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Reducing Environmental Footprint through transformative Multi-scale Aviation Planning

E-Newsletter | October 2023

Welcome to RefMap project

RefMap aims to reduce the **environmental impact** of air travel for airlines and Unmanned Aerial Systems by creating a digital service that optimises flight trajectories on both micro and macro levels.

Get to know all the interesting updates of RefMap, check our latest partners meeting in the Netherlands, RefMaps' participation in the Aerospace Europe Conference, the project's relation with RefuelEU's goals, and many more.

We invite you to **follow us** on our channels to stay updated on all the project's activities.

Enjoy your reading!

www.refmap.eu



Let's dive in and see what happened on RefMap so far.

How RefMap's story started



RefMap brings together **11 partners** from 8 countries, it started on February 1st, 2023, and it's expected to last for 36 months. During its three-year duration, it is expected to significantly contribute to creating **sustainable aviation** across Europe. The **kick-off meeting**

of RefMap took place in Stockholm, Sweden, on March 14th and 15th, and was hosted by KTH Royal Institute of Technology, which coordinates the project. Read the full article to learn more about the project's aim and use cases.

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NEWS

Workshop on noise impact assessment on wildlife



On October 13th, 2023, The University of Salford hosted its **2nd Workshop** focused on the noise impact assessment on wildlife, titled "**Advancing noise impact assessments for birds**". This initiative, spearheaded by The University of Salford, a key [partner](#) in the RefMAP project, delves deep into the research surrounding the effects of drone noise on avian life - a central theme within the RefMAP project. The event was orchestrated by Dr. Margret Engel and Professor Mike Wood.

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Partners 1st plenary meeting in the Netherlands at TU Delft



On October 5th & 6th, the partners of the [RefMap project](#) gathered for a 2-day meeting on the project's progress and the next important

steps in the hosting facilities of TU Delft in the Netherlands.

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Dissemination material now available online



We are delighted to announce that our **dissemination materials** are now available for download on our website.

RefMap aims to keep stakeholders well informed about its objectives, key features, and significant results. For a glimpse into RefMap's core details and data, please visit and download our poster and brochure, which offer a comprehensive overview of the project, at www.refmap.eu/about

Preview & Download

BLOG

RefMap and EU initiatives



RefMap's work on the use of sustainable aviation fuels in Europe and its overall approach to make aviation more environmentally friendly, aligns with the **RefuelEU's goals** to create a sustainable aviation fuel value chain in Europe. These initiatives combined will help to reduce the environmental impact of the aviation industry and support the EU's transition to a more sustainable future.

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Harnessing Satellite Data and AI for Aviation Emissions Monitoring

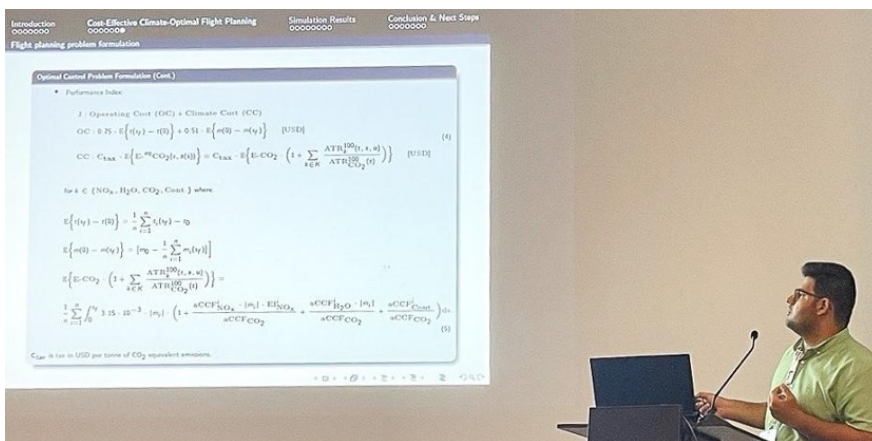


Read how the RefMap project partners address the issue of **greenhouse gas emissions** using cutting-edge technology: satellite data and artificial intelligence (AI). Get also a first insight into our partner S[&]T's contribution to the RefMap project with [AIR-Portal](#), an air quality platform for urban areas.

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PUBLICATIONS

RefMap presents scientific publications at the Aerospace Europe Conference 2023

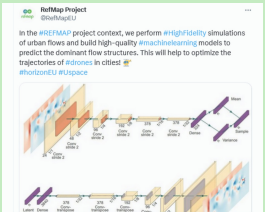


Among the participants were members (Abolfazl Simorgh and Fateme Baneshi) of the RefMap team from **Carlos III University of Madrid (UC3M)**, whose research work earned them the opportunity to present **two conference papers**. These papers explored innovative advancements in trajectory optimisation for minimum environmental impact, aiming to foster a more sustainable and climate-resilient aviation industry.

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NEWS DIGEST

All eyes are on! Bits & pieces of RefMap project



Optimizing Drones Trajectories →



Rans Framework →



HPC and Aviation Bond →



Joint Forces →



Missing the Carbon Footprint →



Climate Strategic Initiative →

PARTNERS



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