

# 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 operators providing flight support services. Augmented sensorial solutions and new coordination procedures and roles (e.g. the ground pilot) will support the pilot on board in managing the flight.

## TECHNOLOGICAL CHANGES

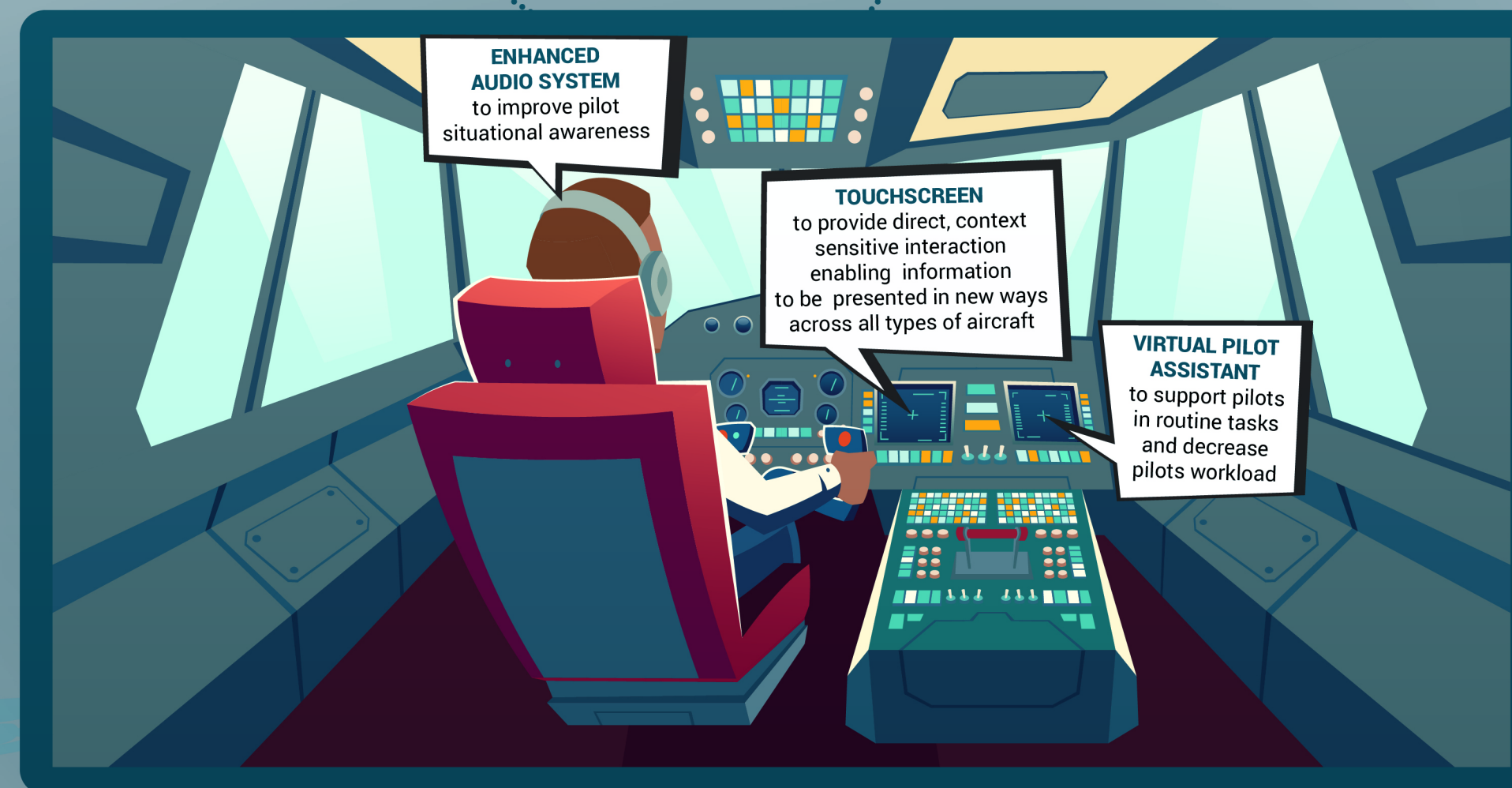


- Technologies for supporting Communications, Navigation, Surveillance/Air Traffic Management allow higher levels of automation, creating an opportunity to transit to Single Pilot Operation.
- Future flight deck will provide more complex and accurate information combined with virtual digital assistant, multitouch displays, new enhanced audio, visual and automation systems supporting the pilot in the decision-making process.

## IMPACT ON THE ROLE OF THE PILOT



- The leadership role of the captain may remain unchanged, but the individual tasks and duties of the captain will change significantly. Some of the conventional duties (Pilot Flying and Pilot Monitoring) will be allocated to automated systems or ground operators.
- A new role of ground pilot will assist the Captain during flight. The ground pilot will assist the Captain in any adverse and high workload conditions and take over in case of Captain incapacitation.



GROUND PILOT

