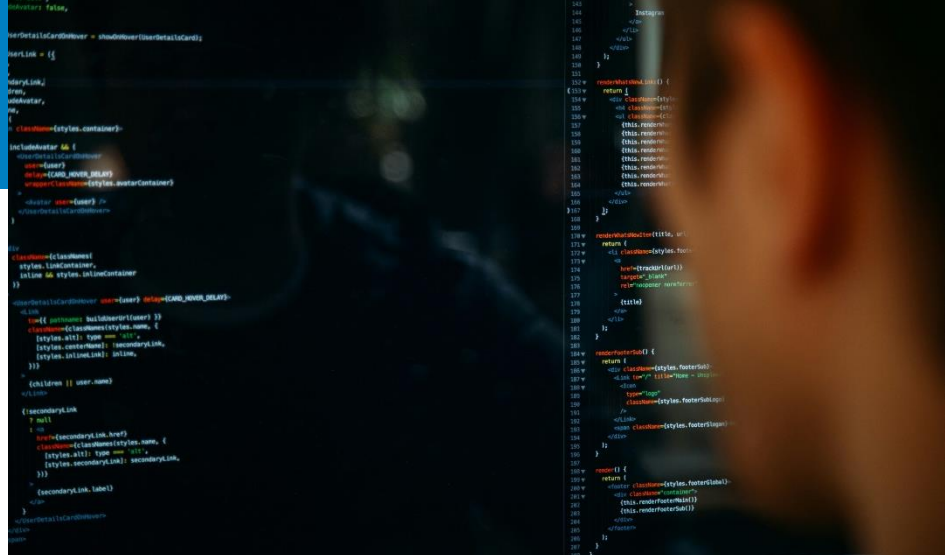# EASA
European Union Aviation Safety Agency

Upgrade of the AERO-MS model for market-based measures (MbM)

Contractor

NLR

Consortium Members

None

Contract period

27/05/2020 - 26/05/2024

Budget

550 000 €

Scan the QR code or click here
to visit the webpage of this project

Main objectives

The Aviation Emissions and evaluation of Reduction Options Modelling System (AERO-MS) is a bespoke software developed to examine the environmental and economic impacts of a wide range of policies intended to reduce greenhouse-gas emissions from international and domestic aviation. The types of policies AERO-MS can model include technological, operational and market-based measures as well as sustainable aviation fuels. The tool has been extensively applied for policy-impact assessments in studies and research projects.

The objective of this Horizon2020-funded project was to update and enhance AERO-MS and thereby increase the European modelling capability for a wide range of future aviation policy assessments.

Within this framework contract, the following tasks are planned:

- Review of the state of the art relating to the aviation environmental policy assessment;
- Enhancement and extension of the AERO-MS policy assessment methodologies;
- Enhancement and update of the AERO-MS data and data structure;
- Implementation of the enhanced methodologies and data into a stand-alone, PC-based software application;
- In-depth validation of the new software application;
- Training sessions on the new software application.

The framework contract will be implemented through three specific contracts.

Impacts & benefits

The extended and updated capabilities of AERO-MS are expected to be used to support future impact assessments underpinning policy discussions and decisions at European as well as ICAO level.

The main users of the upgraded AERO-MS tool will likely be the European Commission, EASA, EU Member States, NGOs and research centres.