



For almost 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. For the same line, the company will provide **Metropolis metro trains**, following a contract signed in December 2020.



KEY HIGHLIGHTS

- 1,200** permanent employees
- 650** employees in Cluj-Napoca, in global Shared Services organisation
- 83** metro trains maintained
- 30** new metro trains for Line 5
- 27** 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 (13 in phase 1, contract signed October 2020) and 17 more in phase 2)

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

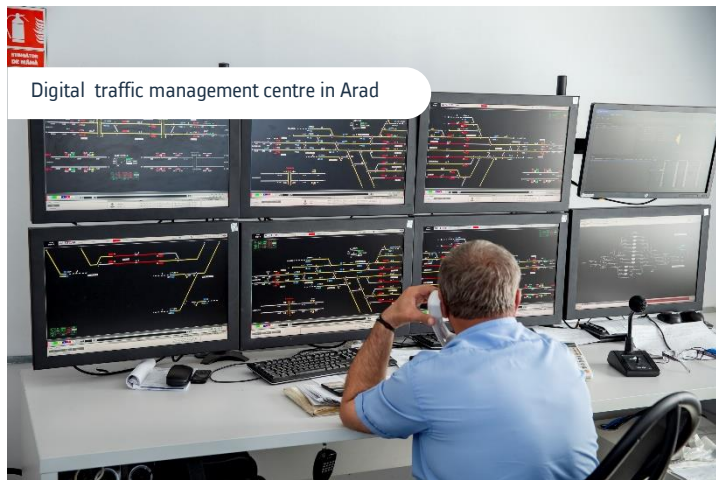
ROLLING STOCK MAINTENANCE CONTRACT

- 498 cars (83 metro trains)
- Ongoing for 17 years
- 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: the modern traffic control centre, ERTMS Level 2 signalling, electronic interlocking, passenger information systems and catenary upgrading through electric traction substations

ONGOING SIGNALLING PROJECT: SIMERIA-SIGHISOARA

The largest signalling project currently in execution in Romania, from the point of view of the railway line length



Coradia Polyvalent displayed in Bucharest, October 2016

- Totalling over 320 km (163 km of double track), 17 stations
- The first Alstom train built for Romania is part of this project. Following extensive interior fitting works completed in Bucharest in accordance with client requirements, the ETCS-enabled **Coradia Polyvalent** will be used as test train for national company CFR, on the rehabilitated lines
- The first locally developed and homologated electronic level crossing solution in Romania
- ERTMS Level 2 signalling solution Atlas 200, GSM-R and electronic interlocking

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