

## 5GRAIL Public Deliverables

WP No	Del Rel. No	Title	Description	Lead Beneficiary	Due Date
WP1	D1.1	Test Plan	This document will define test conditions (i.e. test suites & test cases which will be conducted in a set of pilot tests - labs & field), test procedures and test purposes. This includes but is not limited to System, subsystems, building blocks and equipment under test, Test infrastructure, Test procedures, and Test plan (i.e. test configuration, test descriptions including essential requirements to be tested).	UIC	31 Oct 2021
WP1	D1.2	Test report conclusion from simulated/lab environments	This document will provide conclusions, observations and outcomes of performance simulations from the reports of tests achieved in simulated/lab environments (i.e. WP3 and WP4) to potentially amend or modify FRMCS V1 Specifications (i.e. missing, erroneous or ambiguous definitions) and to identify technical constraints related to implementation issues.	UIC	31 Oct 2022
WP1	D1.3	FRMCS Performance measurement methodology	This deliverable will provide a summary of results from the studies performed to elaborate a performance measurements methodology and will describe assessment of this methodology used during field test related activities. This document will contribute to the preparation of 5G FRMCS operational deployment in Europe, including for cross border conditions.	UIC	31 Oct 2022
WP1	D1.4	Test report conclusion from real-world environment	This document will provide conclusions, observations and outcomes of performance measurements from the reports of tests achieved in real-world environment (i.e. WP5) to potentially amend or modify FRMCS V1 Specifications (i.e. missing, erroneous or ambiguous definitions) and to identify technical constraints related to implementation issues.	UIC	30 Apr 2023
WP2	D2.1	TOBA Architecture Report	This deliverable will provide the conclusions on the final architecture defined for the TOBA ecosystem, including physical, protocol and application interfaces with the various on-board sub-systems.	KONTRON	30 Apr 2021
WP2	D2.2	TOBA Integration Report	This deliverable will detail the conditions of integration for the full TOBA ecosystem, including the alignment of developments between the various elements, the dependencies on each sub-system and the objectives in terms of supported overall functionalities, as well as conflict resolutions scenarios when necessary.	KONTRON	31 Oct 2021
WP2	D2.3	Delivery of TOBA Prototypes, 5G radio module and application prototypes	This deliverable will provide a set of TOBA prototypes including 5G 900 Mhz and 1900 Mhz radio modules as well as a set of prototypes applications supporting the OBapp interface on the TOBA On-Board and aligned with 5G architecture requirements on the trackside which will be then available for lab and field test related activities.	KONTRON	30 Apr 2023
WP2	D2.4	Test Report related to integration of applications within TOBA	This deliverable will provide a report which will outline the different work streams performed in WP2 and describe the individual results and outcomes per task. A summary and assessment of the results will be created in the light of the overall goals of the project and the specific targets of WP2. It will also detail the role and interaction of applications within the prototypes. Furthermore it will capture key findings and considerations to be taken into account for following lab and field test related activities and potential feedback to WP1.	KONTRON	30 Apr 2023
WP3	D3.1	First Lab Integration and Architecture Description	This document will provide a full description of environmental conditions for the achievement of tests, including integration considerations and technical architecture detailing all sub-systems.	NOKIA-DE	31 Aug 2021
WP3	D3.2	First Lab Test Setup Report	This report outlines the lab setup, integration and verification of radio compatibility of 5G radio modules and other public band modules depending on spectrum. Based on WP1 definition, network functionality for GSM-R – FRMCS interworking will be simulated.	NOKIA-DE	31 Dec 2021
WP3	D3.3	First Lab Test Report	The lab testing reports outlines and details the different lab test phases for each application. It documents the work done and details the achieved results for the integration of prototypes into the 5G infrastructure and the validation of the communication capabilities in the lab environment in line with the lab test strategy document elaborated in WP1. It covers Voice, TCMS, ETCS, CCTV/Video test results, as well as cross-border testing.	NOKIA-DE	31 Oct 2022
WP4	D4.1	Second Lab Integration and Architecture Report	This document will provide a full description of environmental conditions for the achievement of tests, including integration considerations and technical architecture detailing all sub-systems.	KONTRON	31 Aug 2021
WP4	D4.2	Second Lab Test Setup Report	This report outlines the lab setup and details the different lab test phases for each application and TOBA based on WP1 definition. It documents the work done and details the achieved results for the integration of prototypes into the 5G infrastructure and the validation of the communication capabilities in the lab environment in line with the lab test strategy document elaborated in WP1.	KONTRON	31 Dec 2021
WP4	D4.3	Second Lab Test Report	This document will provide a test report related to ETCS and ATO applications, PIS application as well as Voice application limited set as defined within WP1. It will provide as well a result of the tests related to the use cases described in the objectives of this WP.	KONTRON	31 Oct 2022
WP5	D5.1	Test Results on Field Trial on FRMCS Functions and Performance	This deliverable from Task 5.2 will provide a comprehensive description of test execution, an exhaustive list of tests performed and the results obtained during the execution of test plan.	DBN	28 Feb 2023
WP5	D5.2	Test results on Field Trial for Cross-border Scenario	This deliverable from Task 5.3 will provide an comprehensive description of test execution, an exhaustive list of tests performed and the results obtained during the execution of test plan.	SNCF-R	28 Feb 2023

WP5	D5.3	Conclusion Report on 5G FRMCS Field Trials	This deliverable from Task 5.1 will provide a summary which will outline results of the different field tests performed in Task 5.2 and 5.3 and will elaborate conclusion on the outcomes of the test. It will highlight the conclusions related to border crossing for preparation of introduction of FRMCS in Europe. Furthermore it will capture key findings and considerations to be taken into account for future experimentation and deployment of 5G as an enabler for the digitalisation in rail sector.	DBN	30 Apr 2023
WP6	D6.1	Scenarios for Rail and road communication system coexistence	Definition of some representative cases for coexistence between Rail and Automotive communication systems, identification of a set of cases for the simulation work foreseen in task 6.3. It is foreseen that the task will deliver a comprehensive description of scenarios and cases, with definition of involved applications, technologies, etc.	UNI. EIFFEL	31 Jul 2021
WP6	D6.2	Implementation of the selected scenarios, Analysis and Conclusion	This deliverable will describe the implementation of the different chosen scenario, the parameters for the simulations and the KPI chosen for the analysis. It will give the results analysis and will draw the conclusion for coexistence between road and rail systems.	DTU	30 Apr 2023
WP7	D7.1	Communication, dissemination and exploitation plan (CDEP) for the project	This report will outline the plan for all the communication, dissemination and exploitation activities envisaged during the life of the project.	UNIFE	30 Apr 2021
WP7	D7.2	Data Management Plan	A DMP for the project including requirements on protection of personal data that will be initially produced at M6 and updated at M15 and M30 (updates included in the Periodic Report and Final Report linked with the work of the IPR).	UIC	30 Apr 2021
WP7	D7.3	Dissemination, communication and exploitation activity report.	Report summarising all communication, dissemination and exploitation activities and their impact. It will include a report on the Advisory Board activities.	UNIFE	30 Apr 2023
WP8	D8.1	Project Management and Quality Assurance Plan	This document will set management and quality assurance procedures which will be implemented for the successful delivery of 5GRAIL. This will include Description of all adopted procedures for project management and quality assurance; e.g. guidelines, templates, rules for quality check of deliverables, etc. to guarantee the running of a quality assurance process all along the project.	UIC	31 Dec 2020