

For 30 years, Alstom has been an innovative pioneer in Romania's journey towards a modern and sustainable railway transport. The company currently employs more than 1,200 people, including its Shared Services offices in Cluj. Alstom provides **mainline signalling, infrastructure or electrification works** on the national railway network, covering over 75% of the Northern branch of the Rhine-Danube pan-European Corridor. Romania is a key reference for Alstom's rolling stock **maintenance capabilities**, with the long-term maintenance of the Bucharest metro fleet. Alstom is also responsible for state-of-the-art **urban transport solutions**, such as the **first CBTC signalling system** installed in Romania, for the newly built Line 5 of the Bucharest metro. As for rolling stock, the company will provide **Metropolis metro trains** for the Bucharest metro and **inter-regional passenger electric trains** for the Authority for Railway Reform.



KEY HIGHLIGHTS

- >1,200** permanent employees
- 650** employees in Cluj-Napoca
- 83** metro trains maintained
- 37** inter-regional EMUs ordered
- 30** new metro trains for Line 5
- 28** years of activity in Romania
- > 15** major projects in Romania, in execution or warranty

DIGITAL & INTEGRATED SYSTEMS (D&IS)



– Alstom is **Number 1 in Romania** in signalling and electrification projects



– **ERTMS Level 2** installed on conventional lines on **more than 75% of the Rhine-Danube European** railway corridor

– **First CBTC system in Romania** – Bucharest Metro L5

– **Traffic control centres** – Alstom is responsible for Romania's **first three modern ones**: Arad (in operation), Simeria and Brasov (in execution)

– Signalling works (electronic interlocking) for the **newly built extension connecting the Bucharest airport to the main railway station**

– Proven competences for **Digital & Integrated Systems (D&IS)**, in local and international projects

– **720 km of upgraded catenary** for increased train speed to 160 km/h



ROLLING STOCK

– Up to **30 Metropolis metro trains** for Line 5 Bucharest Metro (13 with option for 17 more);

– **Coradia Stream inter-regional passenger electric trains** – 20 + option for another 17



ROLLING STOCK MAINTENANCE

– **Preventive and corrective maintenance** of 83 trains for Bucharest metro operator, **ongoing since 2004**

– **Major Alstom maintenance reference** worldwide



SHARED SERVICES OFFICES

– Alstom's **Shared Services Organisation in Cluj-Napoca** provides Finance, HR and Procurement services to many countries in the group

– The three business units employ over 650 people

MAIN REFERENCES

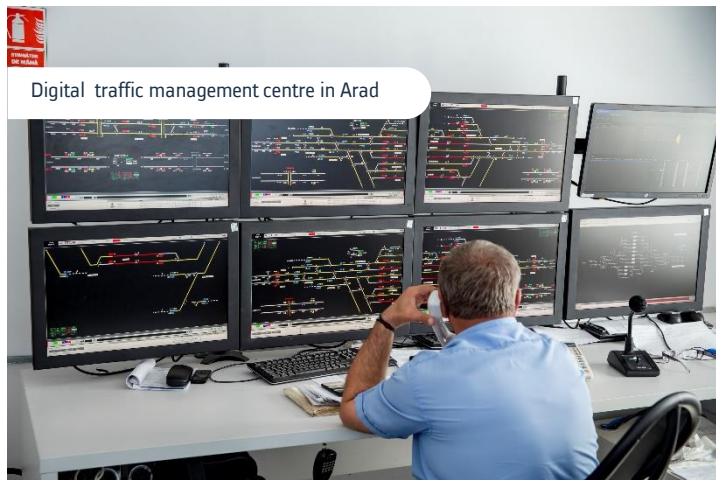
ROLLING STOCK MAINTENANCE CONTRACT

- 492 cars (82 metro trains)
- Ongoing since 2004
- Romanian expertise to support the first Alstom project on the Bulgarian market – the maintenance of national operator's passenger fleet

SIGNALLING AND INFRASTRUCTURE WORKS - SIGHISOARA-BRASOV LOTS 1 & 3 AND LOT 2

- Over 250 km of upgraded infrastructure (128 km of double track)
- Traffic control centre, digital interlocking and ERTMS Level 2 deployment, passenger information systems as well as catenary upgrades and electric traction substations
- After completion, passengers will go from Sighisoara to Brasov in one hour

Digital traffic management centre in Arad



CURTICI PROJECT: A TOTALLY REBUILT RAILWAY LINE FOR FASTER AND MORE EFFICIENT TRAFFIC

- 41 km of double line fully rehabilitated, on the local section of the Rhine-Danube Corridor
- First modern traffic management and control centre ever installed in Romania, in Arad station
- Alstom's responsibilities: modern traffic control centre, ERTMS Level 2 signalling, electronic interlocking, passenger information systems and catenary upgrading through electric traction substations

HIGH-PERFORMANCE PASSENGER EMU: CORADIA STREAM INTER-REGIONAL TRAINS FOR ROMANIA

The first passenger railway fleet to be provided by Alstom in Romania: 20 units ordered in March 2022 + option of 17 more



- Coradia Stream is a state-of-the-art, low-floor, high-performance electric multiple unit (EMU)
- Coradia Stream family is very successful throughout Europe, with almost 900 trains already ordered
- Each train will have six cars and 100% low floor
- 15-years maintenance services associated
- Equipped with the ERTMS Level 2 traffic control system and capable of operating on all the main European power supply systems

* The final configuration, colors and finishes will be fully customised according to the requirements of the Contracting Authority during the design stage.

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