Contract No. 777564

INNOVATIVE RUNNING GEAR SOLUTIONS FOR NEW DEPENDABLE, SUSTAINABLE, INTELLIGENT AND COMFORTABLE RAIL VEHICLES

D5.5 Report on the project results/achievements for future Shift2Rail activities

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This project has received funding from Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement No 777564.

Dissemination Level		
PU	Public	
CO	Confidential, restricted under conditions set out in Model Grant Agreement	x
CI	Classified, information as referred to in Commission Decision 2001/844/EC	

Start date of project: 01/09/2017 Duration: 25 months

PUBLISHABLE SUMMARY

The development of a new generation of running gear is pivotal to the achievement of the ambitious goals set by Shift2Rail for future European trains, encompassing the substantial reduction of life cycle costs, improved reliability and energy efficiency, the reduction of noise emissions and of other externalities and the achievement of full interoperability of the rolling stock. The overall aim of the project RUN2Rail was to identify and develop the key methods and tools that are required to allow the design and manufacture of the next generation of running gear.

This document provides a description of the project results achieved over the duration of the project (i.e. between M1 and M25) and how those results will contribute to the objectives/activities set up in the Shift2Rail Multi Annual Action Plan. The aim of this deliverable is to support the transfer of the knowledge gathered in the RUN2Rail project to the Shift2Rail Joint Undertaking. The activities carried out in RUN2Rail serve as input for the work implemented in the Innovation Programme 1 of Shift2Rail.

The document is structured with respect to the project's four thematic Work Streams, namely:

- Innovative sensors & condition monitoring
- Optimised materials & manufacturing technologies
- Active suspensions & control technology
- Noise & Vibration

Each section explains the work carried out, the main results and conclusions achieved so far, as well as the contributions of the results to the Innovation Programme 1 of the Shift2Rail plan.