



Report
for

Ministry of Transport and Communications
(Liikenne- ja Viestintäministeriö)

Digital aviation

Tallinn – Helsinki 22.September 2020

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 aspects
- ✦ Econmoical aspects
- ✦ Ecological aspects

Operational aspects

Development
of TCAS
systems

Constant
improvement
of ATC
services

Clear airspace
separation

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

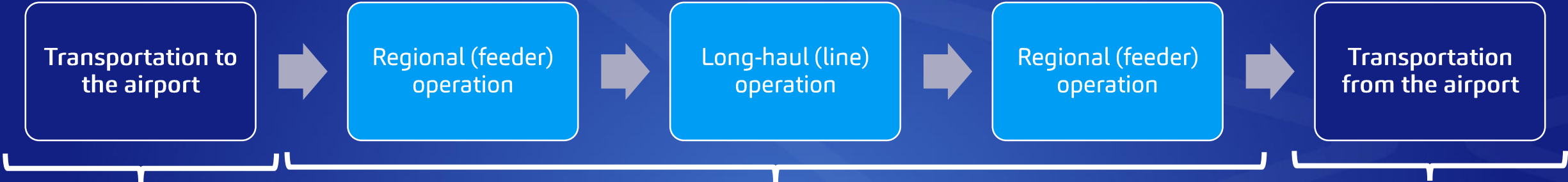
Necessity of strong legal framework



- ✦ Operational aspects
- ✦ Econmoical aspects
- ✦ Ecological aspects

Economical aspects

Passengers operations basic flow



Potential for digital aviation

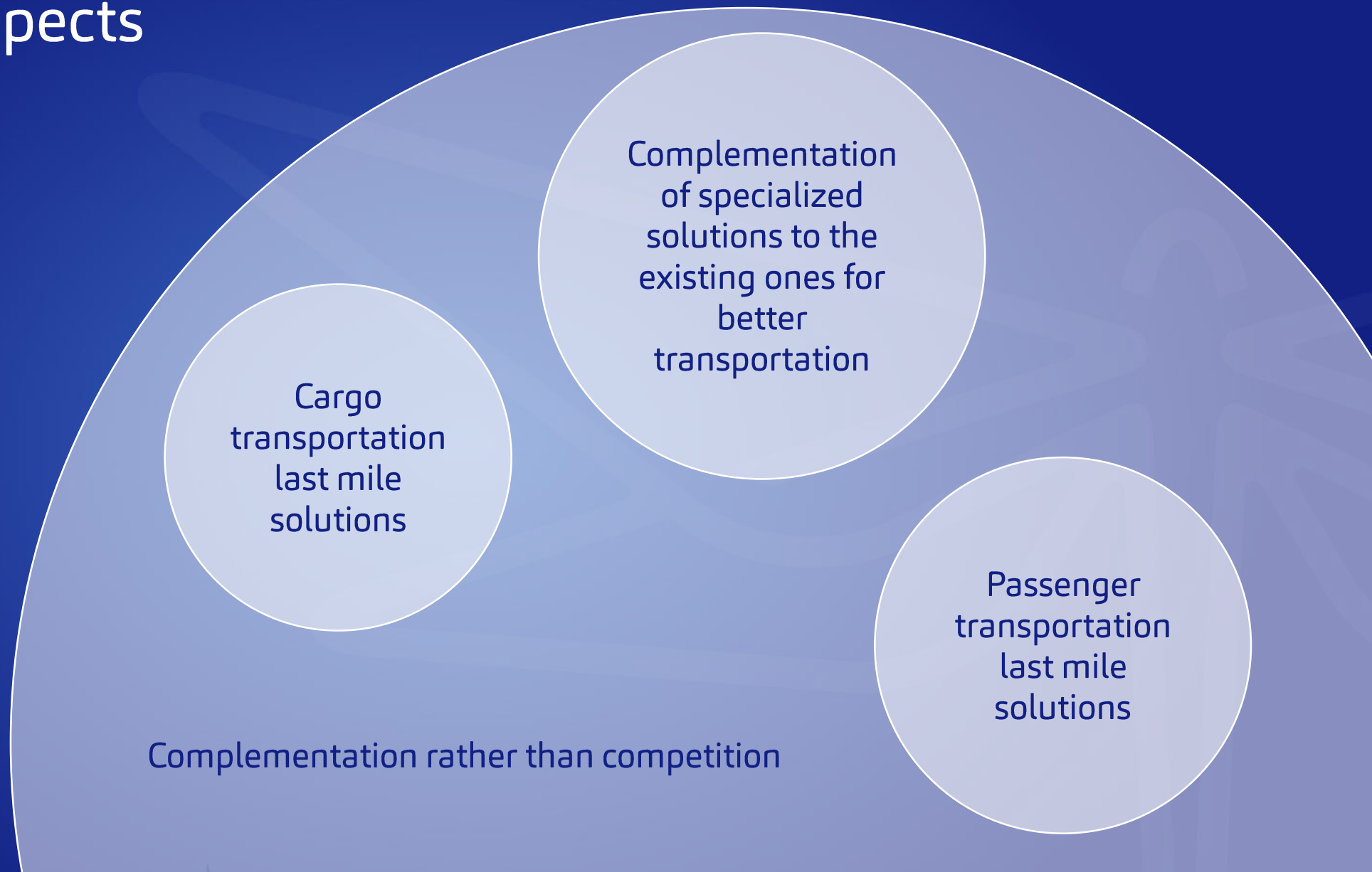
Existing processes in passenger and cargo air transportation

Potential for digital aviation



Cargo operations basic flow

Economical aspects



- ✦ Operational aspects
- ✦ Econmoical aspects
- ✦ Ecological aspects

Ecological aspects

Consistent
implementation
of schemes
like CORSIA

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

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..”



Feel free to contact us:

Deepak Ahluwalia
Chief Commercial Officer
Email: deepak@nordica.ee
Phone: +372 53001197

Viktor Saganenko
Network planning analyst
Email: viktor.saganenko@nordica.ee
Phone: +372 56084781