



UAV safe in the air –

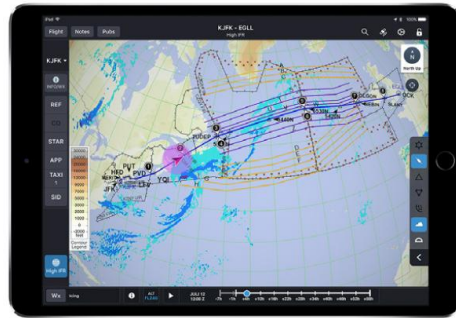
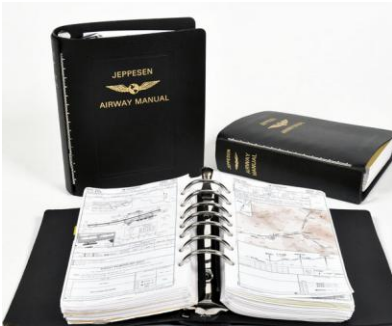
How an advanced intelligent geospatial data processing enables safe and efficient autonomous UAV operations

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Introduction



- Jeppesen is part of the Boeing company
- Core strengths are a high awareness regarding data safety, completeness of data, data dependencies as well as the impact of data changes
- Main products are Jeppesen Charts and NavData supporting all mission types and flight phases
- Nowadays operations are digital supported by various products (paper to digital)



- UAV safe in the air means innovation from the core business and beyond nowadays airline operations

UAV Mail Challenge



- Enable **regular UAS operations** delivering our in-house mail from the Jeppesen main building to the Digital Solutions & Analytics Lab to understand customer **pain points**



- First automated BVLOS flight in controlled airspace D-CTR in Germany
- Regular operations in urban environment
- Risk based flight planning and contingency management
- Close collaboration with German ATC for special clearances and local aviation authority for special approval



UAV specific (nav) data



- Identification of UAV data needs
- Gap analysis between the data which is used in manned aviation
- Development of new data solutions and services to fill the gap
- Identification of DO-200b requirements
 - Resolution → high resolution vs. technical feasibility?
 - Accuracy → technical feasibility & data management?
 - Timeliness → identification of significant changes?
 - Integrity → real time data processing & QA?
 - Format → real time data transmission?
 - Completeness → use case specific?
 - Traceability → new data sources and processes?



Innovation solution network



The future around a significantly shifted airborne logistics and transportation system of the industry will be probable and surprising:

A much higher degree of data intelligence and reliability will be common themes for enabling a safe aerial transportation system

- Jeppesen's Aviation Innovation Solution Network provides an established pool of professionals for your access to an external industry coverage, that can help you in distinguishing trends from hypes and in parallel, to foster a safety philosophy of a responsibility for the travelling and logistics community
- Innovation Management competencies, deep aeronautical know-how with fresh perspectives and a fast-track accessibility of special skills, education and experiences
- We can provide access to early adopters, research institutions and hidden champions and we support with expertise provision for critical business and safety design decisions together with the professionals in the regulatory bodies

Innovation solution network

- We provide systemic and transparent power mappings on influential driving forces - including the important sociopolitical ones
- This Aviation Innovation Solution Network provides curated Change Management Best Practices for our branch and can provide guidance and platforms for the digital transformation for the future value chain

For further information please send us an email to innosolnet@jeppesen.com

