

## Alstom's HealthHub™ TrainScanner enters service in Warsaw

### Innovative predictive maintenance solution for PKP's Avelia Pendolino fleet



**24 November 2019** – Alstom's predictive maintenance solution for rolling stock, TrainScanner, has entered in service in Warsaw's Pendolino Service Centre, where it will be used to maintain the fleet of 20 Avelia Pendolinos operated by PKP Intercity.

TrainScanner provides predictive maintenance and continuous assessment of rolling stock's technical condition. Thanks to digital data analysis, it identifies the optimal moment for component replacement. The system implemented in Warsaw builds on Alstom's long experience in the United Kingdom, where TrainScanner has been used in servicing Avanti West Coast's Pendolino fleet for years.

"We are very proud to be inaugurating this TrainScanner in mainland Europe. It is another milestone towards the future of mobility. Thanks to automated,

data-based solutions, we can continuously improve predictive maintenance processes, which translates into direct benefits for operators and passengers. Predictive and condition-based assessment of the fleet's technical condition helps avoid downtime and maximises availability," said Artur Fryczkowski, Managing Director Alstom in Poland and Ukraine.

"TrainScanner is a glimpse of the future of the industry. I am glad that PKP Intercity trains will be inspected in this innovative way, as this will not only bring us savings, but above all will allow us to ensure greater reliability of our trains, and thus the comfort and safety of passengers," stresses Adam Laskowski, Board Member of PKP Intercity S.A., Polish national long-distance carrier, whose rolling stock flees includes 20 Alstom's Pendolinos.

Using 3D cameras and lasers, TrainScanner automatically enables condition-based and predictive maintenance for wheels, brake pads and pantograph carbon strips as well as on under-frames and body shells. Especially suitable for large or dispersed fleets or when high level of service is required, subsystem information is captured as the train passes through the TrainScanner. After automated inspection, the data is transmitted to Alstom's HealthHub platform, which translates raw data into actionable information, by using rule-based algorithms, leading to the calculation of a health index for each asset.

TrainScanner and HealthHub provide significant benefits in terms of both maintenance and operation, lowering the consumption of materials and the number of required maintenance activities, and thus enabling significant savings for fleet owners and operators. The system contributes to longer intervals between maintenance, longer component life and increased safety during operation.

Alstom has been present in Poland for over 20 years, with a local workforce of almost 2000 employees. The Alstom Konstal production plant in Chorzów is one of the three largest Alstom factories in the world. Alstom's bogie production plant in Piaseczno delivers 600 bogies a year for international Coradia Stream, while the Pendolino service depot in Warsaw services 20 Pendolino trains that cover 21,000 kilometres daily and cross 34 cities in Poland. Alstom is the only Top Employer certified company in railway industry in Poland.

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### About Alstom

Leading the way to greener and smarter mobility worldwide, Alstom develops and markets integrated systems that provide the sustainable foundations for the future of transportation. Alstom offers a complete range of equipment and services, from high-speed trains, metros, trams and e-buses to integrated systems, customised services, infrastructure, signalling and digital mobility solutions. Alstom recorded sales of €8.2 billion and booked orders of €9.9 billion in the 2019/20 fiscal year. Headquartered in France, Alstom is present in over 60 countries and employs 38,900 people.

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