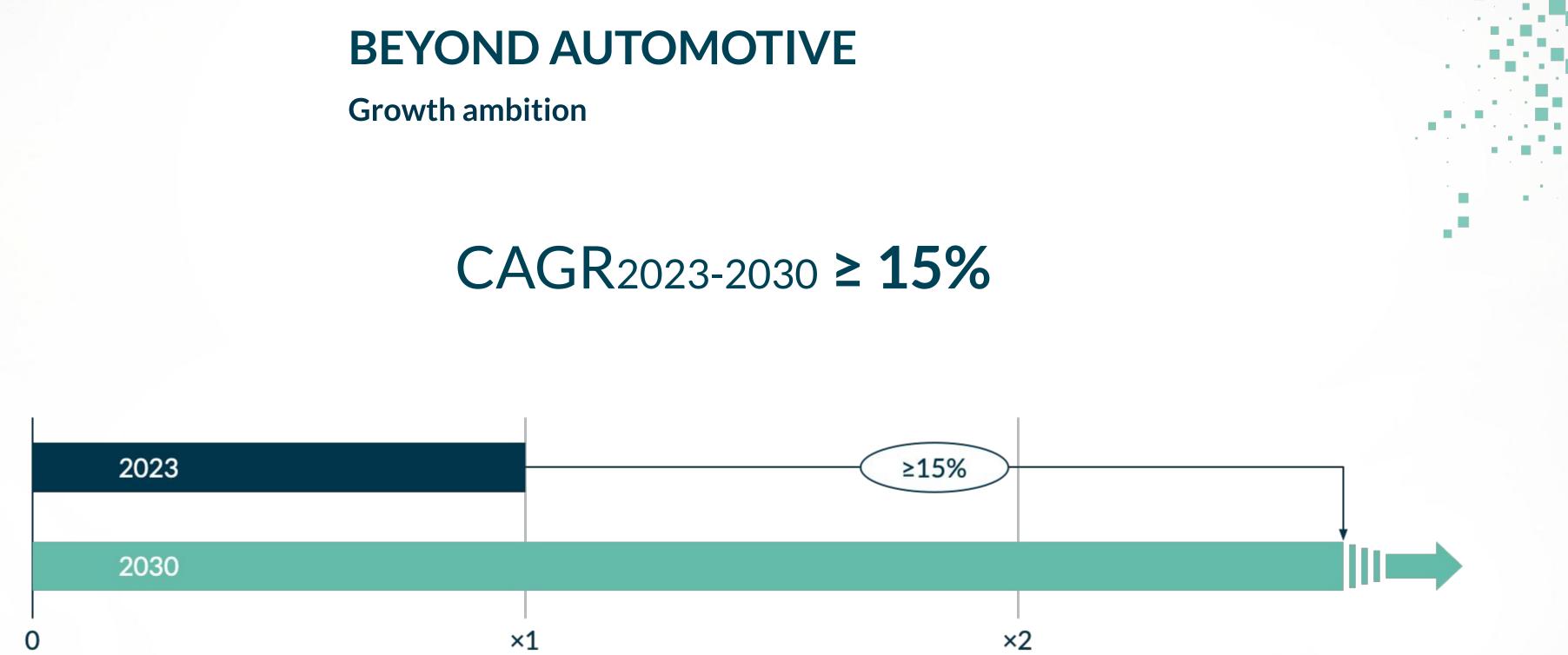
BEYOND AUTOMOTIVE



The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

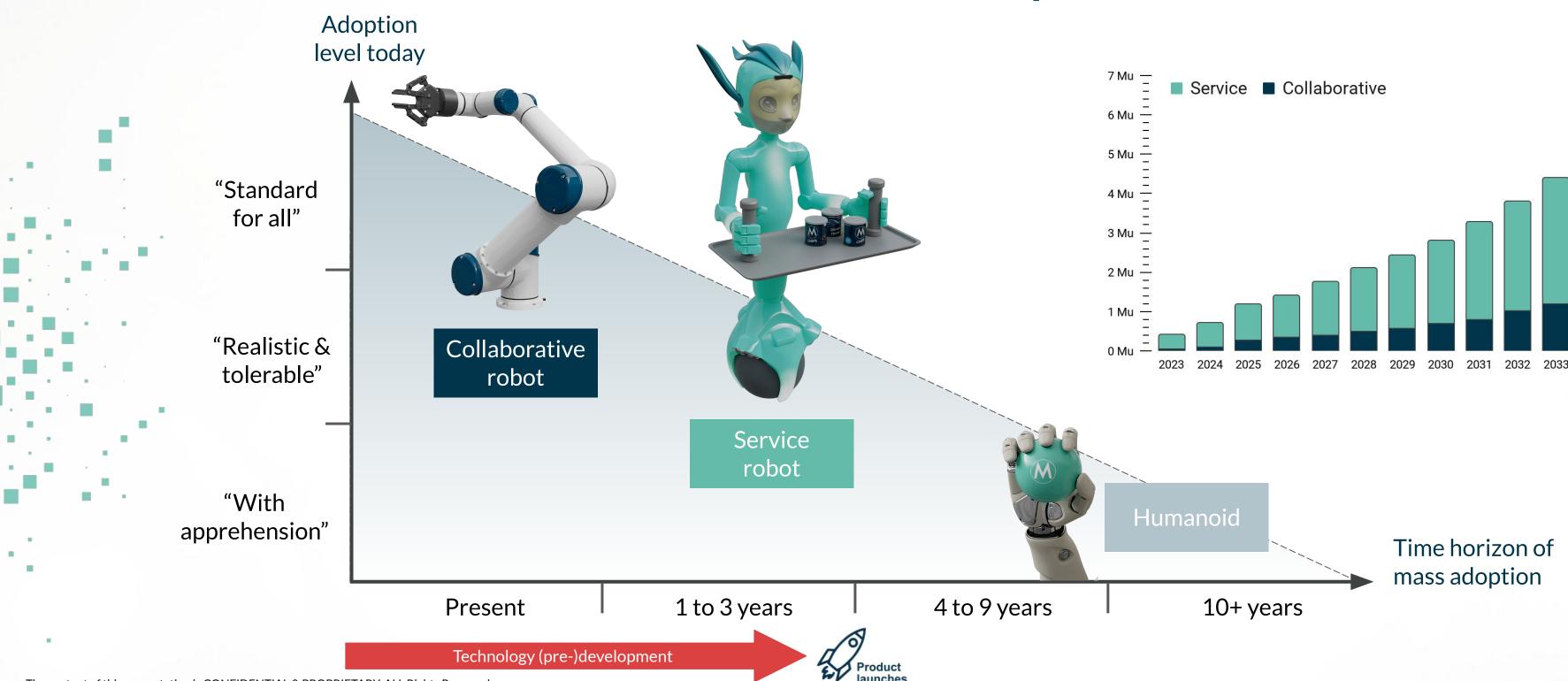
.



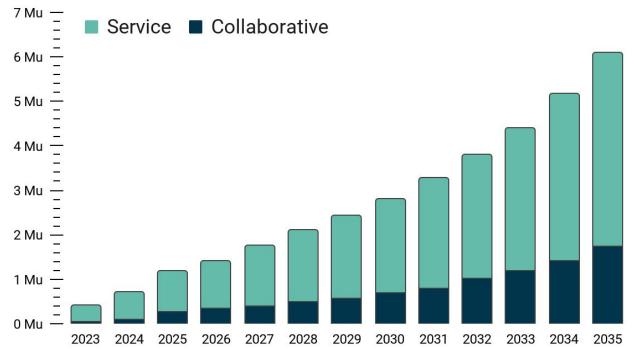


The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

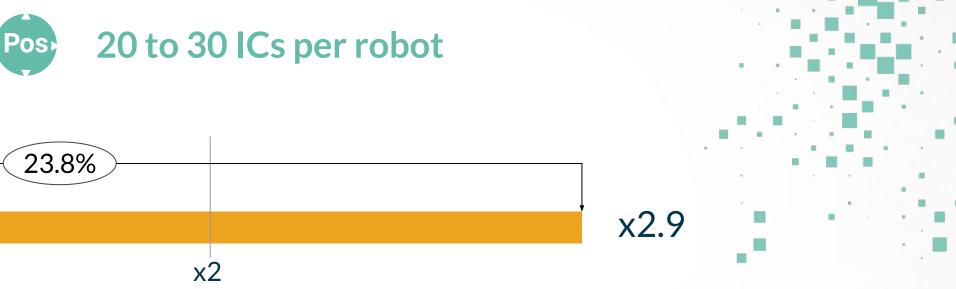
We believe in the mass adoption of robots

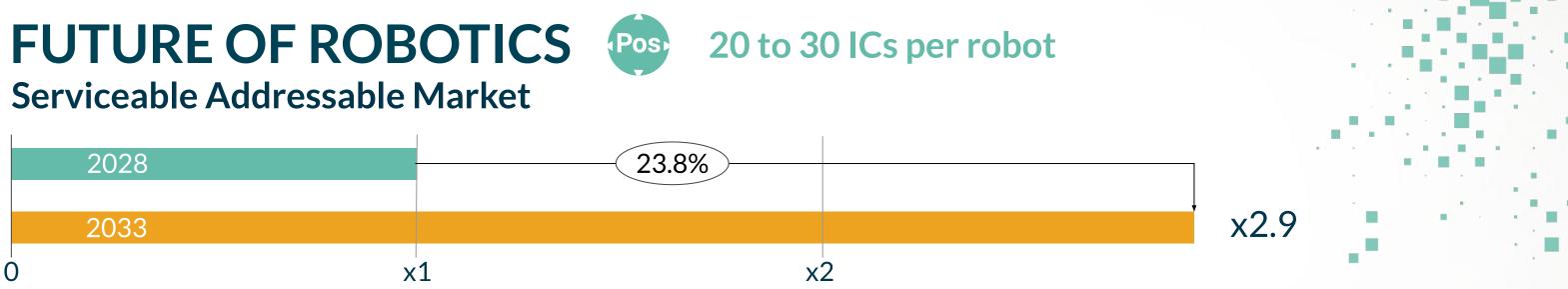


The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.









Let robots feel the real world



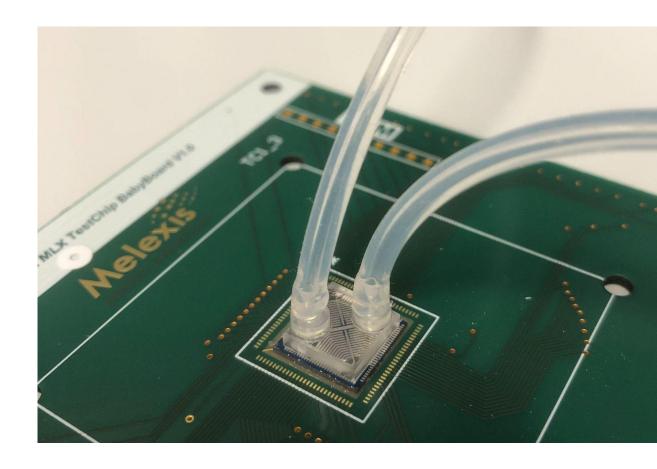
Our **innovation** team is developing single Integrated Circuit solutions which combine our expertise in magnetic sensing, signal conditioning, on-board diagnosis for safety, automotive quality solutions and advanced packages. Melexis ICs shape the future. Let your robot sense it.

- Force sensing (Tactaxis[™]) Give robots a sense of touch
- Position sensing (Arcminaxis[™]) Popularize precise motion
- Torque sensing (Elaxis[™]) Compact and contactless integrated torque sensing



DIGITAL HEALTH

Biosensing



- In-house innovation
- Technology scouting
- Open Innovation with technology partners and universities

- Aging of population Scarcity of medical personnel
- Affordability of healthcare Increase of health & well-being awareness

- In-vitro diagnostics devices
- Point-of-care devices
- Home diagnostics or medical devices
- Wearables & skin patches

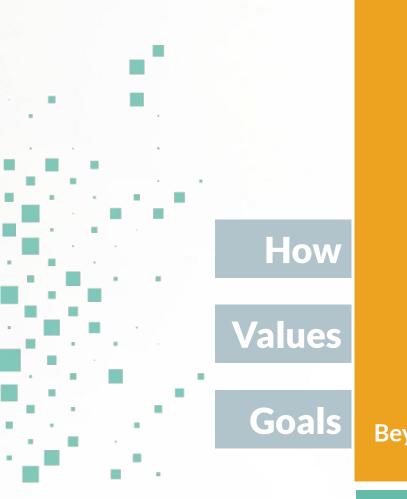


Vision

The best imaginable future. This is what Melexis shapes. A future that is safe, clean, comfortable and healthy. Because we care. We care about our planet, about our customers and about our colleagues.



INNOVATION WITH HEART

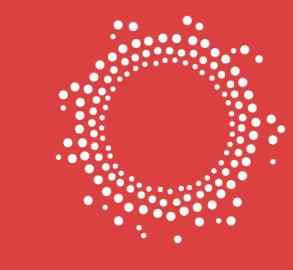




INNOVATE

We are on the customer's side We always have a plan

Automotive Sales: ≥ 10% CAGR Beyond Automotive Sales: ≥ 15% CAGR



PEOPLE

We care We enjoy the journey towards success

90% of employees recommend Melexis as a good place to work



SUSTAINABILITY FOOTPRINT

The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.



OPTIMIZE

We understand the value of money We always have a plan

> Gross Profit margin ≥ 45% **EBIT** margin $\ge 25\%$



INNOVATION WITH HEART

The content of this presentation is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.

