

Q1 2024 Results

What do we do?

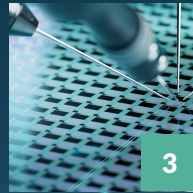
Melexis engineers microelectronic solutions. Our technology makes cars and other products smarter, safer and greener. Our sensors capture data from the analog world and comprehend these data digitally. Our drivers make sure customers can bring their products to life.

Process flow

CHIP AND
PACKAGE DESIGN



WAFER PROBE



FINAL TEST



WAFER FAB



ASSEMBLY

Markets

AUTOMOTIVE



ROBOTICS



DIGITAL
HEALTH

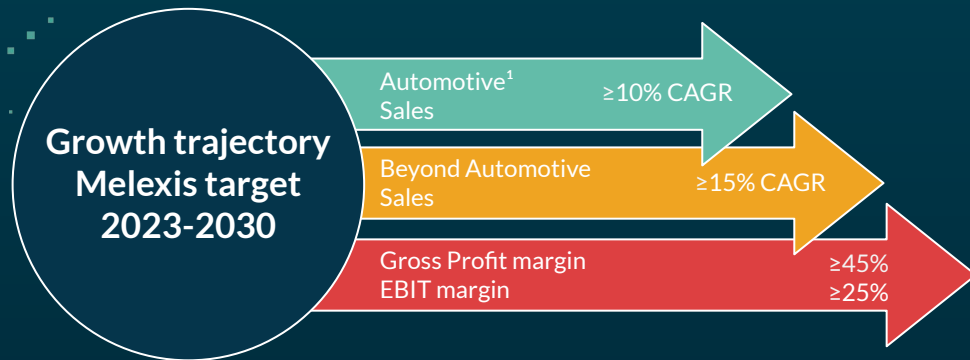


ALTERNATIVE
MOBILITY



SUSTAINABLE
WORLD





(¹) Assumption: 0% growth for the global vehicle production

Growth drivers

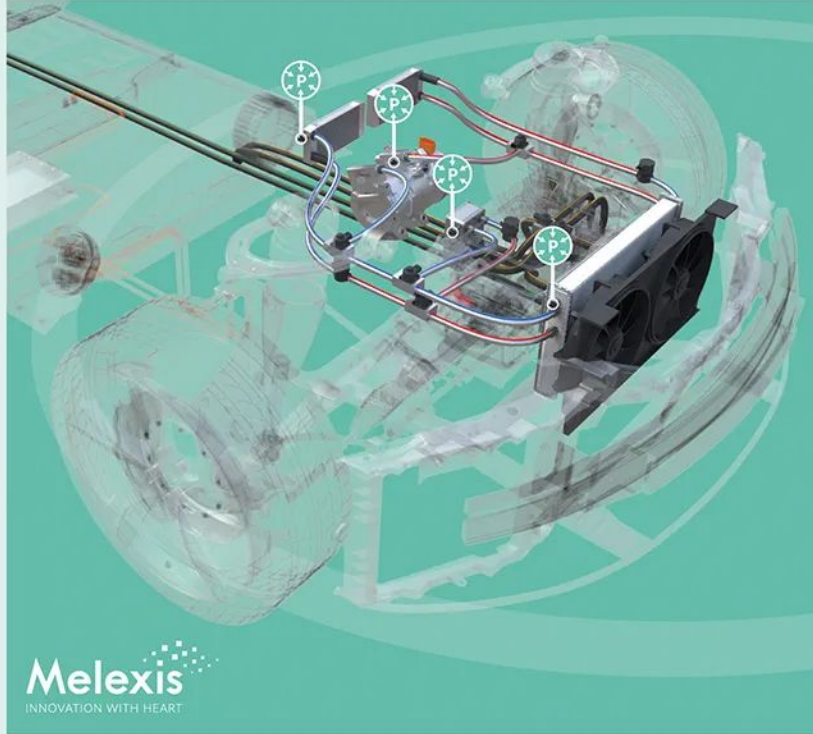
EV powertrain EV thermal management	EV battery E-braking & E-steering	Lighting
Sustainable World Alternative Mobility	Robotics Digital Health	



03 continents

18 locations

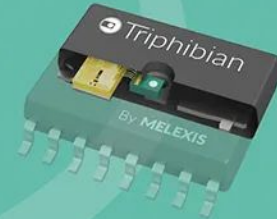
Melexis is at the forefront of innovation



Melexis
INNOVATION WITH HEART

TRIPHIBIAN™ PRESSURE SENSORS REVOLUTIONIZE EV THERMAL MANAGEMENT

Absolute MEMS
Analog output
Gas & Liquid media
2-70 bar



MLX90830

Melexis is at the forefront of innovation



INDUXIS®: FULLY INTEGRATED SWITCH

- Contact-less
- Magnet-less
- Strayfield immune
- Integrated coils



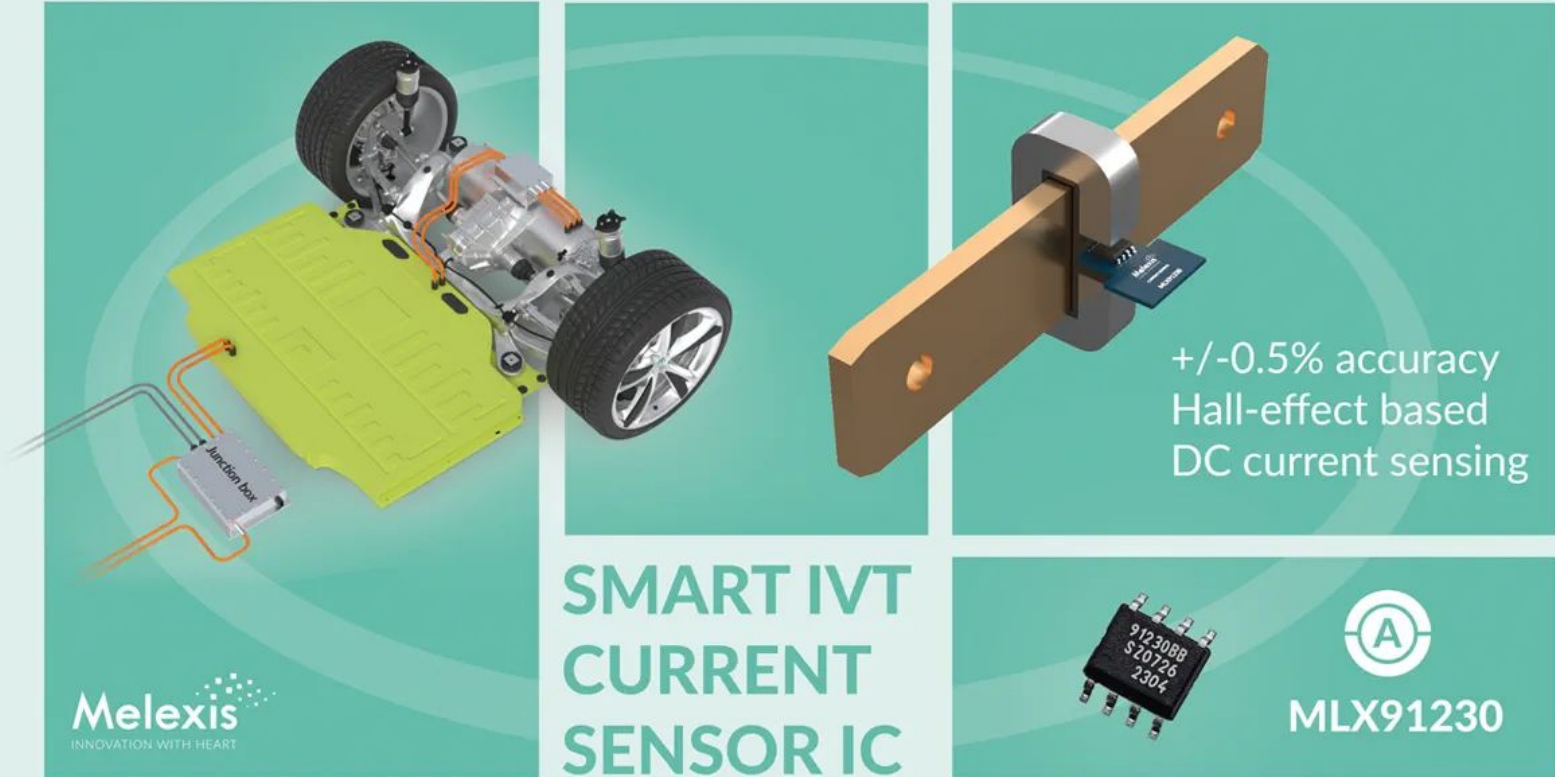
MLX92442

directly detects
conductive target



Melexis
INNOVATION WITH HEART

Melexis is at the forefront of innovation



**SMART IVT
CURRENT
SENSOR IC**

Melexis
INNOVATION WITH HEART

MLX91230

+/**-**0.5% accuracy
Hall-effect based
DC current sensing

1989 > 2024

INDUSTRY FIRST

1996

Programmable linear Hall sensor

2001

LIN system basis chip

2004



Single chip smart LIN

2005

Triaxis® magnetic sensor

2007



Integrated infrared thermometer

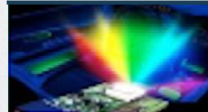
2010

Single chip sensorless BLDC motor drive solution

2011

Fully integrated passive entry automotive qualified NFC 3 camera sensor

2012



Single chip LIN RGB drive IC Pressure sensor ft. SENT 16x4 pixel infrared array

2013

Programmable Hall sensor for high performance current sensing End-of-line programmable Hall Latches

2014



WPC & NFC automotive solution Re-programmable 2 wire Hall sensor with integrated capacitor Triaxis® micropower magnetometer Automotive ToF sensor IC

2015

Thermocouple Interface with on-board diagnostic featuring SENT

2016

3rd generation TPMS IC and Far Infrared Thermal (IR) Sensor Array

2017

New ToF Sensor chipset for robust 3D imaging & 1st die L&S sensor

2018

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

2019



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

2020

New ToF Sensor chipset for robust 3D imaging & 1st dual die L&S sensor

2021

Inductive resolver with innovative architecture

2022



Tactaxis™ gives robot a sense of touch Revolutionary floating switch. World's 1st pico-resolver. Most accurate automotive pressure Combined dual Latch & Switch Triaxis®

2023

First contactless temperature to be integrated in smart-watch Unprecedented accuracy for Hall-Effect DC current sensing

2024

Triphibian revolutionizing the world of MEMS pressure sensors by measuring gas and liquid media from 2 to 70 bar

Major automotive trends

Electrification

- EV powertrain
- Thermal management
- Battery

Premiumization

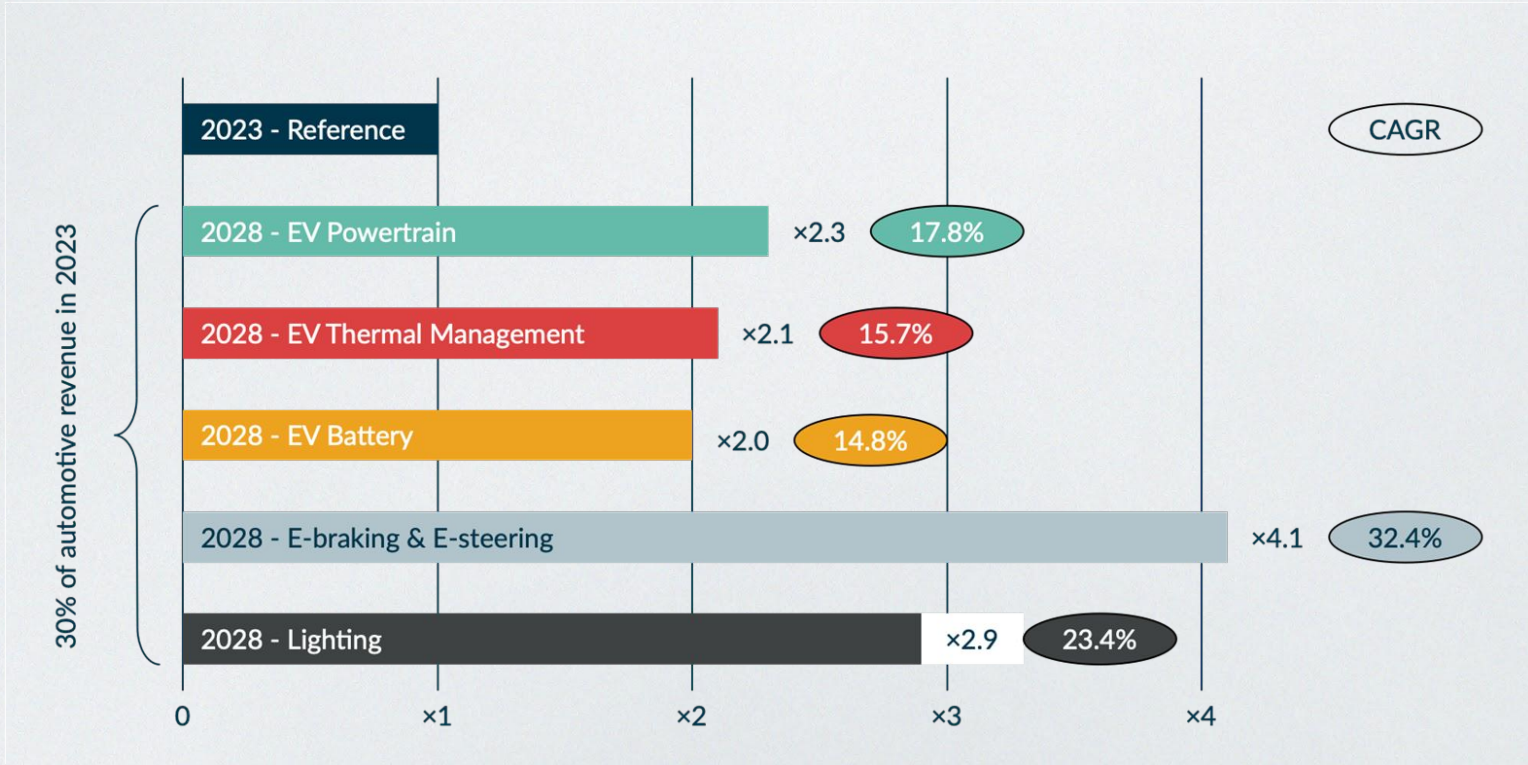
- Interior and exterior lighting
- Motors (seat, window, HVAC, grille shutter)

ADAS

- E-braking and E-steering
- Dynamic lighting
- Time-of flight
- TPMS

Melexis has a well diversified portfolio, limiting its dependency on the type of powertrain.

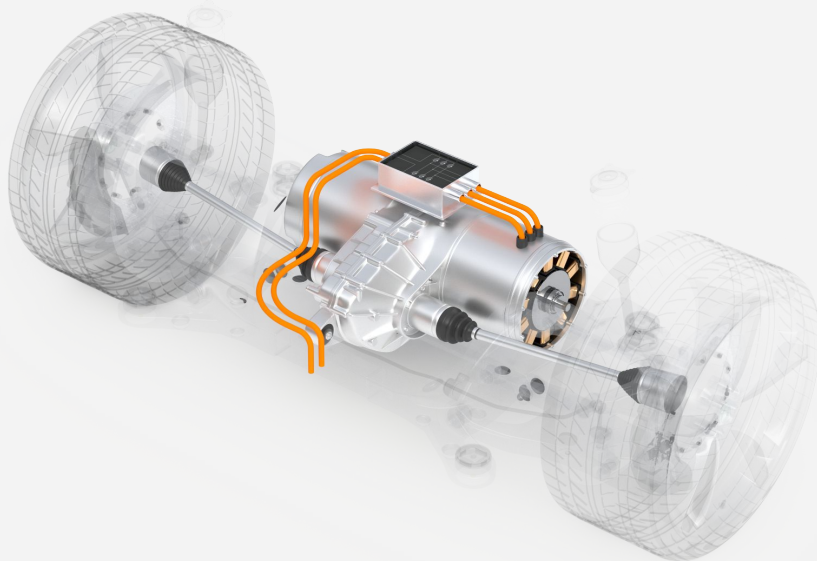
Serviceable addressable market (in EUR)



EV POWERTRAIN



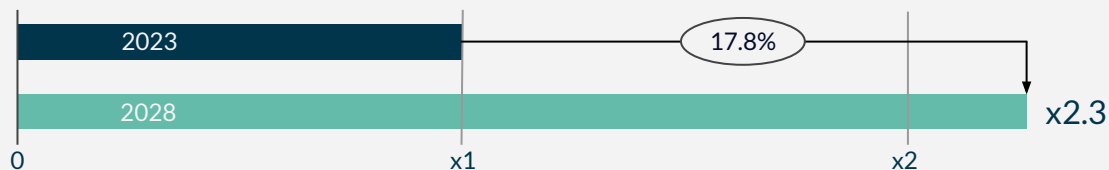
Efficiency matters



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)

Serviceable Addressable Market



EV THERMAL MANAGEMENT



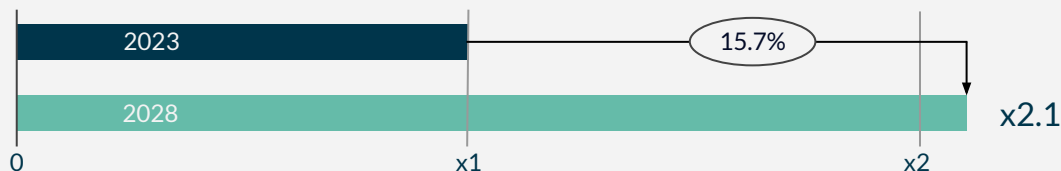
Optimizing energy consumption



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)

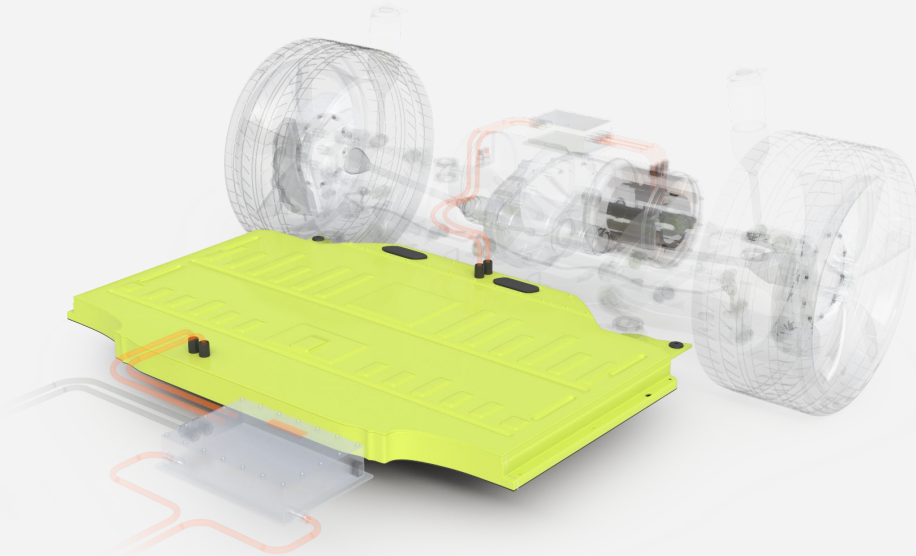
Serviceable Addressable Market



EV BATTERY



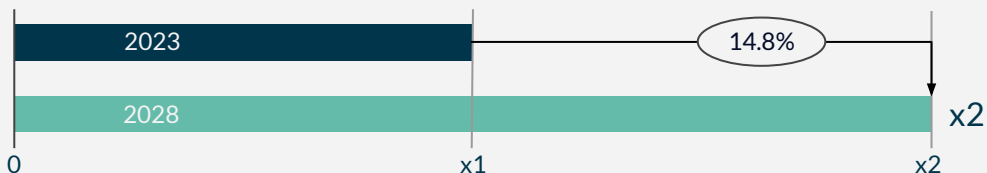
Extending battery range, life and safety



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

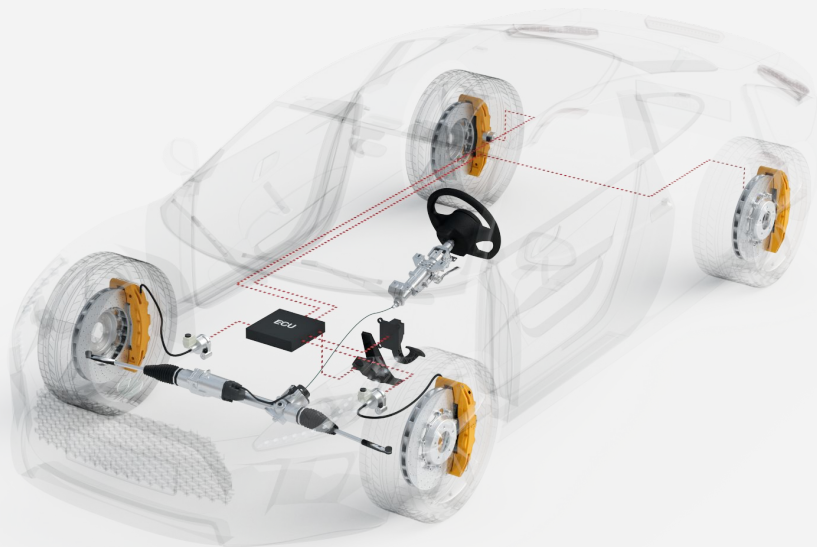
Serviceable Addressable Market



E-BRAKING & E-STEERING



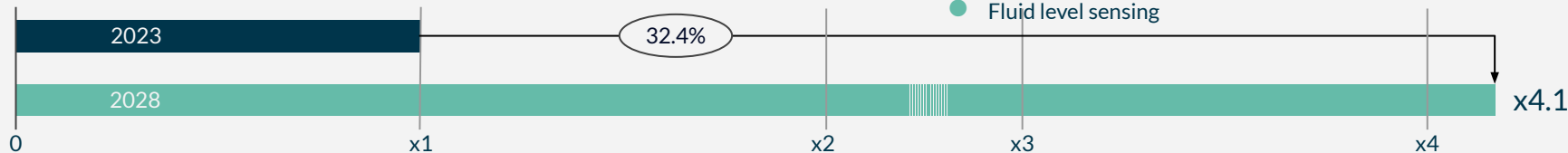
Higher safety level for (autonomous) cars



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

Serviceable Addressable Market



INTERIOR & EXTERIOR LIGHTING

RGB → 10 to 150 ICs

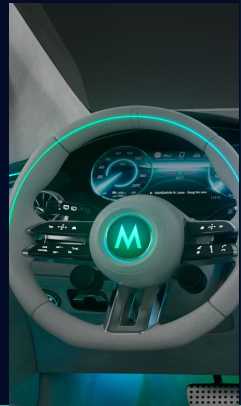
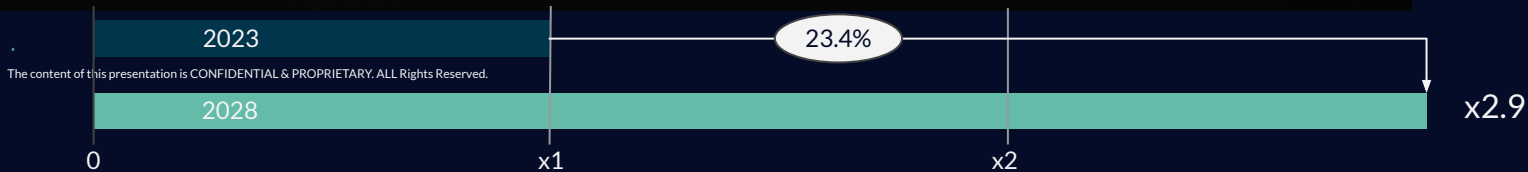
Functionality, personalization and premiumization



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

Serviceable Addressable Market



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Innovative sensing for Robotics & Alternative mobility

Market

Accurate Position

3D Force

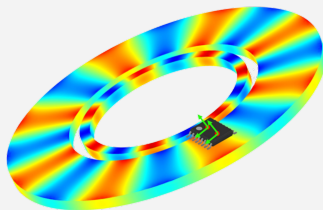
Compact Torque



Robotics



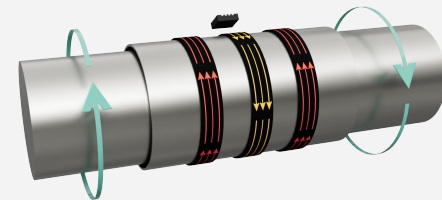
Alternative mobility



Arcminaxis™



Tactaxis™



Elaxis™

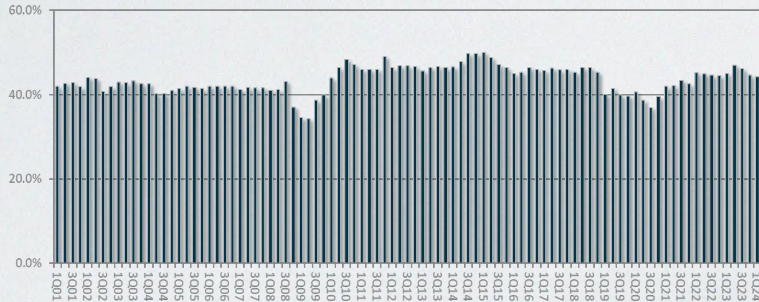
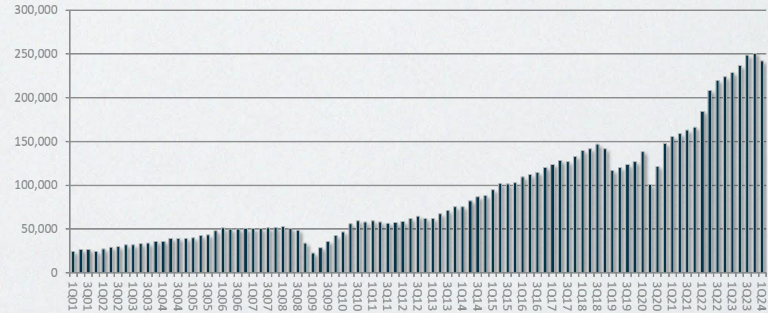
Robot to build		Arcminaxis™	Tactaxis™	Elaxis™
Robot to build	Cobots	✓		✓
	Industrial	✓		✓
	Grippers		✓	
Service Robotics	Stationary		✓	✓
	Autonomous		✓	✓
	Exoskeleton		✓	✓
E-bike	Torque sensor			✓

Evolution Financials 2001-2024

Turnover

Q1 2024: 241.8 mln EUR

FY 2023: 964.3 mln EUR



Operating result

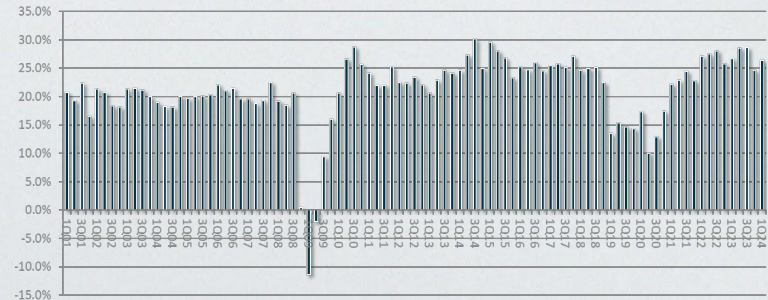
Q1 2024: 63.7 mln EUR (26.4%)

FY 2023: 261.3 mln EUR (27.1%)

Gross result

Q1 2024: 106.8 mln EUR (44.2%)

FY 2023: 440.2 mln EUR (45.7%)



Q1 2024 results at a glance

Sales 241.8 mln EUR +6% Y-o-Y	Gross margin 44.2% 106.8 mln EUR +4% Y-o-Y	Operating result 26.4% 63.7 mln EUR +4% Y-o-Y
Net result 1.31 EPS 52.9 mln EUR +4% Y-o-Y	Operating cash flow (before working capital changes) 75 mln EUR +3% Y-o-Y	Net cash 35.7 mln EUR

Outlook

Melexis expects sales in the second quarter of 2024 to be in the range of 242 to 247 million EUR.

For the full year 2024, we expect sales to be around 1 billion euro, with a gross profit margin above 44% and an operating margin above 25%, all taking into account a EUR/USD exchange rate of 1.08.

For the full year 2024, Melexis expects CAPEX to be around 70 million EUR.

Profit & loss

Q1 2024 versus Q1 2023 versus Q4 2023

P&L account (in million EUR)	Q1 2024	% of Sales	Q1 2023	% of Sales	Q4 2023	% of Sales
Sales	241.8	100.0%	228.6	100.0%	250.5	100.0%
Cost of goods sold	-135.0	-55.8%	-125.8	-55.0%	-138.8	-55.4%
Gross margin	106.8	44.2%	102.8	45.0%	111.7	44.6%
R&D	-26.9	-11.1%	-24.6	-10.8%	-29.8	-11.9%
G&A	-11.5	-4.8%	-12.2	-5.3%	-14.3	-5.7%
Selling	-4.6	-1.9%	-4.9	-2.2%	-6.1	-2.4%
EBIT	63.7	26.4%	61.1	26.7%	61.5	24.6%
Net financial result	-1.4	-0.6%	1.0	0.4%	-2.6	-1.0%
Income taxes	-9.4	-3.9%	-11.1	-4.9%	-9.1	-3.6%
Net profit	52.9	21.9%	50.9	22.3%	49.8	19.9%
Earnings per share	1.31		1.26		1.23	

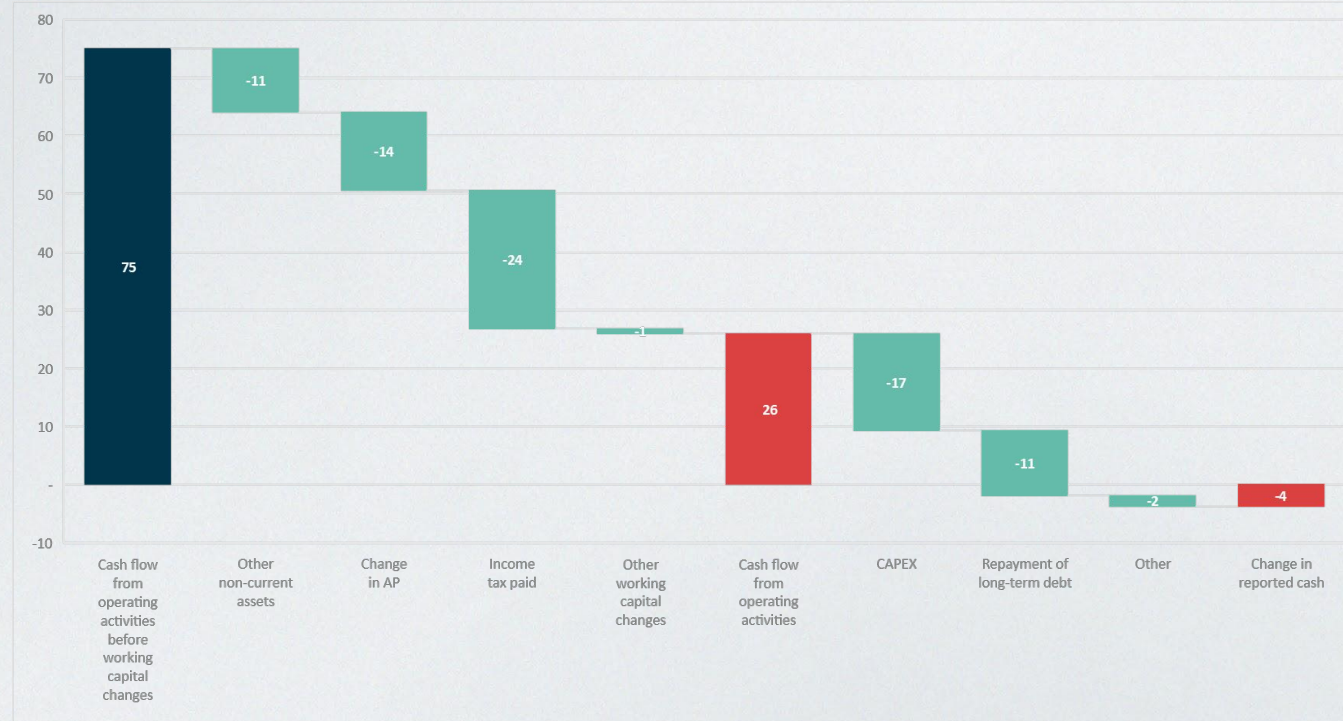
Balance Sheet

Q1 2024 versus Q1 2023 versus Q4 2023

Balance Sheet (in million EUR)	Q1 2024	Q1 2023	Q4 2023
Total assets	893.6	640.8	866.1
Current assets			
Cash	35.7	93.3	39.3
Inventory	257.7	191.6	254.3
A/R Trade	117.2	129.8	120.2
Non-current assets	436.1	180.9	416.0
Shareholders' equity	602.0	532.0	551.1
Interest bearing debt	173.5	0.0	184.7
Long term	173.5	0.0	184.7
Short term	0.0	0.0	0.0

Q1 2024 cash flow

Mln. EUR

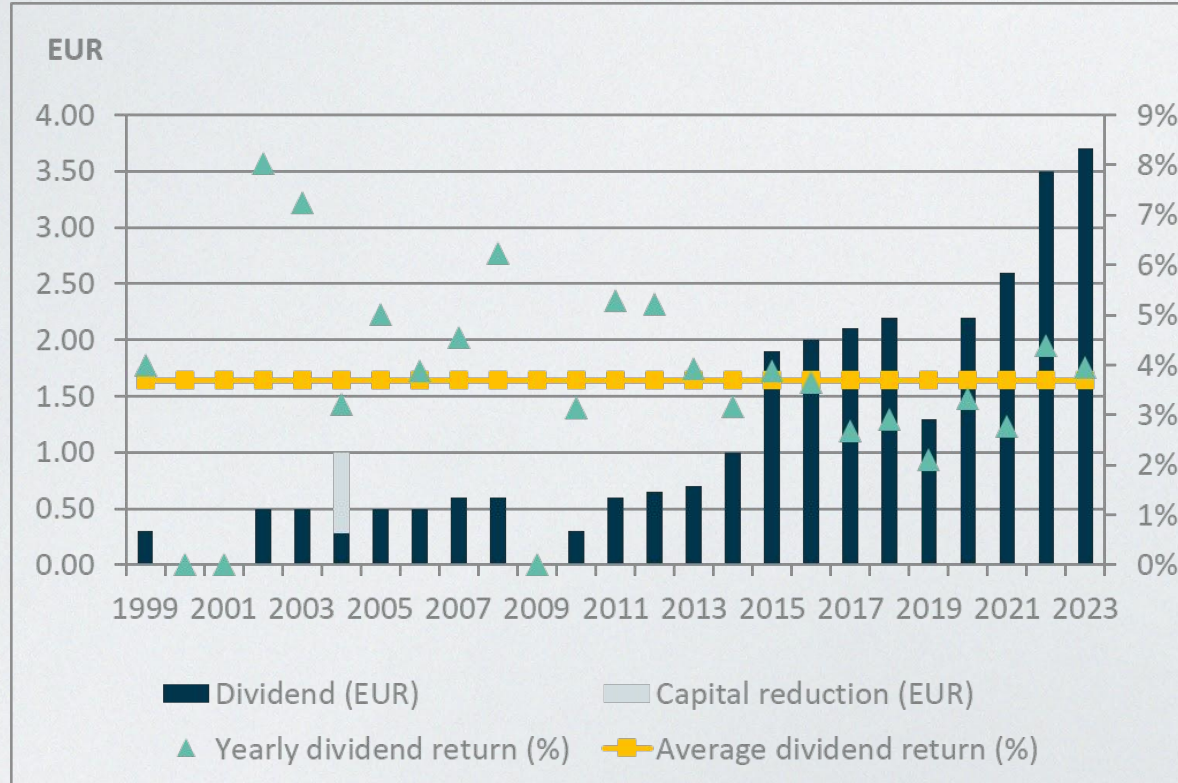


Free cash flow of 9.4 mln EUR
in 1Q24
(8 mln EUR in 1Q23)

24 mln EUR income tax paid
in 1Q24

Dividend yield

Based on average share price

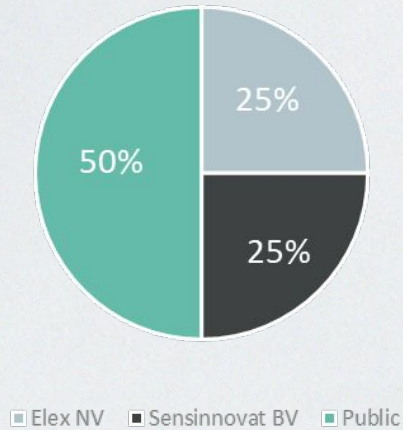


Gross dividend per share (EUR)	
2006	0.50
2007	0.60
2008	0.60
2009	0.00
2010	0.30
2011	0.60
2012	0.65
2013	0.70
2014	1.00
2015	1.90
2016	2.00
2017	2.10
2018	2.20
2019	1.30
2020	2.20
2021	2.60
2022	3.50
(*) 2023	3.70

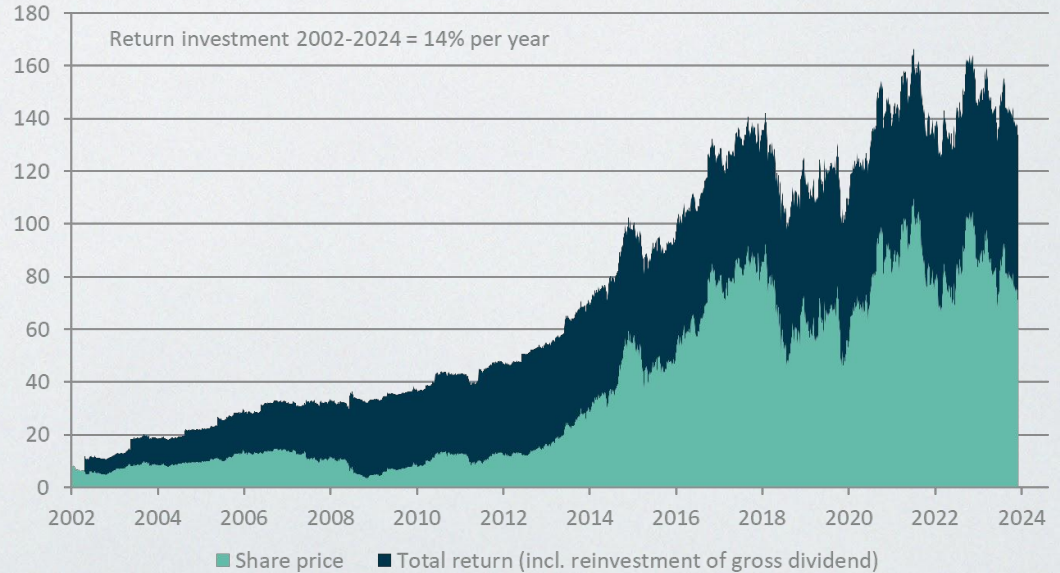
(*) final dividend payable as from May 17, 2024

Shareholder structure and shareholder return

Shareholder structure on 31 March 2024



Shareholder Return
2002-2024



Melexis Investor Relations

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