

ADVA open edge networking

Solutions for a digital future

Investor presentation, April 2022



Disclaimer

FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking statements with words such as "believes", "anticipates" and "expects" to describe expected revenues and earnings, anticipated demand for optical networking solutions, internal estimates and liquidity. These forward-looking statements involve a number of unknown risks, uncertainties and other factors that could cause actual results to differ materially. Unknown risks, uncertainties and other factors are discussed in the 'risk report' section of ADVA Optical Networking's annual report 2021.

CONSOLIDATED PRO FORMA FINANCIAL RESULTS

ADVA provides consolidated pro forma financial results in this presentation solely as supplemental financial information to help investors and the financial community make meaningful comparisons of ADVA's operating results from one financial period to another. ADVA believes that these pro forma consolidated financial results are helpful because they exclude non-cash charges related to stock compensation programs and amortization and impairment of goodwill and acquisition-related intangible assets, which are not reflective of the group's operating results for the period presented. This pro forma information is not prepared in accordance with IFRS and should not be considered a substitute for historical information presented in accordance with IFRS.





Company overview

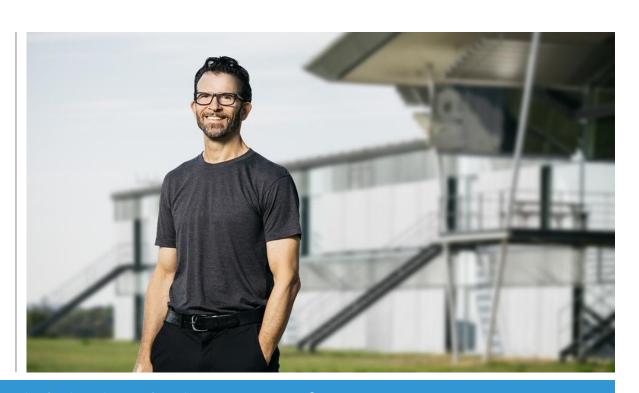
Mission, vision, customers and products

Transforming our business

Statement from the CEO

"With our investments in recent years, we have created the foundation for transforming our business model.

This transformation includes growing revenue contributions from software and services, expansion into new industries and further verticalization of our business."



Digitization is bringing the investment focus to us



ADVA fundamentals



Background

- · Headquartered in Munich, Germany
- Approximately 1,900 employees
- EUR 0.6 billion turnover

Atlanta Richardson Neuchâtel York Meiningen Munich Gdynia

Our vision



We love to work with highly innovative people to connect the world and drive change, success and value. In an increasingly digital environment, our networking technologies enable those who are solving the world's most critical challenges



Our mission

Our mission is to be an innovation leader focused on our customers' experience by building better networking solutions





Haifa Shenzhen Singapore Melbourne

We build the technology that helps to create a connected world



The executive team



Scott St. John CMSO

Sales Services Marketing



Christoph Glingener

CTO
PLM
Development
Global BD



Brian Protiva

CEO HR Compliance Quality analytics



Ulrich Dopfer

CFO Finance, IR Legal IT





The ADVA brand promise

Speed for customers



Innovation leadership () ADVA Trusted partner

Open networking solutions

- Differentiated technology
- Network-level applications
- Market-leading scalability and efficiency

Operational excellence

- High quality
- Short lead times
- Award-winning sustainability focus

Ease of doing business

- Technology and VAR ecosystems
- Broad and deep application expertise
- Financial stability, solid balance sheet

Enabling our customers to capitalize on cloud and mobility



Serving network operators around the world

Private enterprises

30 of top 50 banks (revenue)

30%*

- + Premium quality
- + Customer loyalty and trust
- Limited project volume

Gr Georgia

















Communication service providers

- 17 of top 25 global CSPs
- 5 of top 6 global Ethernet service leaders

65%*

- + Longevity (stickiness)
- + Volume
- Long sales cycle (RFPs)



colt

ETIM



TATA



openreach









4 of top 5 global ICPs



Internet content provider

- + Volume and growth potential
- Aggressive pricing
- Limited visibility and stickiness









Yandex



*approximate revenue contribution FY 2021

Global diverse customer base drives growth and mitigates risk



Our partners

Technology partners























Research alliances

UNIVERSITY SYSTEM

Security and encryption and storage

Data center

Ethernet and IP

NMS and assurance

Ensemble harmony ecosystem











































... and many more driven by real-world customer deployments

Partner ecosphere members

Featured ELITE partners



























Featured SELECT partners





















... and many more Connect+ and Connect partners



ADVA's technology tripod

Cloud interconnect



70% of revenues

Private enterprises:

Business continuity and disaster recovery

Internet content provider: (Hyperscale) DCI

Communication service provider: Metro and edge upgrade for IoT, 5G and cloud services

Cloud access



25% of revenues

Private enterprises:

Secure cloud access and SD-WAN

Internet content provider: Edge cloud

Communication service provider: Zero-touch service delivery and assurance

Network synchronization



5% of revenues

Private enterprises:

Timing for critical infrastructure MiFID II financial time stamping

Internet content provider: Global database synchronization

Communication service provider: Next-gen mobile (5G)



Overall sustainability approach and ratings

Holistic approach

- Covering all sustainability aspects
- Science-based emissions targets (SBTi 1.5°C targets)
- Process-based product ecodesign and lifecycle assessments
- Optimization of operations, logistics and all packaging
- ISO 50001 and ISO 14001
- Supply-chain engagement
- Circular-economy processes

External ratings

Platinum rating from EcoVadis





Gold rating from TIA / QuEST Forum



Top ratings for a holistic sustainability approach



Why ADVA?

Growth and profitability



Positive macro dynamics

First-class customers and partners



Strong products and technology alignment

Excellent team and patent portfolio



Accelerating cash generation

Innovative solutions for a digital future





Market dynamics

Growth drivers, competitive landscape

Market growth drivers

Enterprise transformation

- Investment in new technologies to stay relevant and lead the transformation and digitization of society
- Security is of highest importance



Moving to the cloud

- Video, video, video!
- Terascale DCI*
- Secure cloud access
- Virtualized service creation
- Edge cloud investments





*data center interconnect

5G and IoT

- New fronthaul, backhaul and timing investments
- Edge compute resources inside the network expand rapidly
- Open wholesale models prevail

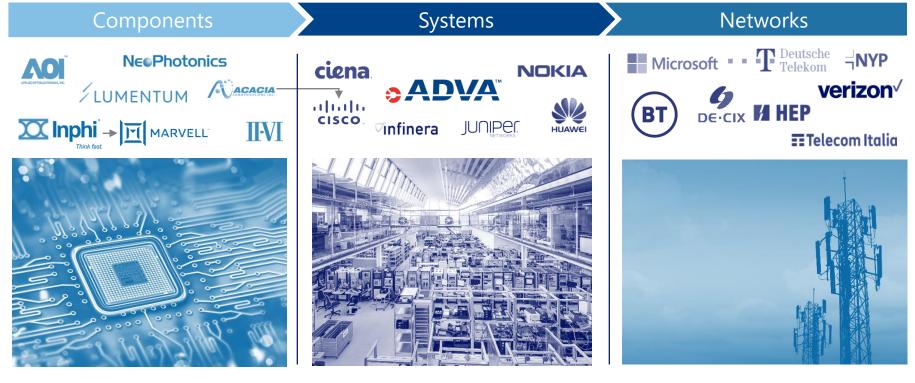




Megatrends drive investment focus to the edge, where ADVA performs best



Networking industry – a consolidating ecosystem



Production floor ADVA, Meiningen, Germany

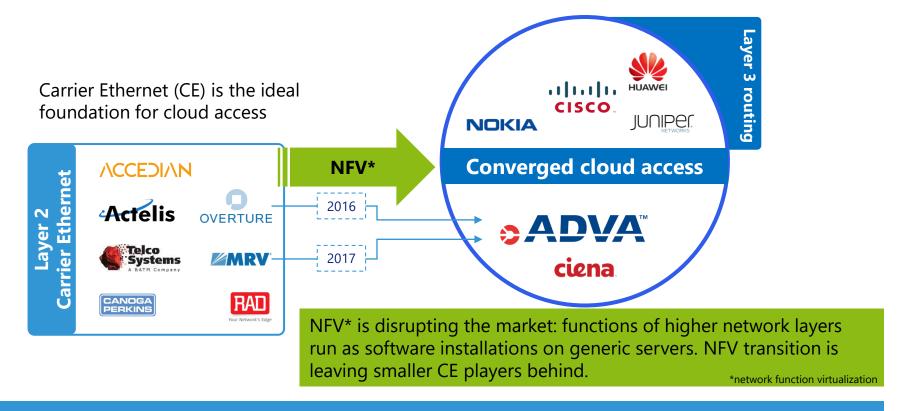


Systems suppliers in times of deglobalization





Technology convergence at the network edge



Network layers 2 and 3 in the access are converging leading to TAM expansion



New market dynamics and opportunity expansion

Macro dynamics ...

- Pandemic accelerates digitalization
- Deglobalization impacts vendor selection
- Industry consolidation reduces choice

... have shifted the baseline

- Network infrastructure transitions from cheap commodity to strategic asset
- Government stimulus favors trusted suppliers
- Few remaining western suppliers that are profitable and have required credentials

Macroenvironment provides positive tailwinds for ADVA



Market share data – ADVA highlights

Optical networking¹

Access WDM, EMEA (12%)

- Metro WDM, EMEA (16%)
- Purpose built DCI, EMEA (18%)

1) Omdia, Optical networking Q4 2021, April 2022

Data center interconnect²



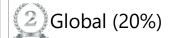


Government & R&E EMEA (43%)

2) Omdia, Data center interconnect Q4 2021, April 2022

SP access switching and Carrier Ethernet demarcation³





3) Omdia, Service provider access switching and Carrier Ethernet demarcation, Q4 2021, publ. April 2022

All numbers rolling four quarters

Innovation leadership and strength in growth markets





Technology

Products and solutions

ADVA solutions overview

Ensemble network management and control Internet **Synchronization** content provider and timing Communication Cloud and OTT service provider services Metro / Core Distribution and hosting Service delivery and assurance Enterprise Business continuity Disaster recovery Cloud access **Cloud interconnect**

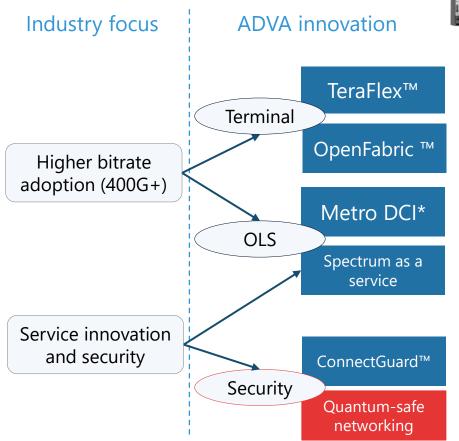


Cloud interconnect overview

Objective

Lowering cost per Gbit/s mile

Increasing infrastructure value





Open terminal with highest data rates (1200G)

Efficient Terabit traffic grooming

Industry-leading open line system, empowering new services

Industry-leading encryption technology

*data center interconnect



Cloud interconnect dynamics

Open optical networking solutions

Foundation



Transformation



Upside

- Market leadership in enterprise DCI¹
- Large installed base of OLS² in hyperscale DCI
- Proven track record with global tier 1 / tier 2 customer base

- Higher bitrate adoption (400Gbit/s+)
- Disaggregation to eliminate vendor lock-in
- Stringent security and encryption requirements

- Share gain through 400G+ optimized product portfolio
- TAM and margin expansion through verticalization
- Share gain through leadership in post quantum security

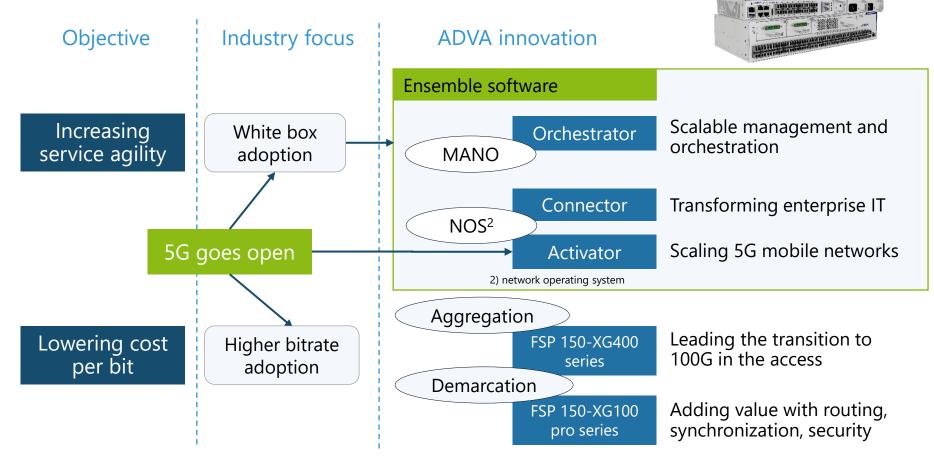
Delivering scalable bandwidth for a digital future



^{1) &}gt;30% global, >50% in EMEA; Source: Omdia, market share 4Q21 (rolling four quarters) optical networks global and data center interconnect, publ. April 2022

²⁾ open line system

Cloud access overview





Cloud access dynamics

Empowering the network edge

Foundation



Transformation



Upside

- Market leadership in Carrier Ethernet (CE) access¹
- Differentiated portfolio for 100G aggregation
- Technology leadership in NFVi²

- Transition to 10/100G in access and backhaul
- Collapsing multiple hardware appliances through NFV
- White box adoption in mobile networks and edge cloud

- Share gain in consolidated CE vendor landscape
- Growing from switching into higher-value routing layer
- TAM expansion and software revenues through NOS³-leadership

3) network operating system

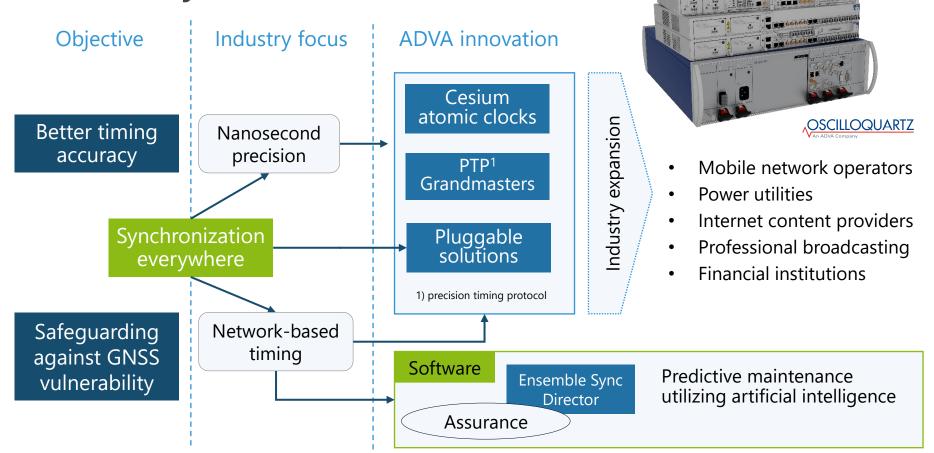
Programmable edge cloud solutions for mobile networks, business access and IoT



^{1) 20%} global, 44% in EMEA; Omdia, market share 4Q21, SP access switching & Ethernet demarcation, publ. April 2022

²⁾ Network function virtualization infrastructure; Harmony ecosystem with >50 VNFs and a wide range of hardware choices

Network synchronization





Network synchronization dynamics

Foundation



Transformation



Upside

- Technology leadership in network-based timing
- Consistently high win rates leading to impressive list of MNO¹ customers
- Three-year CAGR > 25%
 - 1) Mobile network operators

- Ever more stringent timing requirements with submicrosecond accuracy
- Weakening competitors
- Security concerns²
 - 2) Vulnerability of satellite-based timing increasingly problematic

- Accelerating 5G rollouts
- New market verticals including energy, finance, broadcasting
- PNT³ alternatives
 - 3) Position navigation timing

The world needs better timing – network-based and assured



Product portfolio overview

Cloud access

Solutions that enable communication service providers to deliver software-defined, differentiated and performance-assured wholesale, mobile backhaul and business services;

Estimated 2021 market size and CAGR (2020-'25) for access switching & Ethernet demarcation; Source: Omdia, "Service provider switching and routing forecast 3Q 21", published January 2022

TAM (billion USD)		0.6
CAGR (5 year)	<u> </u>	4.2%

Network synchronization*

Solutions to deliver accurate and scalable time and frequency synchronization for mobile network infrastructure, utilities, media distribution networks, financial services, distributed data bases and meteorology;

Estimated 2021 market size and 5yr CAGR – ADVA internal estimates

ADVA revenue CAGR > 25%



TAM (billion USD) 0.3

CAGR (5 year) 5%

Cloud interconnect

Solutions that deliver scalable bandwidth for access, metro and long-haul networks; high levels of open interworking, programmability and ease-of-use;

	Metro	Long Haul
TAM (billion USD)	5.8	4.0
CAGR (5 year)	3.9%	1.5%

Estimated 2021 market size and CAGR (2020-'2025) for metro and long haul WDM excl. China;

Source: Omdia "Optical networks forecast 2021-2026" published June 2021

Approximate revenue contribution rolling four quarters

70%

Growth rates are highest in segments where ADVA performs best



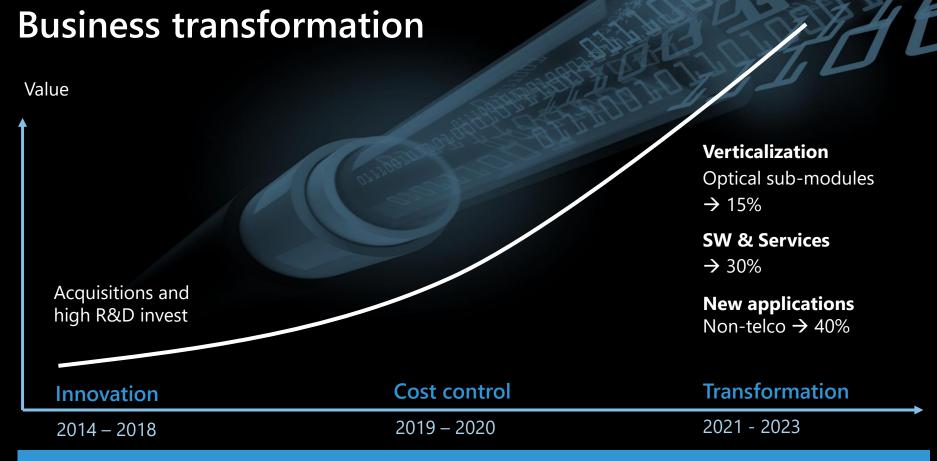
25%

5%



Transformation

... to higher margin business



Leveraging our investments of the last years to a higher margin model

Transformation has started

to support our financials

New applications Oscilloquartz CAGR >25%

Government wins

Enterprise IT

Verticalization

MicroMux[™] family expansion

SW & Services

Accelerating growth $23\% \rightarrow 25\%$ (2021)

Driving operating results to new levels

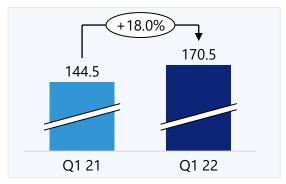


Financials

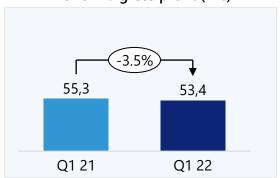
Overview

Q1 2022 key financials

Revenues (m€)



Pro forma gross profit (m€)



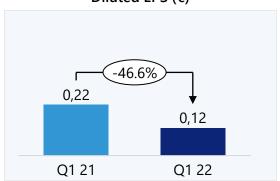
Pro forma EBIT (%)



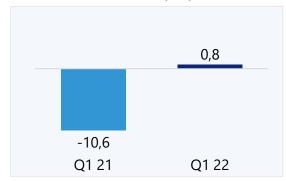
Net income (m€)



Diluted EPS (€)



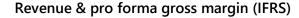
Net cash (m€)*



*Note: Net cash Q1 2022 includes EUR 24.4 million lease liabilities due to IFRS 16 (Q1 2021: EUR 27 million)

IFRS vs US GAAP comparison (pro forma)

(in millions of EUR, in % of revenues)





Revenue & pro forma gross margin (US GAAP)



Pro forma EBIT & margin (IFRS)

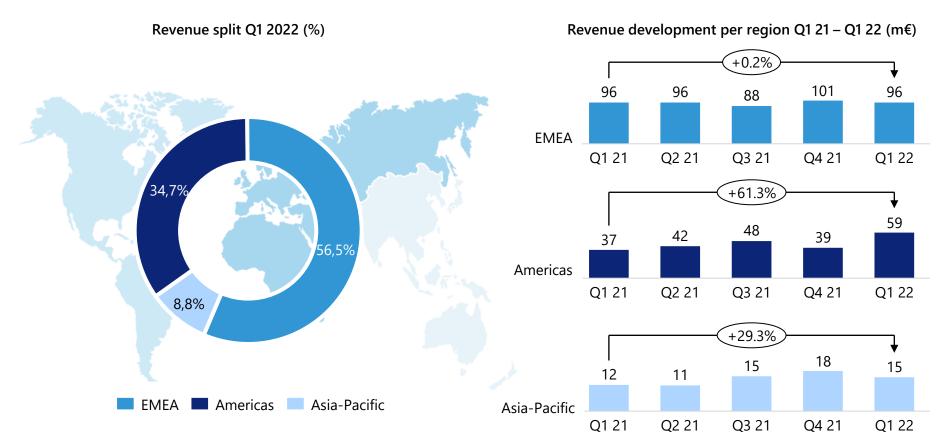


Pro forma EBIT & margin (US GAAP)





Regional revenue development Q1 2022

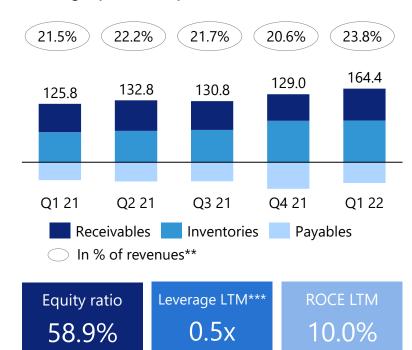


Cash flow and balance sheet

Cash flow breakdown (m€)*

	Q1		
	2021	2022	
Earnings before taxes	11.9	6.8	
Depreciation & Amortization	17.0	17.9	
Increase (-) / decrease (+) in working capital	4.0	-35.4	
Increase (-) / decrease (+) in other items	-5.5	-2.0	
Operating cash flow	27.4	-12.7	
R&D	-9.8	-12.4	
Other investing cash flow	-2.5	-9.6	
Investing cash flow	-12.3	-22.0	
Free cash flow	15.1	-34.8	
Gross cash end of period	79.1	73.0	
Net cash end of period	-10.6	0.8	

Working capital development (m€; %)



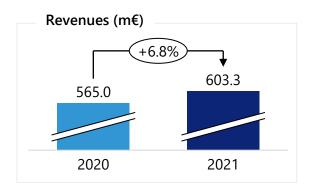
^{*} Potential differences due to rounding

^{***} Leverage is calculated as total bank debt divided by EBITDA. EBITDA is calculated as operating income plus depreciation and amortization of non-current assets. Impacts from IFRS 16 are excluded from leverage calculation.



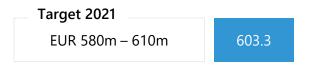
^{**} Calculated on a quarterly basis

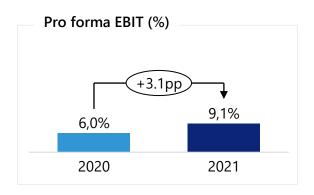
Financial year 2021 at a glance





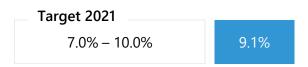
- Strong demand with record orderbacklogs
- Sequential growth of revenues despite supply chain challenges
- Growth driven by CSP's and enterprise customers

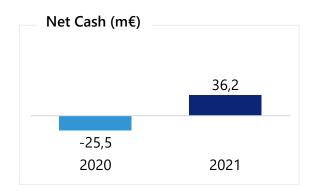




... with a margin at the upper end of guidance range

- Favourable customer and product mix with strict cost control helped to compensate for higher purchasing costs
- Pandemic driven less travel and marketing expenses





Net Cash significantly increased by EUR 61.7m y-o-y

- Free cash flow generation of EUR 59m (2020: EUR 38.8 m)
- Scheduled repayments of EUR 15m
- Very flexible balance sheet with a cash position EUR 109.0m

Target 2021

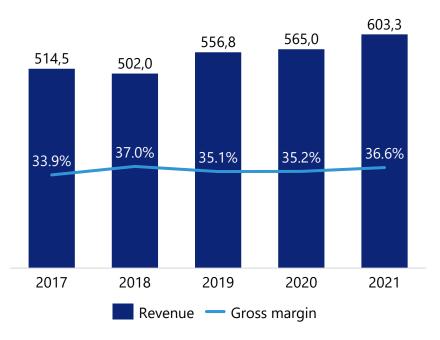
Net Debt to be in the single-digit million range



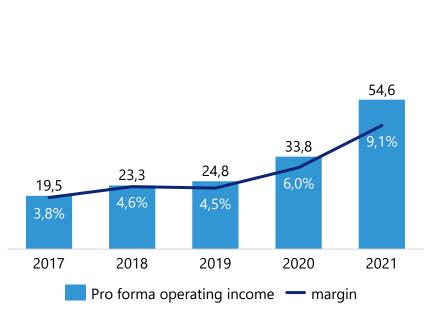


Annual revenue and pro forma profitability

Revenue & pro forma gross margin (m€; %)



Pro forma EBIT & margin (m€; %)



^{*} Pro forma EBIT is calculated prior to non-cash charges related to the stock compensation programs and amortization and impairment of goodwill and acquisition-related intangible assets. Additionally, non-recurring expenses related to M&A and restructuring measures are not included.



Financial policy – investment grade rating



Comments

- Conservative financial policy targets a Debt / EBITDA leverage ratio of max. 2.5x
- Low current leverage level of 0.4x
- Balanced repayment profile and future profit generation will lead to a strengthened balance sheet
- High equity ratio of 56.5% significant above target of 30%



Outlook FY 2022

Revenues (m€)

650m – 700m

Pro forma EBIT (%)

6% **– 10**%

Supported by:



Business transformation strategy successfully implemented

Non-telco expansion – software & services – verticalization



A unique investment cycle for communications networks

Digitalization – government stimulus – network security

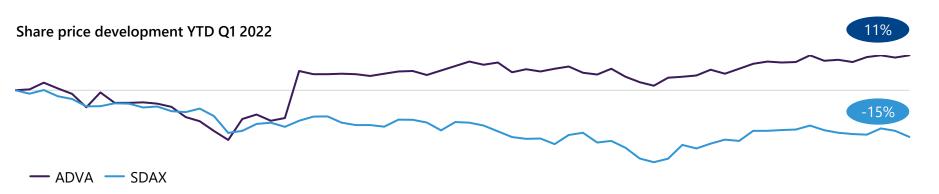


Technologies well aligned

Cloud, mobility, 5G, automation and security for mission critical infrastructure



Share price development



Analyst recommendations and consensus 2022

Institution	Revenues	EBIT PF	EBIT PF in %	Target Price	Rec.	Date
Oddo	657,000	42,800	6.5%	18.00	Neutral	21.04.2022
First Berlin	660,373	52,971	8.0%	20.00	Buy	12.04.2022
Kepler Cheuvreux	669,700	58,400	8.7%	14.98	Buy	25.02.2022
Northland	685,000	59,800	8.7%	20.00	Outperform	24.02.2022
Warburg	679,300	50,529	7.4%	18.50	Buy	25.02.2022
Average	670 275	52 900	7 9%	18 30		

Shareholder Structure as of April 27, 2022



11% share price performance YTD and TP of €18.30 (prior: €15.75)



Financial calendar 2022





Thank you

ir@adva.com

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