



Real-time image analyzer using AI to be installed in the trains, for detection of events such as emergency or conflict conditions inside the vehicles

Challenge organisation

CAF is one of the leading providers of comprehensive mobility systems.

CAF offers comprehensive global rail solutions which, in addition to the supply of trains, includes viability studies, civil work, electrification, signalling, maintenance and system operation in some cases. Thanks to these integrated projects based on concession or turnkey models, customers are offered a single, global, specific solution, a solution that guarantees the integration and compatibility of all the systems.

Our products can be tailored to suit the specific requirements of each customer, providing safety, comfort and satisfaction to millions of users throughout the world.

See more at: www.caf.net

Full description

Passenger safety is a priority for mobility operators. That is why CAF, as one of the leading suppliers of transport systems, seeks to incorporate innovative solutions based on technologies such as artificial intelligence that allow foreseeing possible risk situations, such as erratic behaviour or suspicious abandoned items. Such solutions are already in demand in the market and will be increasingly implemented in public transport vehicles.

What we are looking for

We are looking for a supplier of an innovative solution (onboard IA processing HW + IA SW running on the processing HW) and capable of meeting the requirements described below:

SCOPE OF SUPPLY of the 'IA SOLUTION'

- Onboard IA processing HW.
- IA SW running on the processing HW.

Notes:

- 1) The onboard IP cameras will be provided and installed by CAF. The supplier would access all these camera streams through an Ethernet port of the IA processing HW.
- 2) CAF and the supplier would agree on the number and position of cameras to be provided by CAF so that the IA application can detect all the required events as reliably as possible.

The supplier of the equipment will be responsible for compliance with all aspects related to the equipment, including but not limited to the following:

- a) Design of the system (HW and SW).
- b) Manufacture and delivery of the onboard equipment as well as the associated wayside (HW or SW) service or maintenance tools.
- c) Responsibility against CAF on the correct operation of the system.
- d) Documentation:
 - a. Mechanical Drawings.
 - b. Technical Description.
 - c. Functional Description.
 - d. SW documents:
 - i. SW Requirements.
 - ii. SW Design.
 - iii. SW validation.
 - e. Quality documents.
 - f. Test and validation protocols:
 - i. Factory type and series testing.
 - ii. Type and routine testing at CAF.
 - iii. Type and routine testing on the track.
 - g. RAM documents.
 - h. Cybersecurity documents.
 - i. Manuals:
 - i. Operational Manuals.
 - ii. Maintenance manuals.
 - iii. Training manuals.
- e) Support:
 - a. Internal project support for CAF.
 - b. Support for meetings with CAF customer.
 - c. Support for tests.
 - d. Support for troubleshooting.
- f) Cybersecurity services (vulnerability detections and corrections).
- g) Training courses.
- h) 2 years guarantee.
- i) Spare parts and Special Tools.

What we offer

The selected company will become a strategic supplier on this kind of solutions, giving them access to business opportunities in connection with ongoing tenders.

Other

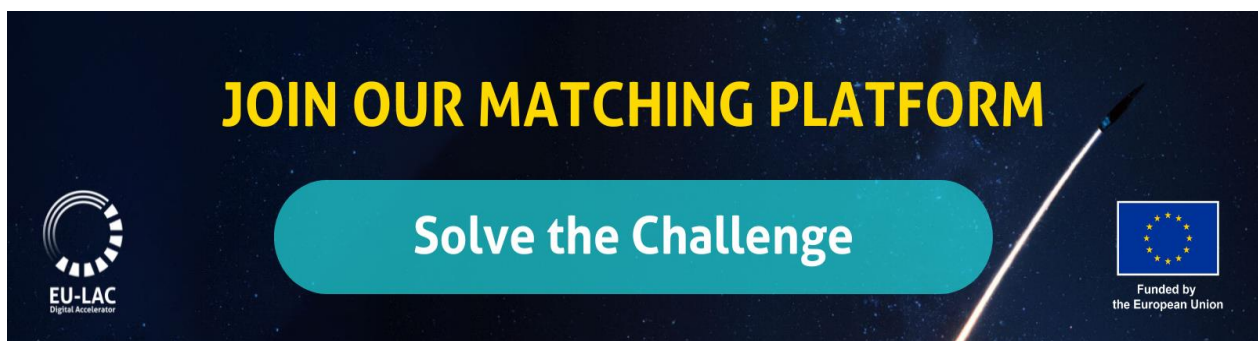
Opportunity area	Smart production
Looking for partners in	Latin America; Caribbean
Specific Areas	Railway
Technologies	Artificial Intelligence

This is a challenge identified by the EU-LAC Digital Accelerator team in the frame of the Call for Challenges. The mission is to connect challenges from corporates with solutions from startups to boost digital transformation in Europe, Latin America and the Caribbean. If you are interested to learn more about us, visit our [website](#).

If you are a startup with a digital solution willing to explore collaboration opportunities with this corporate, [join our matching platform](#) and **let the open innovation game start!**

If you are called by this challenge but have questions, do not hesitate to [contact us](#).

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Solve the Challenge

EU-LAC Digital Accelerator

Funded by the European Union