u-blox 2023 Capital Markets Day

Focus – Innovate – Execute

November 2023





Disclaimer

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Speakers



André Müller Chairman



Stephan Zizala



Roland Jud CFO



Andreas Thiel Executive Director, Co-Founder Head of Product Centers



Jean-Pierre Wyss Executive Director, Co-founder Head of Production and Logistics



Markus Schaefer Executive Director Head of Marketing & Sales



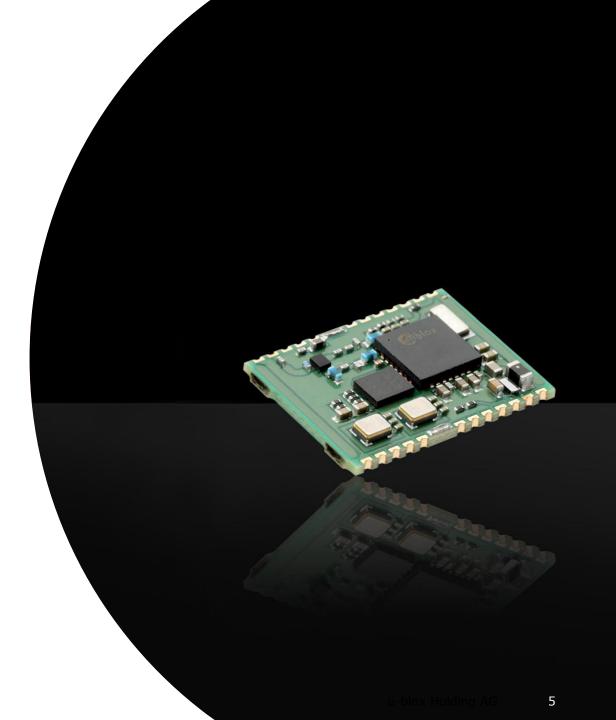
Agenda

Welcome
Who we are
Our strategic ambitions
Where we play / How we win
Product lines
Go-to-market
Operational excellence
Financials / Capital markets
Outlook / Summary
Questions and Answers



Welcome

André Müller Stephan Zizala





Welcome from the Chairman

- We focus on long-term growth drivers such as autonomous driving and Internet of Things
- Our innovations set the standard in the industry
- We have refined our strategy and are happy to share the key outcomes with you today
- Our "Focus Innovate Execute" strategy is the right step for unlocking u-blox's value for years to come
- Our strategy is supported by a highly motivated u-blox team and a new anchor shareholder





Our Mission

Leading the world to reliably locate and connect every thing.



Summary: Focus – Innovate – Execute Positioning innovation and Connectivity economies of scale

Key long-term growth drivers

- Strong structural growth: automated driving, asset tracking and management, industrial automation and monitoring (digitalization), remote healthcare
- Trustworthy partner with a reliable supply chain

Strategy

- 1) Increase focus on highly differentiated Positioning business and substantially shift R&D teams to Positioning innovations
- Turn-around the Connectivity business by stopping cellular chip development and by gaining scale, leveraging our trustworthiness as Swiss supplier in a multi-polar world
- 3) Improve execution performance by agile development and increased bottom line focus

Target Financial Model



Over the cycle

- >10% revenue growth (CAGR)
- ~14% EBIT margin (adj.)
- ~8% Free cash flow margin

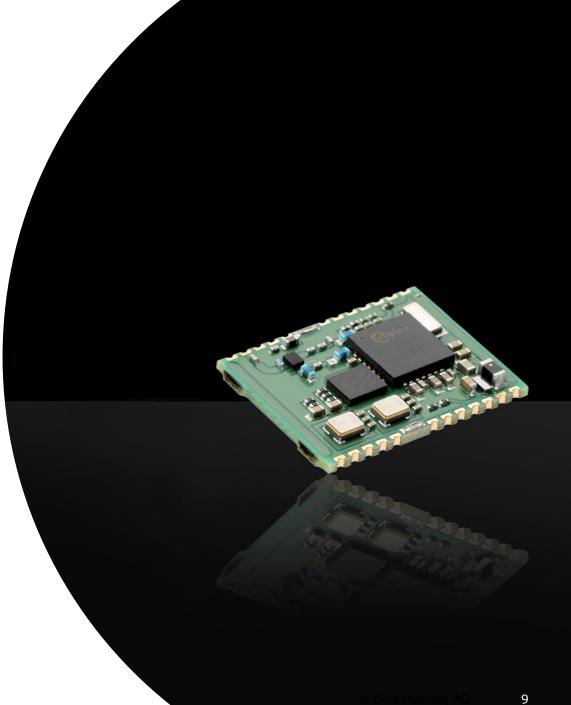
Notes:

- Basis for next cycle: 2023
- Target margins as average for cycle
- Target Financial Model replaces mid-20's ambitions



Who we are

Stephan Zizala Jean-Pierre Wyss Andreas Thiel





u-blox offers semiconductor solutions to locate and connect every thing

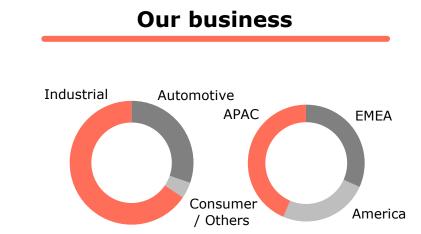
Our products

Our team



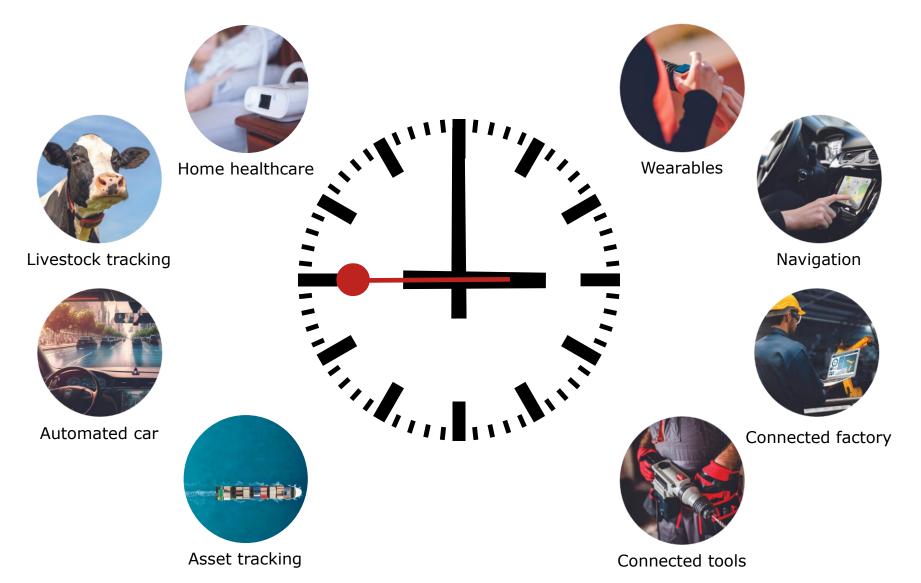
- Team of 1,300+ experts
- Diverse culture with 60+ nationalities for a global market
- Founded in 1997, spin-off from ETH Zurich, CH

	Chip	Module	Service
P Positioning			
C Cellular			
S Shortrange			



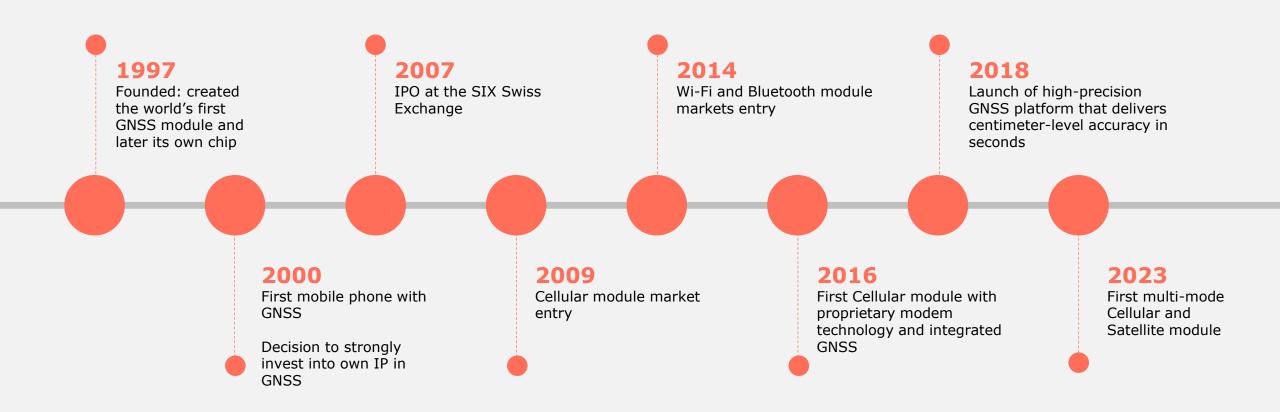
- CHF 624 million revenue in 2022
- Strong in industrial and automotive markets
- Regionally well balanced
- Highly diversified customer base (10,000+)
- Asset light (no own factories)

A day with u-blox – we support you, 24/7, everywhere



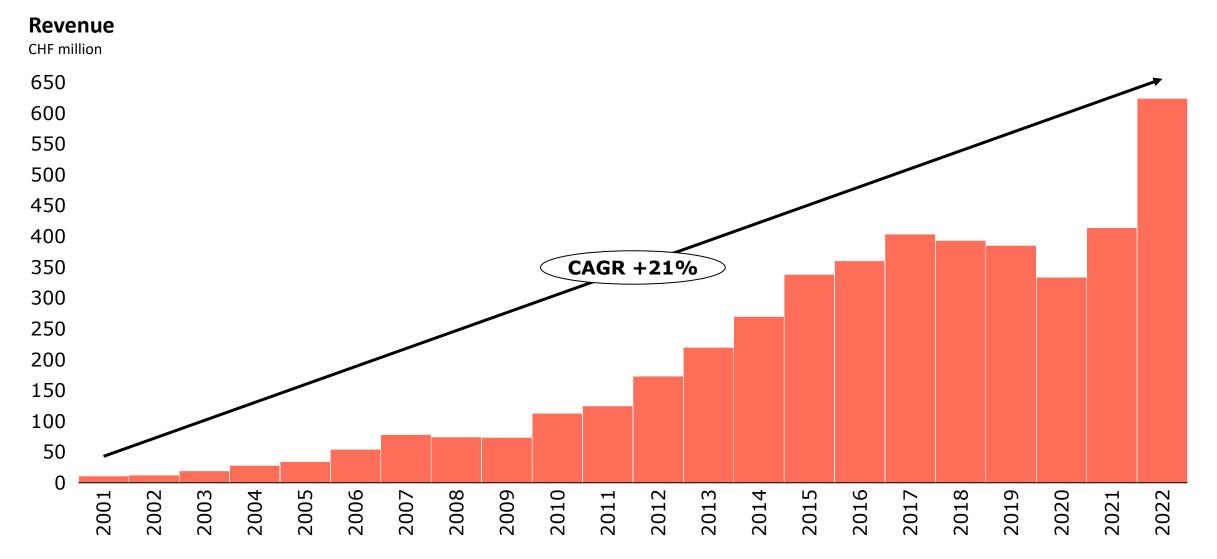


A continuous stream of innovations over 25 years showcase our future-proof core competencies





Track record of success: from start-up to today



u-blox has a unique combination of technical competencies: algorithms, chip, software, cloud

Signal processing: algorithms, software, chips



- Why: required for data transmission and reception by modifying signals for clarity, reliability, and efficiency
- u-blox experience
 - GNSS: > 25 years experience
 - Cellular: >12 years experience
 - Shortrange: > 8 years experience
 - Mixed-signal chip design: > 20 years experience

Embedded systems connected to the cloud



- Why: highly optimized in functionality, size, power consumption, cost
- >25 years experience
- Optimized radio frequency design
- Certified
- Connected to the cloud
- Easy to use

Reliability



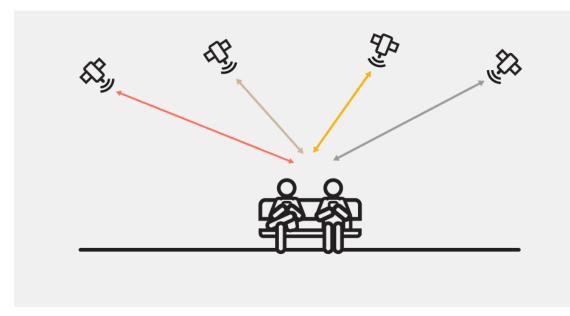
Why: key differentiator for automotive and industrial applications

- Quality
- Safety
- Security



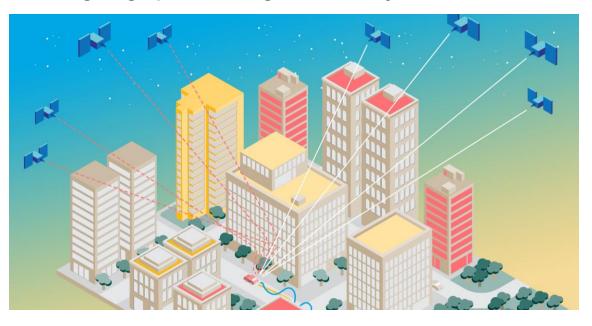
The concept of positioning is simple, making it better will continue for decades

Positioning in theory



- Mathematical problem with 4 unknowns: "length, width, height, time"
- Time measurement between receiver and 4 satellites allows for the solution
- Stationary receiver and satellites, perfect environment

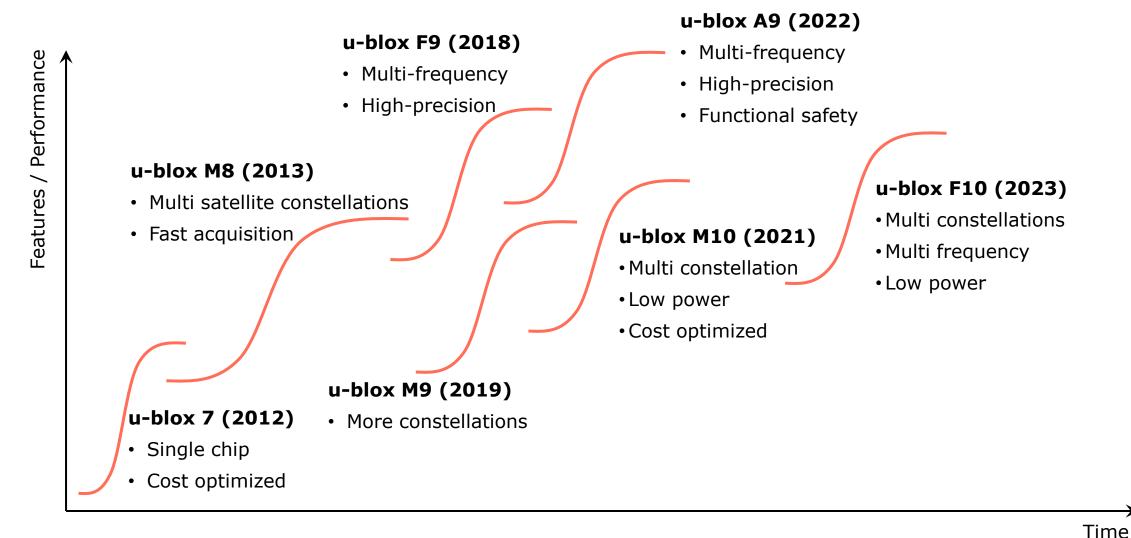
Leading edge positioning solution by u-blox



- Up to 100 satellites for:
 - best signal strength
 - faster time to first position calculation
 - avoiding reflection
- Sensor fusion for dead reckoning
- Anti-spoofing and anti-jamming algorithms



Protecting our advantage: the u-blox GNSS innovation stream with one new platform every 18 months





u-blox has all competencies required to provide innovative, optimized and reliable solutions

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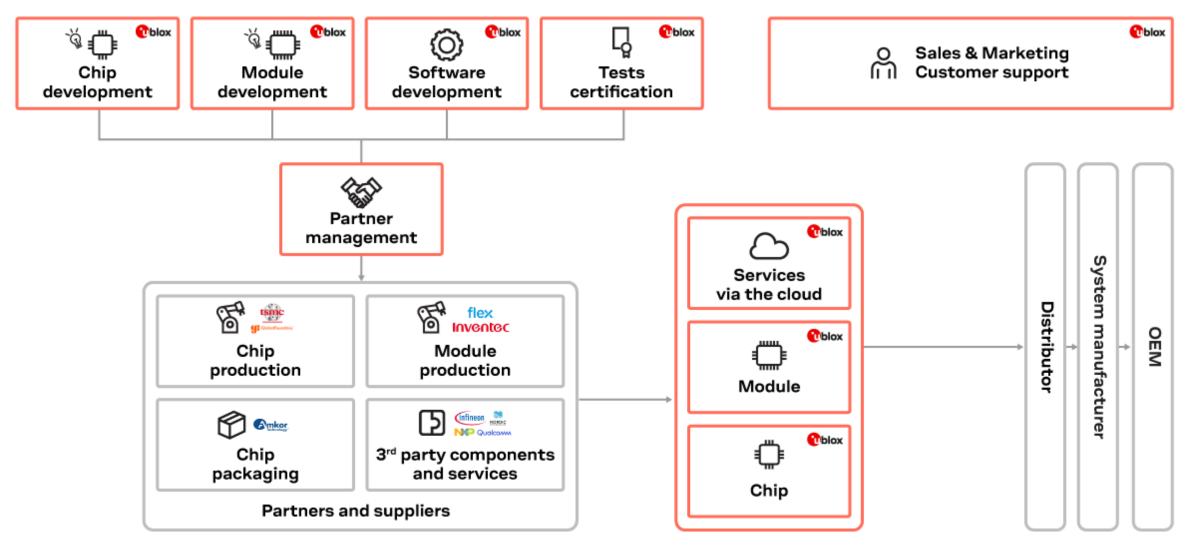
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	Chip	Module	Service	Chip	Module	Service	Chip	Module	Service
u-blox				0					
Nordic				•	•		٠	•	
Quectel, Telit Cinterion, Fibocom, Sunsea		•			•	•		•	
Semtech					•	•		•	
Hexagon, Trimble	•	•	•						
Airoha, Furuno, Sony, STM, Unicorecomm	•	•							
Broadcom	•						•		
Sequans					•				
Espressif, Silicon Labs							٠	•	
Altair, ASR, UniSoC									
Alps, Azurwave, Laird, Murata									

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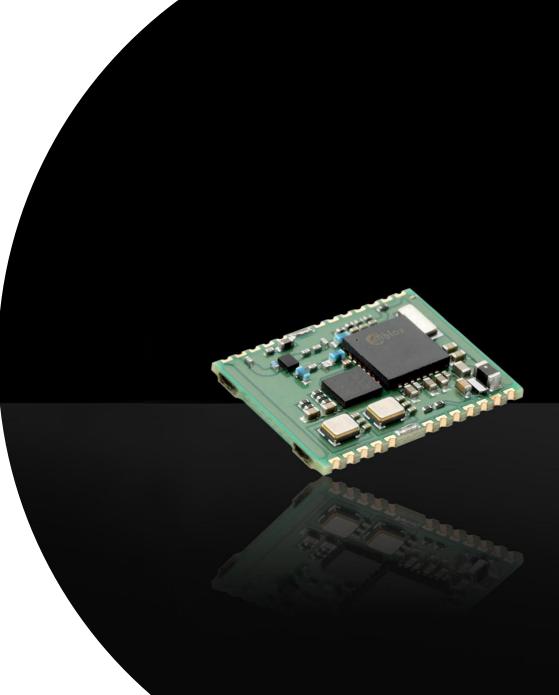
u-blox – an asset light engineering, marketing, and partner networking machine





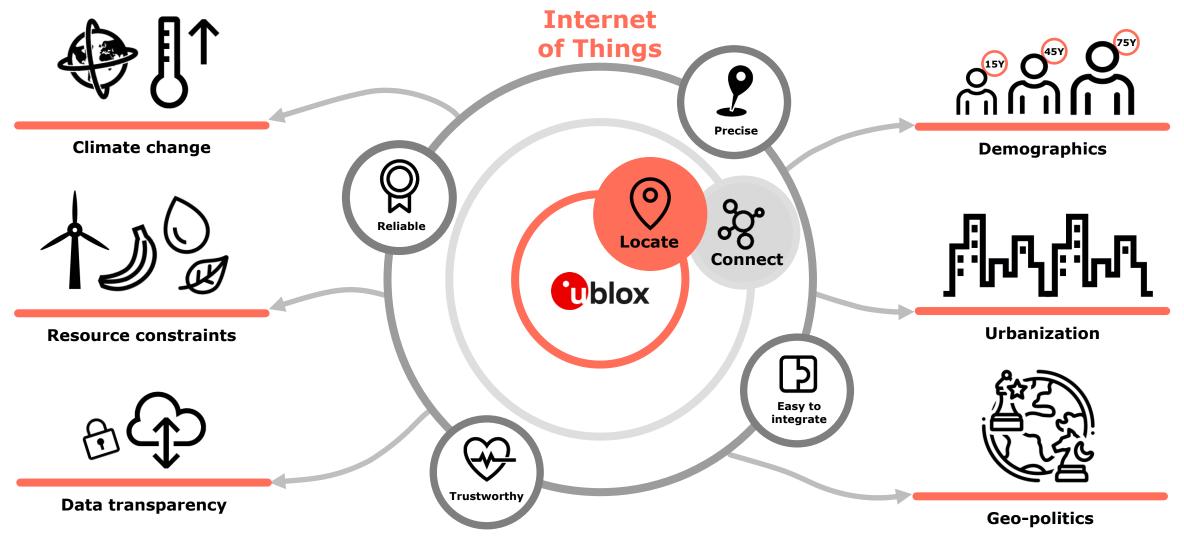
Our strategic ambitions

Stephan Zizala





u-blox addresses megatrends by locating and connecting every thing



u-blox Internet of Things solutions enable innovations to make the world more sustainable

Internet of Things and Sustainability

84% of Internet of Things

deployments are currently addressing, or have the potential to address the UN Sustainable Development Goals (SDGs).

(World Economic Forum, 2022)

Asset tracking and management

• Optimized freight routes reduce energy consumption

Automated driving

• Automated parking can reduce street parking

Healthcare

 Connected home medical devices enable a longer self-determined life

Industrial automation and monitoring

 Connected sensors can protect and monitor quality of water, air and soil







Examples

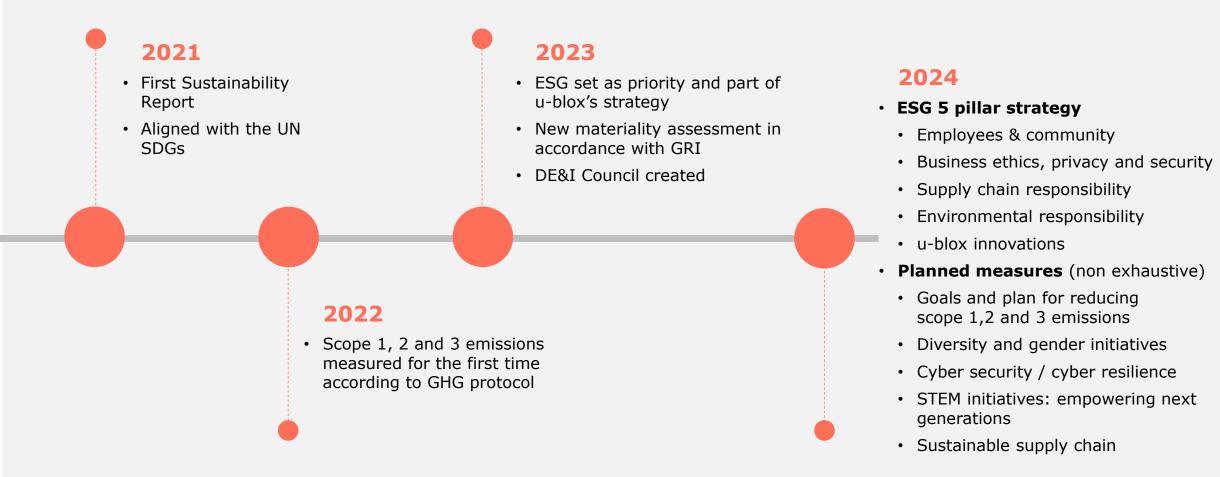
SDG

13 CLIMATE ACTION





Our increased focus on sustainability will lead to even more success

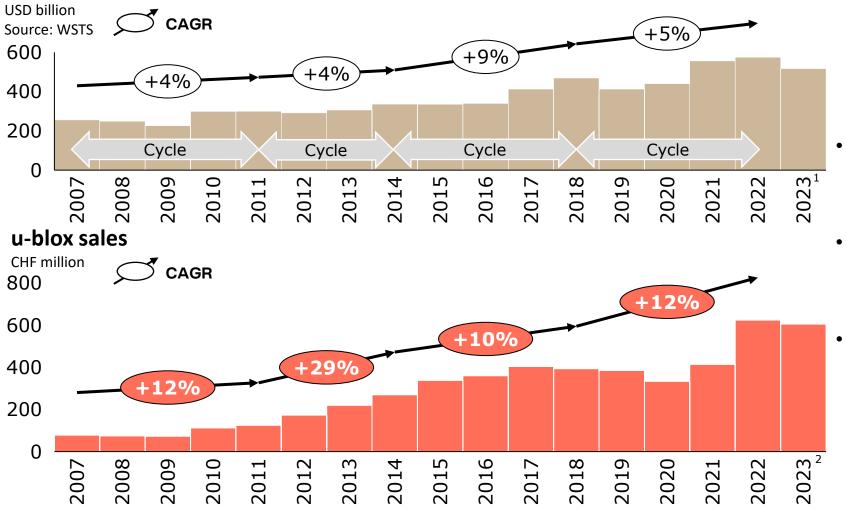




u-blox outperformed the semiconductor market growth rates consistently

Worldwide semiconductor sales

Ublox

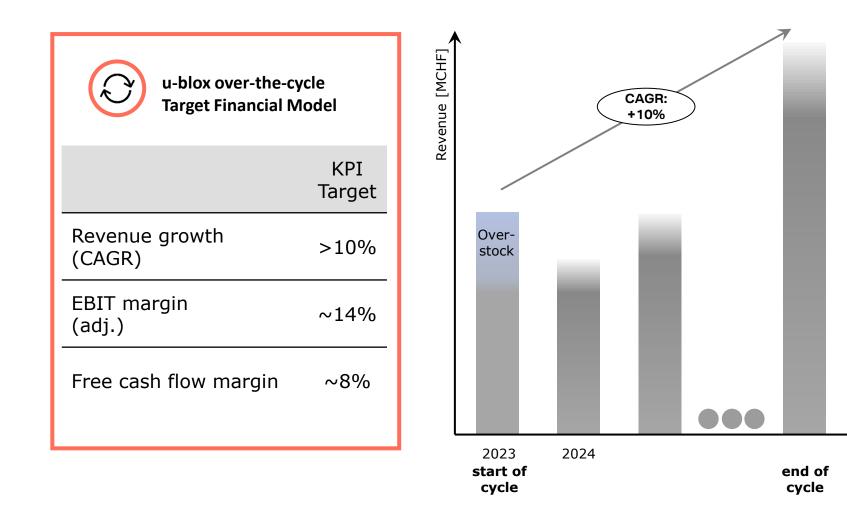


- u-blox's business is correlated with the semiconductor cycle
- u-blox outperformed the semiconductor market over every cycle
- A cycle could last 3-7 years

Notes:

 1 Source: World semiconductor trade association 2 Mid-point of guidance (CHF 585-625 million)

Target Financial Model reflects our long-term ambition 2024 to be a transition year



Revenue

- 2023 as base of new cycle
- 2023 includes deliveries higher than demand from customers, leading to overstocking
- 2024 to be a transition year before growth resumes

EBIT / FCF margin

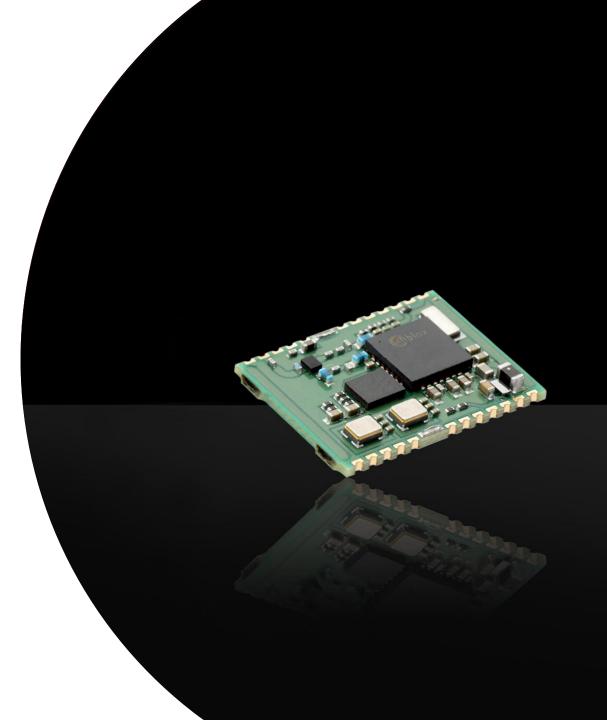
 Targets as average over the cycle

Illustrative, no guidance



Where we play How we win

Stephan Zizala

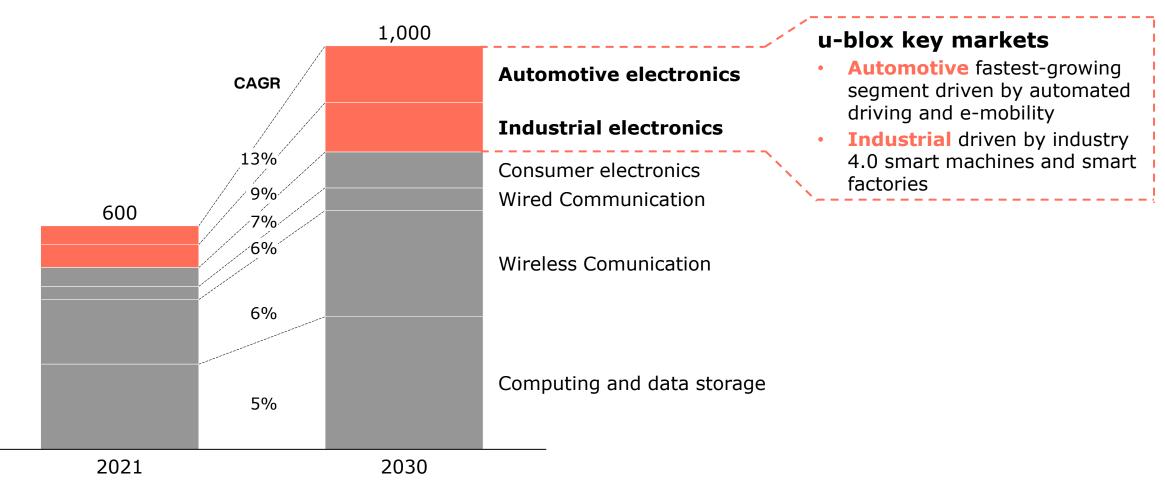




Semiconductor industry: USD 1 trillion by 2030 u-blox is active in high-growth markets

Global market value by vertical

Indicative (USD billion) Source: McKinsey

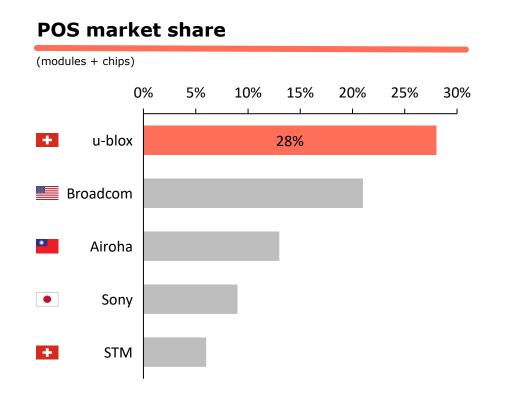


u-blox addresses about 40% of its TAM – a wide field to expand based on our core competencies

u-blox TAM and SAM 2022 (USD million)			SAM content			
SAM	non-SAM					
P POS	1,400			– Automotive, Standard Precision GNSS, High Precision GNSS, and Timing		
C CEL		8,400		– 2G, 3G, NB-IoT, Cat-M, Cat-1(bis), Cat-4, 5G (all markets ex-China)		
S SHO	4,400)		 Wi-Fi includes car infotainment, OEM Telematics Unit, Home Appliances BLE includes Healthcare Devices, LED Lighting, Home/Building Automation & Security 		
u-blox	43%	57%	14,200	POS PositioningCEL Cellular		
SAI Nor Sou	M = Total addressable ma M = Serviceable addressa n-SAM = TAM – SAM urce: u-blox, TSR, ABI, OMDIA re: TAM w/o mobile phones			S SHO Short-range		

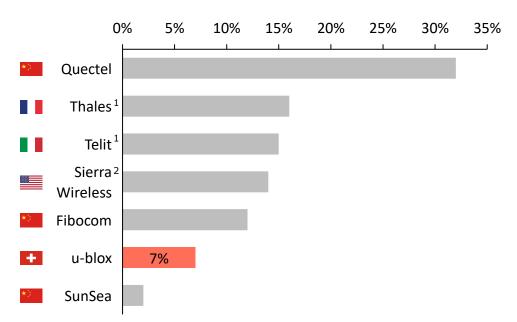


u-blox is the clear leader in POS and is well positioned for further market share gains in CEL



CEL market share

(modules)



Standalone GNSS chips/module market in 2022 (TAM): USD 1.4bn

Cellular module market outside China in 2022 (TAM³): USD 6.7bn; SAM: USD 3.1 bn

Notes:

- 1. Telit acquired the assets of Thales cellular IoT products in July 2022. The deal closed in January 2023. The new company is called Telit Cinterion.
- 2. Semtech acquired Sierra Wireless in August 2022. The deal closed in January 2023.
- Based on OMDIA and TSR market share data, China 2022 cellular module TAM is about \$1.7B Source: u-blox

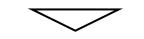
u-blox generates significant value with its core offering and will continue to improve value creation in other high growth areas



Locate

POS, SER	2022	Direction
Revenue	~350m	^
EBIT margin	>30%	→

- u-blox core strength
- · Almost 1bn devices in the field



Rock solid continuous growth

Notes: Revenue in CHF million; EBIT margin adjusted SER: Services



Connect

CEL, SHO	2022	Direction
Revenue	~275m	^
EBIT margin	<0%	^

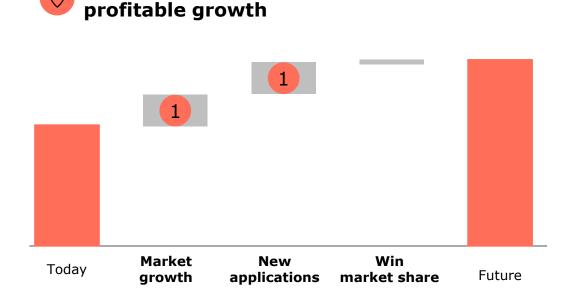
- Significant growth in the last 5 years
- 25m CEL, 45m SHO devices in the field



Transformation plan in place



u-blox will generate even more value with Positioning and has a unique growth opportunity in Connectivity

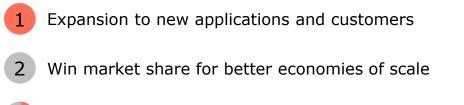


Strategy evolution

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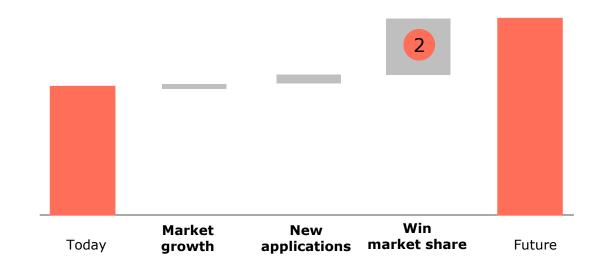
Locate:

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Shift chip development team from CEL to POS

Brow to profitability



Increased value creation

Locate – profitable growth Expansion into new applications and customers

- Targets
 - Secure continued profitable growth
 - Expand into new application and customer segments

Key measures

- Intensify R&D efforts for Positioning to accelerate product innovations
 - Executed: 60% of internal R&D staff dedicated for POS
 - Ongoing: further strengthening of POS
- Develop offering for new applications
- Use services as additional customer value creator





2 Connect – grow to profitability Win market share for better economies of scale

- Target
 - Accelerate winning market share
 - Gain economies of scale to improve margins

Key measures

- Win market share leveraging our trustworthiness as Swiss supplier in a multi-polar world
- Use scale to become the western cost leader
- Stop future cellular chip development
- Focus on differentiating innovations, e.g. cellular + satellite + positioning hybrid modules



3 Locate / Connect Shift teams to POS by stopping CEL chip development

Motivation

- R&D investment in own cellular Cat-M chips to close 3rd party portfolio gaps – this is not required any more today
- Today, new market requirements for Cat-1 bis and 5G would require even higher cellular chip R&D compared to past
- No significant benefit from own cellular chip development, but risks (impairment) and opportunity cost

Consequence

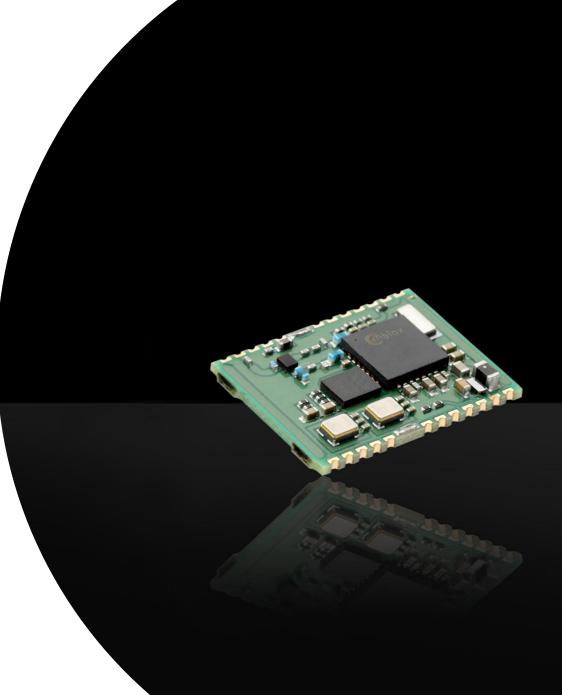
- u-blox stopped future cellular chip development
- u-blox focuses chip development on Positioning
- Reassessed business plans lead to a non-cash impairment charge

- Reduced R&D spending for CEL
- Immediate access to an experienced team accelerating POS chip development
- u-blox can deepen relationships with cellular chips suppliers, as there is no longer a competitive situation
- Significantly reduced future impairment risks as remaining capitalized R&D is mainly for rock solid Positioning business



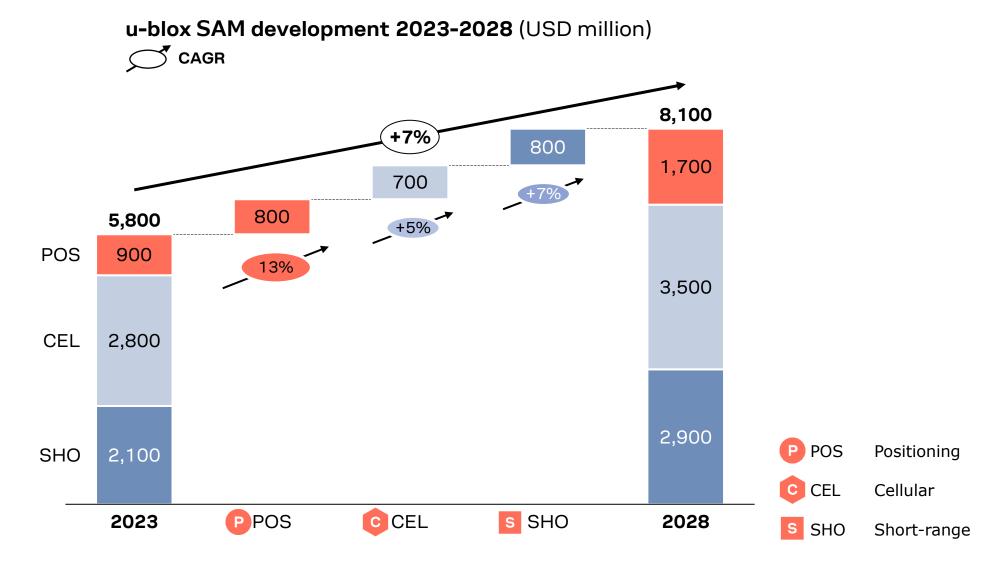
Product Lines

Andreas Thiel





u-blox SAM grows in line with the semiconductor market, highest market growth in POS

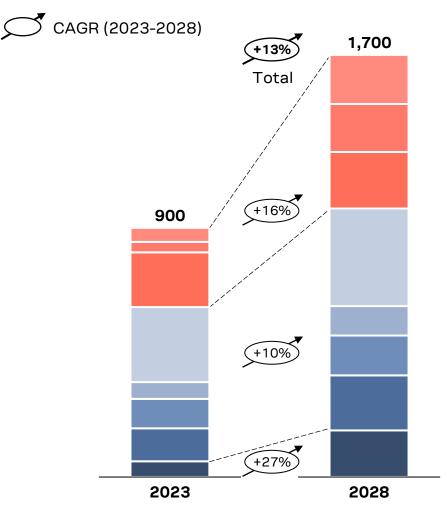


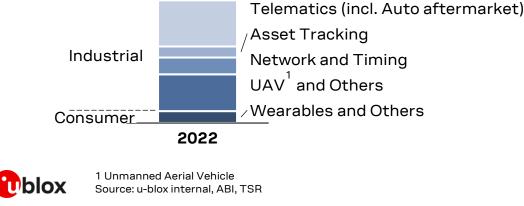


POS is very strong in automotive applications – a long-term growth market due to autonomous driving

u-blox POS revenue 2022 (CHF million)

u-blox POS SAM development 2023-2028 (USD million)





Automotive

349

Autonomous Driving

Infotainment and Navigation

Telematics (Automotive)

We have significant innovation in the pipeline to expand our leadership in POS

Today's success factors

- Attractive combination for the mass market
 - Accuracy
 - Time to first fix
 - Power consumption
- Sensor fusion
- Quality

Ublox

- Reliability: Performance in challenging environments
- Ease of use: "It just works"

Upcoming success factors

- Even higher accuracy
- Integrity: "How dependable is the position?"
- Functional safety certifications for automated driving
- New satellite systems, e.g. Low Earth Orbit (LEO)
- Advanced sensor fusion

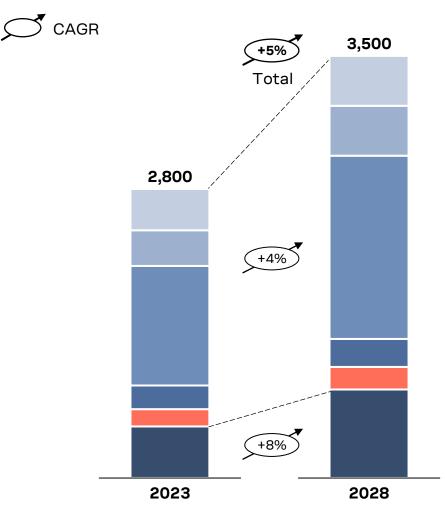


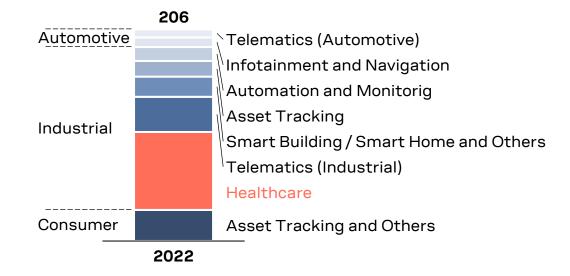


CEL's significant success in healthcare sets the base to [©]CEL gain share in other industrial segments

u-blox CEL revenue 2022 (CHF million)

u-blox CEL SAM development 2023-2028 (USD million)





u-blox is the trustworthy cellular module provider with market shaping capabilities

CEL

Today's success factors

Upcoming success factors

- 1st in the market with dedicated IoT modules
- Customer centric product definition
- Quality
- Reliable management of a complex supply chain
- Ease of use: "It just works"

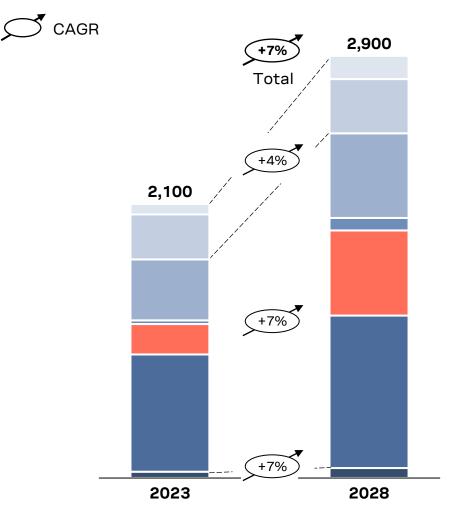
- Trustworthy Swiss supplier in a multi-polar world
- Faster time to market supporting new cellular standards and satellite communications
- Pre-integrated with cloud services

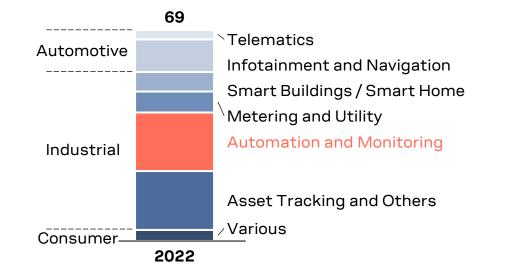


SHO's success in automation and monitoring sets the base for further market penetration

u-blox SHO revenue 2022 (CHF million)

u-blox SHO SAM development 2023-2028 (USD million)







SHO

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u-blox can shape the market with indoor positioning as trustworthy Swiss supplier

Today's success factors

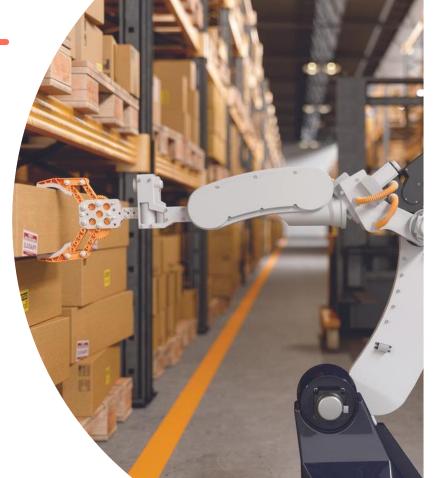
Upcoming success factors

- Diversified portfolio
- Relationship management to chip suppliers
- Distribution channel management
- Quality

Ublox

• Ease of use: "It just works"

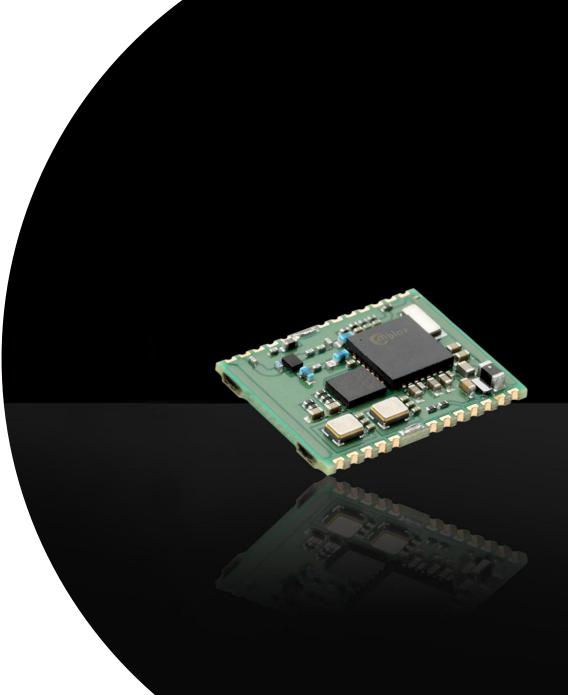
- Trustworthy Swiss supplier in a multi-polar world
- Indoor positioning
- Hybrid solutions combining cellular, shortrange and positioning, e.g., for asset tracking in every location
- Edge computing





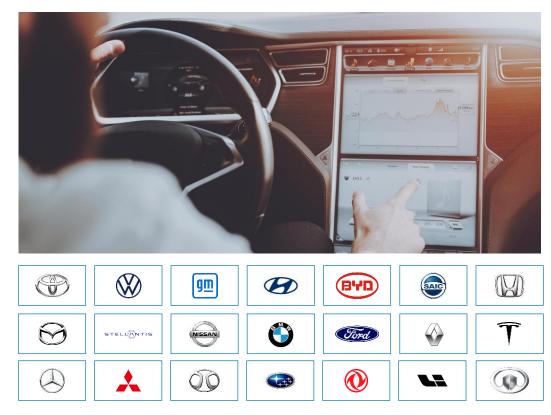
Go-to-market

Markus Schäfer





u-blox is successful at its target customers and won business with CHF 1bn lifetime value ramping in 2024+



- 18 of top 20 car makers use u-blox GNSS
- Successful in automated driving in Americas, APAC, Europe
- Successful at traditional and new auto players





- Successful at classic industrial players and innovative startups globally
- Very successful in healthcare applications
- Encouraging long-tail demand creation via distribution



u-blox products are used in a broad range of applications we put special focus on 4 for our future growth

Asset tracking

and monitoring

and time sync

Payments

Gateways

and routers

and vending

Healthcare

and management

Industrial automation

Metering and utility

Network infrastructure

Automated driving



Advanced telematics (first mount)

Infotainment and navigation

OEM telematics (first mount)



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Vehicle monitoring and control

Aftermarket telematics

EV charging

Automotive

Industrial

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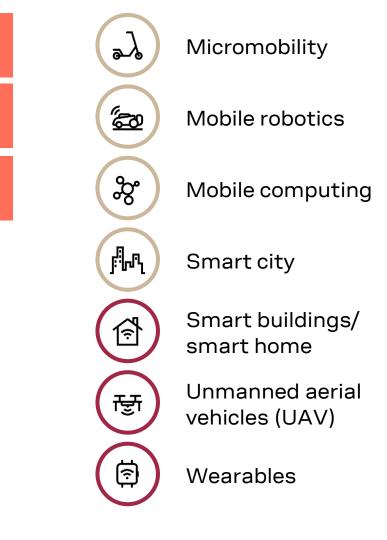
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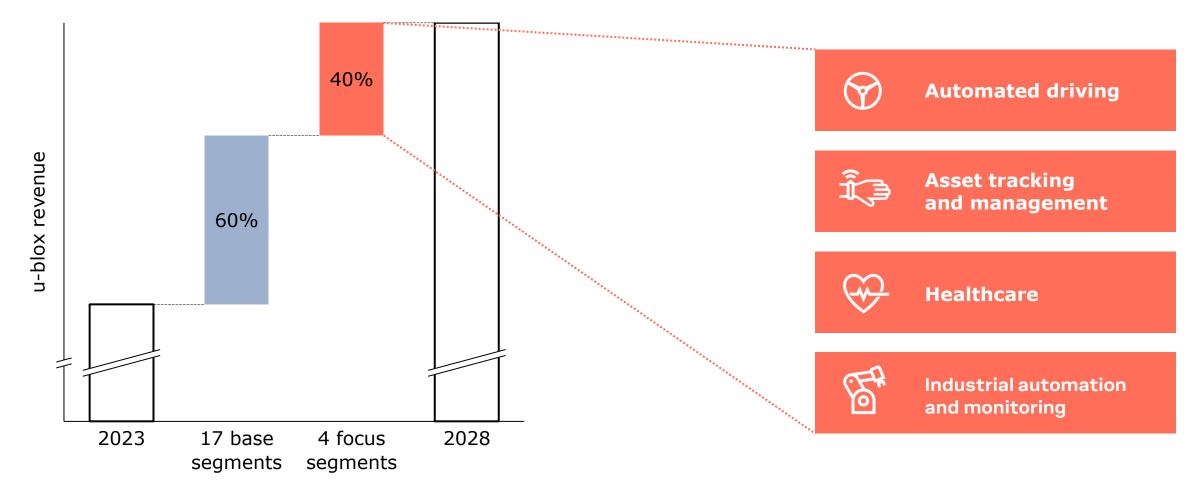


Focus segments



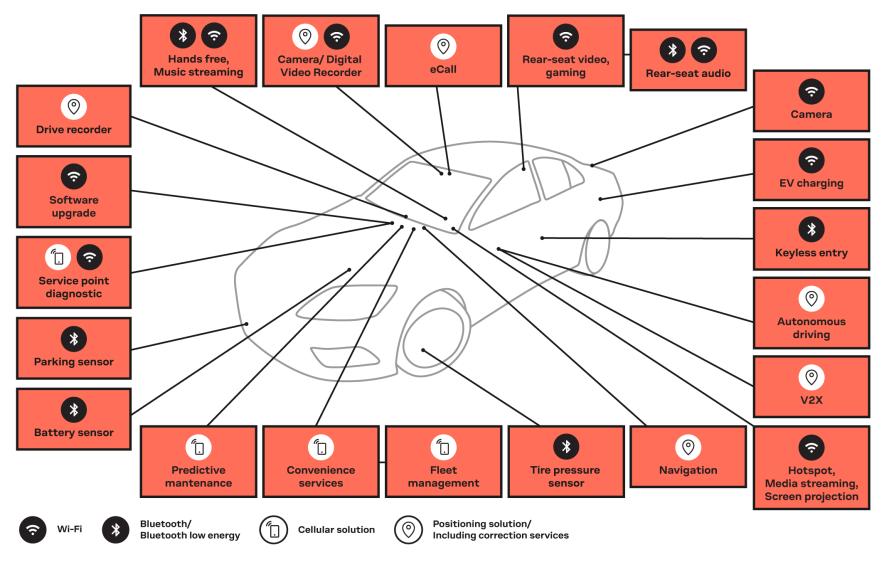


Focus: 4 of 21 market segments to contribute 40% to our future growth





Our products address key innovations in the car of the future with substantial growth opportunities



ublox

Growth and value drivers

- Automated Driving
 - Increasing demand of high precision accuracy
 - Safe GNSS and Services requirements
- Advanced telematics
 - Increasing attach rate of standalone GNSS
 - Migration to multiband GNSS
- Infotainment and navigation
 - High market share today with GNSS
 - Differentiated Wi-Fi/BT offering for next generation platforms

Asset tracking, healthcare and industrial automation offer significant growth potential

Healthcare

Asset tracking and management



Container and Trailer Tracking



Livestock Tracking



Pet Tracking



Remote Patient Monitoring



Assisted Living

Industrial automation and monitoring



Predictive Maintenance





Safe connected worker PCS

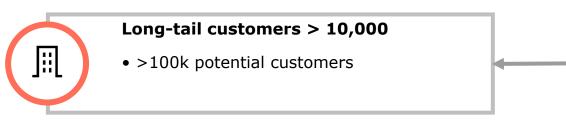


We strengthen direct sales for our top 200 accounts and lever the power of partners for the mass market





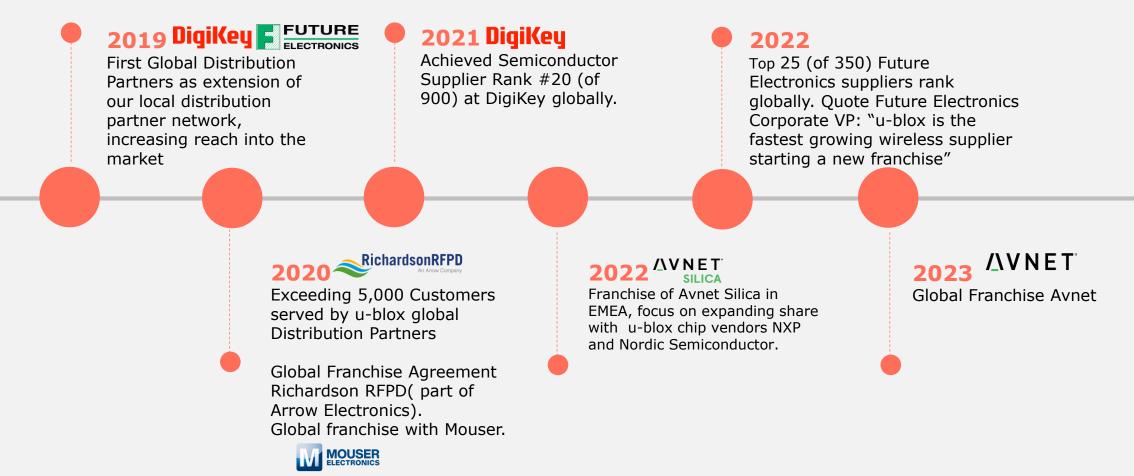




Distribution partners



Execute: u-blox successfully teamed up with leading distribution partners to accelerate future growth



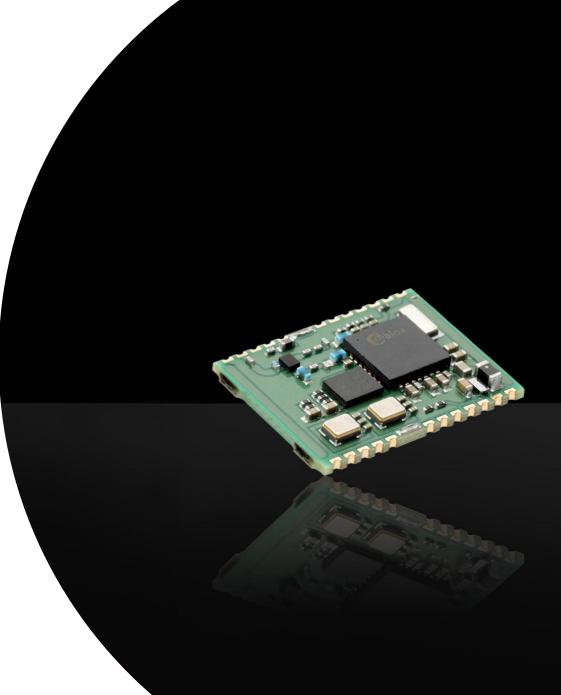
We defined four Go-to-Market initiatives for our future success

- Increase focus on our strategic customers to maximize our share of wallet and execute on the project funnel that they awarded to us
- Develop new customers and new business with customers leading in our focus markets
- Leverage the power of leading distribution partners in order to
 - Increase further our number of customers
 - Increase the service level for our long tail customers and
 - Enable our direct sales team to focus on direct accounts
- Make it easy for our customers working with us leveraging solution capabilities of our distributors and design partners



Operational excellence

Stephan Zizala





Operational excellence will elevate our competitiveness



Effectiveness

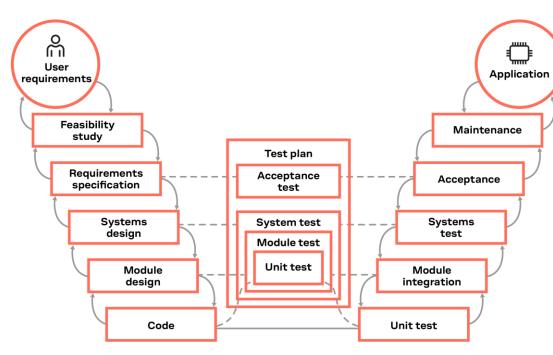
- Improve R&D output with agile methods
- Implement an integrated company-wide ERP system, replacing the current multiple systems in place
- Improve focus on profitability to effectively steer the organization

Efficiency

- Improve procurement performance (MCHF > 300 sourcing volume in 2022) by a restructured team
- Improve product cost, especially for cellular, by establishing a design-to-cost toolset
- Improve net working capital management
- Leverage global site footprint to optimize cost



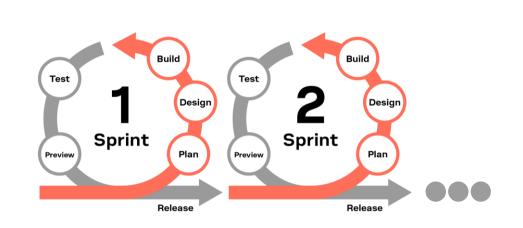
u-blox is on an agile transformation to gain speed, achieve a better market fit and reduce risk



- Sequential, rigid, documentation heavy
- Long planning phases

blox

- Customer feedback for the final product
- ➔ Perfect plan execution for known tasks

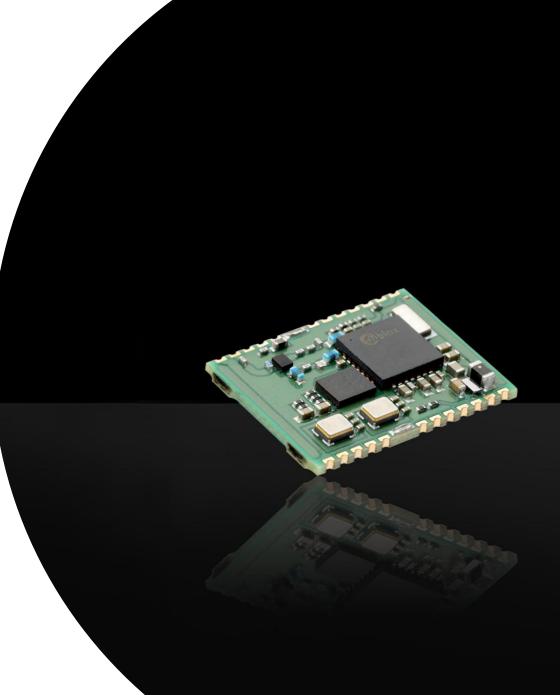


- Iterative, adaptive, collaborative
- Fast cycles
- Customer feedback after each phase
- ➔ Faster time-to-market and risk reduction for innovation in dynamic markets



Financials / Capital Market

Roland Jud





Discontinuation of cellular own chip development leads to CHF 65-70 million impairment

Intangible Assets - Capitalized R&D

CHF million, as of 30.9.2023

	201		
Cellular	46%	 Part of R&D efforts are capitalized in the Balance Sheet as Intangible Assets Own cellular chip development did not provide the anticipated economic benefit u-blox expects an impairment charge of CHF 65-70 million in FY 2023 	138 22%
Positioning	47%	 Post-impairment, intangibles mostly related to rock-solid Positioning business R&D capitalization rate will be reduced over time due to changed project structure 	69%
Others	6%		9%
Pr Oblox	u-blox Holding AG		

Focus on working capital management to reduce NWC as percentage of revenue to <20% over the cycle

Situation

- From 2018 to 2021, working capital components improved gradually
- Deterioration in 2022 and 2023 to enable significant growth

Goal of reducing working capital as a percentage of revenue to <20%

Future

- Review payment conditions
- Better inventory management through better forecasting
- Improvements expected throughout 2024

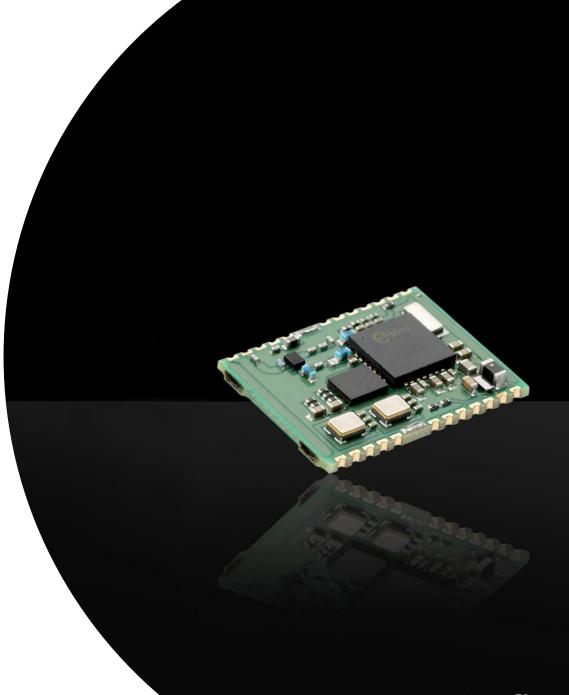
Enhanced transparency through more regular reporting, short-term guidance and long-term Target Financial Model

Reporting				Guidance / Target Financial Model			
FY results	 Full results 	6/Mar		Quarterly Guidance		Revenue EBIT adj	
Q1 trading update	 Revenue EBIT adj	24/Apr	-				
HY results	• Full results	7/Aug	-	Target Financial Model	•	Revenue growth EBIT adj FCF margin	
Q3 trading update	 Revenue EBIT adj	23/Oct	-			. c. margin	

Existing New

Summary

Stephan Zizala





Summary: Focus – Innovate – Execute Positioning innovation and Connectivity economies of scale

Key long-term growth drivers

- Strong structural growth: automated driving, asset tracking and management, industrial automation and monitoring (digitalization), remote healthcare
- Trustworthy partner with a reliable supply chain

Strategy

- 1) Increase focus on highly differentiated Positioning business and substantially shift R&D teams to Positioning innovations
- Turn-around the Connectivity business by stopping cellular chip development and by gaining scale, leveraging our trustworthiness as Swiss supplier in a multi-polar world
- 3) Improve execution performance by agile development and increased bottom line focus

Target Financial Model



Over the cycle

- >10% revenue growth (CAGR)
- ~14% EBIT margin (adj.)
- ~8% Free cash flow margin

Notes:

- Basis for next cycle: 2023
- Target margins as average for cycle
- Target Financial Model replaces mid-20's ambitions



Our Vision

The future with us is precise, smart, and sustainable.



u-blox investment thesis

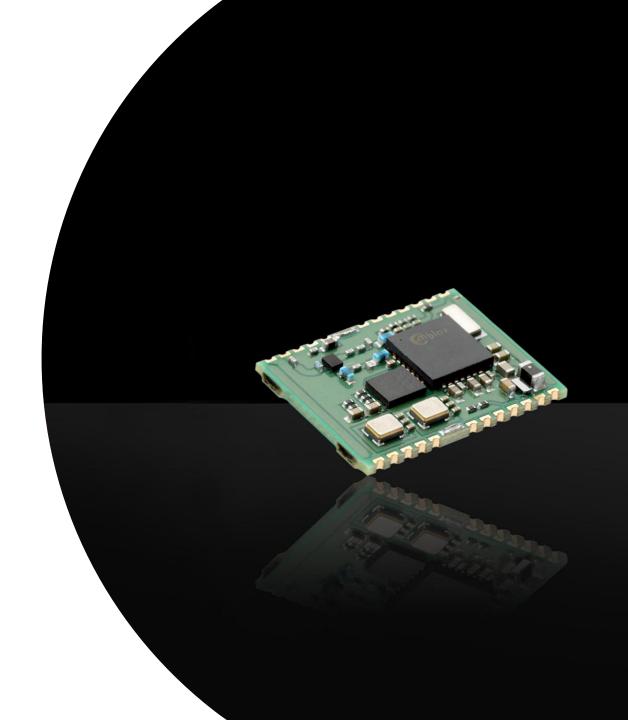


Strong in structural growth markets

Undisputed market leader in Positioning based on unique IP Sustainable value creation



Q&A





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Thank you for your attention