

Ligamos destinos / Connecting destinations

# MAXBE - "Interoperable Monitoring, diagnosis and maintenance strategies for AXIe BEarings"

WP8 – Public Workshop Porto · 27<sup>th</sup> october 2015

Francisco Ganhão



# Session 3 ESTARREJA WAYSIDE SYSTEM

(IP, UPorto, Mermec, UoB, Krestos)

# Index

- 1. IP objectives
- 2. IP involvement in the Maxbe project/tasks
- 3. IP contributions
- 4. IP expectations for the future





# As an infrastructure manager our main goal is to provide a safe, reliable and high capacity infrastructure.

# 1. Infraestruturas de Portugal (IP) objectives

- Have information about rolling stock condition;
- Have the information about potential problems with rolling stock as soon as possible;
- Reliable tools that support the necessary measures in order to avoid accidents, damages and service disruptions.





# 2. IP involvement in the Maxbe project/tasks

#### WP 2: TECHNOLOGY ASSESSMENT AND SPECIFICATION

Task 2.8 - Identification of sites for testing

#### **WP 4: WAYSIDE SYSTEMS**

Task 4.4 - Remote centers and central database

#### WP 6: TESTING AND VALIDATION OF SYSTEMS

- Task 6.1 Installation of the systems at preselected rail networks sites and onboard rolling stock
- Task 6.2 Testing
- Task 6.3 Assessment of results and final system adjustments

#### **WP 9: DISSEMINATION**

- Task 9.1 Dissemination of the project results and tools
- Task 9.2 Web portal
- Task 9.3 Workshop
- Task 9.4 Exploitation plan of foreground knowledge
- Task 9.5 Technical recommendations



#### **WP 2: TECHNOLOGY ASSESSMENT AND SPECIFICATION**

- Task 2.8 Identification of sites for testing
  - Deliverable D2.9 Testing sites in Portugal Month 6



- Definition of requirements;
- Rules and conditions for installation of equipment;
- Assessment and choice of site;

Estarreja site – Linha do Norte, pk 291,950

#### **WP 4: WAYSIDE SYSTEMS**

- Task 4.4 Remote centers and central database
  - ➤ Integration and compatibilization of the developed system with the existing systems at Portuguese infrastructure, namely the ones in use in the traffic management centers.





#### WP 6: TESTING AND VALIDATION OF SYSTEMS

- Task 6.1 Installation of the systems at preselected rail networks sites and onboard rolling stock
- Task 6.2 Testing
- Task 6.3 Assessment of results and final system adjustments
- Build and supply all the technical infrastructures needed to the installation of the sensors and equipment (shelter, communications, power supply,...);
- Coordination of all the activities related to the access to the infrastructure;
- Establish and guarantee the safety measures in order to allow the realization of the works;
- Assessment of the installed equipment in order to guarantee the compatibility with infrastructure and rolling stock;
- Participation on the trials and data analysis.



#### **WP 9: DISSEMINATION**

- Task 9.1 Dissemination of the project results and tools
- Task 9.2 Web portal
- Task 9.3 Workshop
- Task 9.4 Exploitation plan of foreground knowledge
- Task 9.5 Technical recommendations

# 4. IP expectations for the future

- The next step:
  - Refinement and optimization of the work done in order to evolve into product;
  - Demonstration of the feasibility of these technologies as product.
- Creation of a new generation of systems, developed within a cooperation basis allowing the optimization of main requirement for infrastructure managers:
  - Increase safety levels;
  - Guarantee low Life Cycle Costs;
  - Give answer to infrastructure managers and operators of real problems.





# Thank you

francisco.ganhao@infraestruturasdeportugal.pt www.infraestruturasdeportugal.pt