

## Technology Request

### Title:

PS FP7 - Automated and cost effective maintenance for railway (Ref: 09 ES 27F4 3FAS )

(Open)

### Abstract:

**An Andalusian engineering and quality control company (Spain) that works in the field of construction, both buildings and infrastructures (roads, railways, ports, airports and hydraulic works) is looking for entities for participating in a project whose purpose is the increase of goods transport by rail. They are looking for experts in industry maintenance, railway infrastructure operators, control and monitoring systems, and software developers for research and development activities.**

### Description:

The company activities are structured as follows: Civil and transport engineering, Geotechnical Engineering, Building, Construction Material Quality Control, Health and Safety Coordination, Construction Product Certification, Research, Technological Development and Innovation.

The project focuses on the automation and optimization of railway maintenance, in conventional and high speed lines, with the goal of minimizing the impact of maintenance operations on railway services, as well as to increase the capacity of the infrastructure and reduce the costs, time and resources required for the maintenance activities.

The main goals are: the analysis, the automation and intelligent inspection and control of current maintenance activities. Also is the optimized management of railway infrastructure subsystems.

They are looking for partners for research and development activities. They are also interested in entities for participating as project manager.

### Technical Specifications / Specific technical requirements of the request

This project is referred to the Topic: SST.2010.5.2.1. Automated and cost effective railway infrastructure maintenance, from the 7th Framework Program in the area of Transport.

Project proposal development stage: Proposal stage. They are looking for more partners for the consortium.

They are looking for experts in maintenance, control and monitoring systems, software developers, railway infrastructure operators.

### Current and Potential Domain of Application

Maintenance systems for railways.

### Other Profile Details

Organisation: Centro De Innovación Y  
Transferencia De Tecnología De  
Andalucía, S.A.U.

Network  
Partner: CESEAND

Country: Spain

Entry Date: Tue, November 03, 2009

Validation  
Date: Tue, November 03, 2009

Deadline: Tue, June 01, 2010

### List of Keywords

Technology

- ✦ Automation, Robotics Control Systems
- ✦ Applications for Transport and Logistics
- ✦ Maintenance Management System
- ✦ Process control and logistics

✦ Railway Transport

Market

**Further Information (Technical Details Concerning the Profile)**

The goals of this project are: -Analysis of current maintenance activities in order to identify those to be automated -Automated and intelligent inspection and monitoring of the infrastructure condition -Automated planning and decision making of preventive and corrective maintenance operations -Optimized and monitored execution of preventive and corrective maintenance operations -Optimized management of railway infrastructure subsystems to facilitate an automated and cost effective maintenance -Reduction of costs, time, resources and impact on rail services by the realization of automated and cost effective maintenance activities in conventional and high speed lines, with the goal of maximizing the capacity and availability of rail infrastructure and rolling stock.

**Organisation/Company**

Type: Industry  
Size: 250-500

**Collaboration Type**

✦ Joint further development

*Comments*

- Type of partner sought: industry or research organization.
- Specific area of activity of the partner: Railway infrastructure operators, maintenance companies, expert in automated control and monitoring systems, software developers.
- Task to be performed by the partner sought: To establish a cooperation agreement for research and development activities related to the project, specially focused on achieving the project goals as are the costs reduction, the improvement of maintenance quality and reduction of the impact on railway services.
- Size of partner sought: small, medium and large companies and research centers
- EU/International project experience: entities with experience as partner in EU/International projects are preferred even though it is not a necessary requirement.

**Targeted Countries**

ALL

**Contact Details**

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