

Alstom Investor Day

May 11th, 2022



Agenda

Introduction Henri Poupart-Lafarge, Chairman and Chief Executive Officer

Rolling Stock and Components

Danny Di Perna, Executive VP and Chief Operating Officer

Stabilise

Danny Di Perna, Executive VP and Chief Operating Officer

>> Integrate

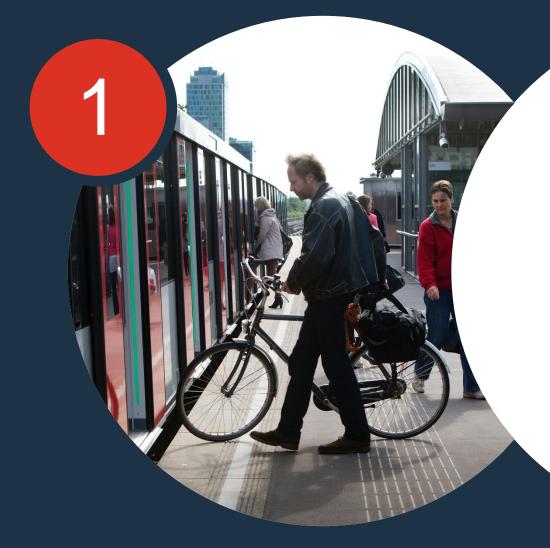
Benjamin Fitoussi, President Rolling Stock and Components – Development & Operations

>> Transform

Benjamin Fitoussi, President Rolling Stock and Components - Development & Operations

Questions & Answers

ALST



Introduction

Henri Poupart-Lafarge, Chairman and Chief Executive Officer



A successful first year integrating Bombardier Transportation, setting foundation for effective turnaround



Very robust commercial momentum and high customer satisfaction Backlog execution delivered as per target

One Alstom team: Global key processes and IT tools convergence on track

Integrated R&D plan for further competitiveness and innovation as a differentiator

Synergies delivered as planned in first year, run-rate better than expected

Integration acceleration, synergies on-track and confirmed financial trajectory



Net Promotor

Kev globa

validated

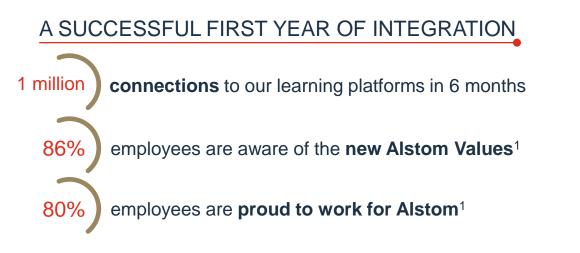
processes converge

Products convergence

Synergies delivered in 2021/2

Score

Our One Alstom team at the heart of our journey

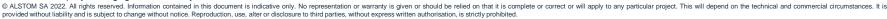


SOLID PEOPLE FOUNDATION AND A GREAT DYNAMIC

- An attractive employer, with 9,000 permanent new hires in 2021/22
- A learning organization grooming talents and reaching 4,500
 experts & +750 internal trainers







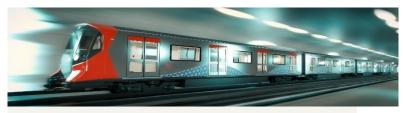


Services Our strong order booking demonstrates customer confidence

€4.2 BILLION OF SERVICES ORDERS BOOKED IN 2021/22



DALLAS (10 YEARS OPERATION & MAINTENANCE - US)



SANTIAGO M7 (20 YEARS FULL MAINTENANCE – Chile)







TRANSDEV (10 YEARS MAINTENANCE SUPPORT – France)



METROLINX (94 BiLevel OVERHAUL– Canada)

50+ Contracts 20+ years in length

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ILLUSTRATION OF LONG TERM PARTNERSHIP: METROREX (Romania)



Since 2004

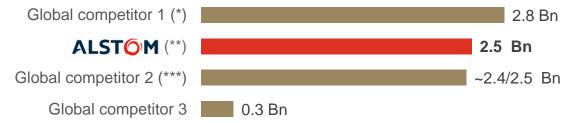
MAINTENANCE AND OVERHAUL

- Over 60 different types of refurbishment
- Increasing train availability from 56% to 99.96%
- Contract renewed in 2022
- 15 YEARS FULL MAINTENANCE AND OVERHAUL
- 82 Metro trains
- 8.5 million km per year in average

Signalling Progressing well, in line with our ambition

#2 IN A MARKET UNDER CONSOLIDATION

In € - Sales linked to all Signalling activities (estimated)



Accessible UNIFE market for European Companies (70% of total market, excluding Russia, China) (*) Proforma figure based on Alstom estimation and FY 2021 results for Global competitor 1 (subject to EU approval and pending closing of M&A transaction) (**) including Signalling activities into Systems (***) Alstom estimation

CONVERGING PRODUCTS AND SOLUTIONS CONVERGENCE

STRONG COMMERCIAL ACHIEVEMENTS IN 2021/22

- Mainline: Cambridge (UK), Bursa– Yenisehir– Osmaneli (Turkey), Stuttgart (Germany)
- Supporting new products for Urban CBTC: Urbalis Fluence* introduced through Grand-Paris L18 (France) & Torino L1 (Italy)
- Captured long-term service contract: BHP Billiton (Australia)

* Urbalis Fluence, train-to-train communication based control system, world-first implementation for Métropole Européenne de Lille



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Turnkey Sustain our leadership and deliver strong results

STRONG MARKET DRIVERS



Strong underlying urban railway transportation market



- Increasing complexity of railway solutions
- New turnkey projects in some emerging countries

ALSTOM'S KEY ASSETS

- Metro Turnkey leader for several years
- **Proven track record** in system integration and optimization activities
- Largest portfolio of solutions on the market
- Bundling with long-term service contracts
- Established local partners network (e.g. Tren Maya & Tel Aviv tram)



STRONG ACHIEVEMENTS IN 2021/22

- Strong commercial performance with record order intake and 100% hit rate
- Back on the tram Turnkey market preferred bidder of Tel Aviv Green Line
- Automated People Mover brownfield solid commercial performance (Miami, Tampa, Atlanta)







Rolling Stock and Components

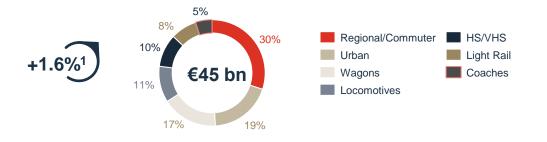
Danny Di Perna Executive VP and Chief Operating Officer



Alstom is the market leader in Rolling Stock & Components

RSC IS A LARGE AND STEADY MARKET

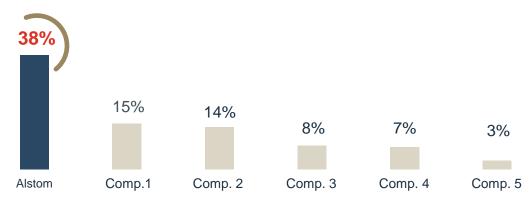
UNIFE accessible market 2020-2022 (WRMS 2020) – Average in € Bn / year



RECENT WINS

ALSTOM: A CLEAR RSC MARKET LEADER

RSC Market shares 2019-2021, in % including turnkey share





AUSTRALIA 100 Flexity™ low-floor Next generation Trams €700 MILLION SWEDEN 25 Zefiro Express high-speed trains €650 MILLION NORWAY 30 Coradia Nordic™ €380 MILLION CHILE 37 Metropolis™ trains, signalling system and 20-year maintenance €355 MILLION

GERMANY 130 Coradia Stream™ inter-regional trains and 30-year maintenance

€2.5 BILLION

UK HS2 Very high Speed 54 trains & 12-year maintenance

€1.1 BILLION

1. CAGR of 1.6% based on 2020-2022 to 2023-2025 period

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An industry leading product portfolio

PLATFORM & TECHNOLOGIES ENABLE COVERING ALL SEGMENTS **CUSTOMISATION & STANDARDISATION** Capacity Avelia™ (**E**)Locomotive Traxx[™] Metropolis™ Metro Commuter Innovia $\left(\begin{array}{c} \mathbf{Q} \end{array} \right)$ High & very highspeed Regional & intercity etropolis™ X'trapolis Innovi Citadis Light rail Prima™ trapolis™ vehicle Monorail & APM Speed up to 360km/h Flexity™

A significant installed base : ~30% of global installed fleet

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Component building blocks drive competitiveness and product performance

COMPLETE SPECTRUM OF GREEN & CLEAN SOLUTIONS

fili

INCLUSIVE AND

HEALTHIER MOBILITY™





BROADEST COMPONENT PORTFOLIO IN THE INDUSTRY







VERTICALISED WITH SELECTIVE M&A



Vertical integration of core components and key technology bricks to further leverage service business & enhance competitiveness



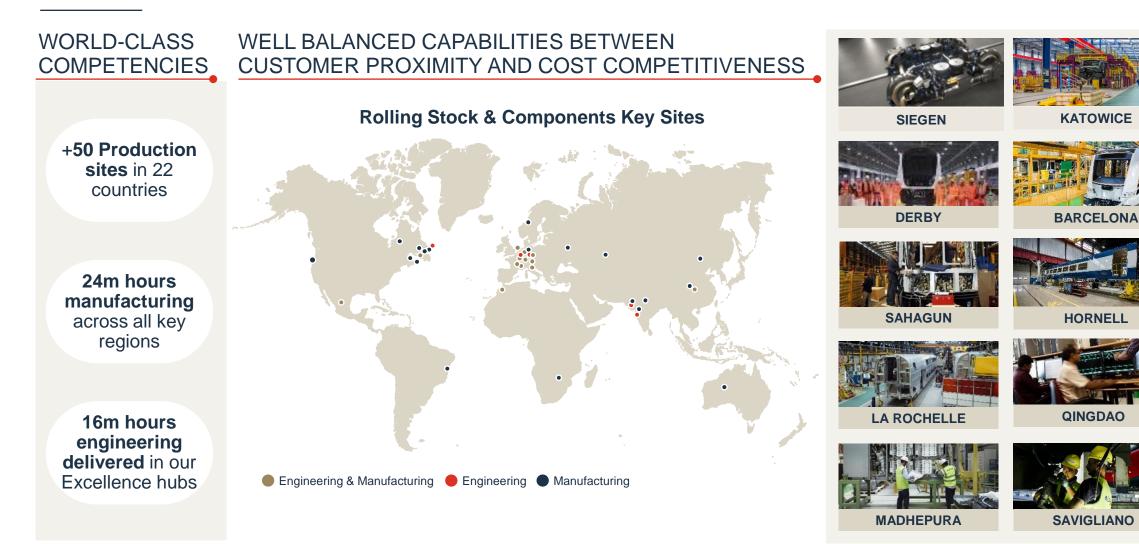
- Brakes pads specialist
 (major consumable)
- Disk brakes specialist



Medium power H₂ fuel cell specialist allowing Alstom to master this key technology brick throughout its whole lifecycle

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A unique global-local presence and capability



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Technology investments targeted for a greener, smarter and more inclusive mobility

KEEPING THE EDGE IN ZERO EMISSION SOLUTION

- Partnership to decarbonise freight with an H2 solution
- First battery train tested in passenger operation with Deutsche Bahn



• Hybrid Régiolis tested in France

-20% Energy consumption

OPTIMIZING TOTAL COST OF OWNERSHIP

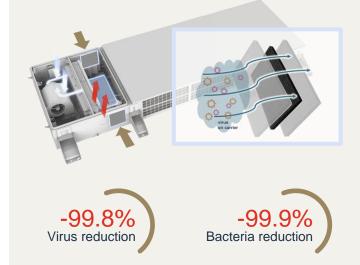
• Avelia Horizon under dynamic test in H2 2022 in Velim test center



+20% Capacity

ENHANCING PASSENGER COMFORT

 PEPA[™] filter, an antiviral HVAC filter that catches and kills viruses, including the coronavirus



Unrivalled core R&D capabilities

Energy consumption

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Ambition to grow profitability and strengthen our leading market position

GROW PROFITABLY AND DELIVER TO CUSTOMER COMMITMENTS Market share target +3 to 4pr by FY2024/25 ⊘ aEBIT target High single by FY2024/25 diai

STRATEGIC ORIENTATION AND KEY INITIATIVES



- Platforming standardisation & components building blocks
- Tendering focused on optimizing design solutions driving profitable growth
- Green mobility innovation and technology roadmap

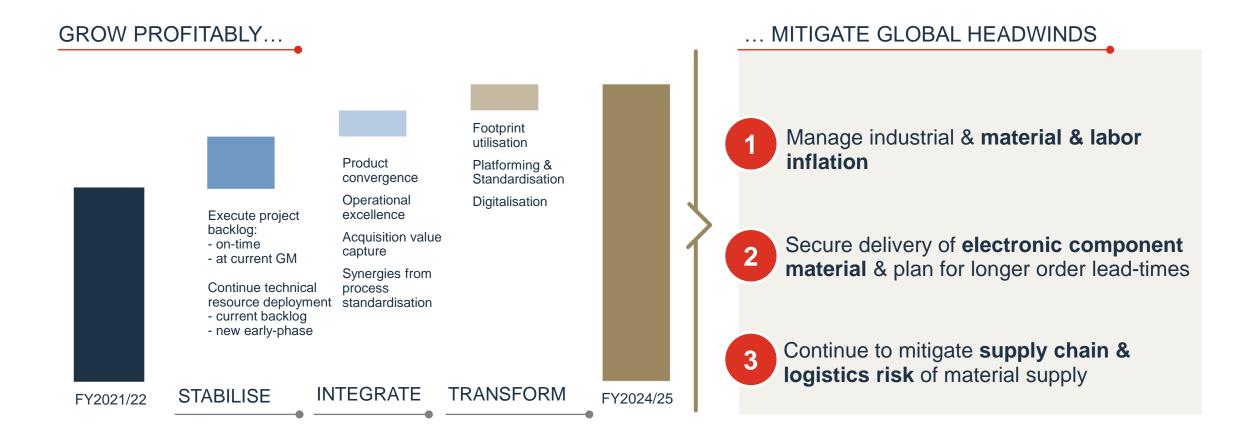
DEVELOPMENT & OPERATIONS

- Leverage best-cost engineering hubs & manufacturing sites
- Cost reduction enabled with new supply chain scale
- Use Design-to-Cost methodology for design efficiency

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Adherence to Quality Gate process

A clear path towards growth and profitability restoration



Three steps to get to high single digit aEBIT by 2024/25

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Process rigour and execution focus create value for customers and stakeholders



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STABILISE Turning around difficult projects

2.1

Danny Di Perna Executive VP and Chief Operating Officer



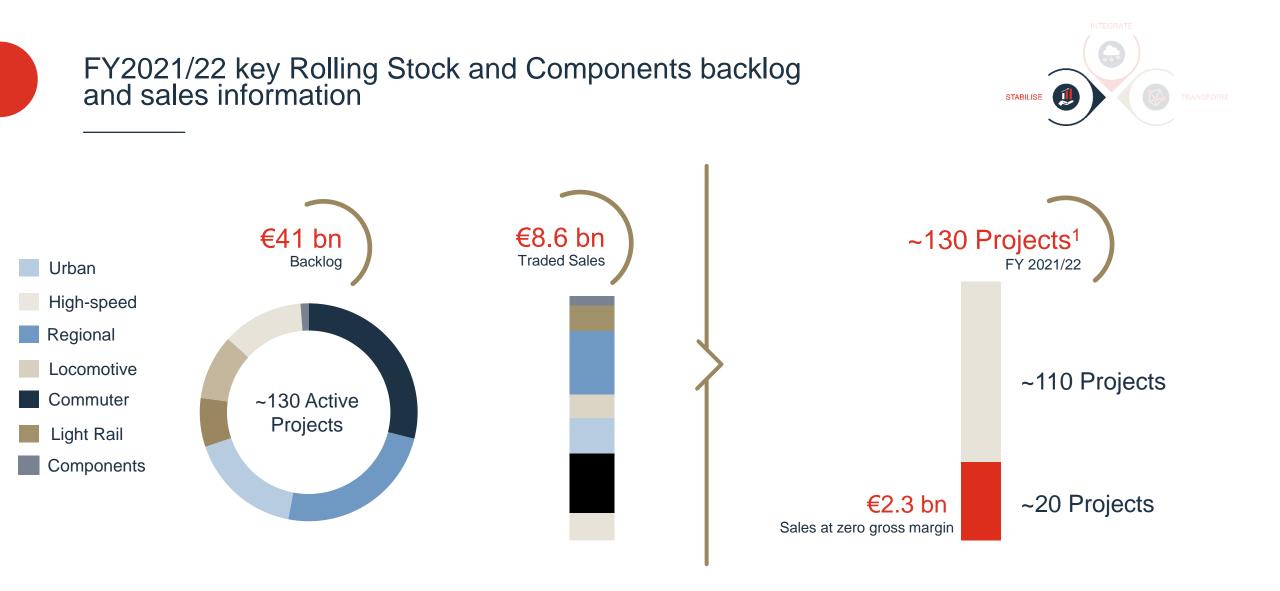
A Rolling Stock and Components backlog of €41bn, comprising ~130 active projects



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PROJECT BACKLOG BREAKDOWN PER SEGMENT





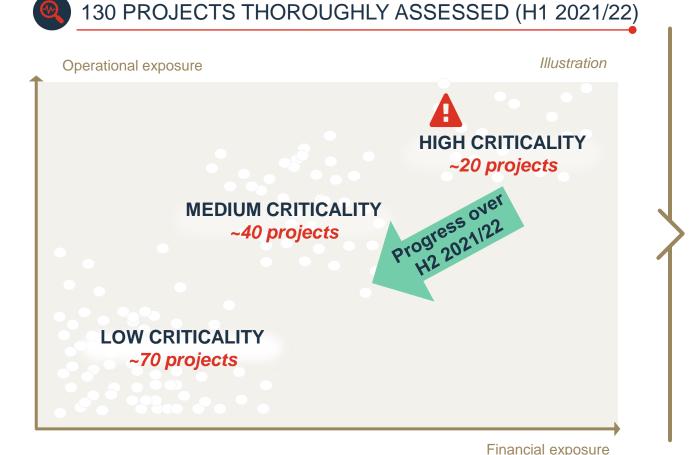
A portion of the backlog needs technical expertise and project management support

1. Projects with Residual Value above €50m as of 31 March of 2022

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A comprehensive portfolio risk assessment completed



HIGHLIGHTING MAIN ROOT CAUSES

- Incomplete or partial compliance in requirements management process
- Inadequate project planning, scheduling and gate management process
- Resource and competencies not sufficiently focused on critical project execution
- Supply management more focus on requirements and quality control
- **Product policy** not sufficiently aligned to meet customer requirements

Significant progress achieved to reduce High Criticality project risks

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Project stabilisation action plan deployed with expert task forces



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TASK FORCE EXPERT GROUPS LAUNCHED



Inject development experts



Review all customer requirements



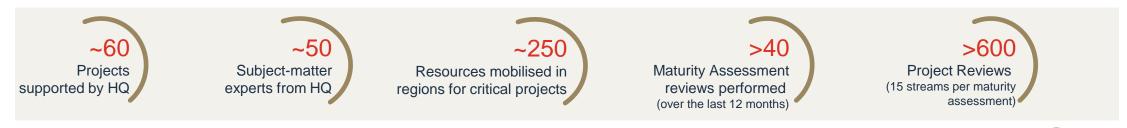
Align project scheduling and resources



Enforce Design for Quality and Project Management standards



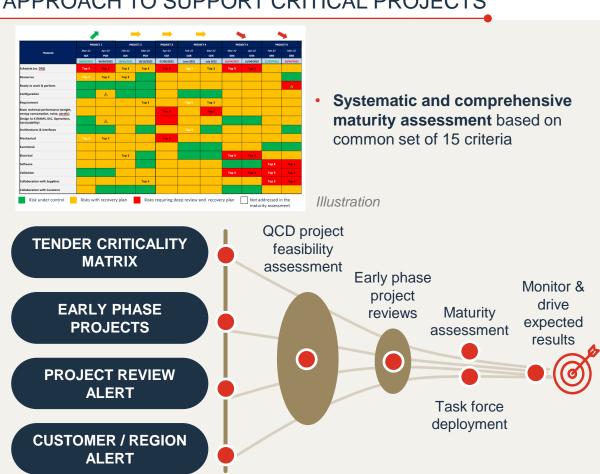
Punctual support on demand and extensive visibility on critical project progress



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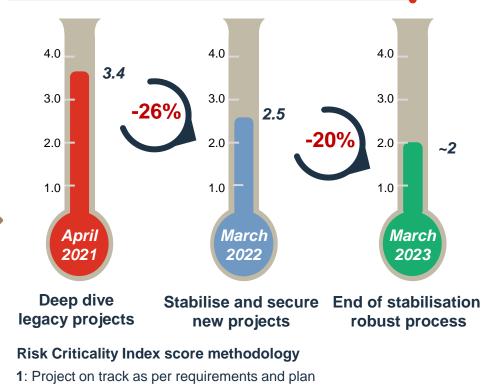
Systematic process and actions deployed to reduce project risks are yielding results





APPROACH TO SUPPORT CRITICAL PROJECTS

RISK CRITICALITY INDEX EVOLUTION



- 2: Minor gaps impacting project objectives with a secured action plan
- 3: Significant gaps impacting project objectives
- 4: Project schedule and financial performance not to plan

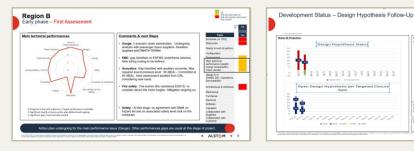
Project Management best practices being deployed on all new projects



LEVERAGING STANDARD DEVELOPMENT PROCESS TOOLS...

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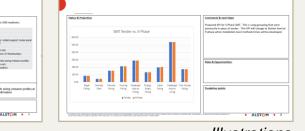
Compliance to main Technical Performance targets





Status: 10/2021





Illustrations

...AND LESSONS LEARNED FROM DIAGNOSIS AND PROBLEM SOLVING

- Project staffing core team **Contract** awareness Savings review \bigcirc
- Risk & Opportunities review \bigcirc

- Establish clear KPIs dashboard \bigcirc
- \bigcirc Configuration management discipline
- \odot End-to-end project schedule optimization
- Validation strategy optimization \bigcirc

CLEAR OBJECTIVES

100% Launch Gate Review on time 12 weeks

Critical Project Review 0 with 1st maturity assessment





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Video

Keywords which will appear on the screen Stabilisation on tracks

VALIDATED WITH PIERRE MIRAMONT

1/ Twindexx for SBB

10 fold improvement in reliability

Lowest demerit ever reached

100% on time delivery in the last 12 months

"Twindexx is now the best quality at delivery across all other OEMs" SBB project director

TO BE REVIEWED

2/ CRESPIN, France Ramp-up "Plan 1000" New production line (for Regio 2N) Increased capacity/productivity New logistics investments

SEQUENCE OF MESSAGES TO BE RE-ARRANGED

3/ DERBY, UK First customer acceptance of SW and WM trains (mettre en dernier) 20 fold improvement in customer demerit score - No more safety and Functionnal issues (avant dernier)

Test faults recorded by trainset reduced by 90%

50% reduction in manufacturing lead time 70% of retrofit activity completed

25

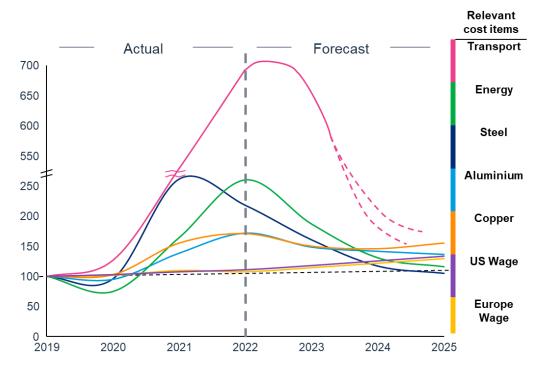
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Reinforced action plan to mitigate inflation cost effect



INCREASED PRESSURE OVER H2 2021/22

Evolution of relevant cost items indexes Indexed, Yearly evolution 2019-2025E, Base = 2019



MULTI-DISCIPLINARY ACTION PLAN

Price adjustment on new tenders mirroring cost increase
 Commercial contract pricing adjustment formulas
 Reinforced selectivity for fix and firm price contracts
 Back-to-back with suppliers for fix and firm contracts
 Long term planning and secure material supplies
 Apply stringent cost measures to mitigate headwinds

Supply chain turbulence mitigated in 2021/22



SUPPLY CHAIN CONSTRAINTS

Electronic components material capacity issues

- Semiconductor chip shortages aggravated by the pandemic
- Electronic components and systems deliveries potentially impacting production flow
- Ordering lead times significantly expanded

Disruption on goods delivery

- International freight activities under pressure
- Delays on freight activities increasing

DOUBLE DOWN ON ACTION PLAN IN FY 2022/23





In-depth analysis of semiconductor **needs** across the complete value chain



Longer-term planning and commitments with suppliers to secure allocation



Develop and use alternate sources



Product adaptation and redesign for interchangeability to reduce dependencies

6 Ada

Adapt production process (i.e. re-sequencing) to mitigate component shortage





2.2

Benjamin Fitoussi President Rolling Stock and Components – Development & Operations





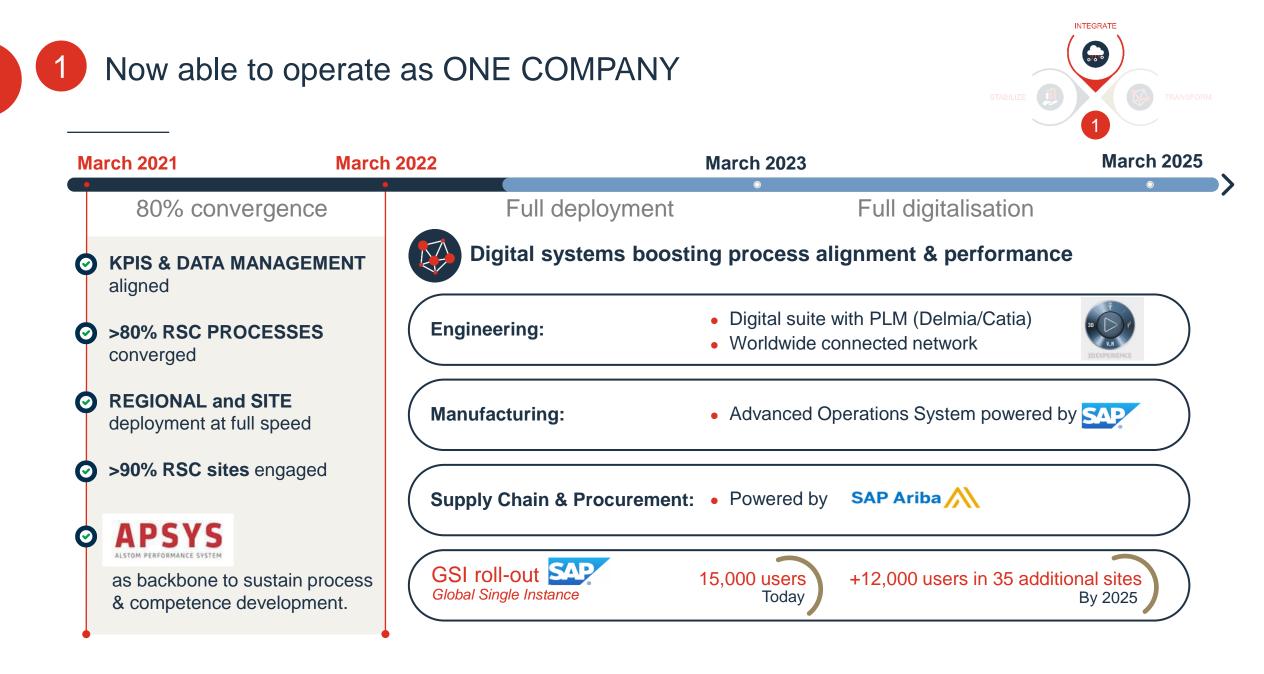


OUR TARGET

Bring back the operational performance to nominal in March 2023 and deliver the committed synergies

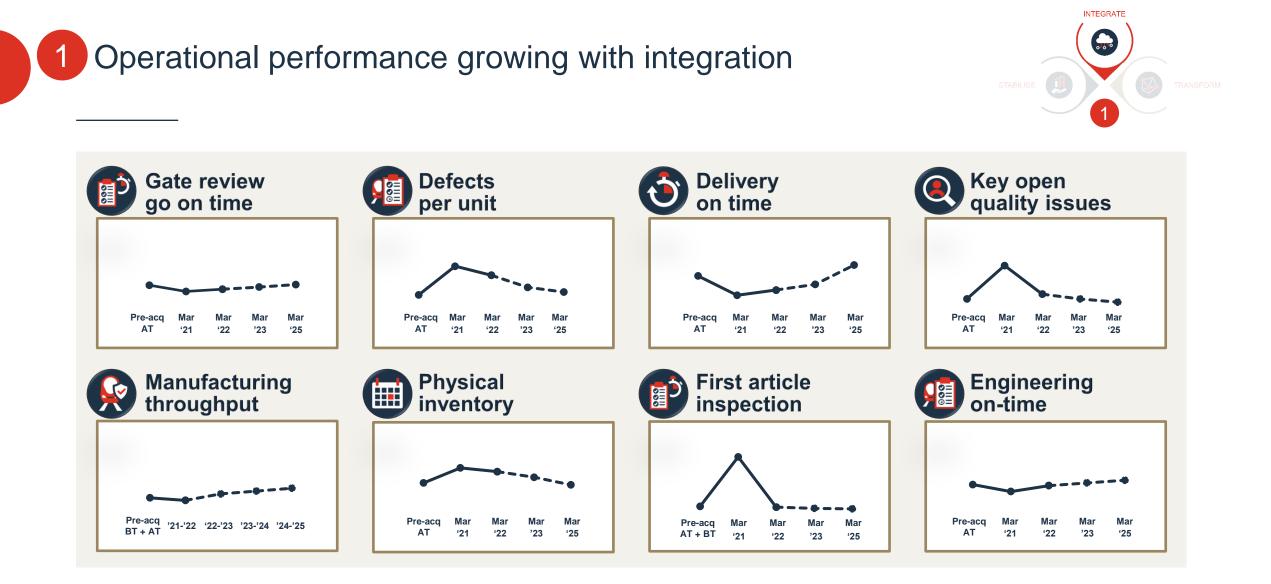






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Operational performance back to nominal by March 2023

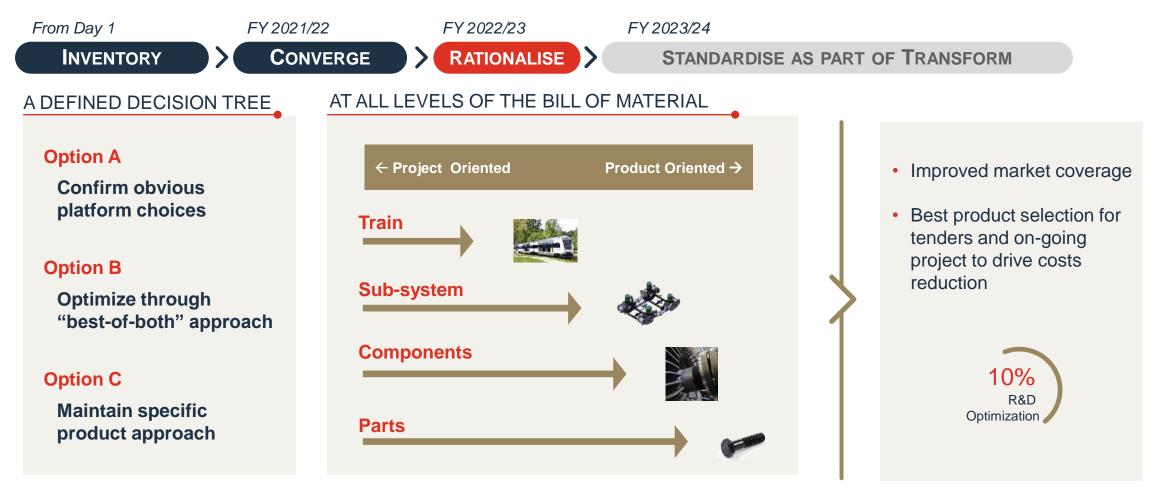
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Align and optimize our product portfolio

A CLEAR ROADMAP TO EXTEND MARKET COVERAGE AND TIME-TO-MARKET WHILE IMPROVING COSTS

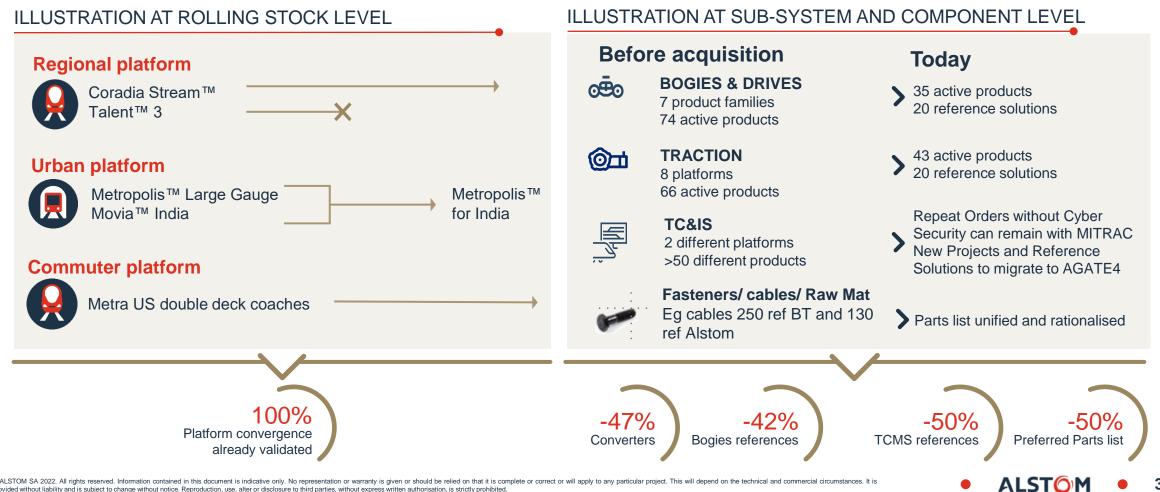


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INTEGRATE

2 Convergence finalised, rationalisation on-going on tenders





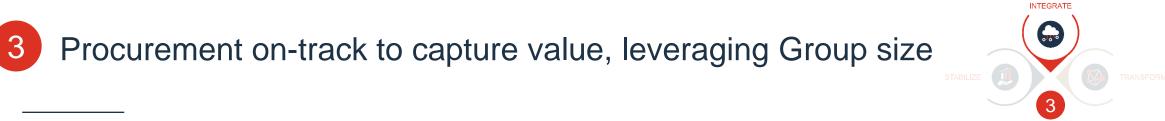
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	 1st Supplier day Ma 		 2nd Supplier day 	
March 2021			h 2022	March 2023
• April 2021			• • • • • • • • • • • • • • • • • • •	
	SUPPLIER DAY	NEGOTIATIONS DONE WITH TOP 600 SUPPLIERS	 4 LEVERS MOVING FORWARD Co-development Design-to-cost Standardisation specifications Demand management 	
Understanding of ex-AT and ex-BT strategies, spend and supplier base Initial Value Capture ambition	 300 suppliers invited Introduction to Value Capture objectives and processes 	 3 waves Great success despite difficult context of inflation 		

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• Claim settlement on legacy projects

BCC PURCHASING IN 2021/22

Driving the right quality standards across our value chain



STRENGTHEN QUALITY

3

- Engineering (Right First Time)
- Industrial (Zero Defect Program)
- Supplier Quality in Region

Quality Academy





2,655 trainers 2,565 training sessions 49,011 people trained

LEAN AND EFFICIENT PROCESSES

- Development For Quality
- Focus major production Ramp-Ups
- First Article Inspection, Statistic Control Critical Processes

Lean 6 Belt Program



Year 2021/22 : 25 6**o** Ambassadors 1060 people qualified

CUSTOMER SATISFACTION

- Reliability Growth & Warranty
- Reactivity, Return of Experience
- **Prevention** in **Tender** Phase

Customer survey program



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Pursue Cash Focus programme



AMBITION

• Optimise Cash across Alstom entire value chain



KEY INITIATIVES

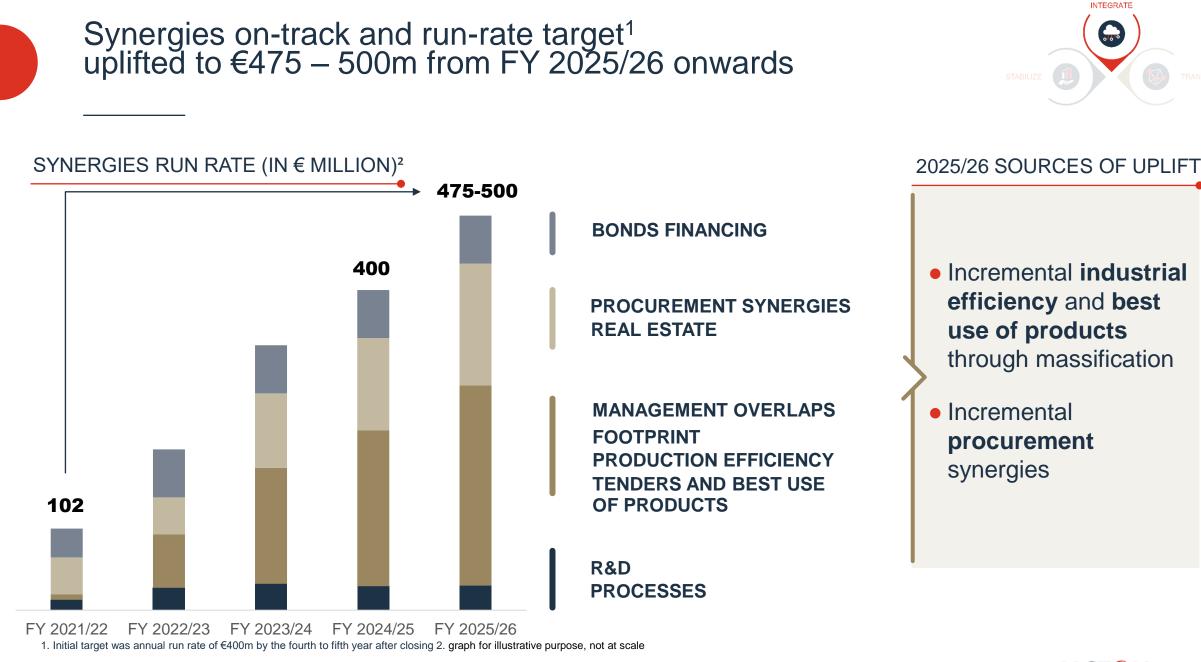
- Cash-based **selectivity** in tenders
- Alignment strategic & tactical planning
- Cash conscious supplier contracts
- Optimise hard inventories level
- Increased CAPEX planning
- Enhance cash culture through training and personal objectives

2024/25 OBJECTIVES

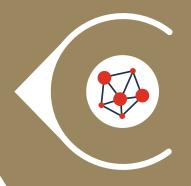
Free Cash Flow: 80% conversion from adjusted net income

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TRANSFORM Growing profitably

2.3

Benjamin Fitoussi President Rolling Stock and Components – Development & Operations





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4



ACCELERATE THE EFFORT

OF STANDARDISATION /

MODULARIZATION



2

GET THE BEST OF OUR

DIVERSE FOOTPRINT

AND SCALE ADVANTAGE



3

FURTHER DIGITALIZE

OUR OPERATIONS







Illustration of major 2021/22 wins based on "best-seller" products

CORADIA STREAM™

- 29 High-Capacity electric doubledeck multiple units for DB Regio
- Up to 40 electric inter-regional trains to Romanian Railway Reform Authority

More than 700 Coradia Stream[™] sold within 5 years



METROPOLIS™

- 55 large gauge Metros for Cairo L1
- 36 Metropolis trains for São Paulo Metropolitan Train System L 8 / 9
- 29 fully automated Metropolis trains to Taipei as part of a turnkey project

More than 60 customers worldwide



X'TRAPOLIS™

- Up to 750 new commuter rail cars for Ireland's DART
- 25 six-car trains for Melbourne's suburban rail network
- 42 trains for Tren Maya

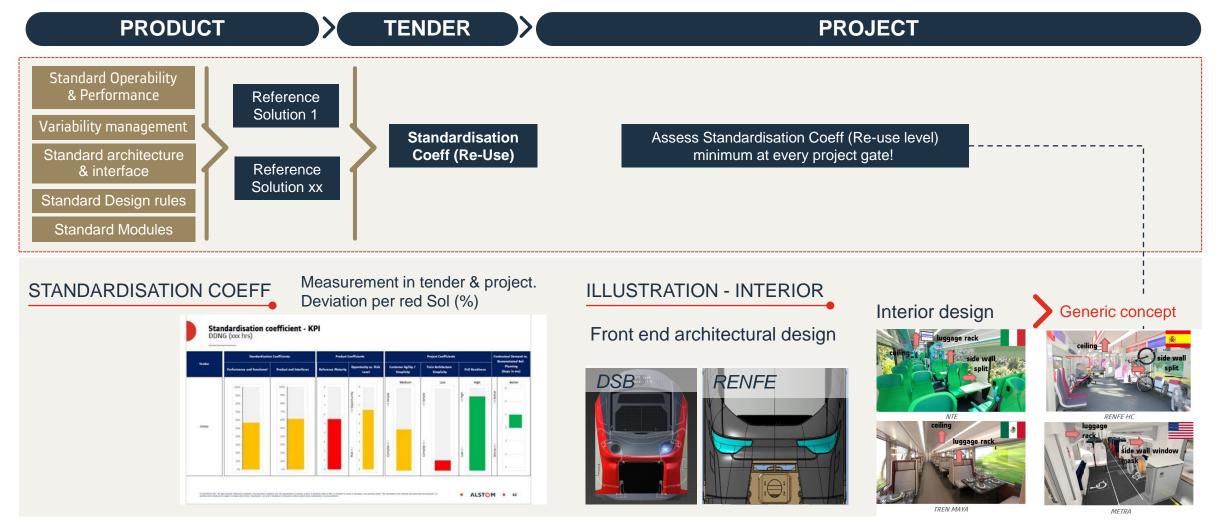
5,500 X'trapolis™ cars ordered so far in the world



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Platform product management and standardisation 68 components, 48 buy modules





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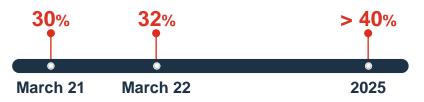
2

Increased Engineering efficiency by leveraging Best Cost Countries (BCC) site specialisation



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- Aligned organisation model
- Deployed target processes
- Massify specialisation & return of experience :
 - New development sites organized by product
 - 10 train sites & 9 components sites
- O BCC capacity today at 32% ahead of Plan



Continuous built up of BCC sites e.g. in Poland, India and Mexico

POLAND | EUROPEAN PROJECT SUPPORT



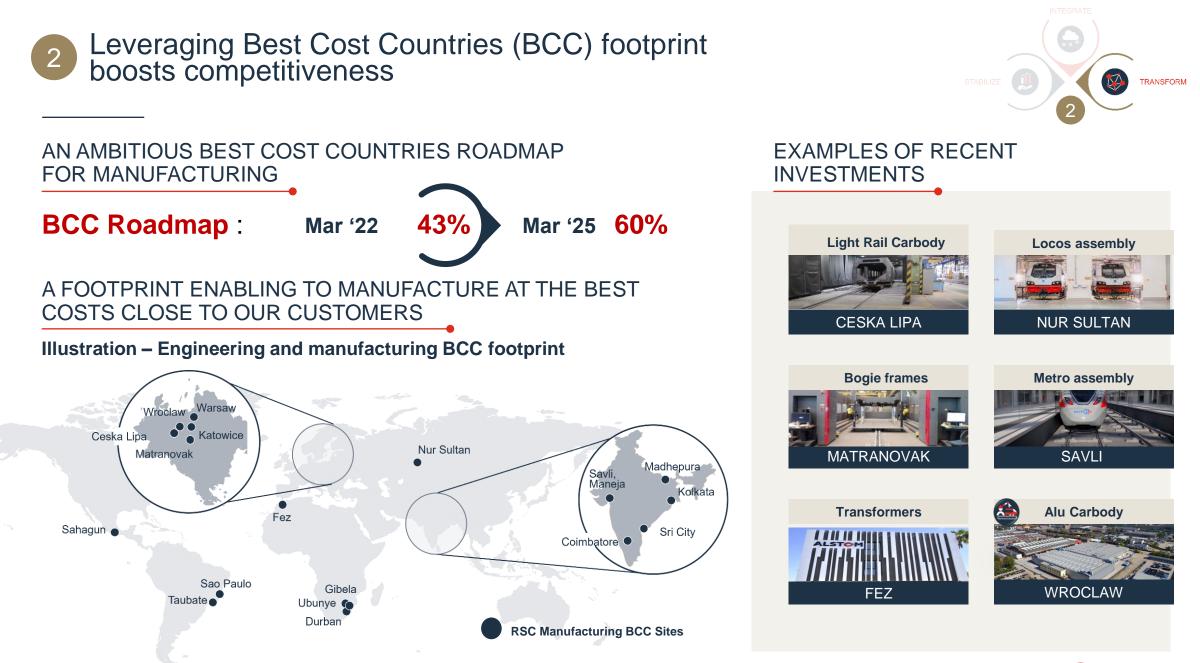
A unique global-local manufacturing footprint to meet growing demand for localisation while delivering competitiveness

Customers are looking for reliable, tailored and competitive solutions delivered close to them

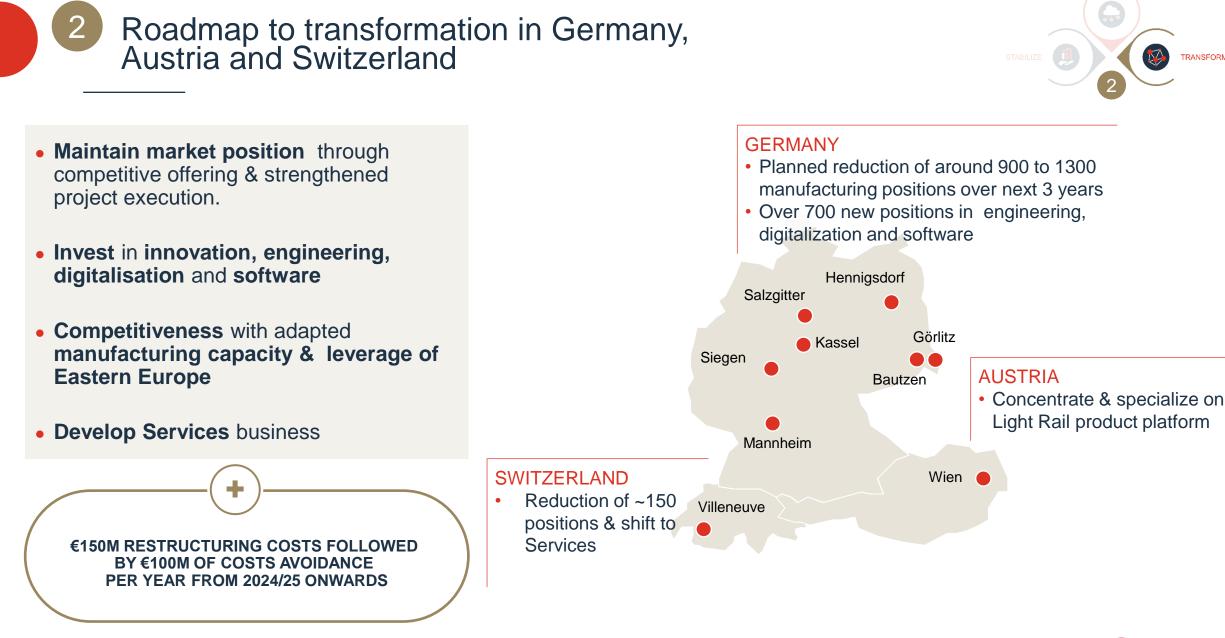
TENDERS WON THANKS TO ABILITY PROXIMITY TO DELIVER LOCAL CONTENT **TREN MAYA** (MEXICO) AMTRAK HIGH-SPEED (BUY AMERICAN ACT) Commercial reach in 70+ countries Delivery sites located in strategic markets Manufacturing hubs in all key regions ALSTOM SAHAGUN PLANT ALSTOM HORNELL PLANT **CUSTOMER** WORLD-CLASS CAPABILITIES **INTIMACY** HS2 VERY HIGH SPEED (UK) LIGHT RAIL TRAMS (AUSTRALIA) Excellence hubs in key geographies MARRIES SEL Sharing our worldwide expertise with our customers Global competencies networks **ALSTOM DERBY & CREWE PLANTS** ALSTOM DANDENONG PLANT



RANSFORM



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PLM4A: an enterprise-wide programme to enable ONE product lifecycle management

1. compared to March 2021

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Investing in people with World Class Engineering & Manufacturing programme



DACH : 13 Manufacturing experts AMERICAS : 103 Engineering experts 25 Manufacturing experts 87 Engineering experts EUROPE : 61 Manufacturing experts 204 Engineering experts FRANCE : 86 Manufacturing experts APAC: 282 Engineering experts 16 Manufacturing experts 56 Engineering experts AMECA : 3 Manufacturing experts 6 Engineering experts

Expertise is key for Alstom's success and development















Rolling Stock and Components journey ahead



- Significant improvement in project stabilization achieved in 2021/22 - back to nominal performance expected by March 2023
- Operating already as One Team, with best-in-class converged processes and product portfolio by March 2025
- Clear plan to deliver the targeted operational recovery, synergies fully on-track
- 4 Uniquely positioned to capture market growth thanks to product, market reach and scale

