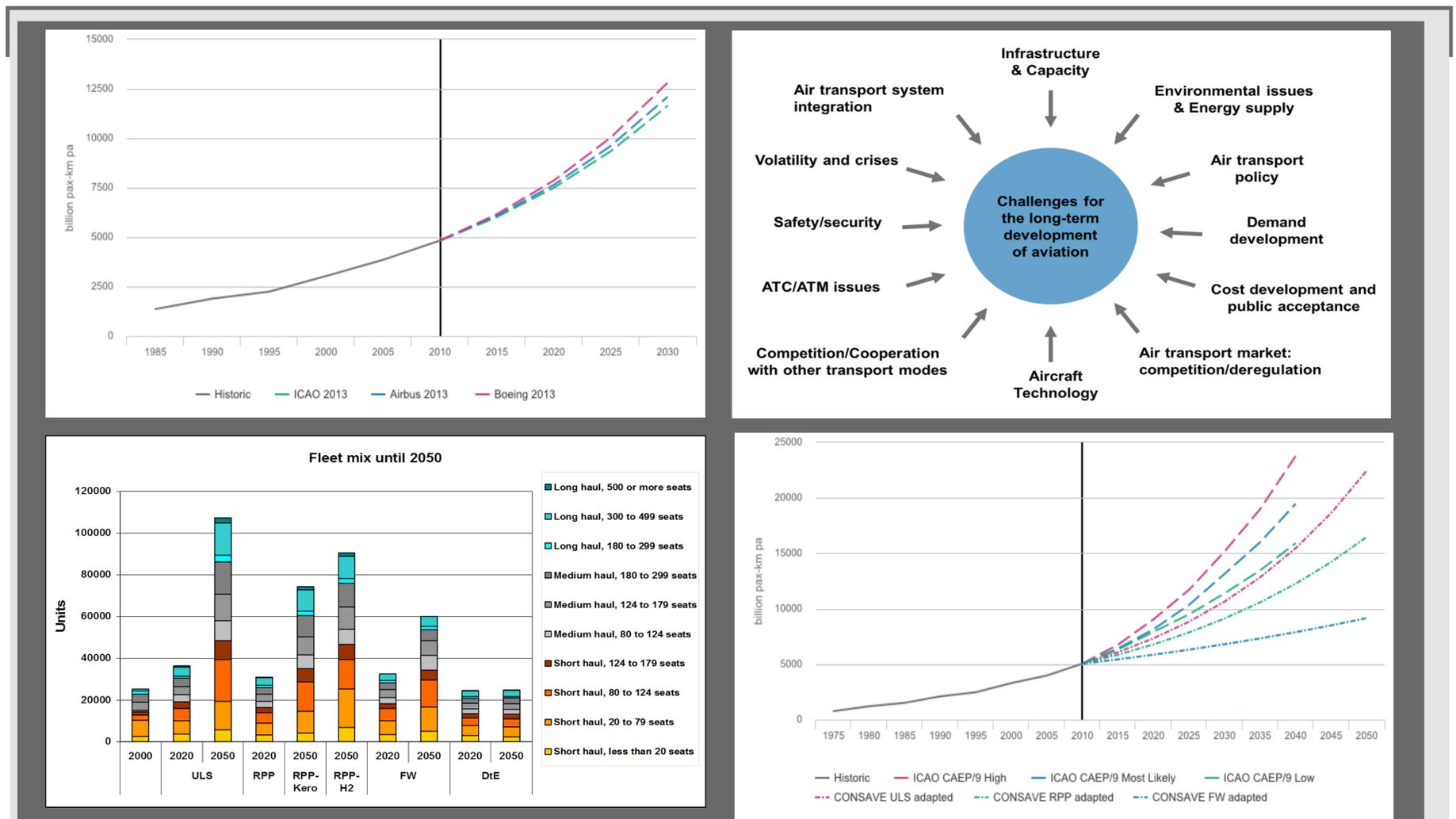


MONITOR: Air Transport Future Studies

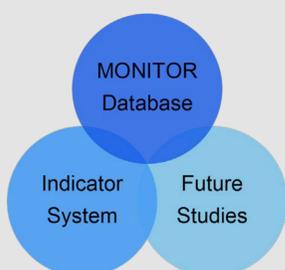


Clockwise rotation: Comparison of current air transport forecasts on global scale, Challenges of the future air transport system, Comparison of the FESG results and the adapted CONSAVE results, CONSAVE-Scenario results on the global aircraft fleet mix

Forecasts and Scenarios

The challenges of the development of the air transport system consist of the partly diverging interests among its stakeholders like airlines, airports, passengers, industry, environmental organisations, politics and others. Facing these conditions, the challenging task for politics is to balance these interests, to reach compromises and to elaborate measures for a sustainable development in general and with regard of the functionality of the air transport system. Therefore, a well-founded analysis of the air transport system, its dimensions, its drivers and its actors is needed.

In order to meet those tasks, a monitoring system existing of three elements has been developed which allows a comprehensive look at the long term development of the air transport system and builds the basis for strategical analyses, modelling and quantification activities.



The long term development of the air transport system can either be described by forecasts or by scenarios. The main characteristic of a forecast is trying to predict an event, a condition or a development. For the elaboration of a forecast data have to be collected, prepared and set with one another in relationship, in order to be able to derive patterns and principles. These principles can be used to create predictions about future developments and are therefore usually mirrored in mathematical models.

Scenarios are combinations of consistent assumptions on the development in key fields for the scenario subject. Especially for complex systems it is difficult almost impossible to predict the future. Consequently scenarios are not intending to be forecasts. But they rather describe possible alternative images of how the future might unfold and the paths leading to these futures. To reach this purpose it is tried to apply as much available relevant information on the future development as possible.

Since the invention of the jet aircraft, air traffic has grown with high rates and with respect to the meanwhile dominant international air transport as part and as a driver for an increasing globalisation of the world. There is also a high potential for a further significant increase of air transport, if more nations will economically develop during the next decades. Statements on the future development of the air transport sector are required for various purposes and are also essential for strategic planning of the air transport infrastructure (airports and air traffic control) and quantifying potential environmental impacts caused by air transport.

This part of the MONITOR portal was designed to address the progress in the air transport sector and hint at new trends within the air transport system. For this purpose some selected, recently published future studies on worldwide air transport are presented.

www.airtransport-monitor.eu

