



Knowledge and data management and protection plan

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Short abstract: Future Sky Safety is a Joint Research Programme (JRP) on Safety, initiated by EREA, the association of European Research Establishments in Aeronautics. The Programme contains two streams of activities: 1) coordination of the aviation safety research programmes of the EREA institutes and 2) collaborative research projects on European aviation safety priorities. This deliverable is produced by Project P2 “Dissemination, exploitation and communication”.

The main objective of this deliverable is to define and elaborate the approach and strategy for the management and protection of the knowledge and data generated by the Future Sky Safety (FSS) Programme.

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EXECUTIVE SUMMARY

Problem Area

Dissemination, exploitation and communication of knowledge are a key ingredient for any successful research project. Future Sky Safety Project P2 is specifically dedicated to dissemination, exploitation and communication. P2 ensures that all aspects of dissemination are efficiently and effectively managed, aiming at communicating in a consistent and distinctive way, while engaging and involving different categories of users, stakeholders and other audiences. In this context, an appropriate approach for knowledge and data management and protection¹ – consistent with the Grant Agreement and Consortium Agreement – needs to be developed and implemented in the Programme.

Description of Work

This deliverable documents an approach for knowledge and data management and protection in Future Sky Safety. Firstly, the EU view and consortium arrangements on management and protection of Intellectual Property Rights (IPR) are summarised. This includes all the applicable rules for the management and protection of IPR in the Programme. Next, a process for capturing of Programme research results is described. This starts with the recognition of the products and the intellectual property ownership, and continues with properly mapping the Programme results with respect to the needs of the aviation community, as e.g. reflected in the ACARE SRIA and FlightPath 2050 safety goals.

Future Sky Safety (FSS) intends to produce innovation in a number of areas and it is necessary to clarify how the generated knowledge (including products and/or other research results) will be managed, particularly in terms of achieving the desired outcome, plus recording and measurement of generated innovations. In order to do so, an innovation record of all innovation activities resulting from FSS should be maintained, and should be made available for a (potential) post Programme audit.

The EU requests that certain results of the Programme, e.g. peer-reviewed scientific publications, are made freely available. This is referred to as the notion of Open Access. The reasons behind this Open Access policy are explained, and the process to be followed to comply with it is outlined.

Future Sky Safety develops and maintains three main Programme repositories: the public website (at <http://www.futuresky-safety.eu>), the restricted programme portal for consortium partners (based on EMDESK), and an EREA restricted repository for exchange of safety information. These repositories are introduced, and key aspects related to ICT security and protection of data/information highlighted.

¹ Knowledge management may be defined as process of capturing, developing, sharing, and effectively using knowledge. It refers to an approach to achieving objectives by making the best use of knowledge.

Results & Conclusions

Management and protection of Intellectual Property Rights (IPR)

European Commission Regulation 1290/2013 lays down rules for participation and dissemination in Horizon 2020. This includes rules on the management and protection of IPR, which largely refers to rules to be set up in a Grant Agreement. The EU IPR help desk at <https://www.iprhelppdesk.eu/> offers support on IP and IPR matters to beneficiaries of EU funded research projects. At <https://www.iprhelppdesk.eu/library/fact-sheets>, there are several useful fact-sheets that provide background information on the vision of the EU regarding management and protection of IPR.

Process for capturing research results

Capturing research results starts with the recognition of the products and the intellectual property ownership. The products are identified and described in the Project Plans for the different Technical Projects (P3, P4, P5, P6, P7) in the Programme. Another dimension of 'capturing of research results' is related to properly mapping the project results with respect to the needs of the aviation community, as e.g. reflected in the ACARE SRIA and FlightPath 2050 safety goals; this will be ensured by mapping the results on the ACARE SRIA and assessing results adopting the same approach recently developed by the OPTICS project to support ACARE WG4 in identifying gaps and bottlenecks in the area of safety. OPTICS is a Coordination and Support Action (CSA) funded by the European Commission that aims to provide oversight of progress in Research and Innovation (R&I) targeting aviation safety improvement in relation to the Flightpath 2050 goals. OPTICS aims to provide this oversight by implementing a sustainable process that supports stakeholders with strategic recommendations and a comprehensive overview of the aviation safety research landscape. Future Sky Safety will cooperate with OPTICS to ensure co-ordination and synergies for the assessment of FSS results and thus properly mapping them with respect to the needs and in identifying gaps and bottlenecks in the area of safety.

Process for innovation management

Innovation is about creating value, finding imaginative solutions to unmet needs. FSS should produce innovation in a number of areas. The European IPR Helpdesk presents tools, tips and practices to convert the knowledge resulting from publicly funded research activities into socio-economic benefits. In view of this, the idea is to create an Innovation Record for Future Sky Safety. This record will incorporate a measure of innovation to support analysis of Programme outcome, and may be used further to assess whether or not certain needs in safety are met, and to decide whether or not to continue with the development of certain innovations and products.

Potential open access to Programme results

Open access refers to the practice of providing on-line access to scientific information that is free of charge to the end-user and that is re-usable. The requirements on open access to publications are

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contained in the Grant Agreement, which states that each beneficiary must ensure open access to all peer-reviewed scientific publications relating to its results. The EC provides guidelines on open access to scientific publications. Guidance for authors on how to comply with Open Access policies is provided.

Applicability

This knowledge and data management and protection plan applies to the Future Sky Safety Programme as a whole. In particular, the plan provides the basic principles for management and protection of IPR, capturing of Programme research results, processes for innovation management (including creating and maintaining an Innovation Record of products, and potential open access to Programme results).