Analyst meeting

November 15th 2023 - Kortrijk



Agenda

- 1. Welcome and coffee
- 2. Deep-dive ClickShare with visit ClickShare Experience Centre
- 3. Lunch meeting with An Steegen, Charles Beauduin and Ann Desender

BARCO

- Presentation innovation and Q&A
- Deep-dive operations and focused factories
- 4. Barco Labs with live demos on innovations and product launches

Meeting Experience Stijn Henderickx and Jan van Houtte

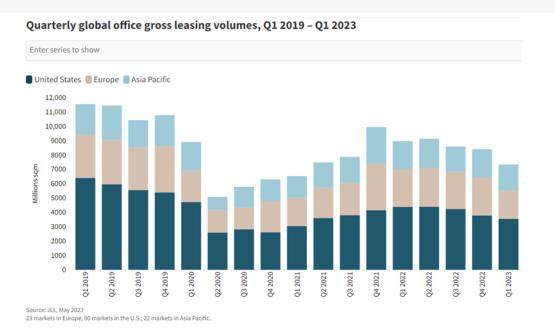
Analyst Day – Kortrijk – November 15th 2023



Mid to long-term prospects are positive for meeting room related technology

Reduced office space

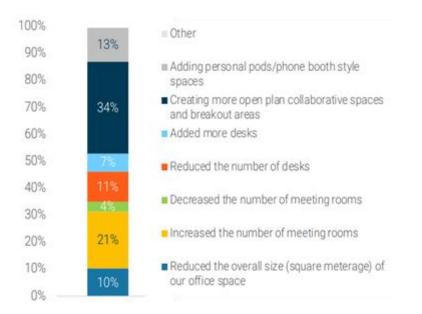
Declining leasing volumes and increasing vacancy rates now **hybrid work** has finally settled



Source: JLL May 2023

Increased focus on meeting rooms

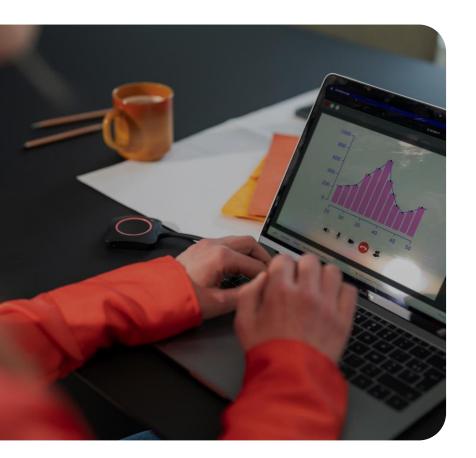
Collaborative work with colleagues as key driver for "return to the office" requiring higher investment in collaboration technology and more flexibility



Source: Futuresource May 2023



... but with short-term market softness



Micro economic challenges

- Companies' IT budgets and COVID-time investment being under additional scrutiny
- Investment cycles became longer – cost of cash
- Return to office challenges
 and uncertainty

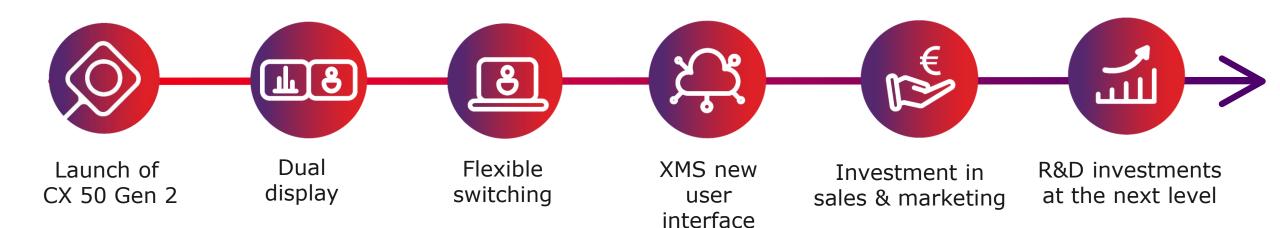
Macro economic factors

JU'

- High inflation
- High interest rates
- Political uncertainty



In 2023 we have further expanded our lead and strengthened our position



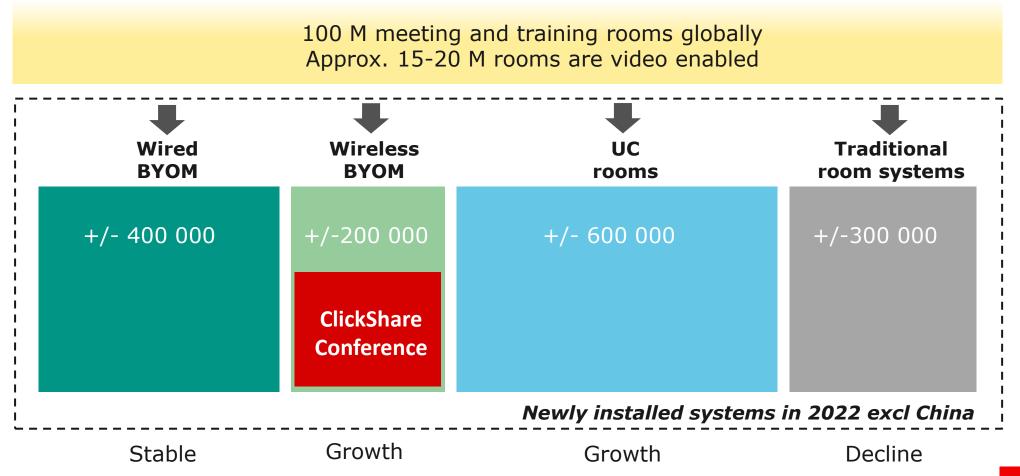


Barco is winning share in the agnostic market





Our perspective on the videconferencing enablement market



Improving our position with wireless BYOM

We bring ClickShare to the next level







Product & Technology

- Unique innovations and new features (e.g. Meeting room equit, LTS,...)
- Continuous improvement of customer experience (e.g. App score)
- New form factors

All based upon deep technological insights, market understanding, customer and partner feedback.

Marketing

- Updated differentating brand positioning
- Increase awareness of the ClickShare offering
- Focus on IT manager

Service

- Direct Barco end customer support
- New in-house team as of January



Protecting and monetizing our IP with assertive follow-up in the market



Sep 10, 2023

Barco and Crestron announce patent license agreement regarding a set of essential ClickShare patents

Kortrijk, Belgium and Rockleigh, New Jersey, September 12, 2023 – Barco and Crestron Electronics, Inc., both global leaders in workplace technology, have entered into a global patent license agreement earlier this year. This enables Crestron to utilize some of Barco's ClickShare patents for Crestron's own collaboration solutions, including AirMedia® wireless conferencing and presentation systems. The agreement will further spur growth of solutions for the BYOM market with the development of additional presentation and conferencing solutions.

In today's working environment, 60% of workers still face technical challenges when they're joining a hybrid meeting. The Bring Your Own Meeting (BYOM) concept enables users to host calls from their own laptop with their preferred conferencing solution, using the audio and video equipment in the meeting room. Because of the growing interest in hybrid meetings, Barco and Crestron expect the market for wireless conferencing systems to accelerate significantly over the corning years.

Barco has been leading the BYOM market, with innovations covered by patented inventions. The company will continue to develop collaboration technologies that put the user at the heart of the experience. Moreover, the agreement between Barco and Crestron aims to further spur the growth of the BYOM market, with each company investing in technology that enables collaboration with a simple experience for employees.

"Our customers expect fully integrated solutions that make workplace collaboration simple. With this agreement we will bring robust wireless conferencing based on Barco's ClickShare intellectual property to our popular digital workplace technologies to meet the growing demand for BYOM solutions," said Andrew Ludke, Senior Director, Product Management at Crestron.

"Intellectual property is at the heart of technological innovation, so it must be embraced and safeguarded," said Stijn Henderickx, EVP Meeting & Learning Experience at Barco. "This agreement between Barco and Crestron demonstrates that mutual beneficial solutions can bolster development and innovation in the market, while recognizing the value of patents and intellectual property."

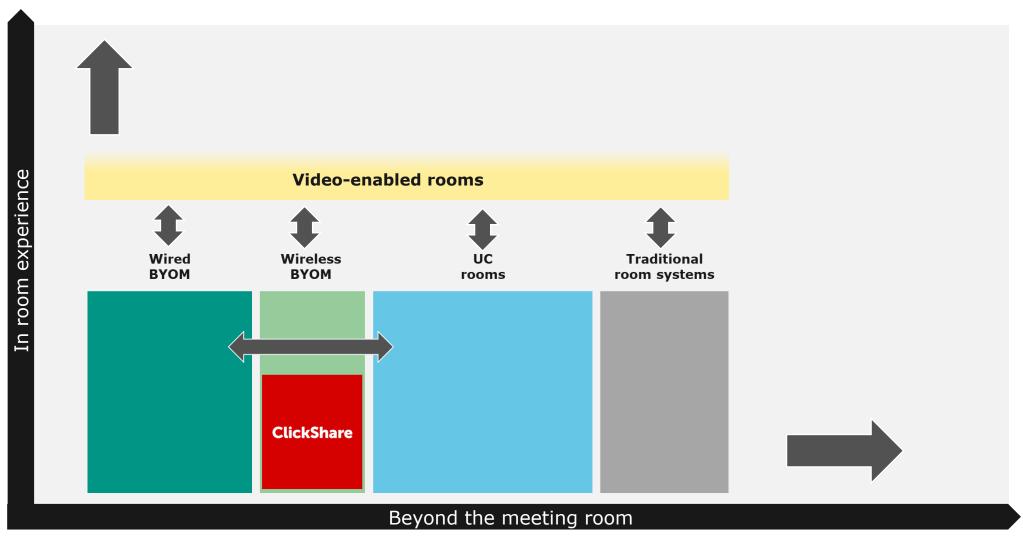
Innovation is an essential part of Barco's DNA. In particular to ClickShare, Barco has obtained more than 50 patents in major jurisdictions like EU, US and China. The patents cover a broad range of innovative wireless presentation and conferencing features, underlining ClickShare's simplicity and ease of use. Barco continues to closely monitor the wireless presentation and conferencing market. The company has built a strong track record in enforcing its intellectual property rights against companies copying ClickShare's unique features.

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BARCO

Moving outside wireless Byom

Extending our role within the video conferencing enablement market and growing along two axes



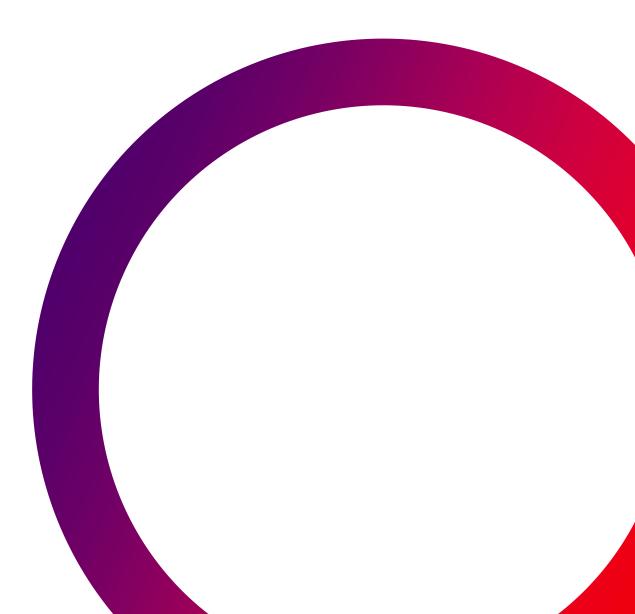
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Strong confidence in the future

Improving our position within wireless BYOM



Thank you!



Innovate for impact

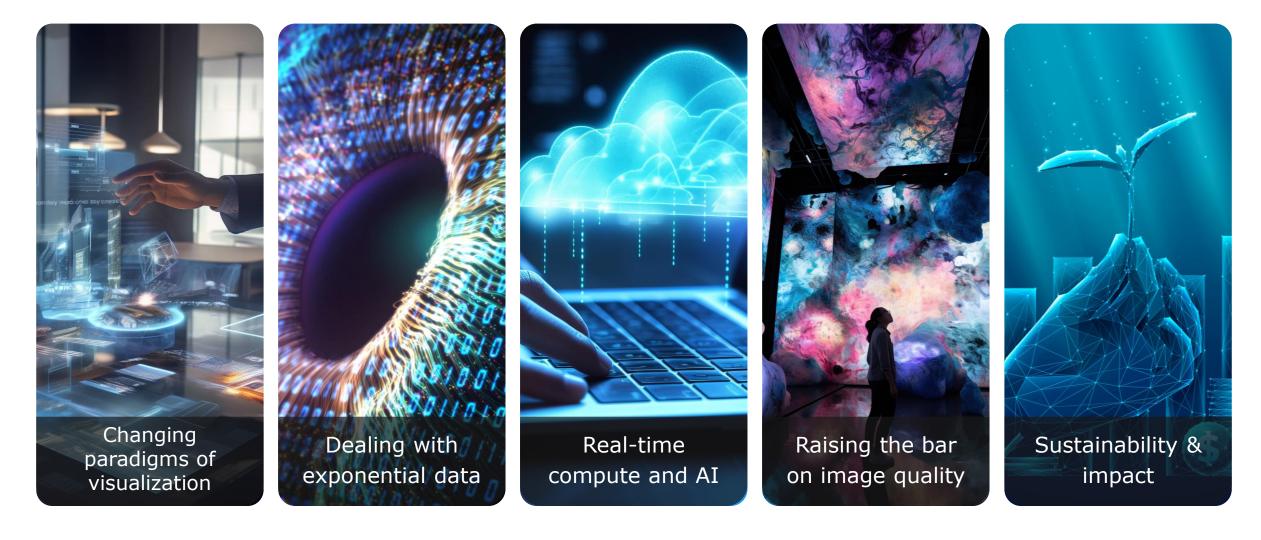
Overarching technology themes behind Barco's innovation strategy

An Steegen

November 15th 2023 - Kortrijk



Technology themes that connect and inspire us







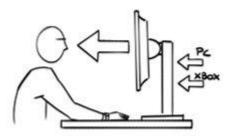
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1. Changing paradigms of visualization

From passive to ubiquitous visualization

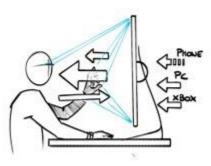
Static Era "Passive visualization" **Interactive Era** "Dynamic visualization" **Ubiquitous Era**

"Seamless visualization"



One-directional visualization

Visualization acts as the peripheral only



Bi-directional visual experience

The user, the content & the visualization device all interact with each other dynamically

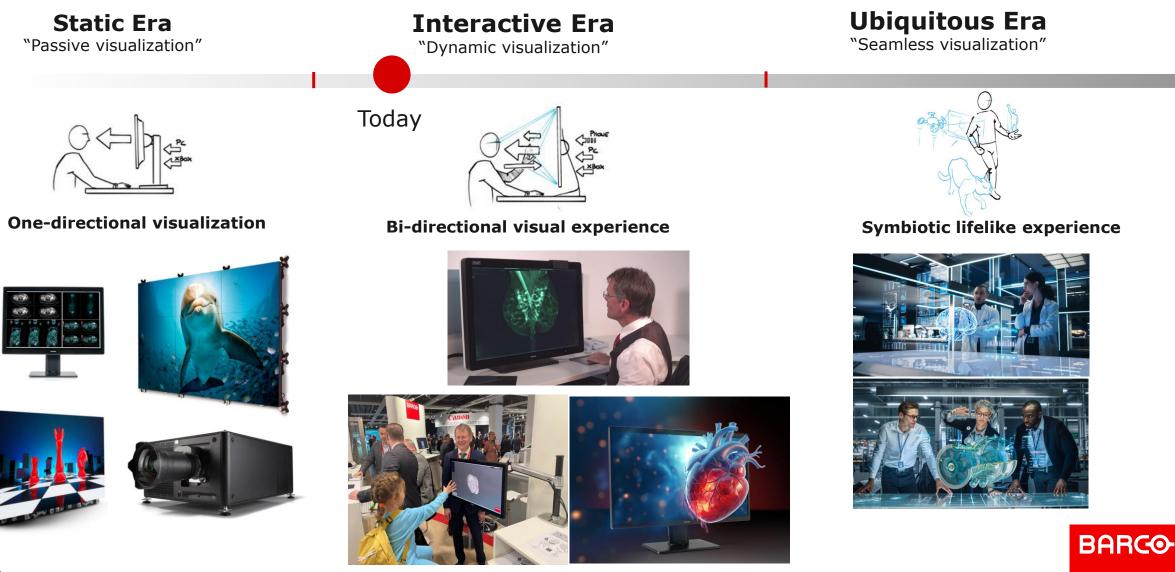


Symbiotic lifelike experience

Visuals merge seamlessly with the real world. Any content, anywhere



From passive to ubiquitous visualization



2. Dealing with exponential data

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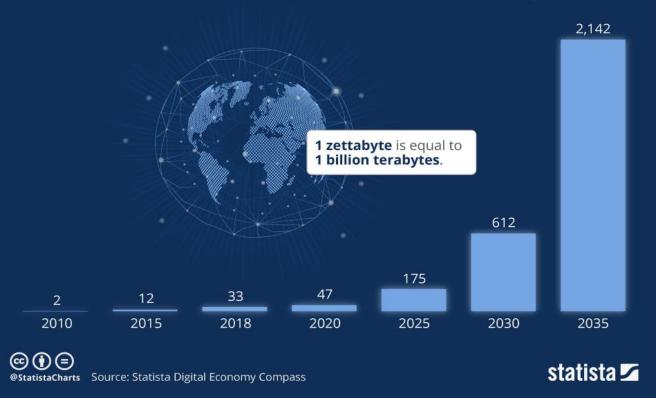
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Global Data Creation is About to Explode

Actual and forecast amount of data created worldwide 2010-2035 (in zettabytes)

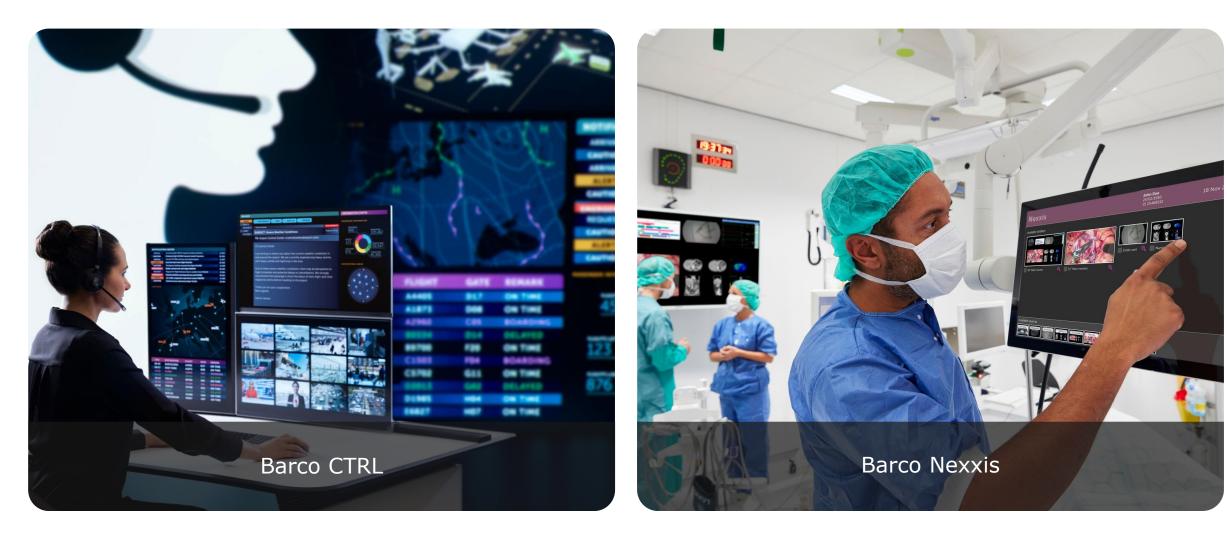


Visualization takes the lead

- Data is growing exponentially
- The best way to obtain insights is through smart visualization
- Visualization is not an interface anymore but becomes <u>THE</u> platform for meaningful insights

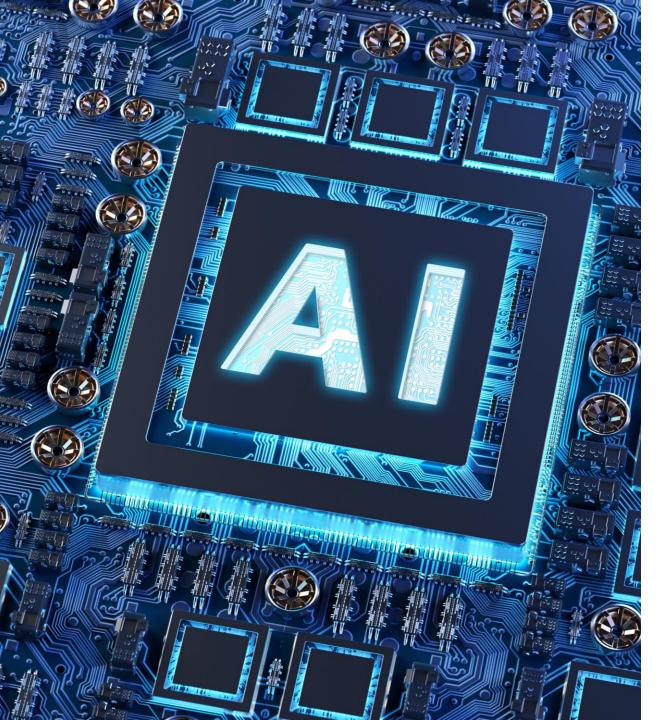
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Data-driven Barco innovations





3. Real-time compute and AI

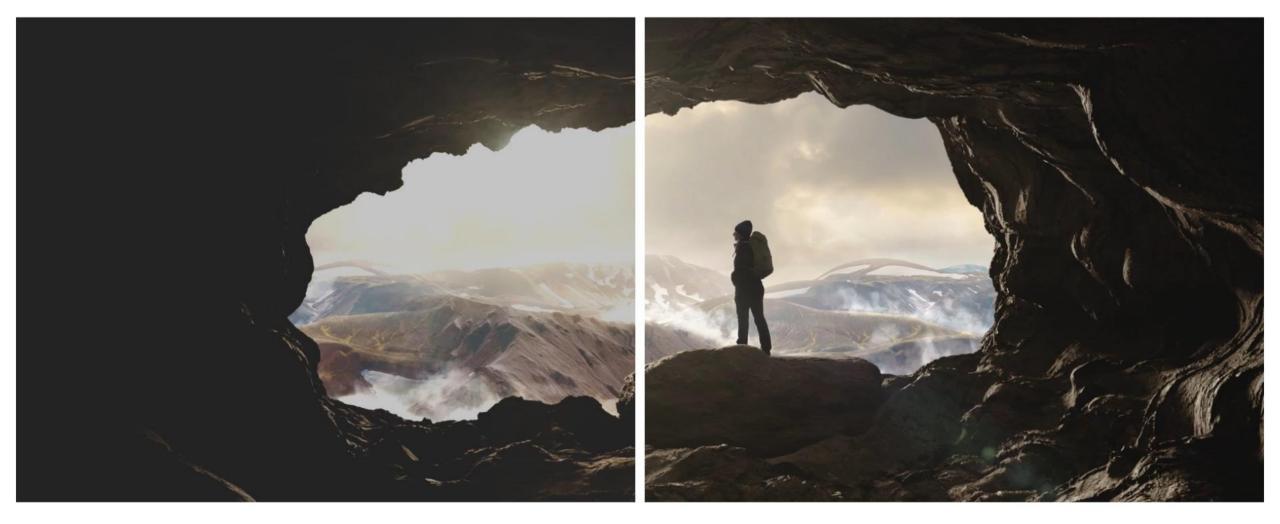


GPUs satisfy the needs of both advanced AI algorithms & real-time compute requirements of our applications

- GPU&CPU based platforms along with game engines (like Unreal) are starting to gain significant momentum in the AV industry
- Connectivity, Compute & Image processing are all converging to such new platforms
- At the same time, AI models for future workflows need the accelerated compute that GPUs can provide

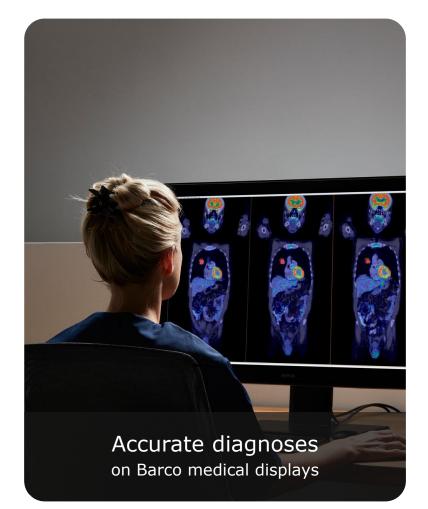
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Light Steering

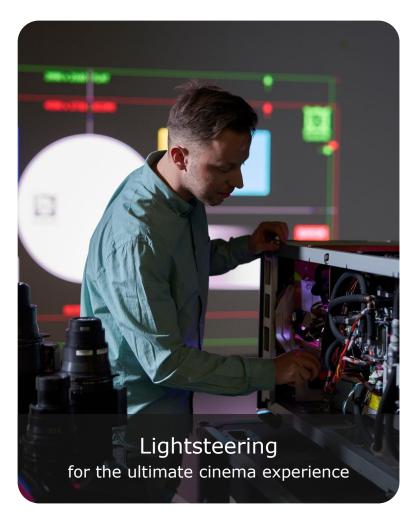


4. Raising the bar on image quality

The pursuit of high image quality remains key









5. Sustainability and impact



Innovation with the planet in mind

Energy performance

We design with a strong focus on energy efficiency

Use of materials

We choose recycled and durable materials

Packaging & logistics

- We use light packaging that can be fully recycled and re-used
- We maximize the use of sea shipment to limit our end-to-end logistic footprint

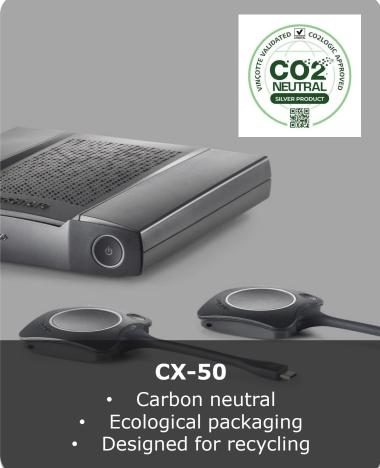
Lifecycle

We improve material efficiency and reduce the impact at end of life



Sustainable innovations



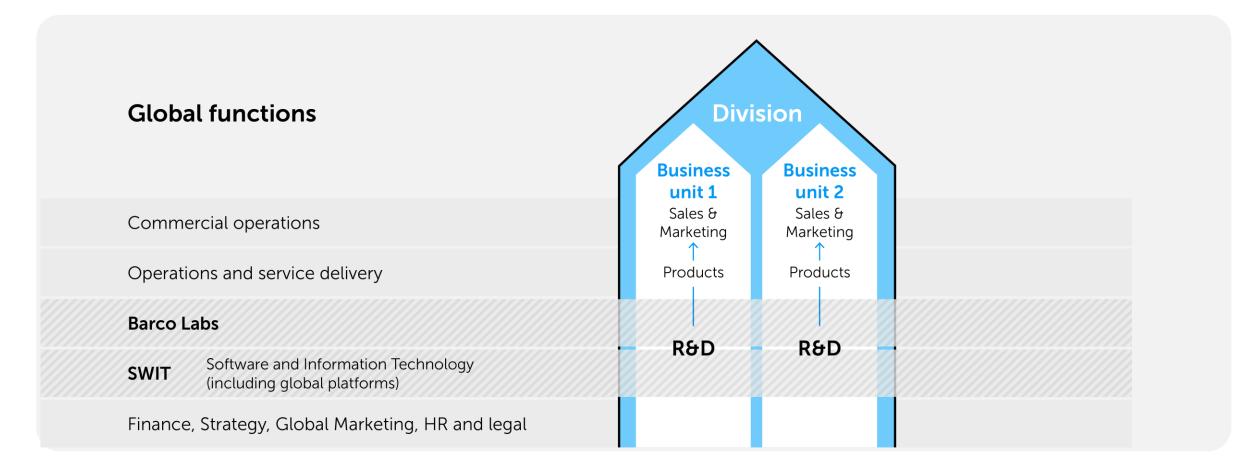




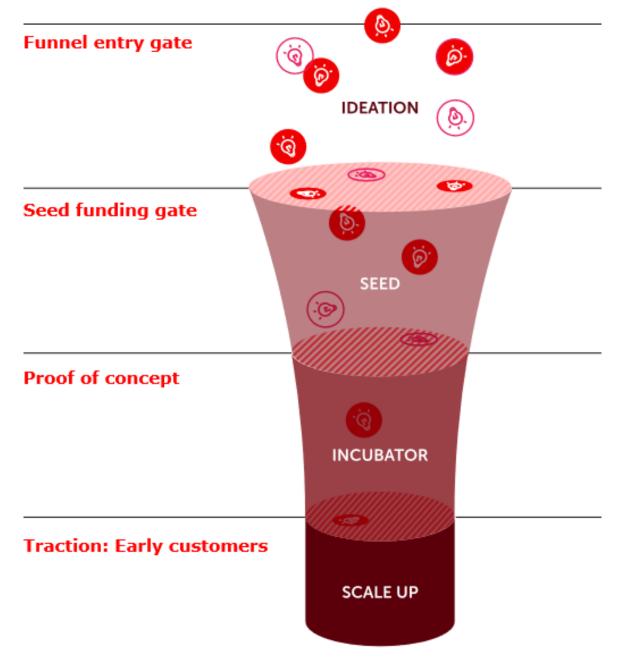


How does Barco execute on these technology themes?

Centralized Barco Labs at the core of disruptive innovation





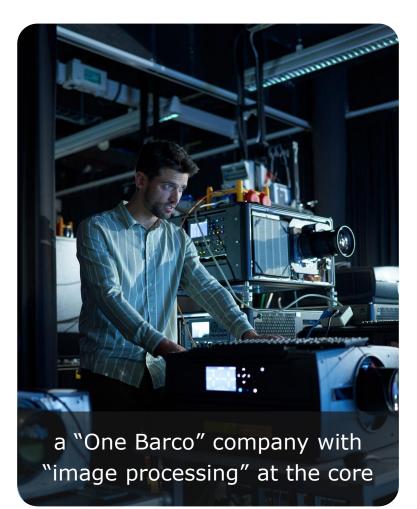


An innovation framework focused on technology themes

- Barco Labs works in tandem with all BU stakeholders in this internal corporate venturing framework to bring new disruptive ideas to market
- New disruptive ideas can be presented to the innovation board run by the Co-CEOs & CTO throughout the year
- Seed & Growth funding is provided during the funding rounds to selected proposals
- Successful projects are then transitioned to Business Units



In summary





cocreating solutions that set the standard



together with our partners and customers



Manufacturing sure leg

Transitioning to Focused Factories

Analyst Day - November 2023 - Rob Jonckheere



Global Operations – overview

While building and ramping up new factories, overall supply is secured in a challenging market with high customer inventories



- Implementation of our **focused factories** is full execution
- Healthcare transfer to Suzhou and Saronno on track and Suzhou operating at high productivity
- Further investments in vertical integration & automation as well as insourcing of Image Processing Devices in Kortrijk
- Component **shortages disappeared** and **logistic costs normalized** (still higher than 2019)
- Sales linearity is lower than usual with higher inventories (internal and at customers)



Manufacturing footprint

Wuxi factory operational in 2024 – transfers to Suzhou complete by mid 2024

ChangPing, CN

Entertainment projectors and subassemblies (for the Barco/CFG JV)

WuXi, CN

Entertainment projector factory (under construction) – operational end 2023

Suzhou, CN

High volume Healthcare factory

Kortrijk, BE

Entertainment & Simulation projector factory

Mirror factory for Wuxi

Saronno, IT

High diversity Healthcare factory

Mirror factory for Suzhou

Noida, IN

Focused factory for Rear Projection Cubes and LCD solutions

Investing in focused factories



Recap CMD'22:

Barco is investing € ~100m over 2023-2025 to enhance its manufacturing capabilities

Current view on manufacturing CAPEX

- 2023 so far spent: 20M EUR
- Total forecast 2023->2025: ~80 M EUR



Manufacturing footprint

Focused factories to tailor and accelerate business unit specific solutions



Manufacturing operations

Deepening value chain position from assembly to manufacturing (automated manufacturing & integrated automated warehouses)

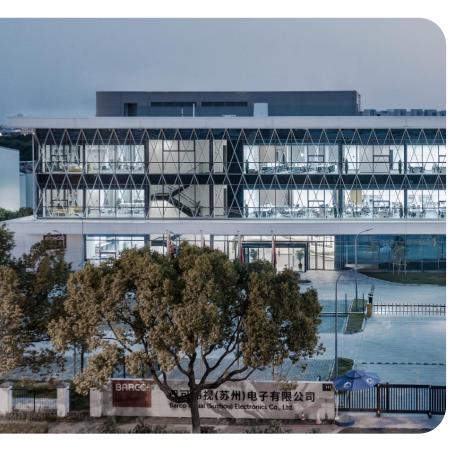


Driving **Operational Excellence**, **24/7 support and service digitization** (and advanced service business models)



Focused factories – Suzhou Healthcare

Suzhou factory meeting the targets in terms of output, cost and quality



Transition plan from Kortrijk and Saronno largely on track

• All products transitioned by end of 2023, Kortrijk to stop Healthcare production by end Q1 2024

Local sourcing

• Full focus on localization leading to component savings of 15-20%

Process & Product Quality

- Drive **Productivity** (OEE=Quality*Performance*Availability as quality standard)
- Targeting 80% OEE

Automation and vertical integration

- **Expanding the manufacturing lines** to their maximum capacity
- Glass bonding line to be installed by end Q4 2023



Focused factories – Saronno Healthcare

Moving to and integrated and automated warehouse next to enhanced production capabilities

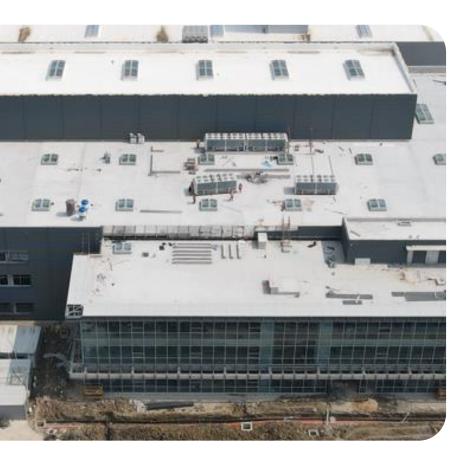


- Goal
 - Integrate the **Milan sales** office, the **external warehouse** and tailor the dimensions to the needs of a mirror fab/R&D site
 - Planning to start building by mid 2024 and move in by Q1 2026
- Status
 - Plans submitted to local authorities
 - Land registration Q1 2024 and build permit targeted Q2 2024



Focused factories – Wuxi Projection

Largely automated plant with integrated warehouse ready for Mid-Segment launch May 2024



- **Building of Wuxi site on track** with only a few weeks delay given heavy rain during summer period
- **ASRS** (Automated Storage & Retrieval System) **installed**, ready for test runs
- Plan to automate manufacturing of the projector line and subassemblies (lens holder, laser plate). Automated cooling assembly will be transferred from Changping.





Focused factories – Kortrijk Projection

Planning to revamp the Kortrijk factory and integrate the Kuurne warehouse by end 2027

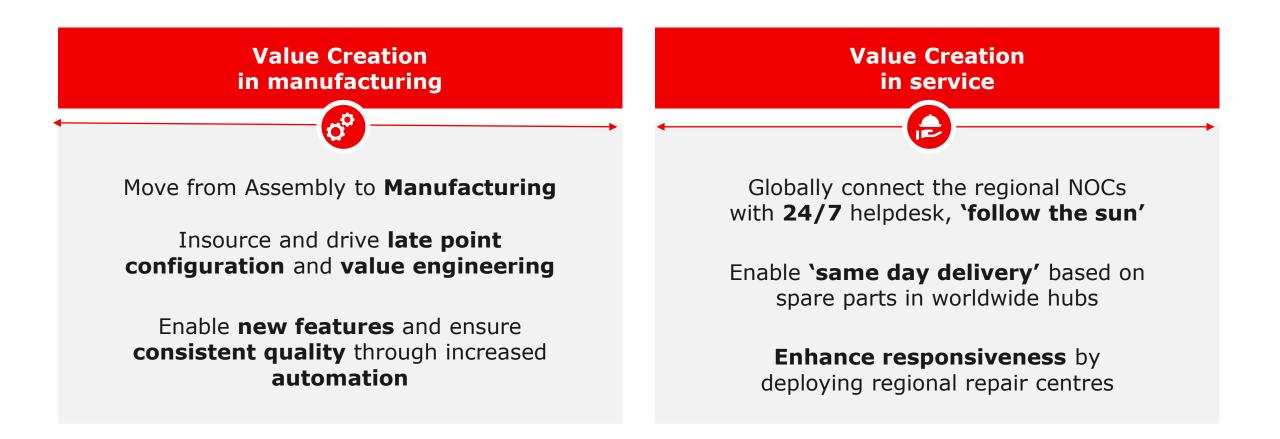


- Healthcare transition to Suzhou and Saronno on track
 - All product and repair activities to be transferred by end 2023.
- Insourcing of (sub)assemblies
 - **Image Processing insourced** with realized savings of 10-15%
 - Transfer Xcite on track and to be finalized by end 2023
 - Planning to **insource video controllers** by mid **2024**
- Automation plans and a new Manufacturing Execution System (MES) being studied to support an efficient production flow
- **`New' Kortrijk factory** and integration of the Kuurne warehouse are in concept phase



Value creation in Manufacturing & Services

Transitioning from assembly to manufacturing supported by automation



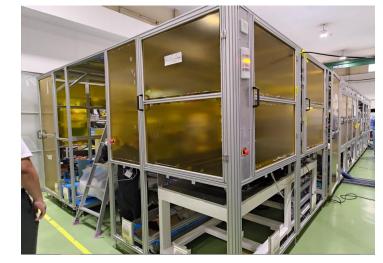
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Suzhou Healthcare – insourcing

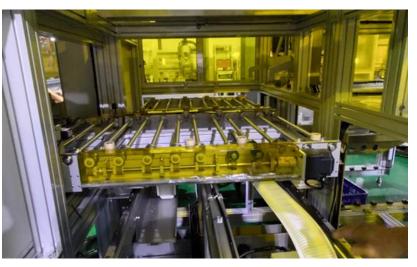
Fully automated bonding line supported by Automatic Optical Inspection of glass, LCD and assembly



Automatic Optical Inspection



Automatic bonding line



Automatic panel thickness measurement

- Investment allowing automatic optical bonding up till 33"
- Installation planned in November, first bonding planned in January 2024



Wuxi Projection – automation

Automations in warehousing, lens holders & laser plates and mid-segment projection

output

Automated HV testing



Automated Storage and Retrieval System with automated material flow within the factory and Software Warehouse Management System connected to the Barco systems



13

Sub assembly ³ manufacturing

Finished Goods sassembly manufacturing

Automated work cells for lens holder and laser plate manufacturing and testing

Dedicated assembly line to support **mid-segment projection**





input



Kortrijk Projection – automation

Investing in automated manufacturing of laser banks and laser drivers

- Fully automated line for Laser Drivers and Laser Banks
- In production since 2023





Conclusion

- Our **focused factories strategy** is in full execution with new 'highly automated and integrated' sites being built and transfer of products ongoing. Local component sourcing and efficient production are key.
- Our plan to move from pure 'low added value' assembly to manufacturing is gradually being implemented.
- Automation and subassembly insourcing will support Barco in driving quality, costs and will enable new features



Visioneefing a bright tomorrow



