About EPIIC

EPIIC is an acronym for "Enhanced Pilot Interfaces & Interactions for fighter Cockpit". The EPIIC project aims to enhance air power capabilities and ensure air dominance for the European Armed Forces.

The project fosters a symbiotic teaming between systems and pilots, where pilots supervise all manned and unmanned platforms under their responsibility in a complex environment. To achieve this, the project will develop fighter cockpit-related technologies such as adaptive HMI, innovative virtual assistant interactions, large area display, helmet-mounted display, canopy projection, disruptive crew monitoring systems, and new multi-modal interactions.

EPIIC consists of about thirty organizations from twelve European countries, including major industrial companies, university research departments, innovative start-ups, and mid-caps.

EPIIC strives to achieve European technological autonomy and eradicate dependencies on third-party technologies identified in legacy fighter cockpit avionics.

The TEAM

THALES

indra · DASSAULT AVIATION · AIRBUS · LEONARDO

SAAB · AALBORG UNIVERSITY · DIEHL Aerospace · DLR

ESG · gmv · HAT TEC · INCAS

UNIVERSITY OF PATRAS · nlr · Collins Aerospace · tecnobit

TERMA · FER Faculty of Electrical Engineering and Computing · INSTA · alma DESIGN

eti Simulation & Engineering Solutions · NEXT2U · FOI Totalförsvarets forskningsinstitut

Connect with EPIIC

101103592

01.12.2022

37 months

Thales AVS

https://edf-epiic-project.eu/

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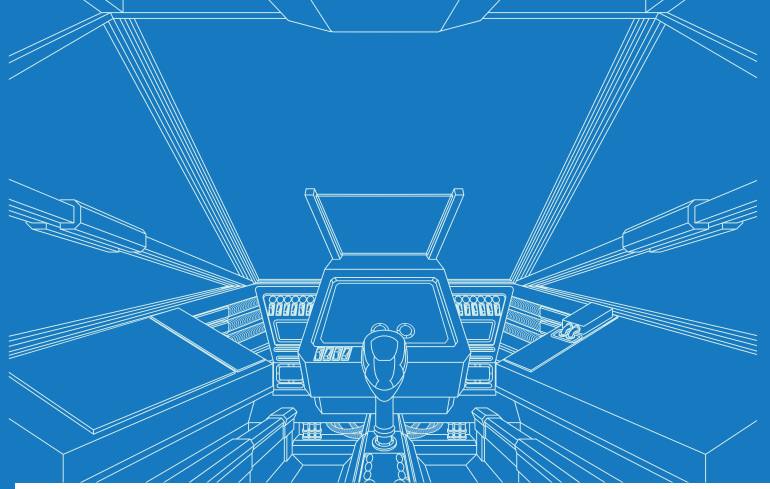
Design by EASN-TIS



EPIIC

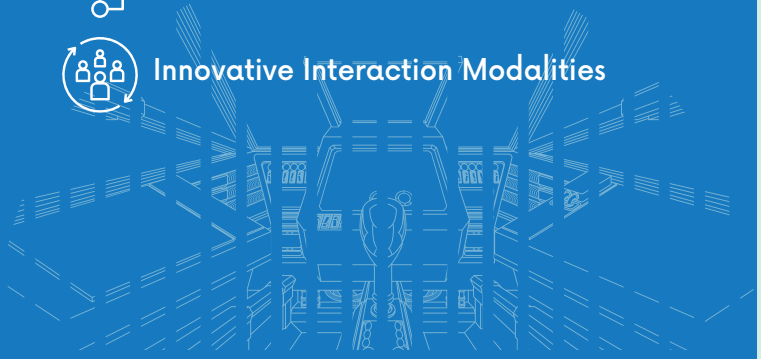
Enhanced Pilot Interfaces & Interactions for fighter Cockpit

Co-funded by the European Union

Objectives

The EPIIC project aims to enhance air power capabilities and ensure air dominance for the European Armed Forces. To achieve this, the project has set clear and ambitious objectives that seek to address the technological challenges of future air warfare and collaborative combat.

- **Cockpit innovations consistency**
- **Adaptive HMI (Human-Machine Interface)**
- **Innovative Virtual Assistant**
- **Innovative Large Area Displays**
- **Eyes-out technologies**
- **Crew Monitoring Sensors and Physiological States**
- **Crew states identification algorithms**
- **Innovative Interaction Modalities**



Key Features

The EPIIC project is dedicated to developing advanced cockpit avionics for future fighter aircraft that can meet the challenges of modern air warfare. To achieve this, the project focuses on some key features that are critical:

- Innovative Technologies
- Human-Machine Cooperation
- Symbiotic Teaming
- Technological Autonomy

Expectations

The EPIIC project has high expectations for the development of cockpit avionics for future fighter aircraft. The project aims to provide innovative and disruptive solutions that will enable pilots to manage all manned and unmanned platforms under their responsibility in complex environments. By leveraging advanced technologies such as adaptive HMI, innovative virtual assistant interactions, and disruptive crew monitoring systems, EPIIC expects to provide an unprecedented level of situational awareness and increase the survivability and effectiveness of fighter aircraft in future conflicts.

Overall, EPIIC's high expectations are driven by a desire to deliver cutting-edge technologies that will revolutionize the capabilities of fighter aircraft and redefine the standards of cockpit avionics. The project's focus on disruptive solutions and symbiotic teaming is expected to provide pilots with the tools they need to succeed in complex and challenging environments.

Project EPIIC aims to revolutionize fighter cockpits and improve air dominance