

Welcome

- **ESIS TC 24**
- **25 October 2012**

Welcome

- **H & S Items**
 - Fire Alarm
 - Demonstrations
 - Stay within yellow lines
 - Beware working Laboratory
 - High Magnetic Field (no pacemakers)
 - Don't touch
 - Noisy
- **Thanks to ESIS TC24 for allowing WOLAXIM to be a presented at their meeting**

Today's agenda

- **Presentation of the Project**
- **Lunch**
- **Demonstration of some of the work**
- **Discussion /Feedback**
 - **Would you be interested in using these methods if fully developed ?**

WOLAXIM Structure

- **R4SME Project**
- **Research carried out by RTD's for SMEs**
- **Foreground IPR from Project belongs to SMEs**
- **End User partners provide requirement guidance**

Project Partners

- Applied Inspection – Service Inspection Co
active in rail sector
- CGM NDT Equipment
manufacturer
- Diatek Rail Equipment
manufacturer
- RCP Structural Reliability
Software supplier
- ATM Operator of Milan
Transport System
- Lucchini Axle and wheel
manufacturer

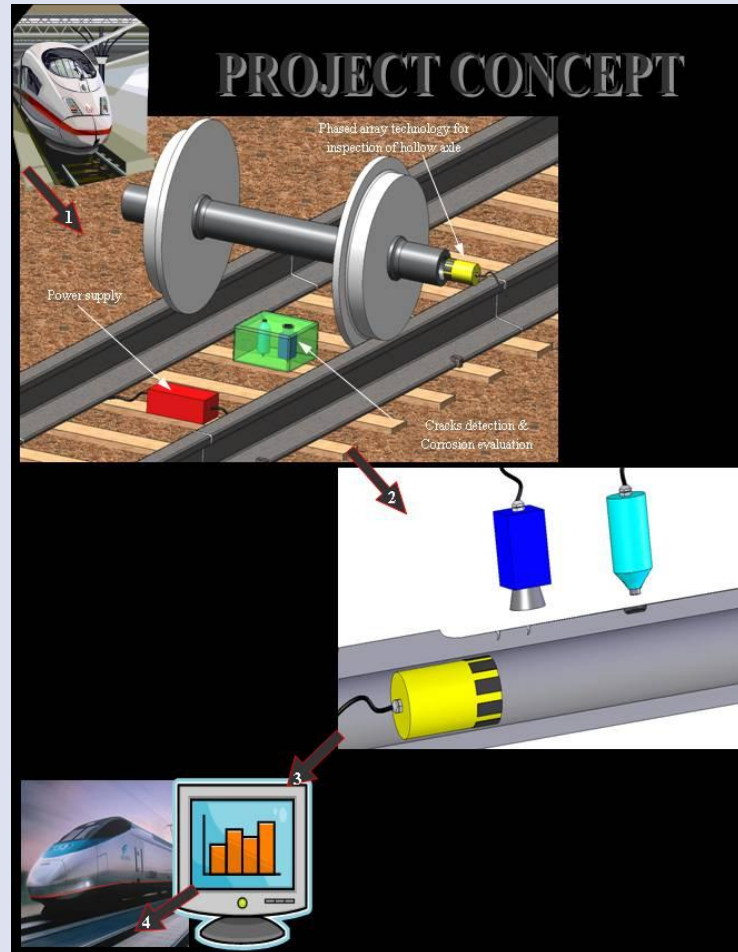
Project Partners (RTDs)

- **BAM** **Research and Testing Organisation
in Berlin**
- **Polimi** **Politecnico de Milano Technical
University of Milan**
- **TWI** **Research and Testing Organisation
in UK**

WOLAXIM Project – Overview

- In response to
- Effect of corrosion on Fatigue noticed by Polimi-follow on from RSSB project
- Corrosion Inspection issues raised by AI
- Issues raised in WIDEM regarding hollow axle inspection (discussions with BAM/Diatek)
- Euraxles call for “inspection of train without stopping”
- Influence of these factors on inspection intervals

Concept



OBJECTIVES

- **Development of New NDT Instruments/systems/information for the SMEs**
- **These include**
 - **System for inspection of axles of moving train**
 - **Instrument for corrosion assessment**
 - **System for improved hollow axle inspection**
 - **Software support for assessment of axle life from data (including fatigue corrosion effects)**

General Structure

- Specification (equipment and samples)
- Technical Developments
- Trials
- Dissemination/Exploitation

- Project completing December 2012