

Intro

Before the pandemic, the CO₂ emissions produced by the aviation sector were expected to grow at a pace of 2-3% due to the projected increase of air traffic in the next decades. As the aviation sector is expected to recover by 2024, solutions to decrease the CO₂ emissions are still needed to move towards a greener aviation.

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News and Updates



Sustainable taxi operations: a new concept

A means of reducing CO₂ emissions produced by the aviation industry is to introduce more efficient surface movements. The SJU-funded AEON project aims to meet this goal towards the combination of autonomous, non-autonomous, and single-engine taxiing solutions into an innovative concept of sustainable taxiing.

[Read the article](#)



AEON: Unfolding airport complexity

Designing more sustainable taxiing operations in the airport environment requires that the relationships between actors, technologies, and communication tools inside the airports are taken into consideration in a systemic perspective. The AEON concept addresses this complexity as depicted in the new concept image presenting the preliminary results of the project.

[Concept Image](#)



Engine-off taxiing: a sound and scientifically based concept

AEON employs a user-centric approach to develop a sound and scientifically grounded concept for engine-off taxiing operations. The validation approach is based on three validation sessions, called respectively initial, intermediate, and final, in which the AEON concept of operations and tools have different levels of maturity (from early V1 to a fully complete V1).

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Schiphol Innovation Group step in the AEON Consortium

Schiphol has the declared ambition of becoming the most sustainable airport in the world by reducing emissions on the ground and around the airport to zero by 2030. That's why the Schiphol group recently joined the AEON Consortium to foster the development of greener taxiing technologies.

[Read the article](#)



“Europe wants to be the first climate-neutral continent in the world. Even though the finish line is 30 years away, the race starts now.

The 2020s is the ‘make of break’ decade. And that’s why Europe has committed to reduce our emission by at least 55% by 2030, compared to 1990 levels.”

- Ursula von der Layden

Eyes on us



The AEON Survey in SESAR JU e-news of July!

In just one year of activity, the AEON project has been published in the SESAR JU e-news, attracting the attention of the ATM world. The reason behind that are the results from the survey that the AEON project launched to collect ground professionals' opinions.

[Know more about our inclusion in the SJU e-news](#)



Airport Testing International: the AEON concept

In September 2021, the online magazine scouted the AEON project and its new concept of engine-off taxiing operations. In an interview with the Project Coordinator, the AEON project had the opportunity to present how intends to reduce CO2 emissions at ground level.

[Read the article](#)

Past and Upcoming Events



Advisory Board Meeting: a first step into the validation process

On September 21, the AEON project gathered all the Advisory Board (AB) members in what came out as a pleasant and fruitful discussion. The well-balanced group of aviation stakeholders were called to provide their inputs on the initial concept of green taxiing techniques, developed by the Consortium in the first year of activity.

[Report on AEON First Advisory Board Meeting](#)

AEON at the ClimOP Second Advisory Board Workshop

At the [ClimOP](#) Second Advisory Board meeting, the AEON Consortium presented its preliminary concept of green taxiing operations to key stakeholders. In the workshop, participants discussed the ClimOP project's results on greener operational improvements spanning from the ground up to en-route. After the AEON Consortium presented its new concept of operations, the ClimOP ground and airport infrastructure improvements were reviewed to help develop a set of harmonized mitigation strategies to reduce the climate impact of aviation.

