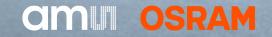
Sensing is life



Full year and fourth quarter results 2022

Alexander Everke, CEO Ingo Bank, CFO Moritz M. Gmeiner, Head of IR

February 2023

Vision and mission for ams OSRAM To create the uncontested leader in optical solutions

Sensing

Illumination

Visualization



Become the uncontested leader in optical solutions through bold investments in disruptive innovation and continuous transformation delivering best in class profitability and growth

Pursue market leadership in key optical segments

Building success from our focus technologies





- LED incl. NIR, IR, UV-C
- MicroLED
- EEL / VCSEL
- Lamps

Optical components & micro-modules



- Optical elements
- Micro-optical packaging
- Optical modules

Detectors



- Light sensors
- Image sensors
- Other optical

Integrated circuits & algorithms



- Emitter driver ICs
- Sensor interfaces
- Sensor processors (incl. algorithms)

Micro-optical solutions & lamps

Sensing



Illumination



Visualization

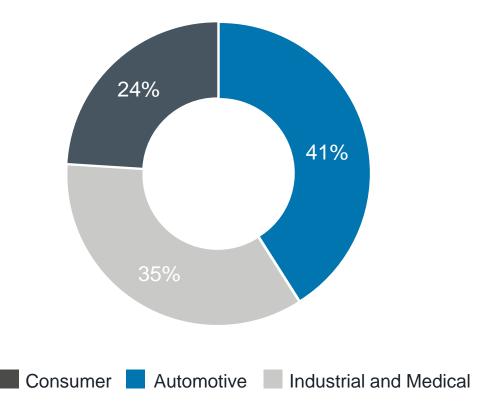


Key solution

components

Excellent position for leadership in optical solutions

Balanced revenue streams (FY 2022)



Industry-leading portfolio + application expertise

- Focus on leading technology positions
- Leader in application expertise across end markets
- Agility to support short and long product life cycles
- Able to drive innovation for different end markets, applications and customer bases
- Leveraging world-class IP and manufacturing

Leading technologies for key optical applications

- High performance automotive LED lighting (exterior + interior)
- LED innovation (UV-C, IRED, high power specialty lighting)
- Micro LED next generation display technology
- Display management, optical sensing
- Near-to-eye AR/VR illumination + sensing
- 3D AR/authentication (consumer + industrial)
- EEL/VCSEL ADAS (LIDAR)
- High performance imaging (industrial + medical)

CIMUMOSRAM

Clear investor value proposition



Commitment to growth

Leader in optical solutions driven by secular growth trends in Automotive, Consumer and Industrial & Medical



Path to strong sustainable profitability

Doubling of EBIT margin driven by portfolio optimization, manufacturing footprint consolidation, synergy realization and revenue growth



Balanced and diversified business mix

Balanced application end-market exposure and diversified global customer base creates broadly supported earnings streams

Prudent financial policy

De-lever based on strong operational cash flows and proceeds from disposals, while maintaining investment for growth



Focus on long-term value generation

Re-invest in differentiating technology & innovation and related organic growth opportunities, in alignment with ESG focus

Our long-term targets

- Revenue CAGR >10%, outgrowing our SAM
- Synergies / savings ~350M€
- Adj. EBIT margin 20%+
- Automotive 35-40%, Consumer 35-40%, I&M 25-30%
- Top 10 global customers 35-40%
- Disposal proceeds >550M€
- Targeting investment grade with net debt/adj. EBITDA <2x
- Carbon neutrality in 2030
- Gender diversity in leadership 25% in 2026



Expectations and targets are based on ams OSRAM's latest reasonable assumptions and do not include potentially material effects related to the further development of the current or to any future geopolitical crisis Adjusted figures exclude M&A-related, transformation and share-based compensation costs as well as results from investments in associates and sale of a business

2022: Key developments

ams OSRAM group business

Solid full year results in light of demanding market environment

- FY 2022 revenues EUR 4,819m, slightly up based on like-for-like portfolio comparison basis
- EBIT (adj.) EUR 407m (8.4% of revenues)
- Very solid operating cash flow of around EUR 600m

Automotive: solid performance amid imbalances and inventory adjustments

- Continued market + supply chain imbalances in H1
- Ongoing inventory adjustments driving negative volume effects through H2
- Legacy lighting with attractive performance
- Solid overall results, prudent inventory management

Consumer: mixed performance given diverging end market demand

- Global smartphone volumes impacted especially in China and Android segments
- Major end market segment contributed well, Android market muted due to lack of recovery
- Successful portfolio for different device types + broad customer base

Industrial & Medical: good overall results weakening towards year-end

- Strength in important industrial markets through largest part of year
- Demand deteriorated towards year-end in several markets reflecting negative macro-economic momentum
- Solid medical business through 2022

2022: Key developments ams OSRAM group business

Improved balance sheet position, sound leverage situation

- Gross debt reduced by around EUR 400m in 2022
- Leverage 2.0x at year-end 2022 (net debt / adj. EBITDA)
- Solid long-term debt profile (next major maturity 2025) with EUR 1bn of undrawn committed lines

Planned portfolio re-alignment close to completion, integration progress on track

- Portfolio re-alignment nearly completed with all planned disposals signed
- Synergy and savings creation progressing to plan
- Integration programs in all areas fully on track through 2022

ESG progress

- First key ESG targets defined as part of group ESG strategy
- First combined sustainability report
- Achieved improved ESG ratings for combined group

2022: Strong progress in integration and portfolio re-alignment

Achievements in integration

- Synergy and savings run-rate of EUR 245m end of Q3 2022, 70% of expected total and fully in line with plans
- Fast implementation of portfolio re-alignment in more demanding market, clear focus on core technology areas
- Manufacturing footprint optimization/consolidation started, related indirect + direct labor productivity improved
- ERP integration mainly completed, first annual financials with aligned fiscal=calendar year
- Achieved targeted 2022 milestones across integration fields (organization, IT, systems, policies etc.)

Portfolio re-alignment near completion

- 5 disposals announced and/or closed in 2022
 - Fluence (horticulture systems business)
 - AMLS (retained ex-OSRAM-Continental JV business)
 - Digital Systems Eurasia (lighting modules/LED drivers)
 - Traxon (architectural lighting)
 - Clay Paky (entertainment lighting fixtures)
- Last planned disposal Clay Paky signed in Q4 2022
- Only two remaining closings (DS Eurasia, Clay Paky), expected in H1 2023
- Approx. EUR 950m p.a. total revenues sold (run-rate¹⁾) at low to negative overall operating profitability
- Expected total proceeds from disposal program increased to >EUR 550m (approx. EUR 465m already received)

Industry-first 8" LED front-end manufacturing facility, Malaysia

Significant prioritized investment to support long-term strategy

First mover in 8" manufacturing

- Industry-first 8" large-scale LED front-end facility
- High volume manufacturing to support growth plans
- Enabled for high power differentiated LED and leading smallest structure size microLED technologies
- High degree of production automation via state-of-the-art material handling and operating system
- ESG group goal support via energy generation and energy + water saving measures (large-scale green energy generation from facility + carpark roofs)



April 2022

Project progress in 2022

- Groundbreaking early 2022

February 2023

- Construction of fab building and infrastructure through 2022
- Fab building and infrastructure nearing completion
- 2022 progress fully in line with plans despite demanding supply + cost situation for large building projects
- Further steps: equipment deliveries, hook-up + integration of equipment, setup + test of production lines, preparation for production availability





ESG update: Climate strategy, first group sustainability report, carbon neutral goal ams OSRAM group-wide ESG focus

ESG achievements 2022

- First group sustainability report published (GRI compliant)
- CO₂ emissions reported for own activities (Scope 1 + 2) and partly along the value chain (Scope 3)
- Group climate strategy defined, implementation started
- Significant improvement in external ESG ratings
 - More detailed disclosure based on group data
 - Ongoing recognition by rating providers
 - High ranking overall as well as in sector

S&P CSA: 72 (96th percentile), included in yearbook Sustainalytics: "low medium risk" ISS ESG: C

ESG goal: Carbon neutral by 2030

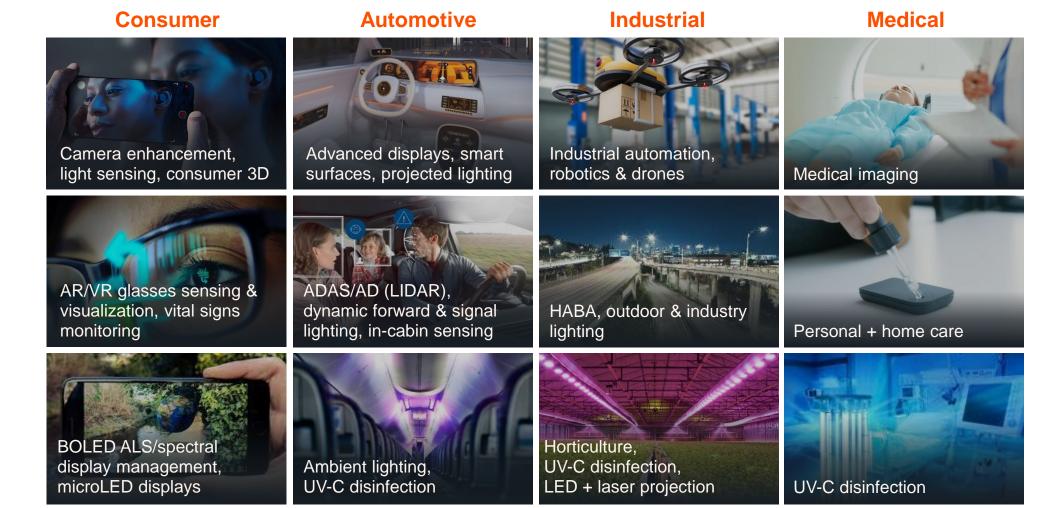
- Group to be carbon neutral (Scope 1 + 2) by 2030, endeavor towards net zero ambition
- 100% green electricity at production sites in Germany + Austria
- Started to self-generate electricity
 - First solar energy production 2022 at sites in Austria, China and Philippines
 - Large-scale solar energy production planned for new 8" manufacturing facility in Malaysia
- Strategy based on principle "avoid, reduce, compensate", reduction path developed
- Reducing emissions via energy efficiency measures at several locations, plan established to compensate for inevitable CO₂ emissions







Key societal megatrends drive demand for our optical solutions



CALC OSRAM

Smart Living

Digitalization

(IoT)

Energy efficiency & sustainability

Broad offering for illumination, visualization and sensing applications



Illumination / Visualization

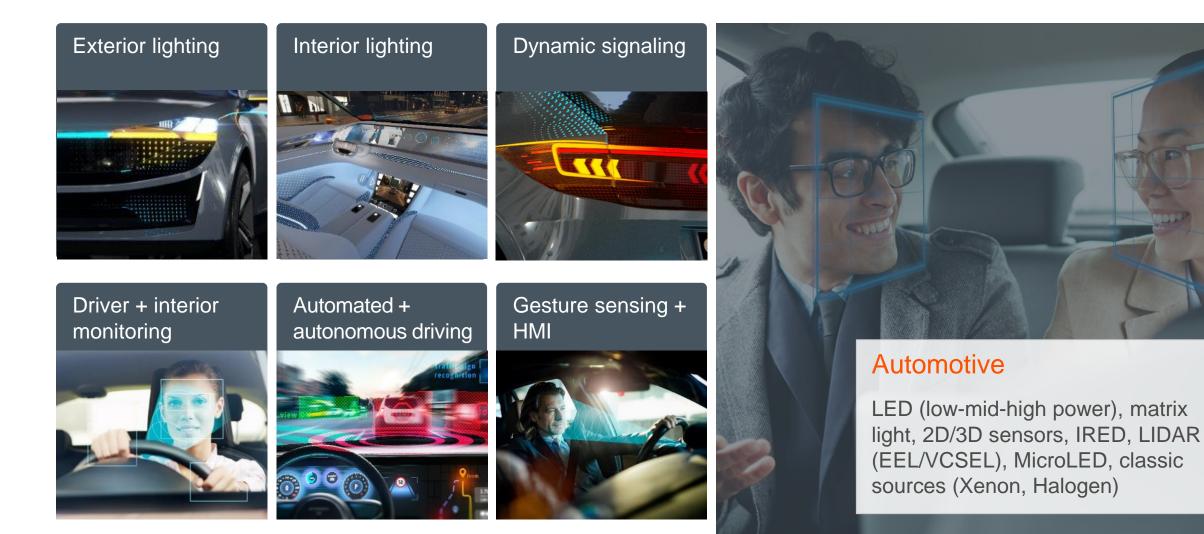
- Dynamic + static forward lighting
- Dynamic + static signaling
- Functional illumination + interior lighting
- Ambient lighting
- Projection
- Smart surface
- LCD backlighting

Sensing

- In cabin sensing
- Exterior sensing + ADAS
- Rain, light, and tunnel sensing
- Smart surface
- Ambient light sensing
- Position sensing

Enabling innovation in automotive mobility

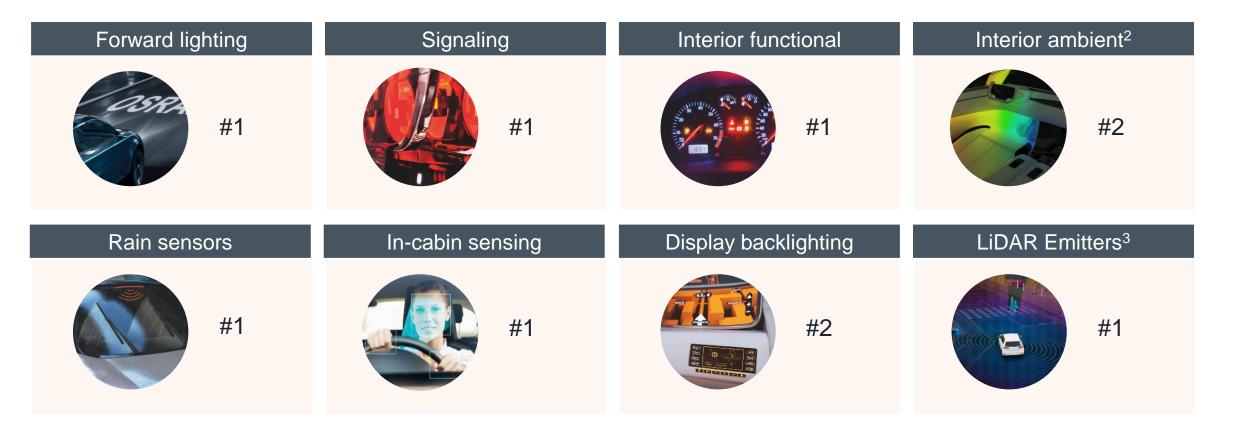
Driving automotive application and technology trends



Leadership positions in automotive applications

Examples of market position in automotive applications¹





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1) Based on latest available market data; external industry research and analysis as well as internal market models 2) RGB applications 3) Automotive and Industrial markets combined

Innovative portfolio for smartphone, wearable, AR/VR and other devices



Sensing

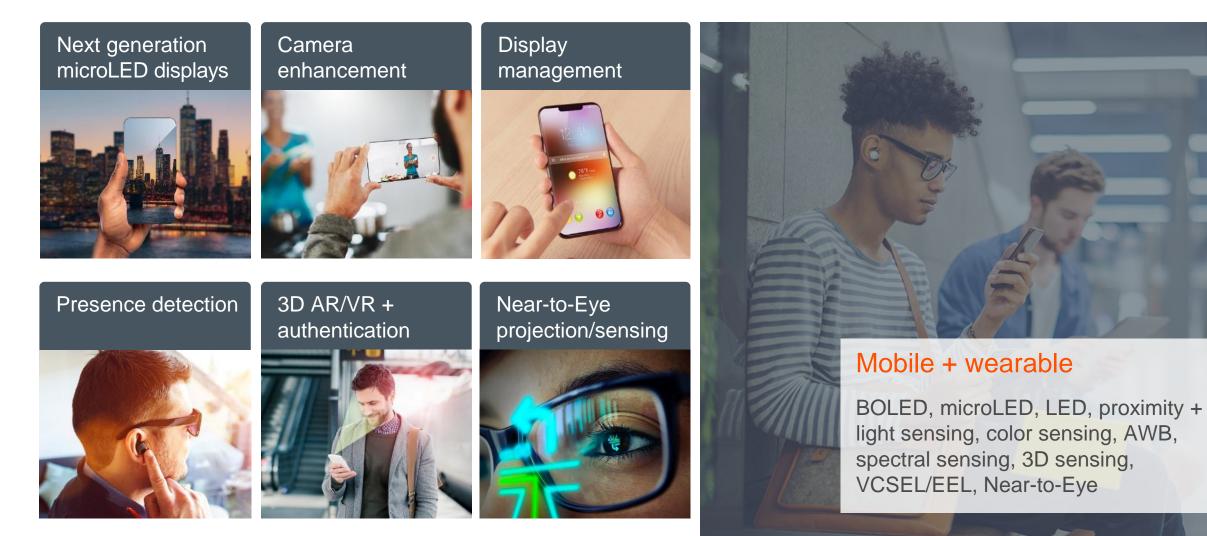
- Camera enhancement
- Display management / BOLED sensing
- 2D/3D sensing (Augmented Reality, other)
- Vital Signs Monitoring
- Authentication
- Eye/hand/body tracking
- User interfacing

Illumination / Visualization

- MicroLED
- LED/laser projection (AR/VR glasses)

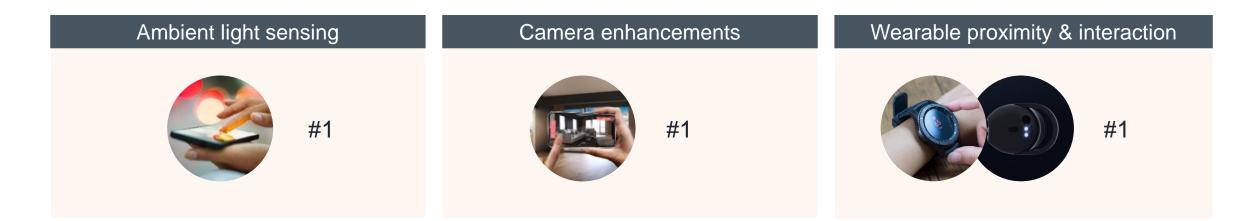
Enabling innovation in mobile + wearable devices

Creating solutions for consumer application and technology trends



Leadership position in consumer applications

Examples of market position in consumer applications¹





CALL OSRAM

1) Based on latest available market data; external industry research and analysis as well as internal market models

Strong differentiation in industrial and medical applications



Illumination / Visualization

- Outdoor/industry lighting
- Horticulture & smart farming
- LED & laser projection
- UV-C LED disinfection

Sensing

- Industrial automation (IoT + robotics, imaging)
- Home & Building Automation (HABA)
- Medical imaging
- Vital signs monitoring

Enabling innovation in industrial + medical applications

Technologies for current and emerging industrial applications + innovative medical uses



Leadership position in industrial/medical applications

Examples of market position in industrial and medical applications¹







1) Based on latest available market data; external industry research and analysis as well as internal market models 2) Key market area 3) Automotive and Industrial markets combined

Highlights Q4 2022 & Outlook Q1 2023

Q4 2022

- Solid overall results fully in line with guidance range in difficult sector and market environment
- Semiconductors
 - Ongoing inventory adjustments in Automotive, solid performance
 - Consumer in line with muted expectations, unfavorable smartphone market
 - Increasingly negative demand trends in Industrial
- Lamps & Systems
 - Good automotive results including supportive aftermarket seasonal effects
 - Other areas reflecting end market trends
- Last planned disposal signed, nearing completion of disposal program
- Strong operating cash flow
- Healthy cash balance and solid leverage situation

Q1 2023

- Expected revenues EUR 900-1,000 million
- Expected operating profitability 4-7% (adj. EBIT margin)
- Reflecting ongoing market correction effects, lower expected production and shipment volumes, adverse exchange rate and deconsolidation effects
- EUR ~10m deconsolidation effects QoQ from closing of Traxon disposal

Sensing is life



Financial Results FY and Q4 2022

Full year and Q4 2022 key financials at a glance

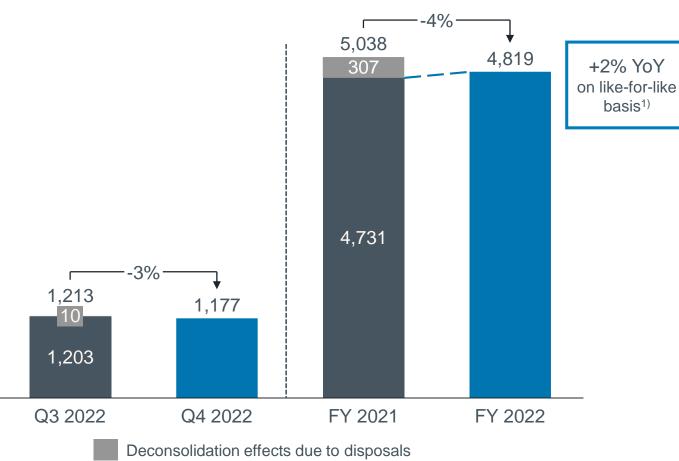
Revenues		Gross margin (adj.)		EBIT margin (adj.)	
FY 2022	Q4 2022	FY 2022	Q4 2022	FY 2022	Q4 2022
4,819m EUR	1,177 EUR	30.5%	28.5%	8.4%	7.3%
-4.4% у-о-у	-2.9% q-o-q	1,470m EUR	336m EUR	407m EUR	86m EUR
Net result (adj.)		Operational Cash Flow		Net debt	
FY 2022	Q4 2022	FY 2022	Q4 2022	FY 2022	
124m EUR	29m EUR	599m EUR	201m EUR	1,717m EUR	
2.6%	2.5%	12.4%	17.1%	2.0x Leverage	

All figures in EURm / % of revenues, Leverage based on Net debt / Adj. EBITDA LTM Adjusted figures exclude M&A-related, transformation and share-based compensation costs as well as results from investments in associates and sale of business



Group revenues – Full year and Q4 2022

Total revenues



All figures in EURm / % of revenues ¹⁾ Based on like-for-like portfolio comparison basis

Comments

Q4 2022

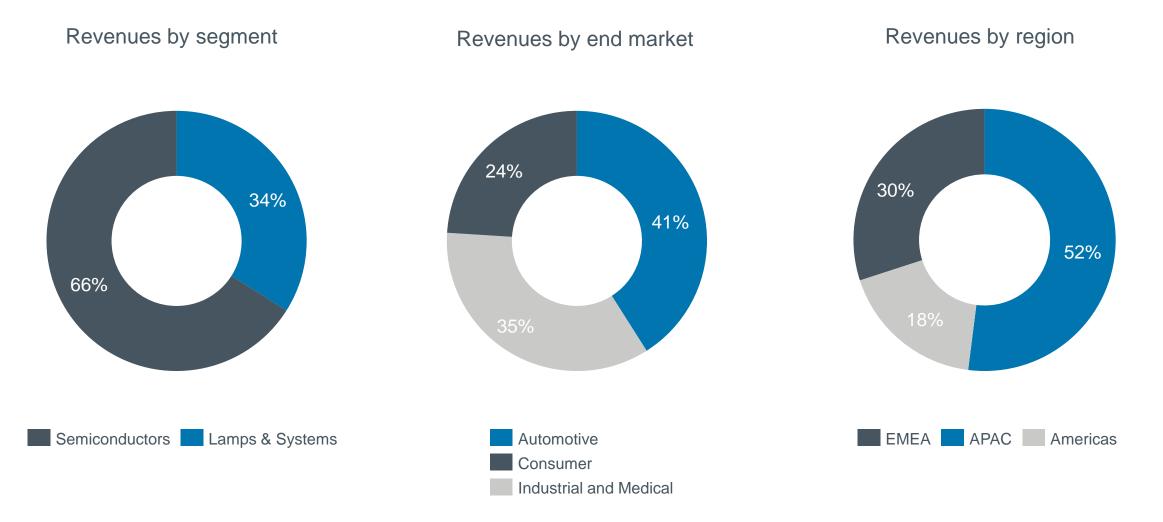
 Slight sequential decrease due to challenging market environment, fully in-line with guidance range

FY 2022

- Year-on-year growth on like-for-like portfolio comparison basis
- Year-on-year comparison reflects deconsolidation effects of around EUR 307m from several meaningful disposals including former OSRAM Continental JV business AMLS, Fluence horticulture fixtures business and others

OSRAM

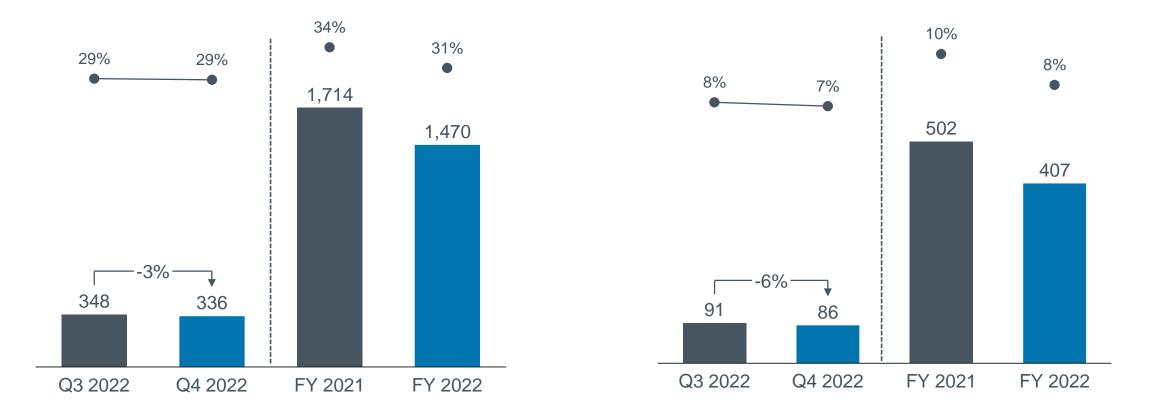
Balanced revenue distribution – Full year 2022



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Group profitability – Q4 2022

Gross profit, gross margin (adj.)¹⁾



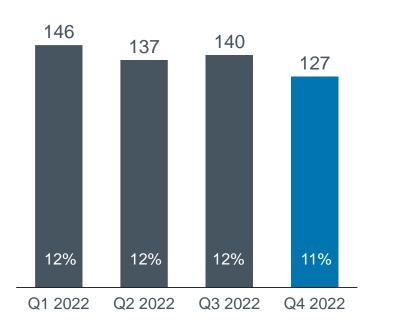
All figures in EURm / % of revenues, 2021 financials reflect reclassification within functional cost categories ¹⁾ Excluding M&A-related, transformation and share-based compensation costs as well as results from investments in associates and sale of a business

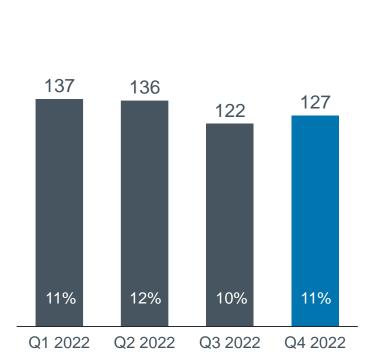
EBIT, EBIT margin (adj.)¹⁾

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Operating expenses

R&D expenses (adj.)¹⁾





SG&A expenses (adj.)¹⁾

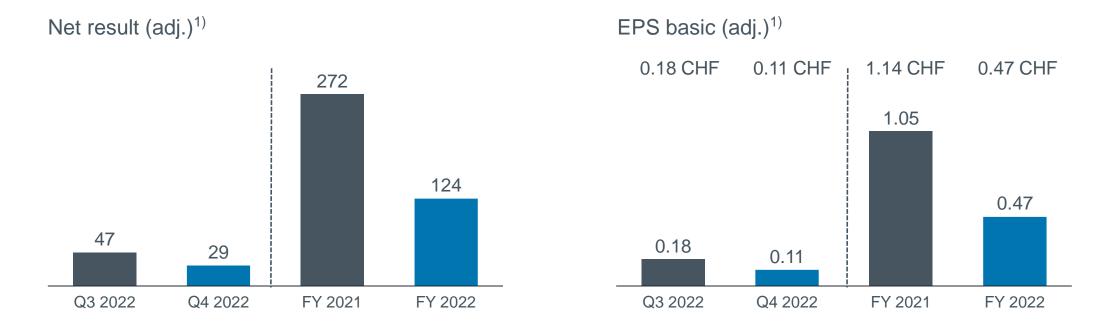
Comments

- R&D development reflects streamlining and efficiency programs
- Portfolio- and roadmap-driven R&D investments for new technologies (by far largest portion of R&D in Semiconductors segment)
- SG&A base-line reduction over last quarters, progressing towards target corridor
- Target levels for operating expenses

 Adj. R&D 11-14% of revenues
 Adj. SG&A 7-9% of revenues

OSRAM

Adj. Net result and Adj. EPS



• FY: - Financial result EUR -201m, in line with expectations (FY 2021: EUR -198m), thereof EUR 125m interest paid

OSRAM

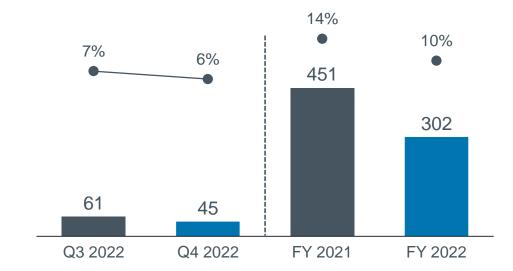
- Other operating income EUR 179m mainly due to book gains of disposals, other operating expense EUR -357m particularly due to one-time non-cash impairment charges
- IFRS reported net result EUR -444m

All figures in EURm / EUR / CHF per share
 ¹⁾ Excluding M&A-related, transformation and share-based compensation costs as well as results from investments in associates and sale of a business

Semiconductors performance

Total revenues

EBIT, EBIT margin (adj.)¹⁾

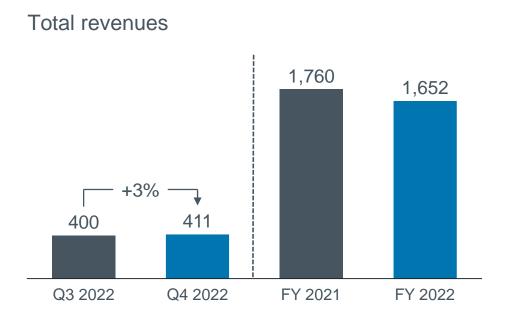


- Q4: Sequential development reflects demanding market environment and ongoing inventory corrections
- FY: Solid results in automotive business despite supply chain volatility and inventory adjustments
 - Less favorable demand trends in consumer market given lower smartphone volumes year-on-year; industrial and medical overall good performance with negative trends in industrial areas towards year-end
 - Profitability impacted by lower production volumes in H2 as communicated previously

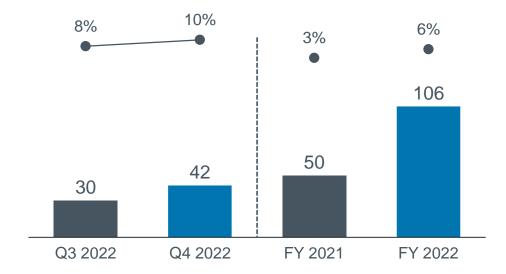
All figures in EURm / % of revenue ¹⁾ Excluding M&A-related, transformation and share-based compensation costs as well as results from investments in associates and sale of a business



Lamps & Systems performance



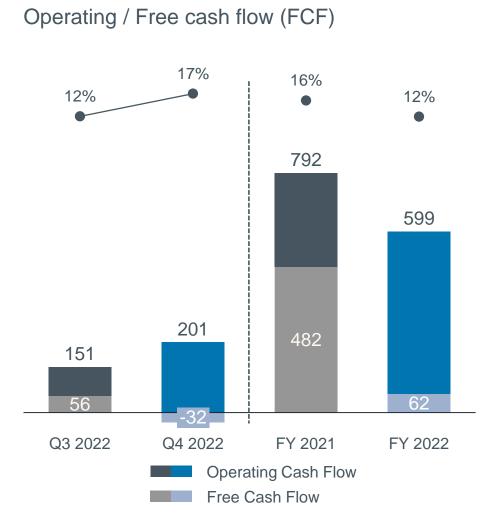
EBIT, EBIT margin (adj.)¹⁾



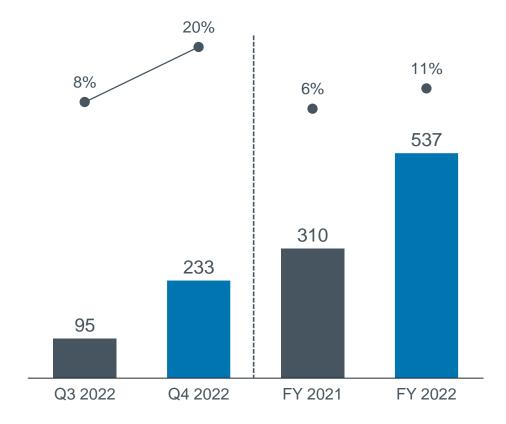
am OSRAM

- Q4: Sequential growth driven by strength in traditional automotive lighting (incl. aftermarket), further improved profitability
- FY: Overall good performance of L&S automotive business including aftermarket, despite decreased OEM production volumes YoY, L&S industrial markets mostly supportive
- FY & Q4: Attractive profitability includes positive effects of portfolio streamlining

Cash flow overview



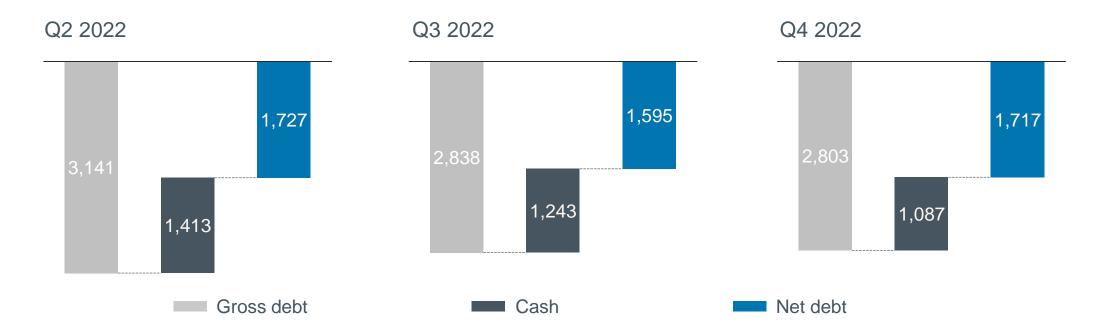
Capital expenditures



All figures in in EURm / % of revenues

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Cash and debt overview



- Substantial repayment of more than EUR 400m in 2022 (repayment of USD convertible bond a.o.)
- Solid group leverage at 2.0x net debt/adjusted¹⁾ EBITDA (end of Q4 2022)
- Well-layered debt and maturity structure, augmented by undrawn multi-year EUR 800m revolving facility
- ~95% of outstanding debt on fixed rate basis
- Adj. EBITDA¹ LTM EUR 853m (based on adj. EBIT + D&A not related to adjustments)

All figures in EURm ¹⁾ Excluding M&A-related, transformation and share-based compensation costs as well as results from investments in associates and sale of a business

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Outlook Q1 2023

Revenues

EUR 900-1,000 million

Operating profitability

4-7% (adjusted EBIT margin)

Comments

- EUR ~10m deconsolidation effects compared to Q4 (Traxon transaction closed early December)
- Q1 year-on-year revenue development reflects deconsolidation effects of approx. EUR 80m





Profit and loss statement

IFRS reported figures

	Q4 2022	Q4 2021	FY 2022	FY 2021
Revenues	1,177	1,229	4,819	5,038
 Gross profit Gross margin (IFRS reported) Gross margin (adjusted¹⁾) 	257	382	1,258	1,449
	22%	31%	26%	29%
	29%	33%	31%	34%
Research and development	-146	-163	-630	-692
Selling, general and administrative	-151	-164	-608	-697
Other operating income	1	162	179	212
Other operating expense	-49	-28	-357	-43
Results from investments in associates	-2	-22	-4	-33
 Result from operations (EBIT) EBIT margin (IFRS reported) EBIT margin (adjusted¹⁾) 	-90	167	-161	197
	-8%	14%	-3%	4%
	7%	10%	8%	10%
Net financial result	-43	-49	-201	-198
Result before tax	-133	118	-361	-1
Income taxes	-14	50	-82	-31
Net result (IFRS reported)	-147	168	-444	-32
Net result (adjusted ¹⁾)	29	119	124	272

All figures in EURm / % of revenue, 2021 financials reflect reclassification within functional cost categories ¹⁾ Excluding M&A-related, transformation and share-based compensation costs as well as results from investments in associates and sale of a business



Balance sheet

Assets	Dec 31, 2022	Dec 31, 2021	Liabilities and equity	Dec 31, 2022	Dec 31, 2021
Cash and cash equivalents	1,087	1,331	Short-term interest-bearing loans	169	480
Financial investments short-term	21	6	Trade payables	811	710
Trade receivables	533	688	Income tax payables	87	85
Inventories	864	938	Current provisions	256	328
Other receivables and assets	223	185	Other current liabilities	1,345	1,359
Assets held for sale	157	134	Liabilities held for sale	50	40
Total current assets	2,884	3,282	Total current liabilities	2,717	3,001
Property, plant and equipment	1,856	1,606	Interest-bearing loans	2,635	2,646
Intangible assets	3,645	3,989	Employee benefits	179	181
Right-of-use assets	230	260	Deferred tax liabilities	105	205
Investments in associates	35	34	Provisions	45	48
Deferred tax assets	69	182	Other liabilities	318	413
Other non-current assets	54	143			
Financial assets	59	147			
Total non-current assets	5,948	6,362	Total non-current liabilities	3,281	3,493
			Shareholders' equity ams-OSRAM AG	2,826	3,142
			Non-controlling interests	7	8
Total assets	8,832	9,644	Total liabilities and equity	8,832	9,644

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Cash flow statement

Selected cash flow items

	Q4 2022	Q4 2021	FY 2022	FY 2021
Net result Amortization, depreciation and impairment	-147 233	168 173	-444 1,018	-32 760
Cash flows from operations	201	179	599	792
Capital expenditures Acquisition, net of cash acquired Proceeds and payments from disposals of businesses	-233 -18 11	-94 -73 162	-537 -25 346	-310 -524 277
Cash flows from investing activities	-236	-8	-183	-560
Proceeds from loans Repayment of loans Repayment / buyback of convertible bonds Repayment of lease liabilities Interest paid	1 -4 0 -20 -15	0 -2 -51 -22 -13	32 -134 -334 -109 -125	97 -287 -67 -75 -137
Cash flows from financing activities	-38	-168	-726	-534
Net change in cash and cash equivalents (incl. FX effects)	-227	16	-172	-236
Cash and cash equivalents at end of period	1,087	1,331	1,087	1,331

37



