



MINIMA

Mitigating the Negative Impacts of Monitoring high levels of Automation

Project Status & News

Evaluation Study Successfully Conducted
MINIMA reached its next Milestone in November 2017 after the successful conduction of the evaluation study at the University of Bologna's Virtual Laboratory Lab in Forlì, Italy.

This evaluation study served two purposes: First, to show how monitoring high levels of automation causes the human operator to get 'Out-of-the-Loop'. Second, to show how the human operator can be kept in the loop using an adaptive automation system, namely the Integrated Vigilance & Attention Controller developed within MINIMA.

From **November 6 - 17**, a total of 15 active air traffic controllers from all over Italy participated in the experiment. Each controller passed the two-day experiment consisting of a Training and an Evaluation-Session. The results of these data will be crucial for the evaluation of the MINIMA concept. Namely, they will show whether the Integrated Vigilance & Attention Controller is suitable to mitigate the 'Ironies of Automation'.



MINIMA Consortium



ONERA



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Project Facts

The Horizon 2020 SESAR project MINIMA (Mitigating Negative Impacts of Monitoring high levels of Automation) is funded by SESAR Joint Undertaking and will help to understand and mitigate OOTL phenomena of air traffic controllers in highly automated environments, especially Terminal Maneuvering Areas (TMA). MINIMA covers a 24 months period starting on May 1st 2016.

Events

SESAR Innovation Days 2017 in Belgrade

From **November 28 - 30**, MINIMA was presented at the SESAR Innovation Days 2017 in Belgrade, Serbia. Francesca De Crescenzo and Bruno Berberian presented a poster describing the MINIMA concept and its significance for future automation systems.

ART Workshop on Automation in Vienna

On **October 23**, MINIMA was invited to the Agency Research Team (ART) workshop on 'Automation in ATM' which was held at the Frequentis headquarters in Vienna. Jan Kraemer presented the MINIMA concept and its technical implementation to a crowd of subject-matter experts. MINIMA was received with great interest for its strong focus on the human operator's state of mind in highly automated work environments.

Upcoming: 2nd Advisory Board Meeting at the World ATM Congress in Madrid, Spain.

MINIMA's **2nd Advisory Board Meeting** which will be held on **March 8 2018** at this year's World ATM Congress in Madrid. Advisory Board Members will give their qualified opinion about MINIMA's potential and possible ways future exploitation.

