Remote Digital Tower

enav group

Innovating the sky

ENAV'S DIGITAL TOWER

DIGITAL TECHNOLOGY TO SUPPORT SAFETY AND OPERATIONAL EFFICIENCY

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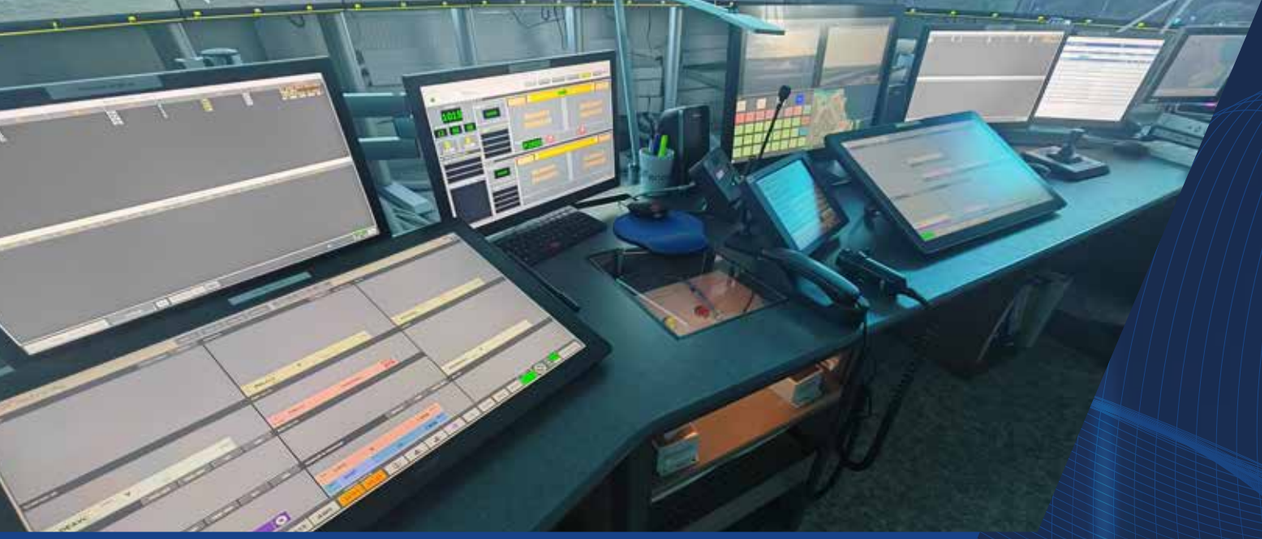


The introduction of remote digital towers represents an epoch-making revolution in the way airport traffic service is provided. The physical control tower is replaced by a digital operations room from which air traffic controllers can operate through the use of cameras and high-definition image monitors. The digital configuration improves the controller's situational awareness, thus offering operational and safety advantages.

HUMAN-MACHINE INTERFACE

Specifically designed and carried out to replicate through technology the traditional interactions of controllers operating in physical towers.

CONTROLLER WORKING POSITION

The result of an ergonomic study for the workstation design and the ideal operating systems layout.

FIXED CAMERAS

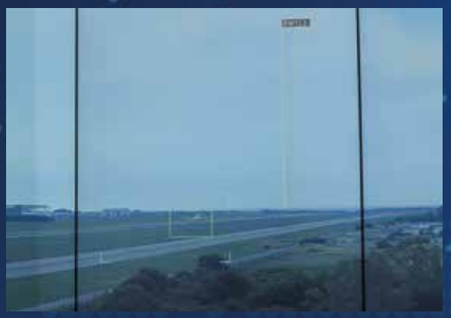
to frame 360° of the panorama and ***mobile cameras*** (Pan-Tilt Zoom) to replicate the binocular functionality.

HIGH-DEFINITION MONITOR

for the visual presentation of the airport and its surroundings.

ELECTRONIC FLIGHT PROGRESS STRIPS

Designed to automatically update aircraft movements on the ground and in the vicinituy of the airport, with CATC (conflicting air traffic control clearances) functionality.



AUGMENTED REALITY

to support the air traffic controller in the detection of targets, such as aircraft, vehicles and people.
Thanks to its A.I. the system is provided with a database continuously enriched by the information that the tool uses to recognise targets of operational interest.