

DATAPP Project deliverables list

Project deliverables – overview of the contents and main topics

Your safety is our mission.

Case Studies

The DATAPP project focuses its research on three different aviation fields, structured and particularised each on a Case Study

CS3 Flight training data for EBT and CBTA



CS4 Digital fuel management



CS5 Flight data models for safety



Publicly available deliverables and results on the project website

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- D-1.1 - Review of Existing Literature and Identification of Digital Solutions

Task 1

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- D-2.3 - Complementary economic impact assessment

Task 2

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- D-3.3 - Identification of best practice and guidance material needs
 - D-3.3.1 Standardised metrics and methods for instructor concordance assurance
 - D-3.3.2 Untapped benefit of fuel reduction schemes - Reviewing the NPA-2016-06(A) economic impact assessment
 - D-3.3.3 Recommendations on assurance framework for analytical development and approval of fuel schemes
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 - D-3.3.5 Development of industry-agreed FDM algorithms and logics

Task 3

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Additional materials

- Public events' presentations
 - Webinars' presentations
 - Workshops' presentations
 - Economic impact assessment validation presentations
 - Final dissemination event presentation

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CS3 Flight training data for EBT and CBTA



CS4 Digital fuel management



CS5 Flight data models for safety



D-1.1 – Review of Existing Literature and Identification of Digital Solutions

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Main topics

Public deliverable

- Overview of each of the Case Studies of the project, focusing on:
 - Background and context based on the reviewed literature
 - Current regulatory framework
 - Main digital capabilities and solutions

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D-2.1 – Development of case studies

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Main topics

Public deliverable

- **Presentation of the complete development of the 3 case studies, covering:**
 - **Executive summary** for each case study
 - **Steps taken to develop the case studies**, with the stakeholder consultation as the main input
 - **Analysis of the defined use cases**, including:
 - **Working process activities**
 - **Identified limitations**
 - **Proposed solutions**
 - **Defined solution packages**
 - **Assessment of the solution packages' potential impact**

D-2.2 – Report on the stakeholder workshops

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Main topics

Public deliverable

- Describes the preparation, content and results of the webinars and workshops, including:
 - Overview of the stakeholder consultation process
 - Analyses of the webinars attendance and the feedback collected through the questionnaires
 - Summary of the workshops' objectives, attendance and collected feedback through the sessions' live surveys
 - Conclusions on the feedback collected and how has been incorporated
 - Annexes gathering the supporting materials for the webinars and workshops, the questionnaires results and live surveys replies

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D-2.3 – Complementary economic impact assessment

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Main topics

Public deliverable

- **In-depth economic impact assessment focusing on the potential effects of the implementation of the proposed regulatory related solutions:**
 - **Overview of the performed economic impact assessment**
 - **Initial tables containing a summarised version of the complete assessment**
 - **Technical feasibility assessment covering the different solutions included in the economic impact which address a technological & data related limitation**
 - **Annexes including the complete economic impact assessment for each respective Case Study**

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D-3.1 – Identification of regulatory materials, and standards modification

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Main topics

Public deliverable

- **Overview of the current regulatory framework of each of the Case Studies under the scope of the project, including:**
 - **Methodology for conducting the review of the regulatory related solutions proposed by DATAPP project against the current EASA requirements, AMC and GM as well as other relevant requirements, standards and documents**
 - **Summary of the review of the requirements, AMC and GM against each case study and key findings**
 - **In-depth review of the requirements, AMC and GM for each Case Study**

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D-3.2 – Roadmap Development

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Main topics

Public deliverable

- Overview of recommendations to help support the delivery of the proposed solutions, including:
 - Identification of **detailed rationale of the main areas** associated with each case study
 - Identification of **detailed benefits of the main areas** associated with each case study
 - Identification of **detailed risks of the main areas** associated with each case study

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D-3.3 – Identification of best practice and guidance material needs

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- **Overview of the current regulatory framework of each of the Case Studies proposed solutions that have been identified as non-regulatory:**
 - **Identification of guidance material needs** driven by the non-regulatory solutions proposed by the project
 - In-depth review of the current requirements, AMC and GM that would be supported and complemented by **the non-regulatory solutions** proposed by the project in each case study

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D-3.3.1 Standardised metrics and methods for instructor concordance assurance

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Main topics

Public deliverable

- **Proposals for amending the EBT Manual and give advice on best practices for the management of EBT training data, covering:**
 - **Overview** of the developed training material
 - **Type Rating and Synthetic Flight Instructor Training**
 - **EBT Programme suitability**
 - **EBT Instructor Training**
 - **EBT Instructor Training**
 - **Concordance**, including grading system, agreement and alignment, and ICAP methods
 - **Data Protection Recommendations**

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D-3.3.2 Untapped benefit of fuel reduction schemes - Reviewing the NPA-2016-06(A) economic impact assessment

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Main topics

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- **Update of the NPA-2016-06(A) to estimate the current reality regarding fuel reductions implemented through fuel schemes, covering:**
 - **Rationale and objectives** of the study
 - **Methodology** for performing the study
 - **Main potential benefits to be achieved** through the implementation of the fuel schemes
 - **Mechanisms that could be used to activate fuel reductions**
 - **Annexes** including tables with the detail of the fuel consumption and fuel burn estimates for long-haul and short-haul flights

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D-3.3.3 Recommendations on assurance framework for analytical development and approval of fuel schemes

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 - Rationale and objectives of the document
 - Establishing safety baseline for individual schemes, including:
 - Selection of SPIs
 - Equivalent level of safety & safety baseline definition, alerts & targets
 - Initial Hazard identification & Safety Risk Assessment
 - AI/ML Trustworthiness framework

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D-3.3.4 Training requirements for FDM analysts

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Public deliverable

- **Recommendations for standardised training requirements for FDM analysts**
 - **Rationale and objectives** of the document
 - **Overview of the proposed solution**, including discussion on **potential approaches for training requirements for FDM team members**
 - Proposal of **general topics for competency-based training framework for FDM analysts**
 - Proposal of **general topics for designing relevant training programmes** as per the proposed competency-based training framework

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D-3.3.5 Development of industry-agreed FDM algorithms and logics

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Main topics

Public deliverable

- **Recommendations to promote industry-agreed FDM algorithms**
 - **Rationale and objectives** of the document
 - **Overview of the proposed solution**, including discussion on **potential approaches to favour development of industry-agreed standardised FDM event definitions**
 - Annexes providing illustrative example of FDM event definition card and high-level considerations for minimum representative in collaborative analytics of FDM data

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