The Aeronautical Computer Human Interaction Lab

ENAC invests on applied research in the field of Aeronautical Computer Human Interaction to take advantage of its acquired experience, and know-how.

Building upon a set of tools, HMIs and simulation capacities, this laboratory will investigate new interaction techniques or theoretical advances, and apply them to the design of tools for aeronautics.

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Simulations and human-centered design will be used extensively. A dedicated platform will be set up, shared with partner laboratories or industry to explore and prototype new concepts and analyse working methods and evolutions.

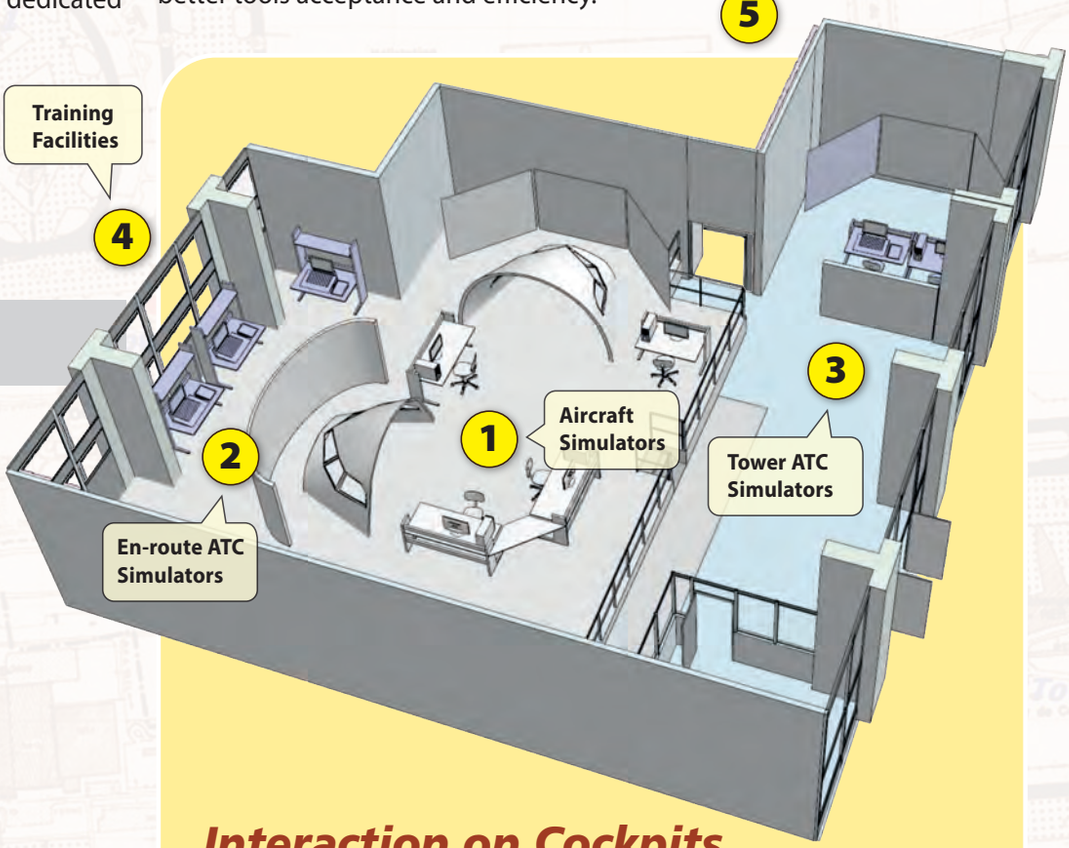
The proximity of air and ground positions makes it possible to focus on air-ground collaboration.

Providing operators with higher levels of automation and examining the ensuing collaboration is another research area, bringing about similar issues and solutions. Last, design techniques will be sought to ensure better tools acceptance and efficiency.

Realistic environment

The simulation tools employed allow the building of a very realistic environment for operational experts. (AMAN, TCAS, Safety Nets, Aircraft models etc.)

Based upon an ad-hoc middleware, the flexibility makes it also compatible with the needs of research and rapid prototyping, and offers the possibility to quickly set up of a comprehensive operational environment to explore new ideas and concepts.



Interaction on Cockpits and Controller Working Positions

ENAC Research