

## EXECUTIVE SUMMARY

Produced as an outcome of the IT2Rail “lighthouse project” of Shift2Rail (onwards S2R) Innovation Programme 4 (onwards IP4<sup>1</sup>) this report will summarise the Pilot final set-up and the outcomes of the presentation. It will trigger hand-over to S2R IP4 and the closure of the IT2Rail project.

It analyses and proposes some key issues to illustrate research evidence of the results reached during IT2Rail. In so doing, it describes key elements of a transportation eco-system based upon semantic technologies, which allow for general interconnectivity via the future so-called “Web of Transportation”.

As the final event was focused on the sharing of the outcomes reached by the project, this report will also include the information shared during the event, as well as the main points discussed and the final feedback from the End Users Experts. Therefore, this report has been prepared as a set of technological guidelines explaining the main novelties to join the “Web of Transportation”.

However, when figuring out the challenges faced by IT2Rail, it is important to note that even if many of these challenges are not new and are already being addressed in other sectors, such as health, there is a clear need for further research. The following research activities need to clarify some of the needs resulted by implementing in a limited environment the Interoperability Framework (onwards IF). In other words, technical solutions and specifications which are developed in IT2Rail are useful contributions. However they are not sufficient and several challenges need to be faced, e.g. a challenge for all actors is to build multimodal trust and to share attractiveness for commonly agreed specifications between the numerous travels stakeholders. While some of these questions are already addressed in several projects within the Shift2Rail IP4 work programme (figure 1) it seems clear that the creation and wide implementation of the so-called “Web of Transportation”, even if promising, it’s a long road to walk.

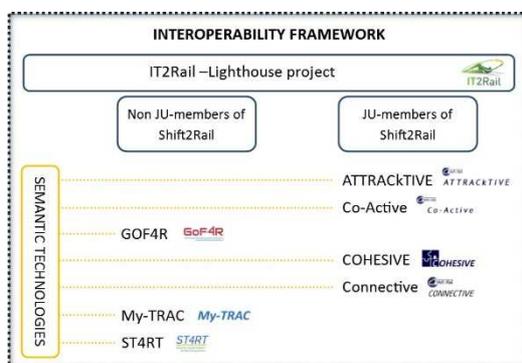


Figure 1 - Shift2Rail – IP4 projects (2017). Source: UITP.

<sup>1</sup> IT2Rail (H2020 – 2015-2017) is a so-called “Shift2Rail Lighthouse Project”, one of the projects which started the research programme of the Shift2Rail JU –Joint Undertaking- paving the way for the works of the ambitious [Multi Annual Action Plan \(MAAP, November 2015\)](#) of Shift2Rail. IT2Rail is dedicated to the “Innovation Programme 4” (IP4) of Shift2Rail, targeted at generating innovative ICT Passenger solutions for an attractive Railway.