4.1 Final publishable summary report

➔ ***Executive Summary***

PM'n'IDEA Logo

➔ **Summary description of project context and objectives**

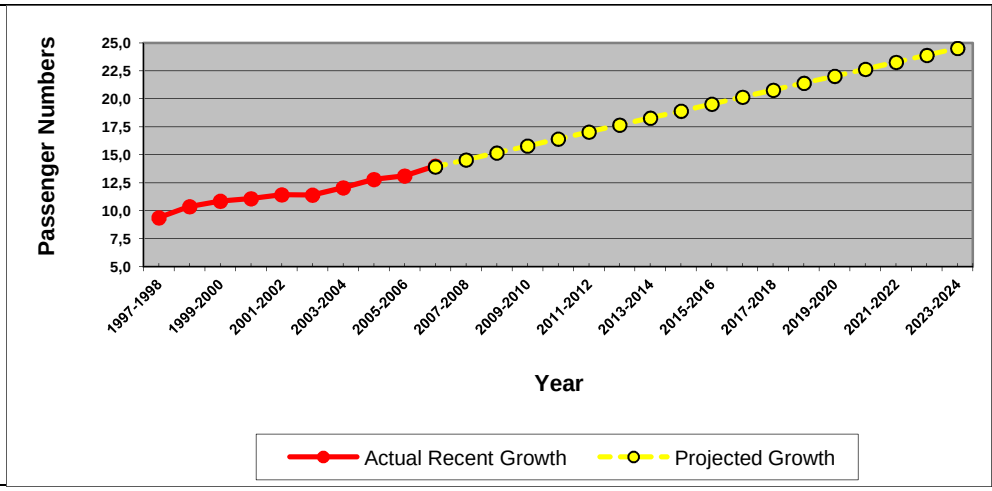


Figure 1: Recent and Projected Growth in Passenger numbers for a Tramway

➔ **Main S&T results/foregrounds**

Figure 2: Key Innovation 1 - Image acquistion system mounted on a tram

Figure 3: Key Innovation 2 - Example of Image Acquisition

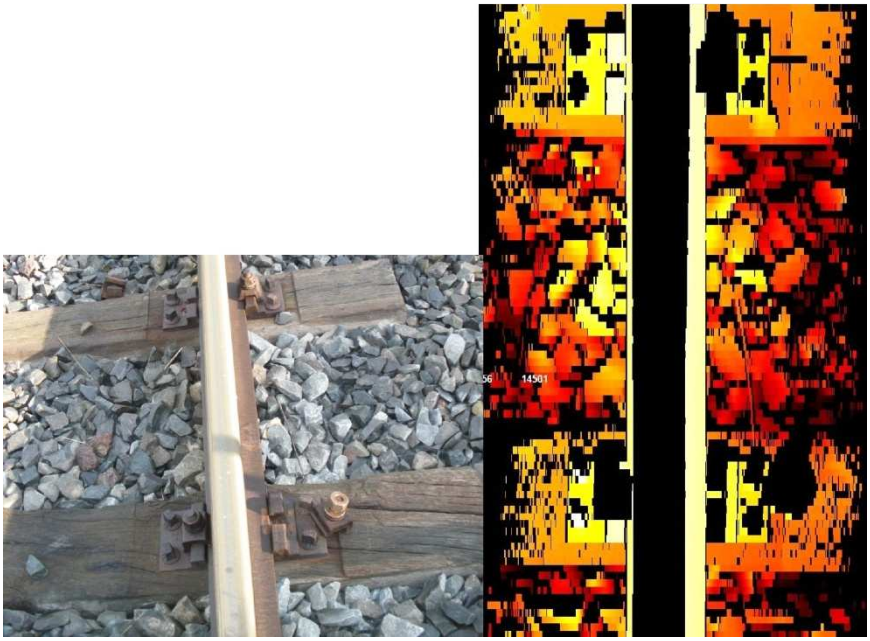


Figure 4: Key Innovation 2 - Comparison between photo and 3D image (colour gives depth)

Figure 5: Corroded rail foots

Figure 6: Key Innovation 3 - Trolley for mobile inspection

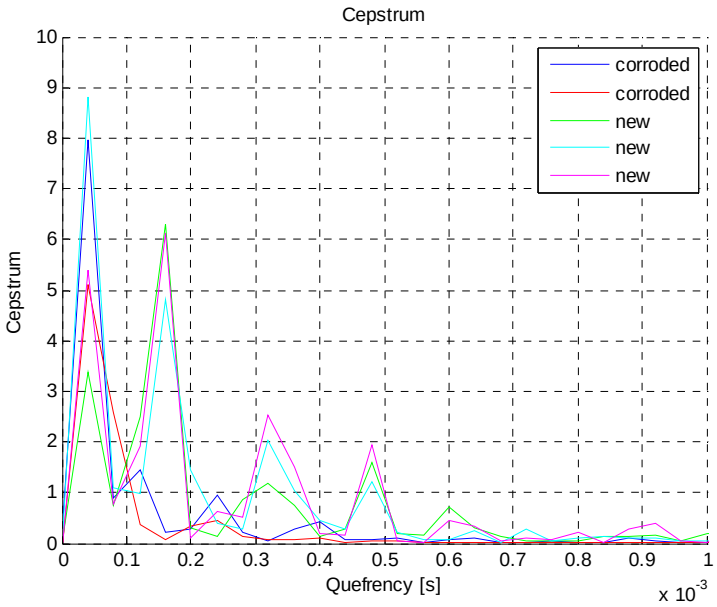


Figure 7: Key Innovation 3 - Analysis of the cepstrum

Figure 8: Key Innovation 4 - Easy integration of measuring equipment on vehicle

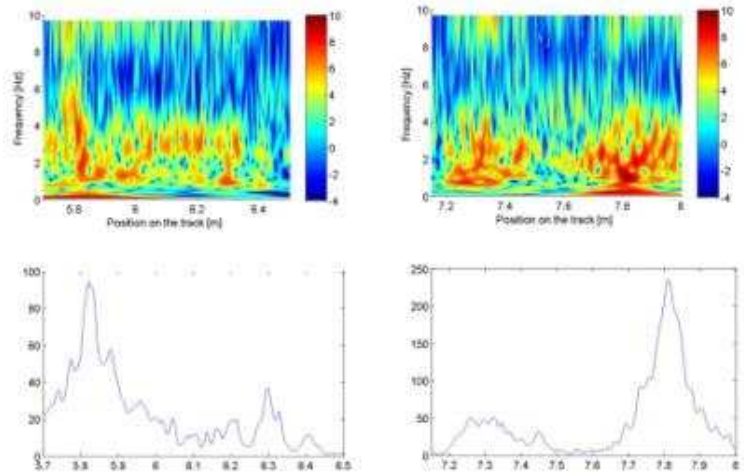
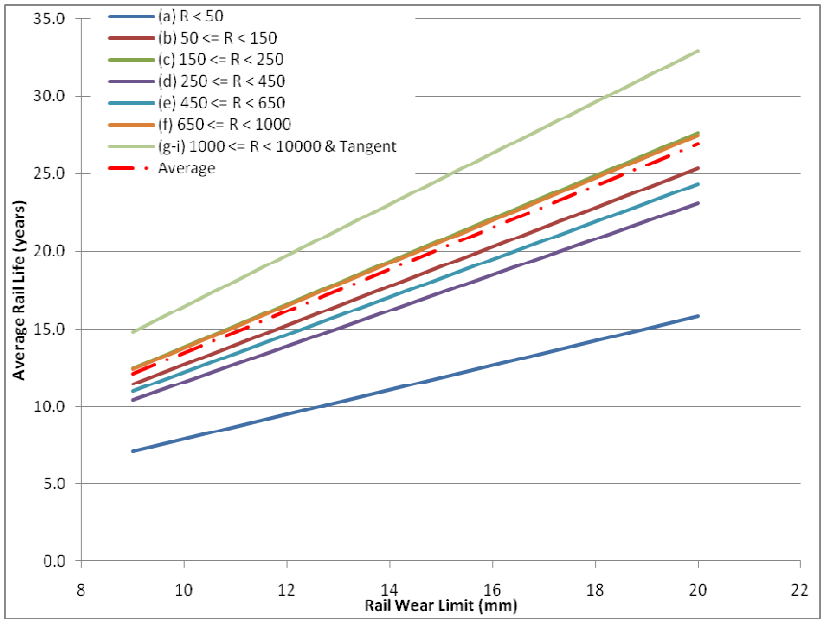


Figure 9: Key Innovation 4 - Car body lateral acceleration over the front bogie good section (left), bad section (right)



: Key Innovation 5 - Average Rail
Function of Acceptable Vertical
it

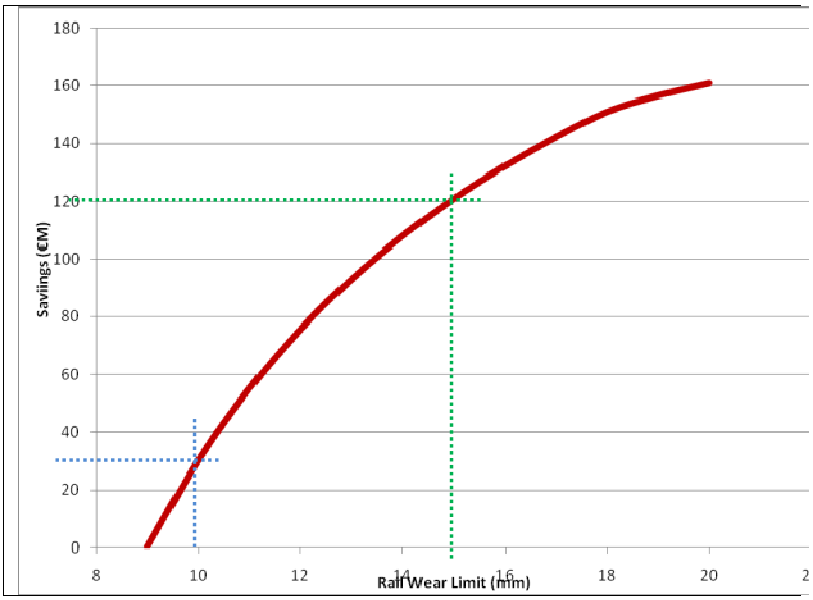


Figure 11: Key Innovation 5 - Financial Savings as a function of Wear Limit

Figure 12: Key Innovation 6 - Checking the dynamic response of a loose fishplate

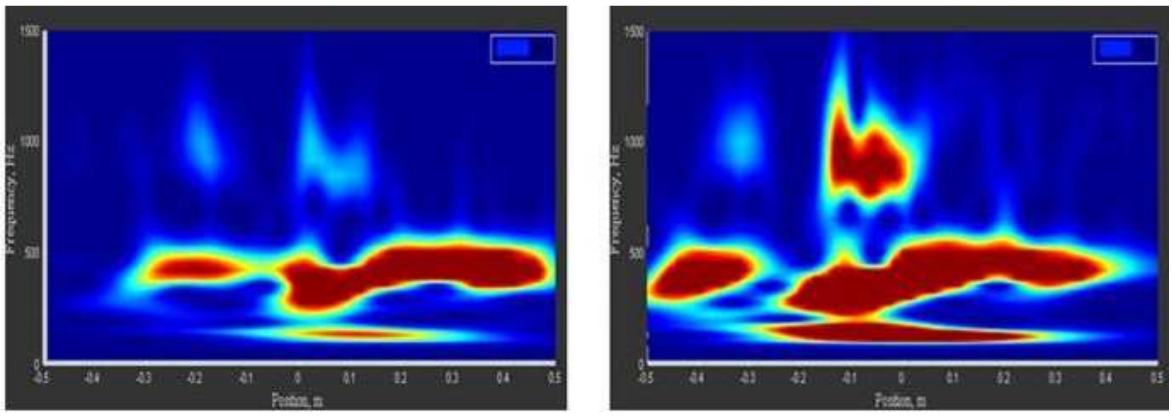


Figure 13: Key innovation 6 - Change in wavelet pattern as fishplate bolt loosens: LHS 150 kNm, RHS 270 kNm

➔ **The potential impact of the project and main dissemination activities and exploitation of results**

Main dissemination activities and exploitation of results

Figure 14&15: Workshop with TUIG in Sheffield (UK) - Demonstration of Key Innovations in Sheffield

Figure 16&17: PM'n'IDEA final General Assembly in Warsaw (Poland)

Figure 18&19: Exhibition of PM'n'IDEA Key Innovation 1 at TRA event (Athnes, Greece)