Digital aviation

Report for Ministry of Transport and Communications (Liikenne- ja Viestintäministeriö)

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Introduction

Representing the traditional established traffic aviation, challenged by the emerging modes of air transportation through the digitalization process, we assume the necessity to understand the potential competition from the emerging modes as well as define the possibility of cooperation with aforementioned types of air transportation.

Definition of digital aviation

“For the purposes of this review, aviation that challenges traditional established traffic aviation (commercial passenger and goods transport of scheduled services) can be considered “Digital aviation”
Important aspects of correlation

between traditional line carriers and new modes of digital aviation

Operational

Ecological

Economical
Operational aspects
Econmoical aspects
Ecological aspects
Operational aspects

Constant improvement of ATC services

Clear airspace separation

Development of TCAS systems

Risk mitigation of unintentional and intentional (malevolent) interference with airport infrastructure and air vehicles

Necessity of strong legal framework
Operational aspects
Economic aspects
Ecological aspects
Economical aspects

- Complementation of specialized solutions to the existing ones for better transportation
- Cargo transportation last mile solutions
- Passenger transportation last mile solutions

Complementation rather than competition
Operational aspects
Economic aspects
Ecological aspects
Ecological aspects

- Commitment of traditional and evolving means of transportation to the reduction of the negative impact on the climate
- Preference to the modes of mass air transportation instead of the trend for vehicles personalization
- Consistent implementation of schemes like CORSIA
Conclusion

„...We consider digitalization of aviation defined as a way of development of aviation that challenges the traditional ways of air transportation as not competition but complementation of the product currently provided to passengers by line carriers and stress the importance of establishing of correct ecological policy and legal framework for its development and implementation...“
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