ILA 22.5.2014

Boarding Efficiency – Important to achieve Flightpath 2050 Goals

Johannes Reichmuth

DLR Institute of Air Transport and Airport Research

Knowledge for Tomorrow



Flightpath 2050 Europe's Vision for Aviation

Report of the High Level Group on Aviation Research An air traffic management system is in place that provides a range of services to handle at least 25 million flights a year of all types of vehicle, including unmanned and autonomous systems that are integrated into and interoperable with the overall air transport system with 24-hour efficient operation of airports. European air space is used flexibly to facilitate reduced environmental impact from aircraft operations.



Flightpath 2050 Europe's Vision for Aviation

Report of the High Level Group on Aviation Research - A coherent ground infrastructure is developed including: airports, vertiports and heliports with the relevant servicing and connecting facilities, also to other modes.





Flightpath 2050 Europe's Vision for Aviation

Report of the High Level Group on Aviation Research European citizens are able to make informed mobility choices and have affordable access to one another, taking into account: economy, speed, and level of service (which can be tailored to the individual customer). Continuous, secure and robust high-bandwidth communications are provided for added-value customer applications.



Flightpath 2050 Europe's Vision for Aviation

Report of the High Level Group on Aviation Research 90% of travellers within Europe are able to complete their journey, door-to-door within 4 hours. Passengers and freight are able to transfer seamlessly between transport modes to reach the final destination smoothly, predictably and on-time.





Flightpath 2050 Europe's Vision for Aviation

Report of the High Level Group on Aviation Research

Flights arrive within 1 minute of the planned arrival time regardless of weather conditions. The transport system is resilient against disruptive events and is capable of automatically and dynamically reconfiguring the journey within the network to meet the needs of the traveller if disruption occurs. Special mission flights can be completed in the majority of weather, atmospheric conditions and operational environments.



- Overall, the European air transport system has less than one accident per ten million commercial aircraft flights.
- Weather and other hazards from the environment are precisely evaluated and risks are properly mitigated.
- The European air transport system operates seamlessly through interoperable and networked systems allowing manned and unmanned air vehicles to safely operate in the same airspace.
- Efficient boarding and security measures allow seamless security for global travel, with minimum passenger and cargo impact. Passengers and cargo pass through security controls without intrusion.
- Air vehicles are resilient by design to current and predicted on-board and on-the-ground security threat evolution, internally and externally to the aircraft.
- The air transport system has a fully secured global high bandwidth data network, hardened and resilient by design to cyber-attacks.

EUR 098 EN

POLICY

