Immersive Semantics-based Virtual Environments for the Design and Validation of Human-centred Aircraft Cockpits

> The i-VISION project aims at supporting human factors design and validation activities in aircraft cockpits, during the early phases of the product life-cycle through knowledge-based immersive virtual reality technologies. i-VISION will progress the current status of cognitivehuman analysis of operations in aircraft cockpits using VR technologies, by advancing the methodologies with requirements from modern operating conditions.

## Scientific & Technological Objectives



## **Expected Impact**

The knowledge-based technologies of i-VISION will accelerate the design process through the systematic reuse of knowledge, The analysis of human operations will result in highly competitive cockpits from the end-user's perspective and will increase the utilization of future aircraft by allowing human pilots to operate

## while allowing for faster and more flexible prototyping of aircraft cockpits.

## utilization of future aircraft by allowing human pilots to operate in extreme weather and traffic conditions.

