

Air sector skills, needs and future work scenarios

As first step of **skill-UP project**, partners developed a research that focused on **understanding the emerging and upcoming changes and technological trends in the aviation sector** that will continue to **influence the nature of work**, in particular **employee skills and developmental needs**. *Check the full research [here](#).*

The results contributed to the **identification of major skill changes** for selected occupations in the aviation sector and **ways of ensuring a smooth transition to the new aviation scenarios**. As a final output an **Air Sector Skills Transformation Map** integrating all key research results will be designed and available soon.

As mentioned, one of the highlights of the research was the development of **four future scenarios in the aviation sector**. The scenarios technique helped identify future aviation operational environments and select the most promising ones among them, in order to envisage required skills and competences and build new training pathways, in compliance with the expected changes.

CHECK THE SCENARIOS!

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Single pilot operations

KEYWORDS
Single pilot
Ground pilot
Augmented solutions

The concept of Single Pilot Operations (SPO) refers to operating an aircraft with only one pilot in the cockpit. Single Pilots will be assisted by advanced technologies on board and ground operations personnel. Flight support services, Augmented sensorial solutions and new coordination procedures and roles (e.g. the ground pilot) will support the pilot in keeping on managing the flight.

TECHNOLOGICAL CHANGES
• The use of AI and machine learning will be essential to support the pilot in decision-making and to manage the flight deck. AI will be used to monitor the flight deck and to detect anomalies. AI will also be used to manage the flight deck and to detect anomalies. AI will also be used to manage the flight deck and to detect anomalies.

IMPACT ON THE ROLE OF THE PILOT
• The role of the pilot will be transformed from a manual operator to a supervisor and decision-maker. The pilot will be responsible for monitoring the flight deck and for making decisions. The pilot will be responsible for monitoring the flight deck and for making decisions. The pilot will be responsible for monitoring the flight deck and for making decisions.

RPAS integration into the U-Space

KEYWORDS
U-SPACE
Unmanned Aircraft Management
New services

Before we entering the U-SPACE era, we will have to overcome a number of challenges. These include the need to develop a common U-SPACE architecture, the need to develop a common U-SPACE architecture, the need to develop a common U-SPACE architecture, the need to develop a common U-SPACE architecture.

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New operations in single or multiple remote towers

KEYWORDS
Remote towers
Augmented solutions
New working scenarios

Over the next 10 years, the European ATM system is expected to face challenging situations, with the growth of air traffic, the increase of its complexity, the introduction of digital environments and new technologies. The concept of remotely operating an airport or multiple services will be provided. Remote towers will be provided. Remote towers will be provided. Remote towers will be provided.

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Technologies for managing the flow of passengers

KEYWORDS
Customer care
Passengers flow
Self-service solutions

Advanced information technologies and automation is expected to have a significant impact on the airport operations. New and emerging technologies will be changing travel experiences of the passengers at the airports. The introduction of new technologies will be changing travel experiences of the passengers at the airports. The introduction of new technologies will be changing travel experiences of the passengers at the airports.

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IMPACT ON THE ROLE OF THE GROUND STAFF
• The role of the ground staff will be transformed from a manual operator to a supervisor and decision-maker. The ground staff will be responsible for monitoring the flight deck and for making decisions. The ground staff will be responsible for monitoring the flight deck and for making decisions. The ground staff will be responsible for monitoring the flight deck and for making decisions.

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