

Deeply rooted in the Italian railway tradition, Alstom in Italy has been manufacturing trains for **160 years**, signalling equipment for **90 years** and traction systems for **60 years**. Today, with **9 sites** throughout Italy and more than **3600 employees**, Alstom is a strong local employer recognised as one of the leaders on the Italian market. Alstom in Italy has two global competence centres: one in high-speed trains **Avelia Pendolino** and in regional single-decker trains Coradia Stream; and one in **railway signalling equipment and systems**. Alstom has made considerable investments in its industrial base in Italy. Alstom's site in **Savigliano (CN)** is an example of **Factory 4.0**, with a cutting-edge 3D virtual reality room, enabling our engineers to design trains for easier maintainability.



## ALSTOM IN ITALY IN FIGURES

<b>3600+</b>	Employees
<b>9</b>	Main sites
<b>30+</b>	Depots
<b>2</b>	Global competence centres

### SAVIGLIANO

Global competence centre for regional trains (more than 600 trains sold) and Avelia Pendolino high-speed trains (more than 500 trains sold worldwide)

### SESTO SAN GIOVANNI

Maintenance, repair and manufacturing centre for subsystems and components of trains, tramways and metros. Maintenance engineering and remote control room for all the fleets of Alstom in Italy

### VALMADRERA

Development and manufacturing of railway components and power transmission for railway, metros and tramways

### BOLOGNA

Global competence centre for signalling, computerised interlocking and traffic supervision systems

### VADO LIGURE

Manufacturing, major overhauling and service for rolling stock, locomotives and subsystems

### FIRENZE

Global competence centre for electromechanical signalling products. Design and manufacturing of railway signalling systems

### ROMA

Commercial office. Design, project management and installation of rail, urban and mainline infrastructure and systems.

Design and installation of signalling systems

### BARI

Research centre for railway signaling systems

### NOLA

Maintenance center for Italo fleet and other regional trains

## TRAINS

- 25 Avelia AGV and 26 Pendolino EVO trains for NTV
- 372 Coradia Stream regional trains for Trenitalia, FNM and other regional railways
- 15 Coradia Stream trains for STA capable of cross-border service with Austria
- 163 Jazz/Coradia Meridian regional trains for Trenitalia, FNM and other regional railways
- 164 Traxx DC3 Italia locomotives for 9 customers, including 93 in service and 191 Traxx DC2s
- 84 Zefiro very high-speed trains, in ATI, for the Italian and Spanish markets

## SIGNALLING

- Approximately 4,000 onboard signaling units, including ERTMS Level 2, BL2 and BL3
- Management of 6 lines and 64 stations by the Bologna node integrated control center and related centralized control system
- Operation of 3 lines and 21 stations by the Rome node control center and related control system
- Upgrade to ERTMS of the Milan - Monza - Chiasso line
- New CBTC radio signaling system on Line 1 and supervision and control system of Milan metro lines 1,2 and 3
- CBTC on several metro lines in Istanbul (Turkey), Bogota (Colombia) and Madrid (Spain)
- ECTS on board the RENFE HST 250 fleet
- Tramway solutions in the Netherlands
- ERTMS Level 1 in Algeria, Bulgaria, Ethiopia, Greece, Morocco, and Spain, and ERTMS Level 1 + radio infill in two Italian lines
- Conventional signaling systems in Italy and Spain

## SYSTEMS AND INFRASTRUCTURE

- Electrification, light and deadly force lines, tunnel firefighting for the Terzo Valico dei Giovi + Genoa Node Single Project (Milan - Genoa HS line)
- Brescia - Verona line and Verona - Vicenza line electrification
- Framework agreements for renewal and routine maintenance of the Italian railway network for RFI
- Vesuvius lines electrification project (EAV)
- ERTMS Framework Agreements for RFI (electrification part)
- Urban segment: Turin Metro Line 1; Bologna Tramway; ATM eBus electric recharge; Catania Metro; Florence Valfonda
- Grand Paris Line 15 South and 18 South
- Brasov-Sighisoara railway line 1 and 3 - Romania
- Terna - 2 Framework Contracts

## SERVICES AND MAINTENANCE

- Maintenance of the Avelia Pendolino fleets for Trenitalia and SBB
- Maintenance of Minuetto regional trains for Trenitalia and regional railways and Coradia Meridian for Trenord
- Lifetime (30-year) maintenance of the Italo fleet of Avelia AGVs and Pendolino
- Maintenance of more than 240 locomotives and the APM system at Fiumicino airport
- Major overhaul and/or technological renewal of coaches, Eu43 and E483 locomotives for Trenitalia and other operators
- Full material management for POP
- ALM trolleys Milan streetcars and ATAC trains Rome

## KEY PROJECT: HYDROGEN TRAIN FOR ITALY

**6 hydrogen fuel cell trains ordered by FNM, with the option of additional 8, to be delivered in December 2023**

**The first hydrogen trains to run in the Italian rail network**

**Hydrogen trains based on the Coradia Stream platform, with commercial service of over two years now and more than 130 trains**

**Designed and manufactured in Italy**



Hydrogen Coradia Stream

## KEY DATA

**More than 500 Avelia Pendolino trains built in Italy and sold in 13 countries**

**More than 600 regional trains for Trenitalia, FNM and regional operators**

**More than 1,000 locos for Trenitalia and private operators**

**Level 2 ERTMS for 300 km of Italian high-speed lines, the first in Europe equipped with the new interoperable standard**

**FOR MORE INFORMATION:**  
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