D2.2 Final Communication and Dissemination Report

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THE SESAR KNOWLEDGE TRANSFER NETWORK

Abstract

This deliverable reports on the communication and dissemination activities carried out by the Engage consortium over the duration of the network.

Planned activities have been adapted due to the Covid-19 pandemic, however a full programme of workshops and summer schools has been organised. Support has been given to the annual SESAR Innovation Days conference and there has been an Engage presence at many other events.

The Engage website launched in the first month of the network. This was later joined by the Engage 'knowledge hub', known as the EngageWiki, which hosts ATM research and knowledge. The wiki provides a platform and consolidated repository with novel user functionality, as well as an additional channel for the dissemination of SESAR results.

Engage has also supported and publicised numerous research outputs produced by PhD candidates and catalyst fund projects.

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1 Introduction

1.1 About the Engage KTN

Engage is the SESAR Knowledge Transfer Network (KTN) which launched in January 2018. Engage is managed by a consortium of academia and industry, with the support of the SESAR JU, to promote and facilitate the development of air traffic management research in Europe. Its focus is two-fold: to inspire new researchers and to help to align SESAR exploratory and industrial research through a wide range of activities and financial support actions. The network aims, in particular, to stimulate the transfer of the results of fundamental research to ATM application-oriented research, and of application-oriented research to industrial research.

1.2 Objectives of this deliverable

The Communication Plan of Engage (D2.1, also including website and visual identity material) aimed at communicating Engage outcomes and other related ATM research initiatives, and this deliverable, D2.2 Final Communication and Dissemination Report, assesses the activities that have taken part within WP2. The goal of WP2 has been to efficiently and successfully manage all the tasks related to "communication" (including the organisation of workshops and wide-ranging dissemination activities using classical and innovative methods, e.g. Engage website and knowledge hub, Twitter, LinkedIn) whilst providing "support to SJU initiatives" (including supporting the organisation of the SESAR Innovation Days conference and coordinating with the SESAR Scientific Committee). The Communication Plan (D2.1) set up the guidelines to achieve these objectives, identifying the relevant communities and fora, the most suitable communication channels to address them and the appropriate communication actions. This deliverable reports the completed tasks, audiences reached, and communication actions taken along the duration of the project.

The communication and dissemination of the objectives, actions and results of Engage were organised around an understanding of target audiences, and a coordinated plan that involved:

- enhancing the quantity and quality of collaborations between the wide range of SESAR ER projects, fostering win-win situations, avoiding overlap and duplication of efforts, bridging potential research gaps;
- disseminating the results and outcomes from the observatory, roadmap, and innovative research activities funded within Engage (thematic challenges, workshop outputs, catalyst funding projects), and making the necessary links with wider SESAR ER projects outcomes;
- promoting the Engage repository platforms: concepts, projects, video, code to the SESAR ER projects and the ATM research community;
- all Engage Calls (PhD/thesis funding, thematic challenges, catalyst funding) being posted on the knowledge hub, in collaboration with the **SJU Communications Coordination Group** and distributed through the SESAR e-news.

1.3 Deliverable structure
- Introduction
- Communication and dissemination activities
- Dissemination of SESAR ER results
- Best practices and lessons learned
- Appendices logging Engage communication and dissemination activities

2 Communication and dissemination activities

2.1 Introduction

With a focus on inspiring new researchers and helping to align exploratory and industrial research (ER and IR) through a wide range of activities and financial support actions, Engage has been a project with a high potential for exposure. Engage has been an outward-facing network that has helped to advance innovation and collaboration through taking part in many external events, ensuring its presence in the industrial and academic worlds has been widespread and constant. Engage as a project has also organised its own events, such as summer schools and workshops.

The Engage communication plan (D2.1 [6]) organised tasks into four main activities:

(1) Producing one blog post approximately every month of the project: This task was substituted by a wider presence in social media, and an Engage Twitter account was created.

(2) Close cooperation with the other dissemination channels: SJU Communications Coordination Group, Engage website, SESAR Scientific Committee, LinkedIn, Forum, Twitter etc. This was successfully achieved and is explained in the following subsections.

(3) Specific dissemination leveraging on the events organised by Engage (workshops, SESAR Innovation Days, summer schools and other education and training actions). These actions have been coordinated through the knowledge hub and website.

(4) Establishing a collaborative consortium agreement of the dissemination and communication actions by all partners. The dissemination activities have been planned in advance on an annual basis, enabling the integration of dissemination suggestions, lessons learned, opportunities, threads, strengths and weaknesses across the various workpackage activities. This was successfully achieved despite the challenges of the Covid-19 pandemic, as explained below.

2.1.1 Covid-19 pandemic

Deliverable 2.1 [6] was prepared in February 2018 before the Covid-19 pandemic – during the pandemic, planned Engage events were rescheduled and moved on-line. Despite the need to replan events and move on-line, the team has ensured that communication and dissemination activities have continued.

The team proposed a higher effort in communication through alternative media, both internally and for external events, and Engage was successfully part of all events as originally planned. There was also a higher effort on social media communication to replace the face-to-face events and contact with other projects and industry colleagues, using Twitter as the main social media platform for Engage, followed by LinkedIn.

Whilst most of the second half of Engage communication activities were held on-line, the team worked towards a regular Engage presence at events, and communication and dissemination activities were adapted so a successful communication and dissemination report could be presented on this deliverable.

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2.2 Engage events

2.2.1 Workshops

A total of 14 thematic challenge[1] workshops were organised by Engage (listed in Table 1), which brought together a wide range of ER and IR researchers. These were originally planned to be held as face-to-face events, however Covid-19 disruption led to workshops planned for 2020 having to be rescheduled to later dates and held virtually.

Table 1: Engage thematic challenge workshops

Thematic challenge	Workshop title	Date	Location	Participants/ registrations*
TC4 - 1st workshop	Novel and more effective allocation markets in ATM	25OCT18	London	28
TC2 - 1st workshop	Data-driven trajectory prediction	06NOV18	Barcelona	32
TC3 - 1st workshop	Efficient provision and use of meteorological information in ATM	13NOV18	Brussels	26
TC1 - 1st workshop	Vulnerabilities and global security of the CNS/ATM system	27MAR19	Brussels	42
TC3 - 2nd workshop	Efficient provision and use of meteorological information in ATM	05NOV19	Brussels	17
TC4 - 2nd workshop	Novel and more effective allocation markets in ATM – the way forward	12NOV19	Madrid	21
TC2 - 2nd workshop	Data-driven trajectory prediction	02DEC19	Athens (co-located at the SIDs)	37
TC1 - 2nd workshop	Vulnerabilities and global security of the CNS/ATM system	10NOV20	Virtual	59
TC2 - 3rd workshop	Data-driven trajectory prediction	25JAN21	Virtual	66
TC3 - 3rd workshop	Efficient provision and use of meteorological information in ATM	27JAN21	Virtual	70
TC4 - 3rd workshop	Economic incentives for future ATM implementation	21JUN21	Virtual	67
TC2 - 4th workshop	AI, ML and Automation	03SEP21	Virtual	117
TC3 - 4th workshop	Efficient provision and use of MET information in ATM	09SEP21	Virtual	79
TC1 - 3rd workshop	Vulnerabilities and global security of the CNS/ATM system	15SEP21	Virtual	72

* Participants at face-to-face events; registrations for virtual events

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[1] For further information about the four thematic challenges along with reporting of workshops held in 2021, please refer to D2.7 [7].

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All material from the workshops, namely presentations, descriptions of challenges and workshop conclusions is public and published on the Engage thematic challenges web page [3].

In addition to the thematic challenge workshops, Engage also organised a small number of technical workshops each with a focus on a particular challenge faced by PhD students (e.g. building passenger itineraries). Furthermore, some catalyst fund projects organised their own workshops which are included in Appendix II.

2.2.2 Summer schools

Three summer schools were organised by Engage. The first was held in Belgrade, the second was planned to be held in Luxembourg but became a virtual event due to the pandemic, as did the third edition that would have been held in Trieste (listed in Table 2). The three-year summer school programme evolved from an initial focus on teaching PhD candidates some of the fundamentals of ATM and wider research practice, which by the third edition had moved to PhDs giving longer presentations linked to extended panel discussions with domain experts from industry. See D5.14 [9] for reporting of the most recent edition of the summer school.

Table 2: Engage summer schools

Summer school	Date	Location	Programme	Participants*
1st summer school	09-13SEP19	Belgrade	https://engagektn.com/summer-school-2019/	40
2nd summer school	21-25SEP20	Virtual	https://engagektn.com/summer-school-2020/	86
3rd summer school	30AUG21-02SEP21	Virtual	https://engagektn.com/summer-school-2021/	97

* Including the Engage team

2.2.3 Supporting the SESAR Innovation Days

The organisation of the SESAR Innovation Days conference, from initial planning through to post-conference activities, has received support and expertise from Engage consortium members (led by EUROCONTROL), closely collaborating with the SJU as the organiser of the event.

Engage, via EUROCONTROL, chaired the SIDs Programme Committee for the review, selection process and preparation of the conference programme of the four conferences held during the timeframe of the KTN (2018-2021). This has included organising and publicising the Call for Contributions (full papers and poster abstracts), leading review and selection process and the preparation of the conference programme.

SIDs conference papers 2011-2020 (310 papers) have also been collated and republished in the EngageWiki research repository [5]. Information about the forthcoming SESAR Innovation Days conference and the proceedings from previous conferences are available from https://www.sesarju.eu/sesarinnovationdays.

2.2.4 Engage presentations

Engage members have disseminated KTN activities, primarily through presentations at workshops, conferences and meetings. Additionally, demonstrations have been given to showcase features of the EngageWiki.

Table 3: Engage presentations at events

Type of event	Events
Workshop	Engage Thematic challenges
	Engage catalyst fund projects
	SESAR Digital Academy
	SESAR MET ER4
	Modus ER4 project
	Fragmentation in Air Traffic and its Impact on ATM Performance
	EUROCONTROL Agency Research Team (ART)
	EASN Accelerated impact of academic aviation research for improved air transport for all European citizens
	ACI EUROPE-SESAR Exploring new concepts in air traffic management and airports
	Performance Assessment Work Forum
Conference	SESAR Innovation Days (2018, 2019, 2020, 2021)
	EGU General Assembly (2019)
	World ATM Congress (2019)
	EUROCAE Symposium (2019); USA/Europe ATM R&D Seminar (2019)
	Meteorological Technology World Expo Virtual 'Live' Conference for Aviation Meteorology (2021)
Meeting	SESAR Scientific Committee
	ASDA
Course	Engage summer school (2019, 2020, 2021)
	Convective and Volcanic Clouds (CVC) Training School (2021)
	Air Traffic Management short course (2018)

The list of events with Engage presentations is available in Appendix I.

2.3 Dissemination activities

2.3.1 Website

To facilitate the communication, all Engage initiatives and results are accessible through the website (engagektn.com), offering a single portal of information for the various activities: workshops, summer schools, Calls for PhDs, the ATM concepts roadmap, Call for thematic challenges submission, repository, etc. Other communication channels have been used to actively promote content and drive traffic to the website.

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The website was launched in the first month of the KTN and has provided a complete repository of activities until the launch of the EngageWiki [4], when some information was moved there. Some examples of what has been shared on the website are:

- Engage news: containing news about the KTN and SESAR activities.
- Call opportunities: Engage Calls and external Calls such as papers, abstracts and grants.
- PhD opportunities: Engage Call for PhDs and post-graduate theses and external PhD opportunities were listed on the website before being moved to the wiki.
- Jobs and internships: ATM-related jobs and internships were posted here until the wiki was active and the information was moved.
- Events: the events section of the website has been active, containing key information about ATM and research related events. Featured events include the SESAR Innovation Days (SIDs) and other conferences; Engage workshops and summer schools; SESAR Digital Academy webinars; other conferences and project workshops; competitions and awards; and other relevant events. This information has been updated, incorporating rescheduling due to Covid-19 as soon as the information has been made available.

From the launch of the website (20 January 2018) to D2.2 reporting (31 March 2022) there have been over 50600 page views, with an average of over 12000 page visits per year between 2018 and 2021. An exploratory research project website might typically expect around 1000 page views annually. The following figures present an overview of the complete website hits and more detailed statistics per year between 2018 and 2022, with the peak day highlighted. The website hits show over 13000 total users with an average of 3000 users per year.
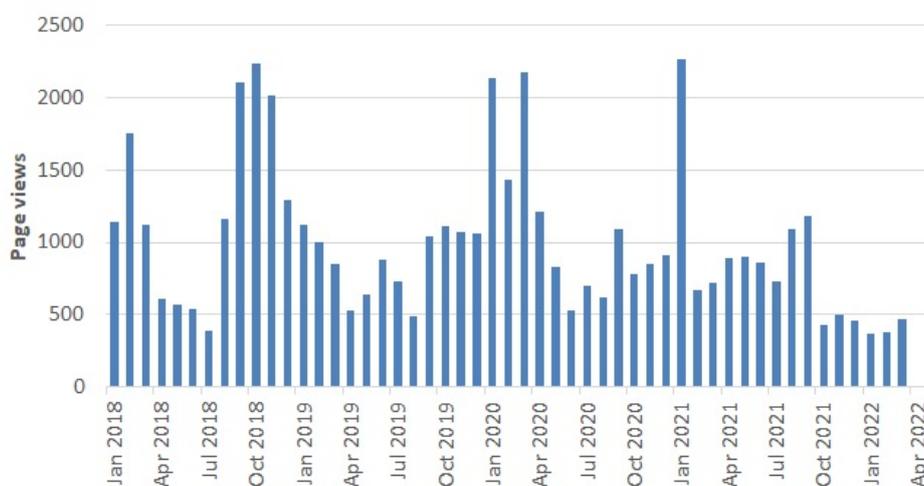
Figure 1: Engage website page views

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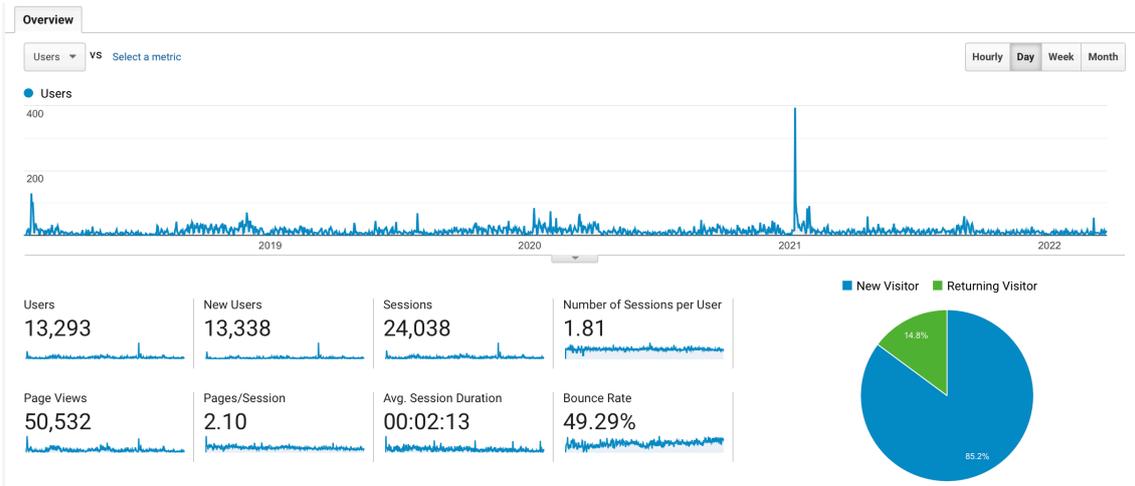
Figure 2: Engage website statistics January 2018 - March 2022
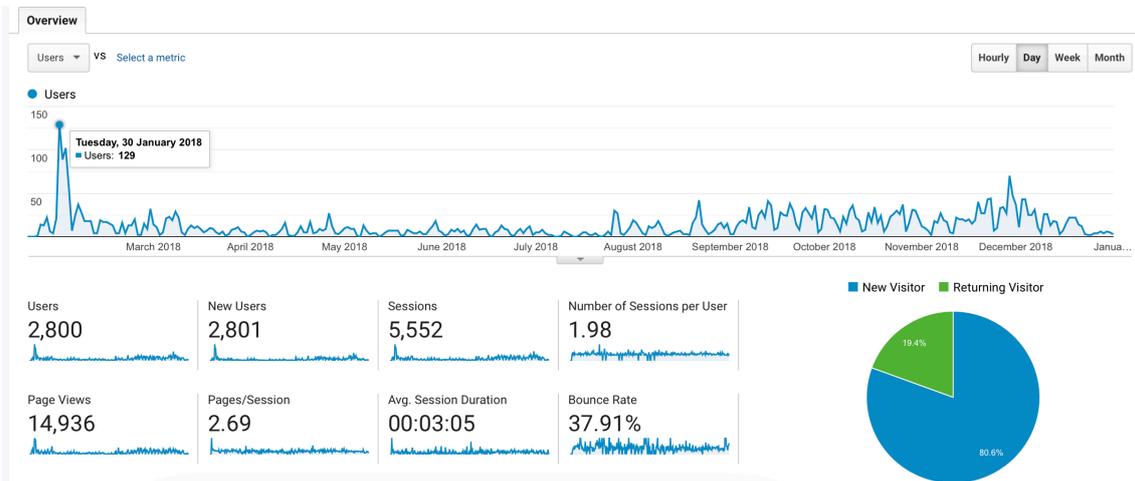
Figure 3: Engage website statistics full year 2018
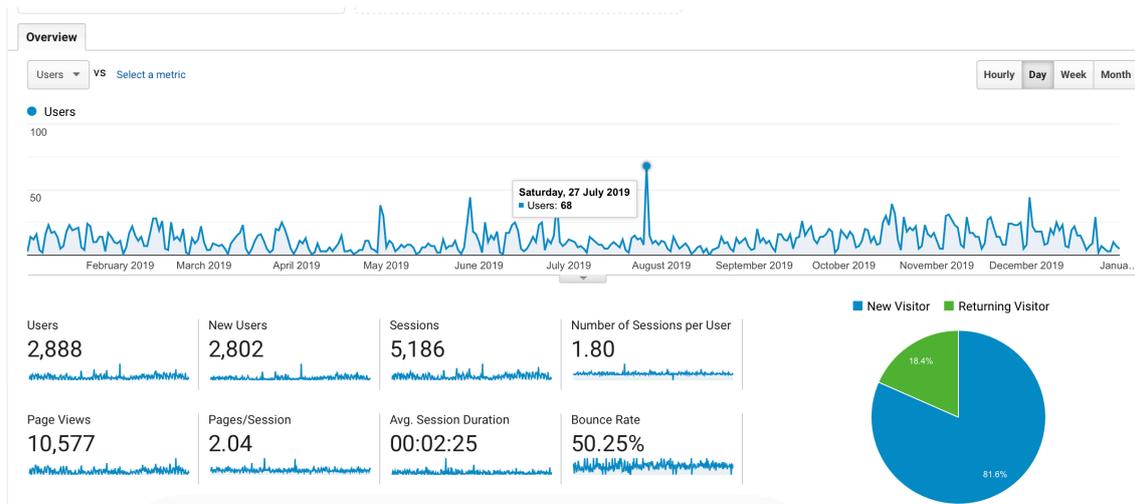
Figure 4: Engage website statistics full year 2019
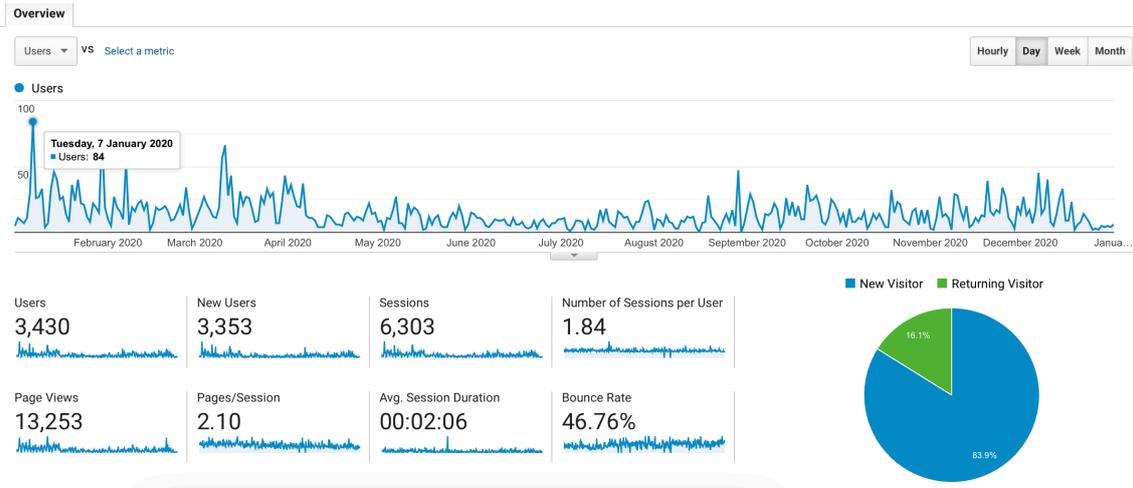
Figure 5: Engage website statistics full year 2020
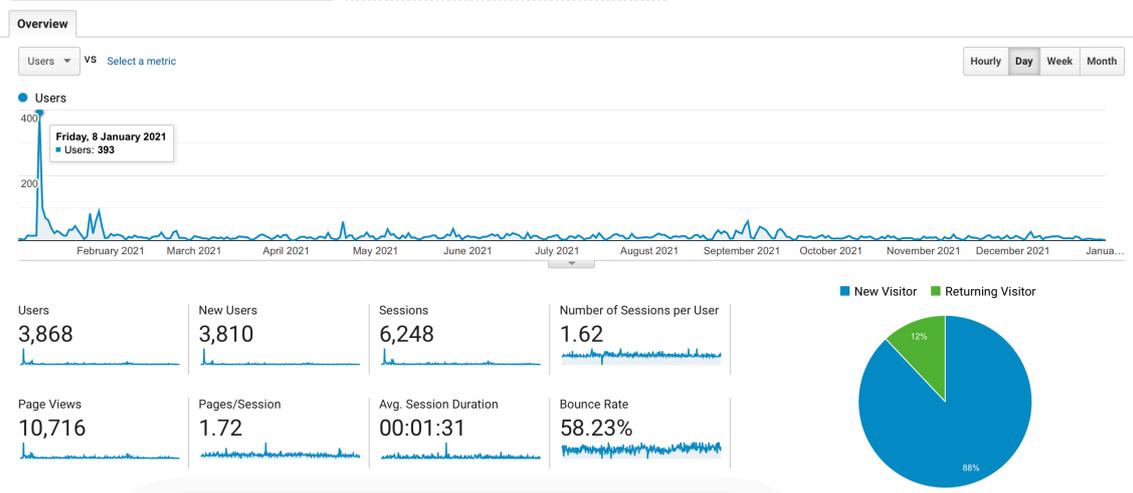
Figure 6: Engage website statistics full year 2021
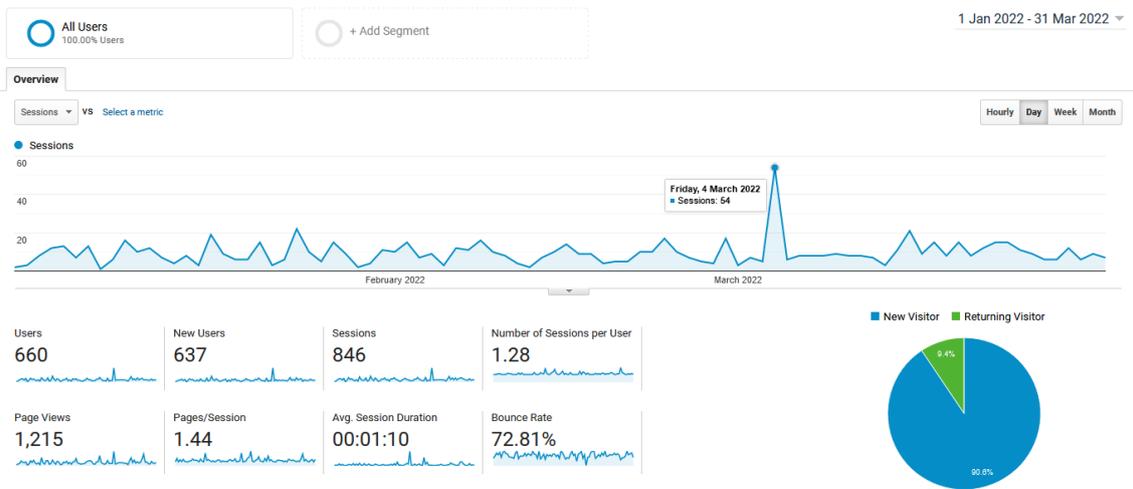
Figure 7: Engage website statistics Q1 2022

The following table shows the top 20 pages ranked in order of visits since the launch of the website. The most visited page ('/') is the homepage, and the top five is completed with the thematic challenges page, the events listing, about Engage and advertised jobs/internships. These statistics show how users have navigated through the website and the work put into updating all sections with news have been useful to the community, such as the Engage Calls (thematic-challenges, catalyst funding and PhDs/post-graduate theses), summaries and material relating to the Engage Calls, summer schools and employment/PhD opportunities.

Table 4: Engage website top 20 page visits

Rank	Page	Page views	Unique page views
1	/	16425	13380
2	/thematic-challenges/	5938	4483
3	/events/	4256	3647
4	/about/	2885	2292
5	/jobs-and-internships/	2865	2577
6	/participate/	2571	1987
7	/knowledge-hub/	2044	1673
8	/phd-call/	1809	1459
9	/catalyst-call2/	1710	1383
10	/catalyst-call1/	1422	1113
11	/contacts/	1259	945
12	/summer-school-2019/	1086	907
13	/phd-opportunities/	923	858
14	/summer-school-2020/	897	737
15	/cf-summaries/	790	579
16	/suggest-a-thematic-challenge/	491	358
17	/call-opportunities/	442	421
18	/catalyst-calls/	399	361
19	/phd-abstracts/	329	302
20	/summer-schools/	284	257

Table 5 shows the number of page views per month (2018-2021). In most cases, peak months each year were triggered by the publication of Engage Calls and events. For example, peak pages view in 2018, 2019 and 2020 occurred while the Call for PhDs and post-graduate theses, and 1st/2nd Calls for catalyst funding were open and being actively publicised on-line and via Twitter.

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Table 5: Engage website page views per month

Date	Page views	Engage Calls	Events
Jan 2018	1142	Call for thematic challenges	
Feb 2018	1755	Call for thematic challenges	
Mar 2018	1126	Call for thematic challenges	
Apr 2018	606		
May 2018	568		
Jun 2018	545		
Jul 2018	389		
Aug 2018	1164	Call for PhDs & post-graduate theses	
Sep 2018	2105	Call for PhDs & post-graduate theses	
Oct 2018	2230	Call for PhDs & post-graduate theses	1st TC4 workshop
Nov 2018	2011	1st Call for catalyst funding	1st TC2 & 1st TC3 workshops
Dec 2018	1290	1st Call for catalyst funding	SESAR Innovation Days 2018
Jan 2019	1124	1st Call for catalyst funding	
Feb 2019	1005	1st Call for catalyst funding	
Mar 2019	852		1st TC1 workshop
Apr 2019	534		
May 2019	641		
Jun 2019	885		
Jul 2019	733		
Aug 2019	493		
Sep 2019	1046		1st summer school
Oct 2019	1113		
Nov 2019	1076		2nd TC3 & 2nd TC4 workshops
Dec 2019	1063		SESAR Innovation Days 2019; 2nd TC2 workshop
Jan 2020	2129	2nd Call for catalyst funding	
Feb 2020	1428	2nd Call for catalyst funding	
Mar 2020	2171	2nd Call for catalyst funding	
Apr 2020	1211	2nd Call for catalyst funding	
May 2020	829		
Jun 2020	525		
Jul 2020	704		
Aug 2020	618		
Sep 2020	1087		2nd summer school
Oct 2020	779		
Nov 2020	854		2nd TC1 workshop
Dec 2020	911		SESAR Innovation Days 2020
Jan 2021*	2267		3rd TC2 & 3rd TC3 workshops
Feb 2021	673		

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Date	Page views	Engage Calls	Events
Mar 2021	718		
Apr 2021	893		
May 2021	898		
Jun 2021	862		3rd TC4 workshop
Jul 2021	734		
Aug 2021	1094		3rd summer school
Sep 2021	1186		3rd summer school; 4th TC2, 4th TC3 & 3rd TC1 workshops
Oct 2021	434		
Nov 2021	496		
Dec 2021	459		SESAR Innovation Days 2021

* High number of page views of the 'jobs and internships' page on 08JAN21.

2.3.2 Twitter

Figure 8: Engage Twitter account

The Engage Twitter account (twitter.com/EngageKTN) launched in May 2018 and has been active on a daily basis since then, sharing industry news, job/PhD announcements, funding opportunities, publications, events and other activities relevant to the ATM research community. Between May 2018 and February 2022, on average 35 Tweets (including an average of 13 original Tweets) plus retweets and replies have been sent per month (logged in Appendix I).

Engage has interacted with many Twitter users, including other projects, researchers, organisations, industry and European bodies. Continued support has been given to publicise the activities of the SESAR JU and SESAR projects.

A total of 800 followers was reached in March 2022. Figure 9 shows the growth rate in increments of 50 new followers.

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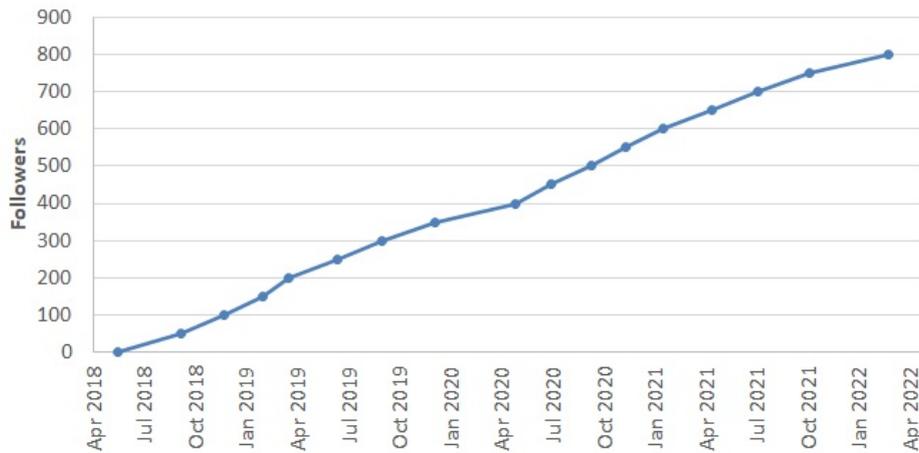
Figure 9: Engage Twitter account followers

Twitter 'impressions' are the number of times users saw Engage Tweets on Twitter. The following figures show the number of Engage Tweet impressions per month each year. To date, there have been an average of over 16k impressions each month.
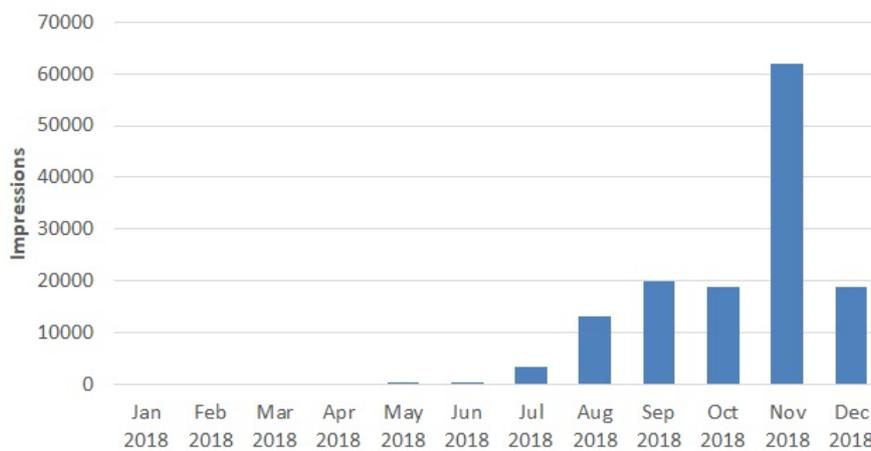
Figure 10: Engage Tweet impressions full year 2018

Note that the peak impressions in 2019 (Figure 11) relate to a small number of well-viewed Engage Tweets, such as a reminder on 07 January about the 2019 Safety Forum Call for Submissions (66k impressions) and a Tweet on 28 June publicising an article on fuel tankering (92k impressions).
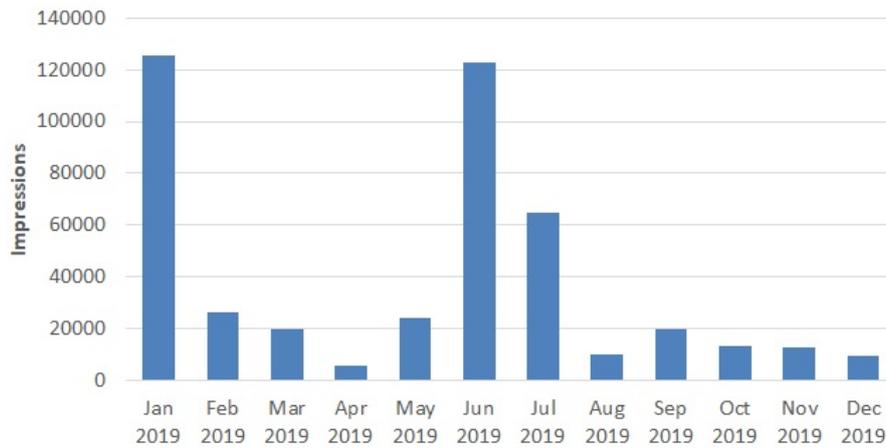
Figure 11: Engage Tweet impressions full year 2019
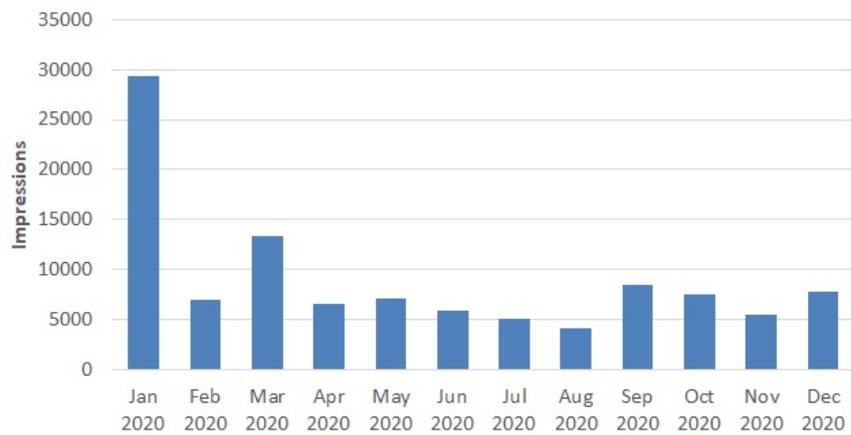
Figure 12: Engage Tweet impressions full year 2020
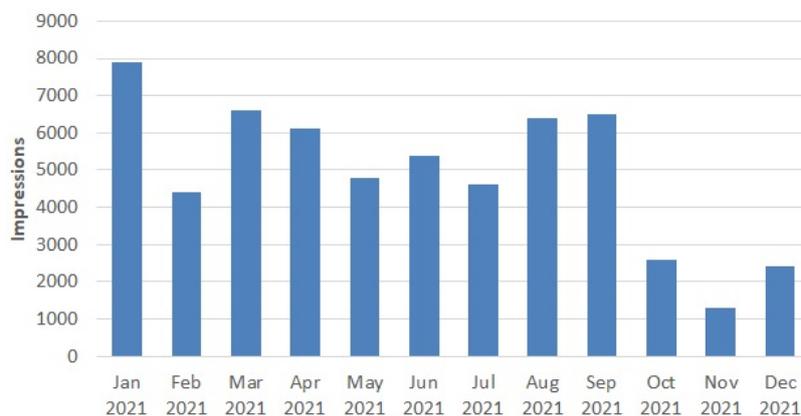
Figure 13: Engage Tweet impressions full year 2021

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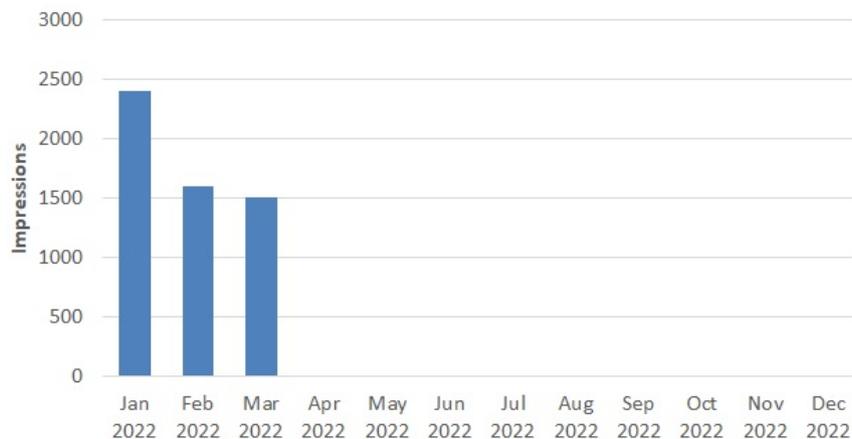
Figure 14: Engage Tweet impressions Q1 2022

A list summarising Tweets and retweets is available in Appendix I.

2.3.3 LinkedIn

A LinkedIn group was created in the first months of the project but proved to be less active than Twitter, so effort was instead focused on Twitter. Engage still has a presence on LinkedIn through the activity of the consortium members' company profiles (such as Innaxis' profile), SESAR profile and the personal LinkedIn accounts. These accounts already attract a wide audience, so it has been possible to disseminate Engage posts. The LinkedIn activities can be found under Appendix I.

2.3.4 Engage Wiki communications

In order to promote the use of the Engage wiki, a series of short videos about the wiki and its features are being created and shared through social media channels along with some short user tutorials. The first generic video was launched in February 2022, followed by a second one in April showcasing the European university programmes database. Further videos will be launched up to the closure of Engage in June 2022. The videos comprise:

- **A generic video about the wiki:** talking about its origins within the Engage project and describing its features and use, encouraging users to register and add information to the pages they can edit.
- One specific video per feature:

    o **Interactive research map of ATM:** this video explains how the information to create the map was gathered and how the tree overview was built, mentioning how natural language processing (NLP) was applied to create the tree, and showing the map visualisation and how the user can navigate through it.
    o **ATM concepts roadmap:** this video presents the conceptual design and implementation of the ATM concepts roadmap, how NLP and semantic similarity mapping was used to build the roadmap, and how the user can navigate through the visualisation.
    o **European university programmes:** this video talks about how this feature aims to be a one-stop resource for undergraduate programmes related to air transport

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engineering and aviation management, and postgraduate programmes that perform ATM-related research. The idea behind this feature is to encourage students to search for information but also to encourage universities to add their programmes. The video is directed to both audiences.

o **Research repository:** this video explains how the materials were gathered and which specific Calls and documents/papers are available, it also shows the filters available and demonstrates how to use them.

These videos will continue to be posted on Engage and Innaxis' social media and will be made available in a public video channel on Vimeo.

2.4 Coordination with the SESAR Scientific Committee

Coordination with the SESAR Scientific Committee (SC) has been facilitated through members of the Engage consortium (who were also SC members) up to closure of the SC in December 2021[2]. Planning and updates of Engage activities were presented and discussed at the regular SC meeting – typically four per year.

2.5 Outputs from third parties

Engage has supported many types of research outputs from PhD candidates and catalyst fund projects. These 'third parties' have been active from the second year of the KTN onwards – Table 6 summarises the types of outputs, with the full list (to August 2022) available in Appendix III.

Table 6: PhD and catalyst fund project outputs

Type of output	PhD candidates	Catalyst fund projects
Article	2	1
Book chapter	2	2
Brochure	-	1
Code	2	1
Conference paper	28	12
Demonstration	-	1
Dissemination	-	14
Journal article	11	4
Poster	2	9
Presentation	47	54
Report	10	24
Tool	-	2

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[2] The SESAR 3 JU Scientific Committee is expected to launch later in 2022.

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Type of output	PhD candidates	Catalyst fund projects
Video*	-	3
White paper	-	1
Working paper	2	-

* Pre-recorded videos of presentations for virtual events are included within 'Presentation'

A range of PhD and CF project outputs have been produced, including two SWIM webservices ('Tool').

Of the 101 presentations, the majority were given at the three Engage summer schools and 14 thematic challenge workshops, however other events include EGU General Assembly, CANSO Strategic Technology Workgroup, Amsterdam Drone Week, ICAO Global Symposium and project workshops.

There have been 40 conference papers: a third were presented at the SIDs; the combined total of papers presented at ICRAT and ATM R&D Seminar accounted for almost a third; and the final third or so were spread across all other events.

To date, 15 journal articles have been published by PhDs and CF projects, although further PhD articles are at various stages of the submission process. Table 7 summarises the publishing journals, with all articles available as open access (direct links are given in Appendix III).

Table 7: Journals with PhD and catalyst fund project articles

Journals	Articles
Aerospace	2
Applied Sciences	1
Array	1
Computers and Operations Research	1
EURO Journal on Transportation and Logistics	1
IEEE Access	4
IEEE Transactions on Aerospace and Electronic Systems	1
Journal of Air Transport Management	1
Transportation Research Part C: Emerging Technologies	2
Transportation Research Procedia	1

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3 Dissemination of SESAR ER results

The Engage 'knowledge hub', hosting ATM research and knowledge, was formally launched at the SESAR Innovation Days 2020 as the 'EngageWiki'. The wiki, as described in D3.9 [8], provides a platform and consolidated repository with novel user functionality, but also hosts an interactive research map of ATM, which allows researchers to investigate, in various interactive modes, a full corpus of SESAR Exploratory Research and Industrial Research results in one place, thus delivering far more than a simple, passive dissemination platform. This thus meets the ambition of mapping ER and IR, with the planned "industrial research coordination map" included in the same tool, serving to "break down barriers between these research silos". Furthermore, these efforts are brought together synergistically in the mapping and data-driven identification of future research opportunities, notably through the functionality of, and activities associated with, the Engage ATM concepts roadmap (another feature of the wiki).

In terms of direct ('pure') dissemination, the wiki and its functionalities have been promoted across the numerous Engage workshops in 2021, which have brought together a wide diversity of ER and IR researchers both through engagement in the workshops and through the 18 catalyst fund projects (as reported upon in D2.7 [7]), and also at the Engage summer schools (as reported in D5.14 [9]), thus also reaching other invited PhD candidates and industry speakers and panellists participating in these events, in addition to direct communications to the Engage PhDs and their supervisory teams.

3.1 Interactive mapping and repository from the Engage KTN

In support of the mapping of ATM research concepts, and with a goal of building easy to use yet powerful interactive maps embracing both ER and IR activities, the Engage research mapping task focused on a bottom-up discovery of themes and clusters of research. Key information was extracted from previous SESAR projects, and this was used to create research themes (clusters). The process has previously been discussed in detail by D3.9 [8].

Engage built a customised web-based application to visualise and explore the clusters and all the corresponding projects. Figure 15 shows the high-level interactive map, with the 14 clusters. Each node is a project.

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Interactive research map of ATM
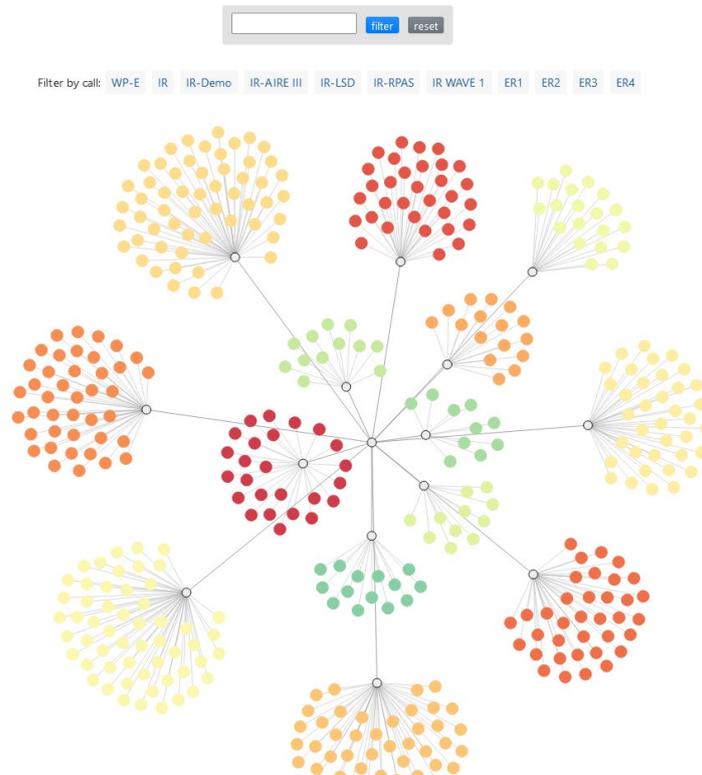
Figure 15: Research mapping – the 14 clusters

The search bar allows projects with relevant metadata, including project titles, keyword, partners, etc., to be quickly identified (see Figure 16).

Interactive research map of ATM

Figure 16: Search by partner (e.g. "TU Delft")

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The projects can also be filtered by different SESAR Calls. Figure 17 shows the example of all available ER3 projects, as well as the cluster to which they belong.

Interactive research map of ATM

Figure 17: Filter by call (e.g. "ER3")

When a specific project is selected, detailed information is then shown. Figure 18 shows an example project. The displayed information includes: Call information, partners, research theme, budget, duration, public deliverables (if available) and keywords. The public deliverables are directly linked to public documents in EngageWiki's research repository or documents in the European Commission's CORDIS portal.

Interactive research map of ATM

Figure 18: Detailed project information (e.g. "CLASS")

Turning to the research repository in the EngageWiki, deliverable and conference paper metadata (prepared by Engage) are used by the research repository's search and filter functionality. The project identifier field, containing either the SESAR 1 WBS number or SESAR 2020 Grant Agreement number, is used to link deliverable and conference paper metadata with project metadata. As of the end of 2021, the research repository currently has **362 projects**, with a total of **1440 deliverables/reports (including CORDIS links)**, and **653 conference papers**.

The final research repository database was visualised with dynamic filtering functionalities as the main objective. The different projects and papers in the database are displayed as individual 'capsules' containing relevant information, preferable to the more traditional table format when using search filters.

Figure 19: Research repository (Projects) main page

By default, when a user accesses the research repository, the projects database is accessed. The layout and functionality are analogous in both the projects and papers areas of the repository – to perform a search for papers there is a button at the top-left (as shown in Figure 19) to change the view to the papers database.

The main filter panel is in the left column. This panel allows users to perform a specific search of projects/papers through the use of different fields. There are three main types of filters: the first, whereby the user directly selects the desired options from a list of checkbox options; the second, whereby with the help of free text the user can search then select the desired option; the third, whereby a slider filter enables a temporal range specification. These can be seen in Figure 19 and Figure 20. Note that all filters can be used in conjunction with each other as shown in Figure 21 and Figure 22.

Research repository: Papers

« Search in Projects

Conference
- ☐ SESAR Innovation Days
- ☐ USA/Europe ATM R&D Seminar

Year
2011 — 2020

Project
Select a filter value

Theme
Select a filter value

PaperID
Select a filter value

2011-04

Trajectory Uncertainty and the Impact on Sector Complexity and Workload

Conference: SESAR Innovation Days | Year: 2011

Theme: Trajectory Management

2011-06

Optimal Air Traffic Delays

Conference: SESAR Innovation Days | Year: 2011

Theme: Economics

2011-10

Flow management without en route capacity limitations by pre-tactical trajectory compatibility determination

Conference: SESAR Innovation Days | Year: 2011

Theme: Flow Management

Figure 20: Research repository (Papers) main page

Years
2009 2017 2021
2009 2012 2015 2018 2021

Programme
- ☐ SESAR 1
- ☐ SESAR 2020

Call
× ER3   × IR Wave 2

Figure 21: Example of multiple filters applied (Projects)

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Figure 22: Example of multiple filters applied (Papers)

The different projects/papers present in the database are shown in the right column in the form of capsules. For a manual search, the user is able to scroll down the page. When a filter is applied, the column is automatically updated to show only projects/papers matching the selected conditions.

In the case of projects, by clicking on a project capsule the user will be redirected to a project-specific page in the wiki where they will find information related to the specific project (WBS, acronym, SESAR programme, Call, start year and end year) as well as a list of all available project documents (see Figure 23). These include documents available exclusively in the EngageWiki database, as well as some available in the CORDIS database. Clicking on any of these documents will redirect the user to the relevant page, where the document will be downloaded automatically. In the case of papers, there is no dedicated wiki page. If the user clicks on the title of the paper in the capsule, instead of being redirected to a specific page, the user is redirected directly to the download link.

Figure 23: Example of project-dedicated page

4 Best practices and lessons learned

During the four years of the KTN's duration, there has been a significant change in communication procedures and channels related to the travel limitations in place since March 2020 and still active. An agile shift towards stronger on-line presence and organisation of on-line events has been required. The team has learnt during this process based on the impact of the different actions performed. Particularly:

1. **On-line events:** Engage experienced the Covid-19 era which brought new situations and a new way to deal with events in the virtual environment. People have become used to meeting tools that were not that common before the pandemic. In the early months of the pandemic when much of the world was in lockdown the only option was to host events on-line. However as the pandemic progressed, some countries became more open while others were more restrictive with Covid-19 measures so it was difficult to plan in-person events, as the uncertainty level was high. The following best practices have been learnt and applied by the team:

   o **Audience attendance:** on-line events allowed a higher attendance rate, since travel was not required, and it became easier for anyone to join an on-line event. However, the challenge has been associated with creating awareness among the relevant audience and getting their attention particularly since the number of on-line events has significantly grown in recent months. This fact requires a **broad network of contacts to be built** and a well-populated social media presence with **dedicated communication campaigns per event.** In order to improve awareness, it is also recommended to **co-host meetings**, when possible, to broaden the network of contacts and facilitate cross-fertilisation among synergic projects.

   o **Audience engagement:** it is important to first decide the event objective: communicating project results or capture feedback from the audience in order to adapt the format and duration of the event and improve audience engagement. In the first case - dissemination events - shorter events should be organised and **participation from the audience should be called through short surveys, Q&A sessions, discussion slots and quizzes**. In the second case, where input from the audience would be needed, it is important to carefully **select the most suitable platform**, finding the balance among the functionalities of the platform and the intuitiveness and user experience. In both cases, the role of the **moderator** is crucial to facilitate the event dynamics and stimulate the audience. Several tools offer metrics about the level of attention from the audience.

   o **Event duration:** the selection of the duration is a very relevant factor for on-line events and it is a limiting factor. While a one-day meeting was considered a minimum duration for physical events to make the trip worthwhile, with on-line events it can be difficult for an audience to commit to a full day and it is more likely that your audience will partly join. The flexibility of the on-line events makes it more difficult to plan in advance. It is suggested to **request attendance confirmation for the different sessions if this is an important fact for your meeting**. Shorter events have proven to be more successful. And while it can be difficult to involve people to participate in activities proposed by the workshop organisers, a mitigation action can be to send post-event surveys to collect input.

o **Pre-event communication**: in order to take maximum benefit from the event, it is especially important to organise a suitable level of communication prior to the event. Due to the limited duration of an on-line event, a clear pre-event communication campaign is considered a best practice in order to **establish the meeting objectives** (particularly if input from the audience is needed) and to **promote the event visibility** and differentiating it from others.

o **Platforms:** it has been learnt from experience that using on-line conferencing **platforms that the audience is familiar with** is highly recommended for a smooth conference organisation. In addition, arranging **preparatory sessions with speakers** are essential to anticipate potential problems as much as possible. Additionally, **enabling a 15-30 minute slot before an on-line event is necessary to solve potential IT issues** beforehand. The most popular platforms, offering intuitive interfaces and simple user experience have been preferred, even if more limited in features, in order to facilitate participation. Additionally, it is recommended to use the **minimum number of different platforms** for an event or **look for integrated solutions** for videoconferencing, polls, and Q&As. While specific platforms might be better for each of the applications, it is difficult to maintain audience engagement if using multiple platforms simultaneously. For the case of collaborative meetings/workshops, this fact is especially important due to the risk of losing part of the audience who cannot easily interact with the chosen platform.

o **Recording:** If allowed by GDPR, and provided the necessary permissions are in place (to be prepared beforehand), it is **recommended to record events** as it is an inexpensive way to broaden the scope of a meeting and maximise the audience. It is also recommended to publicise the recordings after the event to support the discussion with the audience.

2. **On-line communication:**

o **Newsletters:** a very strong communication media campaign that has pushed the Engage project dissemination is the newsletter. Engage has been featured in both the Innaxis and the SESAR newsletters, especially the latter. Being involved in SESAR communication activities has greatly supported Engage and has driven visits to the Engage website and wiki. Finding synergies among relevant groups of expertise is good practice to help maximise the impact of campaigns.

o **Twitter:** in addition to the communication channels, the communication material also needs to be adapted. Longer technical material can have less impact than shorter and more visual content. As an example, towards the beginning of the project, the decision was made to move away from writing monthly blogposts to instead maintain an active Twitter account. Twitter has been used to promote use of the website and wiki, for example by publicising its features through a series of two-minute videos with a short but clear explanation of what users can find in the EngageWiki and how to make the best use of it.

o **LinkedIn:** At the start of the KTN it was also initially decided to make an Engage LinkedIn group in order to share all Engage news. Many people were invited to the group but not everyone accepted the invitation and Engage news was being followed by a limited number of people outside the consortium. Taking into account Innaxis' LinkedIn profile numbers, and the consortium members personal profiles numbers, the LinkedIn activity was moved from an Engage group to be shared through the Innaxis account and the personal profiles, which proved more active than groups.

5 References

[1]   Engage project, 2017. Grant Agreement 783287, Ref. Ares(2017)6114946 - 13/12/2017.

[2]   Engage website, 2022. Events page https://engagektn.com/events/.

[3]   Engage website, 2022. Thematic challenges page https://engagektn.com/thematic-challenges/.

[4]   EngageWiki, 2022. https://wikiengagektn.com/.

[5]   EngageWiki, 2022. Research repository - papers page https://wikiengagektn.com/EngageWiki:Research_repository/Papers.

[6]   Engage project, 2018. D2.1 Communication plan, website, and visual identity material, Edition 01.00.00, February 2018.

[7]   Engage project, 2021. D2.7 Annual combined thematic workshops progress report (series 3), Edition 01.00.00, November 2021.

[8]   Engage project, 2022. D3.9 The Engage wiki - an update on the KTN's knowledge hub functionality, research maps and repository, Edition 01.01.00, August 2022.

[9]   Engage project, 2022. D5.14 Engage SESAR Summer School 2021, Edition 01.01.00, March 2022.

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6 Acronyms

ASDA	Association for the Scientific Development of ATM in Europe
ATM	Air Traffic Management
CF	Catalyst fund project
CF1	First Call for catalyst funding
CF2	Second Call for catalyst funding
EASA	Short name of Engage consortium: European Aviation Safety Agency
ECTL	Short name of Engage consortium: EUROCONTROL
ER	Exploratory research
FREQ	Short name of Engage consortium: Frequentis
FTTE	Short name of Engage consortium: University of Belgrade – Faculty of Transport and Traffic Engineering
GDPR	General Data Protection Regulation
INX	Short name of Engage consortium: Innaxis Research Institute
IR	Industrial research
KTN	Knowledge Transfer Network
NLP	Natural language processing
SC	SESAR Scientific Committee
SIDs	SESAR Innovation Days
SJU	SESAR Joint Undertaking
TC	Thematic challenge
TC1	Thematic challenge 1: Vulnerabilities and global security of the CNS/ATM system
TC2	Thematic challenge 2: Data-driven trajectory prediction
TC3	Thematic challenge 3: Efficient provision and use of meteorological information in ATM
TC4	Thematic challenge 4: Novel and more effective allocation markets in ATM
TUD	Short name of Engage consortium: Delft University of Technology
UNITS	Short name of Engage consortium: University of Trieste
UoW	Short name of Engage coordinator: University of Westminster

WBS   Work breakdown structure

YSA   SESAR Young Scientist Award

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7 Appendix I

7.1 List of Engage mail-outs, newsletters, posts

In some instances, 'reach' is unavailable or has been estimated in the following table.

Table 8: List of Engage mail-outs, newsletters, posts

#	Date	Who	Action	Media	Reach	Summary
1	18JAN18	SJU	Engage news to ER project leaders	mail-out (SJU)	9 projects	Engage launch
2	18JAN18	SJU	Engage news SESAR Scientific Committee & observers	mail-out (SJU)	12	Engage launch
3	26JAN18	UoW	Inform industry partners, ASDA & NEXTOR II of website launch/thematic challenges	mail-out	78	Engage website launch/thematic challenges
4	29-31JAN18	UoW/INX	Inform wider community of website launch/thematic challenges	mail-out	7856	Engage website launch/thematic challenges
5	JAN18	INX	Inform wider community of website launch/thematic challenges	LinkedIn (INX)	700+	Engage website launch/thematic challenges
6	30JAN18	ASDA	Inform ASDA membership of website launch/thematic challenges	mail-out (ASDA)	50	Engage website launch/thematic challenges
7	30JAN18	SJU	Inform wider community of website launch/thematic challenges	LinkedIn (SJU)	N/A	Engage thematic challenges
8	30JAN18	SJU	Inform wider community of website launch/thematic challenges	Twitter (SJU)	N/A	Engage thematic challenges
9	28FEB18	SJU	Engage in the SESAR newsletter	SESAR newsletter (e-news #80)	N/A	SESAR project of the month
10	14MAR18	UKRO	Inform UK researchers of Engage	news item (UKRO)	N/A	Engage launch

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#	Date	Who	Action	Media	Reach	Summary
11	26APR18	SJU	Engage in the SESAR newsletter	SESAR newsletter (e-news #82)	N/A	Engage PhD Call teaser
12	02MAY18	UoW	Inform wider community of Engage	news	N/A	Engage launch
13	26JUL18	SJU	Engage in the SESAR newsletter	SESAR newsletter (July 2018 *[e-news #85, though not stated]*)	N/A	Engage thematic challenge workshops Engage PhD Call teaser
14	09-22AUG18	UoW	Inform industry partners, subscribers, ASDA & NEXTOR II of PhD Call launch	mail-out	2180	Engage PhD Call
15	21AUG18	INX	Inform wider community of PhD Call launch	LinkedIn (INX)	800+	Engage PhD Call
16	22AUG18	INX/SJU	Inform wider community of PhD Call launch	LinkedIn (SESAR Group)	5978	Engage PhD Call
17	22AUG18	FREQ	Inform wider community of PhD Call launch	LinkedIn (FREQ)	5605	Engage PhD Call
18	22AUG18	FREQ	Inform wider community of PhD Call launch	Facebook (FREQ)	1673	Engage PhD Call
19	07SEP18	ECTL	Inform wider community of PhD Call & thematic challenges	mail-out	195	Engage PhD Call Engage thematic challenge
20	11SEP18	ASDA	Inform ASDA membership of PhD Call & thematic challenges	mail-out (ASDA)	50	Engage PhD Call Engage thematic challenge
21	13SEP18	SJU	Inform National Contact Points of PhD Call & thematic challenges	mail-out (SJU)	43	Engage PhD Call Engage thematic challenge
22	SEP18 / OCT18	Workshop organisers (Engage consortium members)	Inform target audience(s) of TC workshop(s)	mail-outs	N/A	Engage thematic challenge workshops

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#	Date	Who	Action	Media	Reach	Summary
23	28SEP18	SJU	Engage in the SESAR newsletter	SESAR newsletter (September 2018)	N/A	Engage thematic challenge workshops registration open Engage PhD Call
24	02OCT18	ECTL	internal update on challenges and request for participation in WSs	mail-out	180	Engage thematic challenge workshops registration open
25	26OCT18	SJU	Engage in the SESAR newsletter	SESAR newsletter (October 2018)	N/A	Engage 1st catalyst Call opening soon
26	31OCT18	ASDA	Inform ASDA membership of 1st catalyst Call	mail-out (ASDA)	50	Engage 1st catalyst Call opening soon
27	09NOV18	EC	SIDs in the events section of the EC newsletter	Mobility and Transport Newsletter	N/A	SIDs
28	22-30NOV18	UoW/INX	Inform industry partners, subscribers, etc. of 1st catalyst Call launch	mail-out	4875	Engage 1st catalyst Call
29	29NOV18	SJU	Engage in the SESAR newsletter	SESAR newsletter (November 2018)	N/A	Engage 1st catalyst Call
30	30NOV18	ASDA	Inform ASDA membership of 1st catalyst Call	mail-out (ASDA)	50	Engage 1st catalyst Call
31	NOV18	G.A.R.S.	Inform G.A.R.S. membership of 1st catalyst Call	G.A.R.S. newsletter	350	Engage 1st catalyst Call
32	31JAN19	ASDA	Remind ASDA membership of 1st catalyst Call	mail-out (ASDA)	50	Engage 1st catalyst Call
33	JAN19	ETNA 2020	Engage in the ETNA 2020 Newsletter	ETNA 2020 Newsletter (January 2019)	N/A	Engage 1st catalyst Call
34	27FEB19	FREQ	Engage in the Frequentis research bulletin newsletter	FREQ newsletter	N/A	Engage activity overview

#	Date	Who	Action	Media	Reach	Summary
35	22FEB19	INX	Inform wider community of thematic challenge 1 workshop	mail-out	2500+	Engage thematic challenge workshop registration open
36	27FEB19	SJU	Engage in the SESAR newsletter	SESAR newsletter (February 2019)	N/A	Engage thematic challenge workshop registration open
37	11MAR19	INX	Inform wider community of thematic challenge 1 workshop	mail-out	2500+	Engage thematic challenge workshop agenda available
38	30APR19	INX	Engage in the INX newsletter ("The Innaxis Post")	mail-out	2500+	Engage thematic challenge workshop documents available PhD and catalyst funding
39	30APR19	SJU	Engage in the SESAR newsletter	SESAR newsletter (April 2019)	N/A	Engage thematic challenge workshop documents available Tadorea and UPM PhD position
40	28MAY19	FTTE	Inform wider community of Belgrade summer school	LinkedIn (FTTE)	774 (views)	Engage 1st summer school
41	29MAY19	SJU	Engage in the SESAR newsletter	SESAR newsletter (May 2019)	N/A	Engage 1st summer school
42	JUN19	FTTE/UoW	Survey of European undergraduate programmes in the field of air transport	mail-out	50	Engage support for a future ATM skilled workforce
43	JUN19	G.A.R.S.	Inform G.A.R.S. membership of 1st summer school	G.A.R.S. newsletter	350	Engage 1st summer school
44	JUL19	Workshop organisers (ECTL/UoW /UNITS)	Inform target audience(s) of TC workshop(s)	mail-outs	N/A	Engage thematic challenge workshops (x3)
45	30SEP19	SJU	Engage in the SESAR newsletter	SESAR newsletter (September 2019)	N/A	Engage thematic challenge workshops (x3)

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#	Date	Who	Action	Media	Reach	Summary
46	08OCT19	UoW	Post to research community about 1st summer school	LinkedIn (UoW)	697	Engage 1st summer school
47	08OCT19	UoW	Post to research community about TC workshops	LinkedIn (UoW)	697	Engage thematic challenge workshops (x3)
48	24OCT19	SJU	Engage in the SESAR newsletter	SESAR newsletter (October 2019)	N/A	Engage thematic challenge workshops (x3)
49	06NOV19	INX	Engage in the INX newsletter ("The Innaxis Post - AUTUMN 2019")	mail-out	2500+	Engage thematic challenge workshops (x3) 1st summer school 2nd catalyst Call opening soon
50	27NOV19	INX	Engage in the INX SIDs newsletter ("The Innaxis Post - SIDs 2019 & Digital Sky Challenge")	mail-out	2500+	Engage thematic challenge workshop Engage presentation at SIDs
51	29NOV19	SJU	Engage in the SESAR newsletter	SESAR newsletter (November 2019)	N/A	Engage 2nd catalyst Call opening soon
52	NOV19	UoW	Post to research community about TC workshop	LinkedIn (UoW)	230	2nd series of Engage thematic challenge workshops
53	02DEC19	UoW	Post to research community about TC2 workshop	LinkedIn (UoW)	1700	Engage thematic challenge workshop
54	10DEC19	SJU	Engage news item on the SJU website (as no SESAR newsletter in DEC19)	SESAR news item	N/A	Engage look ahead to 2020 activities (thematic challenge workshop, summer school, 2nd catalyst Call)
55	23-24DEC19	UoW	Publication of updated versions of Engage thematic challenge documents	mail-out	130	Engage thematic challenge documents (x4)
56	07JAN20	UoW	News aimed at thematic challenge 3 community	mail-out	25	Halaby Graduate Student Fellowship

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#	Date	Who	Action	Media	Reach	Summary
57	07JAN20	ECTL	Inform ART membership of CF2 Call launch	mail-out	200	Engage 2nd catalyst Call
58	11JAN20	UoW	Post to reach community about CF2 Call	LinkedIn (UoW)	510	Engage 2nd catalyst Call
59	16-17JAN20	UoW	Inform industry partners, subscribers, existing CF1 projects, etc. of CF2 Call launch	mail-out	2775	Engage 2nd catalyst Call
60	JAN20	ECTL	Post to reach community about Engage	LinkedIn (ECTL)	65240	ECTL involvement in Engage activities
61	30JAN20	SJU	Engage in the SESAR newsletter	SESAR newsletter (January 2020)	N/A	Engage thematic challenge workshop 2nd summer school 2nd catalyst Call Job page
62	27FEB20	SJU	Engage in the SESAR newsletter	SESAR newsletter (February 2020)	N/A	Engage thematic challenge workshop listed in upcoming events
63	10-11MAR20	UoW	Inform industry partners, subscribers, etc. of CF2 Call launch	mail-out	890	Engage 2nd catalyst Call
64	13MAR20	UoW	Post to research community about technical workshop on building passenger itineraries	LinkedIn (UoW)	1170	Engage technical workshop
65	31MAR20	SJU	Engage in the SESAR newsletter	SESAR newsletter (March 2020)	N/A	Engage thematic challenge workshop listed in upcoming events
66	29JUL20	SJU	Engage in the SESAR newsletter	SESAR newsletter (July 2020)	N/A	Engage 2nd summer school Engage thematic challenge workshop listed in upcoming events
67	12-14AUG20	UoW	Invitation to test new interactive research mapping tool	mail-out	120	Use case feedback requested

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#	Date	Who	Action	Media	Reach	Summary
68	30SEP20	SJU	Engage in the SESAR newsletter	SESAR newsletter (September 2020)	N/A	Engage thematic challenge workshop listed in upcoming events
69	29OCT20	SJU	Engage in the SESAR newsletter	SESAR newsletter (October 2020)	N/A	Engage thematic challenge workshop listed in upcoming events
70	30NOV20	SJU	Engage in the SESAR newsletter	SESAR newsletter (November 2020)	N/A	Engage thematic challenge workshops (TC2 and TC3)
71	04DEC20	UoW	Reminder of last chance to register for the SESAR Innovation Days (target of 1000 registrations)	mail-out	120	SIDs 2020
72	15DEC20	SJU	Engage in the SESAR Innovation Days newsletter (post-event)	ad hoc SIDs newsletter (December 2020)	N/A	Engage presentations and Engage Wiki
73	28JAN21	SJU	Engage in the SESAR newsletter	SESAR newsletter (January 2021)	N/A	Jobs/internships opportunities listed on Engage website
74	31MAR21	UoW	Inform academia of EngageWiki's university programmes database and teaching resources support (feedback invited)	mail-out	82	EngageWiki content
75	02APR21	ATAERA	Inform ATAERA ('Air Transport and Aeronautics Education and Research Association') membership of EngageWiki's university programmes database and teaching resources support (feedback invited)	mail-out	20	EngageWiki content
76	15APR21	UoW	Inform catalyst fund project coordinators about the Digital European Sky Awards	mail-out	22	Digital European Sky Awards
77	30APR21	SJU	Engage in the SESAR newsletter	SESAR newsletter (April 2021)	N/A	Engage thematic challenge workshop listed in upcoming events

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#	Date	Who	Action	Media	Reach	Summary
78	05MAY21	SJU	Inform wider community of Engage economic incentives for future ATM implementation workshop	LinkedIn (SJU)	8000+	Engage thematic challenge workshop (TC4)
79	10MAY21	UoW	Inform Engage and EUROCONTROL PhD teams about the 3rd summer school and gold open access grants	mail-out	38	Engage 3rd summer school and gold open access grants
80	21MAY21	UoW	Inform Engage and EUROCONTROL PhD teams about gold open access grants	mail-out	38	Engage gold open access grants
81	27MAY21	SJU	Engage in the SESAR newsletter	SESAR newsletter (May 2021)	N/A	Engage thematic challenge workshop (TC4)
82	11JUN21	UoW	Engage economic incentives for future ATM implementation workshop	mail-out	37	Engage thematic challenge workshop (TC4)
83	14JUN21	UoW	Inform catalyst fund project coordinators about forthcoming Engage workshops	mail-out	35	Engage thematic challenge workshops (TC2, TC3 and TC4)
84	09JUL21	UoW	Inform Engage and EUROCONTROL PhD teams about forthcoming events	mail-out	38	Engage 3rd summer school Engage thematic challenge workshops (TC1, TC2 and TC3) SESAR Young Scientist Award 2021 SESAR Innovation Days conference papers
85	20JUL21	SJU	Engage in the SESAR newsletter	SESAR newsletter (July 2021)	N/A	Engage thematic challenge workshops (TC1, TC2 and TC3) Engage 3rd summer school
86	20JUL21	UoW	Update to Engage and EUROCONTROL PhD teams about forthcoming events	mail-out	38	Engage 3rd summer school Engage thematic challenge workshops (TC1, TC2 and TC3) SESAR Young Scientist Award 2021

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#	Date	Who	Action	Media	Reach	Summary
						SESAR Innovation Days conference papers
87	21JUL21	UoW	Inform industry partners, subscribers, etc. about the Engage TC1, TC2, TC3 workshops and 3rd summer school	mail-out	130	Engage thematic challenge workshops (TC1, TC2 and TC3) Engage 3rd summer school
88	09SEP21	UoW	Inform Engage and EUROCONTROL PhD teams about the NATS Research Collaboration Conference	mail-out	39	NATS Research Collaboration Conference
89	13SEP21	UoW	Inform industry partners, subscribers, catalyst fund project coordinators, PhD teams, etc. about the Engage TC1 workshop	mail-out	210	Engage thematic challenge workshop (TC1)
90	11NOV21	UoW	Inform industry partners and subscribers about the SESAR Innovation Days	mail-out	111	SIDs 2021
91	10DEC21	SJU	Engage in the SESAR Innovation Days newsletter (post-event)	ad hoc SIDs newsletter (December 2021)	N/A	Engage achievements, lessons and legacy presentation
92	15FEB22	INX	EngageWiki promo video	video	29 (views up to 28FEB22)	EngageWiki video 1
93	24FEB22	SJU	Engage in the SESAR innovation Pipeline 2021	publication	N/A	Brief overview of Engage Engage 3rd summer school
94	28FEB22	SJU	Engage in the SESAR newsletter	SESAR newsletter (February 2021)	N/A	Discover the EngageWiki listed in latest videos

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7.2 List of Engage presentations & participation at other events

In some instances, 'reach' is unavailable or has been estimated in the following table.

Table 9: List of Engage presentations & participation at other events

#	Date	Action	Event	Reach	Summary
1	18JAN18	Presentation	Meeting with ASDA (UoW, London)	40	Engage launch
2	06FEB18	Presentation	SESAR Scientific Committee meeting (SJU, Brussels)	N/A	Engage launch
3	07FEB18	Participation	Performance Assessment Work Forum (SJU, Brussels)	35	Engage launch
4	14MAR18	Presentation	EUROCONTROL ART-13 Meeting (DLR, Braunschweig)	15	Engage overview & PhDs
5	10APR18	Presentation	Air Traffic Management short course (UoW, London)	25	Engage overview
6	12APR18	Presentation	ACI EUROPE-SESAR Workshop "Exploring new concepts in air traffic management and airports" (Malta Airport)	N/A	Engage overview
7	12APR18	Presentation	EASN Workshop "Accelerated impact of academic aviation research for improved air transport for all European citizens" (European Commission, Brussels)	N/A	Engage overview
8	29-30MAY18	Presentation	SESAR Scientific Committee meeting (SJU, Brussels)	19	Thematic challenges, PhD Call, link with higher-maturity research, repository planning, ATM roadmap planning & databases (KTN briefing #2)
9	11-12SEP18	Presentation	SESAR Scientific Committee meeting (SJU, Brussels)	N/A	Management tool, PhD Call, SESAR Academy, thematic challenges & workshops (KTN briefing #3)
10	25SEP18	Presentation	ART meeting (EEC, Bretigny)	N/A	PhD Call, thematic challenges & workshops (~ SC KTN briefing #3)

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#	Date	Action	Event	Reach	Summary
11	04-06DEC18	Presentation	SESAR Innovation Days (Salzburg)	N/A	Thematic challenges update; SIDs look ahead
12	07DEC18	Presentation	SESAR Scientific Committee meeting (Salzburg)	N/A	Look ahead from the Engage network
13	12-13FEB19	Presentation	SESAR Scientific Committee meeting (SJU, Brussels)	19	Summary of PhD Call and outcome; overview of proposals offered funding; set in wider KTN context and with lessons learned and next steps
14	13MAR19	Presentation	WAC (Madrid)	30	FREQ presented "Importance of Knowledge Transfer" on behalf of Engage
15	09APR19	Poster presentation	EGU2019	50	Poster presenting conclusions of the "Efficient use of MET data" (TC3) workshop, tailored for presentation at the EGU2019 conference.
16	17APR19	Slides	ART meeting, ENAC, Toulouse	20	Update provided by UoW and FTTE on Engage catalyst fund Call outcome (verbally), PhDs and summer schools (slides attached)
17	25APR19	Slide at panel	EUROCAE Symposium	100	Engage slide presented during panel presentation
18	14-15MAY19	Slide	Fragmentation in Air Traffic & its Impact on ATM Performance workshop (Hungarian Academy of Sciences, Budapest)	N/A	Summer school 2019 publicised by FTTE during Panel 4 presentation
19	05JUN19	Presentation	SESAR Scientific Committee meeting (SJU, Brussels)	20	Focus on: thematic challenges and catalyst funds; SIDs; summer school 2019
20	21JUN19	Presentation	USA/Europe ATM R&D Seminar 2019	200	Overview of Engage which included summer school 2019, TC workshops, PhDs and catalyst funds
21	19-20SEP19	Presentation	SESAR Scientific Committee meeting (SJU, Brussels)	20	Focus on: summer school 2019; forthcoming thematic challenge workshops

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#	Date	Action	Event	Reach	Summary
22	SEP19	Presentation	Meeting with various staff associations (incl. IFATCA, ETF, IFATSEA)	N/A	Overview of Engage's key activities by SJU
23	02-05DEC19	Presentation	SESAR Innovation Days (Athens)	330	Overview of Engage; delivery in 2019; getting involved in 2020
24	11-12FEB20	Presentation	SESAR Scientific Committee meeting (SJU, Brussels)	20	Engage update
25	14APR20	Presentation	SESAR Scientific Committee meeting (SESAR Digital Academy Task Force)	10	Engage update, Covid-19 planning, links with Digital Academy
26	24APR20	Presentation	Slides sent to SJU for inclusion in ER4 Kick-off Meeting slides packs	29	Engage overview and outreach to ER4 projects
27	10JUN20	Presentation	SESAR Scientific Committee meeting (WebEx)	20	Focus on second catalyst funding call outcome
28	17SEP20	Presentation	SESAR Scientific Committee meeting (WebEx)	15	Focus on summer school; workshops; general update
29	25SEP20	Presentation	Engage 2020 summer school (virtual; closing dissemination)	40	SIDs, upcoming Engage workshops, promoting YSA
30	29SEP20	Presentation	Modus presentation in SJU ER4 workshop on multimodality (WebEx)	25	Brief overview of Engage and outreach to ER/IR projects
31	01OCT20	Presentation	SJU MET ER4 workshop (WebEx)	20	A short introduction of Engage, catalyst funding and PhDs related to MET, announcement of the workshop in January
32	10NOV20	Presentation	TC1 (WebEx)	36	Overview of Engage; new catalyst fund project launches, forthcoming activities (e.g. wiki) and workshops in 2021
33	07DEC20	Presentation	SIDs opening session	338	Summary of major Engage activities through 2020
34	10DEC20	Presentation	SIDs closing session	83	Summary of activities (e.g. workshops) in 2021, with a focus on the wiki

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#	Date	Action	Event	Reach	Summary
35	11DEC20	Presentation	SESAR Scientific Committee meeting (WebEx)	20	Summary of activities (e.g. workshops) in 2021, with a focus on the wiki
36	17DEC20	Presentation	ASDA (WebEx)	15	Engage and ASDA; focus on wiki and future collaboration
37	11JAN21	Presentation	NATS drone telemetry data workshop (WebEx)	25	Brief overview of Engage
38	25JAN21	Presentation	Engage TC2(3) workshop (virtual)	66	EngageWiki resources
39	27JAN21	Presentation	Engage TC3(3) workshop (virtual)	70	EngageWiki resources
40	09FEB21	Demonstration	EUROCONTROL briefing on the EngageWiki	15	Demonstration of the wiki
41	11FEB21	Presentation	SESAR Scientific Committee meeting (WebEx)	N/A	Update on Engage
42	24MAR21	Presentation, panel	Meteorological Technology World Expo Virtual 'Live' Conference for Aviation Meteorology	100+	Brief overview of TC3 and Engage wiki
43	28APR21	Presentation	ASDA (WebEx)	15	Main on-going activities and Engage wiki
44	26MAY21	Presentation	SESAR Digital Academy Workshop; organised by SESAR Scientific Committee (WebEx)	20	Main on-going activities that support the SDA (concept)
45	10JUN21	Presentation	SESAR Scientific Committee meeting, incl. DG MOVE representative (WebEx)	20	Workshops, summer school, roadmap planning
46	21JUN21	Presentation	Engage TC4(3) workshop (virtual)	65	EngageWiki resources
47	31AUG21	Demonstration, presentation	Engage 2021 summer school (virtual; day2)	40	EngageWiki resources
48	02SEP21	Presentation	Engage 2021 summer school (virtual; day4)	30	SIDs, upcoming Engage workshops, reports, EngageWiki
49	03SEP21	Presentation	Engage TC2(4) workshop (virtual)	35	Upcoming Engage activities, EngageWiki

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#	Date	Action	Event	Reach	Summary
50	09SEP21	Presentation	Engage TC3(4) workshop (virtual)	35	Upcoming Engage activities, EngageWiki
51	15SEP21	Presentation	Engage TC1(3) workshop (virtual)	20	Upcoming Engage activities, EngageWiki
52	16SEP21	Presentation	Convective and Volcanic Clouds (CVC) Training School (virtual)	25	N/A
53	16SEP21	Presentation	SESAR Scientific Committee meeting, incl. DG MOVE representative (WebEx)	15	Briefing on Engage summer school
54	16SEP21	Presentation	SESAR Scientific Committee SDA Task Force with SESAR PC Members meeting (virtual)	20	Briefing on Engage wiki
55	08NOV21	Presentation	SESAR Scientific Committee meeting (WebEx)	N/A	Update on Engage
56	07DEC21	Presentation. demonstration	SIDs plenary session	293	Summary of achievements, lessons and legacy; demonstration of the wiki

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7.3 Twitter activity log

Note that Twitter analytics underreports tweets and replies, hence there are differences between the number of Tweets and 'topics' listed per month.

Table 10: Twitter activity log

Month	Tweets/Retweets (cumulative)	Topics
MAY18	1 (1)	Engage launching on Twitter soon
JUN18	2 (3)	New Engage website Engage receives H2020 funding
JUL18	13 (16)	Calls for papers Conference ATM/aviation interest Job opportunity YSA 2018
AUG18	25 (41)	Workshops ATM/aviation interest Engage Call for PhDs & post-graduate theses Horizon 2020 information European Data Portal Calls for papers New reports YSA 2018
SEP18	35 (76)	SESAR 2020 event Conference Job opportunities Clean Sky 2 updates Workshops Article Call for papers ATM/aviation interest SIDs 2018 Call for contributions Horizon 2020 information Engage Call for PhDs & post-graduate theses Brexit MALORCA project New report CODA airport taxi data
OCT18	31 (107)	New book Call for posters Horizon 2020 information

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Month	Tweets/Retweets (cumulative)	Topics
		Job opportunities
		Workshops
		Call for papers
		ATM/aviation interest
		Drones
		Cybersecurity
		SIDs 2018 registration open
		SIDs 2018 poster guidelines
		Conferences
		Statistics
		Engage Call for PhDs & post-graduate theses
		COST Action
NOV18	24 (131)	Call for Papers
		Conferences
		Engage 1st Call for catalyst funding
		Workshops
		SESAR DM newsletter
		ATM/aviation interest
		Call for Proposals (Clean Sky)
		Drones
		SIDs 2018 programme
		SES Awards 2019
		Call for Submissions
DEC18	25 (156)	Workshops
		Published statistics
		Engage thematic challenges
		SIDs 2018 activities
		New reports
		YSA 2018
		Workshops
		ATM/aviation interest
		SESAR DM anniversary
		Conference
		Manuscript/open access/open data advice
		Calls for papers
		Cybersecurity
		Project results
		EUROCONTROL Call for PhDs
		Drones
		Mobility as a Service
		New journal

Month	Tweets/Retweets (cumulative)	Topics
		Engage 1st Call for catalyst funding
JAN19	46 (202)	ATM/aviation interest
		Drones
		Calls for papers
		Training School
		Call for Proposals (Horizon 2020)
		SES Awards 2019
		Workshop
		PhD scholarships
		Articles
		CEF Transport information
		New reports
		SESAR R&D programme
		Clean Sky Academy Award
		Engage 1st Call for catalyst funding
		Big data
		Artificial Intelligence
		Call for Horizon 2020 experts
		Environmental challenges
		UK government's Horizon 2020 underwrite guarantee
		Data protection
		SESAR DM 100th milestone
FEB19	12 (214)	Calls for papers
		UK government's Horizon 2020 underwrite guarantee
		Engage 1st Call for catalyst funding
		Cybersecurity
		Europe for Aviation at World ATM Congress 2019
		Study abroad/Erasmus+
		Articles
		Machine learning guide
		Workshop
		Drones
		Job opportunity
		Training school
MAR19	17 (231)	World ATM Congress 2019 & SJU walking tours
		Calls for papers
		Mobility
		Workshops
		Cybersecurity

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Month	Tweets/Retweets (cumulative)	Topics
		SESAR Solutions Catalogue
		Conferences
		Skyway magazine
		Statistics
		World ATM Congress 2020 dates
		AEROdays 2019
		PAAMS2019 conference
		International Symposium on NDT in Aerospace
		Articles
		Drones
		Clean Sky 2 conference (European aeronautics research at its best: What next in Horizon Europe?)
APR19	10 (241)	Transport Research Arena 2020 Young Researcher Competition
		Drones
		Performance Review Body positions
		New report
		Call for papers
		Workshops
		SESAR exploratory research
		Procurement notice
		Horizon Impact Award
		TopNav navigation competition
MAY19	15 (256)	EUROCONTROL reappointed as Network Manager
		Transport Research Arena 2020 Special Issue
		Conferences
		ADS-B in Canadian airspace
		Articles
		Drones
		Calls for papers
		New report
		YSA 2019
		Workshops
		SIDs 2019 Call for contributions
		Remote Tower
		MALORCA project
		ATM/aviation interest
		OPTICS2 Interactive Database
		Transport Research Arena 2020 Young Researcher Competition
		Engage 1st summer school

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Month	Tweets/Retweets (cumulative)	Topics
JUN19	11 (267)	New reports Workshops ATM/aviation interest Job opportunity Drones Cybersecurity Transport Research Arena 2020 Call for papers DDR2 Paris Air Lab Articles Centenary of first non-stop transatlantic flight Heathrow Airport Expansion Masterplan Machine learning Performance Review Report 2018 Electric flight Aviation noise Aerospace Europe Conference 2020 SESAR ER4 Call
JUL19	12 (279)	YSA 2019 Workshops Conferences Call for Horizon 2020 experts Training School ATM/aviation interest Cybersecurity Drones Aviation weather tool Job opportunities Repetitive Flight Plans to be phased out EUROCONTROL Call for PhDs Digital Sky Challenge registration open Engage 2nd series of TC workshops
AUG19	5 (284)	Calls for papers Drones Conferences Job opportunities EC public consultation LAirA project webinar UTM implementations Workshops Single European Sky

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Month	Tweets/Retweets (cumulative)	Topics
SEP19	13 (297)	Horizon Europe survey
		Articles
		Mobility for Growth Call
		Single European Sky joint stakeholder declaration signed
		SIDs 2019 Call for contributions
		Cybersecurity
		Workshops
		Cybersecurity training course
		Conference
		Drones
		Job opportunities
		Call for Demonstrations
		Artificial Intelligence
		ADAPT project visualisation tool
		New book
		Digital Sky Challenge registration
		SJU e-news
		Engage 2nd series of TC workshops
OCT19	8 (305)	Articles
		New reports
		Training School
		Cybersecurity
		Workshops
		Digital Sky Challenge registration
		EASA tender
		Job opportunities
		Conferences
		SIDs 2019 registration open
		ATM/aviation interest
		Domino project blog
		ICRAT 2020 Call for Papers
NOV19	16 (321)	SESAR Deployment Manager newsletters
		ATM/aviation interest
		Drones
		ADS-B implementation status
		Articles
		Call for Horizon 2020 experts
		World ATM Congress 2020 registration open
		Domino project blog

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Month	Tweets/Retweets (cumulative)	Topics
		Network Manager User Forum 2020 registration open
		PointMerge
		PhD scholarships
		Digital Sky Challenge
		Wake-energy retrieval
		SIDs 2019 programme
		ATM Magazine awards 2019
		Job opportunities
		Workshops
		Airline fleet planning lecture
		SIDs 2019 registration closed
		World ATM Congress 2020 & SESAR DM walking tours
		Undergraduate placement scheme opportunity
		SIDs 2019 papers published
		Conference
DEC19	6 (327)	SIDs 2019 poster by Engage catalyst fund project
		SJU e-news
		SIDs 2019 activities
		Digital Sky Challenge outcome
		Engage 2nd cybersecurity workshop
		Engage 2nd summer school
		SIDs 2020 venue
		Articles
		Cross Border Arrival Management procedure
		Cybersecurity
		Apprenticeship scheme opportunity
		European ATM Master Plan 2020 launched
		ATM/aviation interest
		World ATM Congress 2020 Call for Presentations
		ADS-B Implementation Plan 2019
		Undergraduate placement scheme opportunity
JAN20	6 (333)	Engage 2nd Call for catalyst funding
		Job opportunities
		Conference
		CANSO webinar series
		EUROCONTROL now uses actual route flown when calculating route charges
		Call for Proposals (Clean Sky)
		Calls for papers
		Clean Sky Best PhD Award

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Month	Tweets/Retweets (cumulative)	Topics
		SESAR 2nd wave of research projects
		European Innovation Council ePitching session
		Workshops
		World ATM Congress 2020 Maverick Awards
		International Transport Forum Young Researcher of the Year Award
		Apprenticeship opportunities
		Article
FEB20	6 (339)	Workshop
		Call for very large-scale demonstration projects
		Articles
		ATM/aviation interest
		Engage 2nd Call for catalyst funding FAQs
		World ATM Congress 2020 & SJU walking tours
		OPTICS2 project
		SESAR Digital Academy launch
		Young researchers and the future of aviation
		World ATM Congress 2020 involvement by an Engage catalyst fund project
		AEROdays 2020
MAR20	17 (356)	Cybersecurity
		Job opportunities
		World ATM Congress 2020
		Articles and blog posts
		PARSIFAL project final event
		SESAR innovation pipeline 2019 brochure
		Air passengers' rights
		SAFEMODE project flyer
		Transport Research Arena 2020
		European Aeronautics Days 2020
		Skyway magazine
		First Engage technical workshop
		Junior Aviation Networking event
		Covid-19 related aviation news
		Engage 2nd Call for catalyst funding
		Preliminary results U-space projects
		Clean Sky e-news
		Horizon Impact Award 2020
		Remote Tower project at Saarbrücken Airport
		World Conference on Transport Research 2025
		PansaUTM

Month	Tweets/Retweets (cumulative)	Topics
		Latest SJU publications
		H2020 CAMERA project workshop postponed
		Calls for Papers
		SJU e-news
		PhD scholarships
APR20	7 (363)	29 new SJU ER4 projects
		2nd Call for Very Large Scale Demonstration
		Articles and blog posts
		Covid-19 related aviation news
		SIDs 2020 Call for contributions
		YSA 2020
		SESAR Digital Academy webinars
		Job opportunities
		SESAR DM webinar
		Call for Papers
MAY20	10 (373)	Engage 2nd anniversary on Twitter
		START project launch
		ISOBAR project launch
		BUBBLES project launch
		SESAR Digital Academy webinars
		Articles and blog posts
		Covid-19 related aviation news
		SAFEMODE project survey
		Joint statement from IFATCA, IFATSEA and IFAIMA
		ATM/aviation interest
		FMP-Met project launch
		29 SJU ER4 projects
		SJU e-news
		EUROCONTROL European NOP 2020 Recovery Plan
JUN20	12 (385)	2nd Call for Very Large Scale Demonstration extended
		Joint event between CAMERA, OPTICS2, RINGO projects
		CADENZA project launch
		Articles and blog posts
		SESAR Digital Academy webinars
		Job opportunities
		Clean Sky e-News
		ADAPT project data visualisation tool
		COTTON project results
		CF2 project news

Month	Tweets/Retweets (cumulative)	Topics
		ISOBAR project news
		EvoATM project modelling platform
		Domino project toolbox for support decision
		X-TEAM D2D project launch
		Royal Aero Society webinar
		Helios webinars
		Digital Sky vodcast
		Digital Sky Challenge safety winners webinar
		SJU e-news
		PhD scholarships
JUL20	9 (394)	Articles and blog posts
		BUBBLES project news
		Digital Sky vodcasts
		SINOPTICA project launch
		CANSO Covid-19 webinar
		Aviation Week UAM event
		ENAC Alumni activities
		Modus project launch
		CF1 MET Enhanced ATFCM project results
		SESAR DM podcasts
		ATM/aviation interest
		Clean Sky Best PhD Award 2020
		Job opportunities
		ATM Master Plan executive summary
		YSA 2020
		SIDs 2020 news
		Results from joint event between CAMERA, OPTICS2, RINGO projects
		CF1 the drone identity project results
		PhD help
		SESAR Digital Academy webinar
		SRIA Digital European Sky survey
		SESAR DM project in PCP
		SJU e-news
		Digital Transport Days 2020
		H2020 Labyrinth programme
		SESAR DM e-news
AUG20	8 (402)	Job opportunities
		Results from joint event between CAMERA, OPTICS2, RINGO projects
		PhD scholarships

Month	Tweets/Retweets (cumulative)	Topics
		Articles and blog posts
		Python data science
		SESAR DM project in PCP
		FMP-Met project news
		Drones
		Call for Papers
		YSA 2020
		Engage 2nd summer school
		Call for ideas for clean aviation partnerships
		FlyATM4E project news
		ER results brochure
SEP20	18 (420)	Clean Sky Best PhD Award 2020
		Women in Innovation Awards briefing event
		YSA 2020
		SESAR Digital Academy webinars
		Articles and blog posts
		Engage 2nd summer school
		European Aeronautics Days 2020
		EUROCONTROL Aviation Hardtalk
		EUROCONTROL impact assessment of Covid-19 measures on airport performance
		CAMERA project news
		ISOBAR project workshop
		SIDs 2020 news
		SESAR DM annual event
		Engage 500 Twitter followers
		EUROCONTROL Fly AI report
		Single European Sky news
		Joint SESAR DM and EUMETNET webinar
		Digital Sky vodcast
		SESAR DM new website
		Modus project news
OCT20	11 (431)	SJU ER & IR MET and ENV workshop
		ISOBAR project news
		Articles and blog posts
		IFATCA magazine
		SJU projects on weather
		Clean Sky Best PhD Award 2020
		International Open Access Week
		European Aeronautics Days 2020
		Drones

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Month	Tweets/Retweets (cumulative)	Topics
		ICARUS project news
		SESAR DM e-news
		SINOPTICA project news
		SIDs 2020 registration open
		International Air Traffic Controllers' Day
		Engage 2nd cybersecurity workshop
		Digital Sky vodcast
		SESAR Digital Academy webinars
		Job opportunities
		EUROCONTROL Aviation Intelligence Unit
		ANS CR free route operations
		SJU 60-day virtual tour of Europe
		BUBBLES project news
		SJU e-news
		8th OpenSky Symposium
		SESAR 2020 survey
		CREATE project news
		UKRI new website
		PhD scholarship
NOV20	9 (440)	SAFEMODE project news
		Engage 2nd cybersecurity workshop
		Digital Sky vodcast
		CAMERA project news
		ITACA project workshop
		Modus project news
		Clean Sky Skyline
		SINOPTICA project news
		BUBBLES project news
		START project news
		SJU U-space report
		8th OpenSky Symposium
		Articles and blog posts
		Calls for Papers
		OPTICS2 project news
		ALARM project launch
		IMHOTEP workshop
		ICPT 2020 conference
		Call for ideas for clean aviation partnerships
		EUROCONTROL Aviation Hardtalk
		SIDs 2020 programme
		ICARUS project news

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Month	Tweets/Retweets (cumulative)	Topics
		ATM/aviation interest
		SJU e-news
DEC20	14 (454)	Articles and blog posts
		SIDs 2020 programme
		CF2 Weather impact prediction for ATFCM project news
		Call for Abstracts
		SIDs 2020 registration
		8th OpenSky Symposium Proceedings
		Engage at SIDs 2020
		SIDs 2020 poster exhibition
		EUROCONTROL Aviation Hardtalk at SIDs 2020
		SIDs 2020 updates
		Modus project news
		YSA 2020
		BEACON project news
		EngageWiki launched at SIDs 2020
		Engage 3rd series of TC workshops
		Job opportunities
		EUROCONTROL NM User Forum
		Call for Papers
		SESAR DM e-news
		BUBBLES project brochure
JAN21	7 (461)	Call for Abstracts
		EUROCONTROL Think Paper
		Calls for Papers
		Job opportunities
		Innovation partnerships
		EU Startup Prize for Mobility
		INVIRCAT project news
		Modus project workshop
		GNSS.asia workshop
		Drones
		PhD mobility grants
		PhD news
		Posting job opportunities on Engage website
		World ATM Congress 2021
		ARTIMATION project launch
		Clean Sky ADVENT project news
		Scientific Committee cybersecurity workshop
		MONDAIS session

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Month	Tweets/Retweets (cumulative)	Topics
		START project news
		SINOPTICA project news
		FRACS e-news with CF2 project news
		SJU portfolio of projects
		Engage 2nd cybersecurity workshop
		CF1 OPAS project results
		ALARM project news
		MONDAIS session
		YSA 2020
		Engage PhD student's research
		ISOBAR project news
		Engage 3rd data-driven trajectory prediction workshop
FEB21	6 (467)	OpenSky network news
		MONDAIS session
		SINOPTICA project news
		BUBBLES project workshop
		EUROCONTROL NM User Forum
		CF2 FC2A project workshop
		CF2 WIPA project at SIDs 2020
		GOF 2.0 project news
		Dispatcher3 project news
		UK green aviation technology funding
		Articles
		INVIRCAT project news
		Job opportunities
		EUROCONTROL data snapshot
		Open Research Europe news
		AEON project survey
		Engage PhD news
		ALBATROSS project news
		Cybersecurity news
		SJU e-news
MAR21	12 (479)	SINOPTICA project news
		MONDAIS session
		CORUS-XUAM project workshop
		ALARM project presentation
		Job and internship opportunities
		ICAO eLibrary
		PhD scholarship
		CAMERA project news

Month	Tweets/Retweets (cumulative)	Topics
		AI tools in aviation
		SESAR innovation pipeline
		Engage call opportunities web page
		ACI EUROPE-SJU news
		CF1 CARGO project news
		CORUS-XUAM project news
		FlyATM4E project news
		ICARUS project news
		FLY AI webinar
		World ATM Congress 2022
		Clean Aviation e-news
		TAPAS project news
		Articles
		BUBBLES project news
		SJU e-news
		Call for abstracts
		CREATE project news
		SESAR DM consultation
		ALARM project news
		CF2 WIPA project presentation
		Meteorological Technology World Expo news
		Urban Air Mobility webinar
		Open Research Europe news
		Metropolis2 project news
		SUSTAINair project news
		Digital European Sky Awards 2021
APR21	12 (491)	Articles
		TindAIR project news
		SJU e-news
		Job opportunities
		Undergraduate research grants
		SESAR innovation pipeline
		EUROCONTROL R&D Archive
		SESAR DM e-news
		SYN+AIR project survey
		Call for Papers (ATM R&D Seminar)
		FLY AI webinar
		Digital European Sky Awards 2021
		Open Research Europe news
		CF2 FC2A project workshop
		AW-Drones project survey

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Month	Tweets/Retweets (cumulative)	Topics
		SESAR AI solutions
		AMU-LED project workshop
		Nominations for student programme
		Clean Aviation event
		SESAR perfect flight
		Clean Aviation report
		MAHALO project news
		Call for Proposals (Shift2Rail)
		Call for Papers (Sustainability journal SI)
		EUROCONTROL news
		EUROCONTROL Think Paper
		Uspace4UAM project news
		EUROCONTROL data snapshot
		ICARUS project news
		CF1 Exploring future UDPP concepts project news
		SINOPTICA project presentation
		SESAR Digital Academy webinar
		U-space news
		MONDAIS session
		OPTICS2 project news
		SJU family gathering event
		GOF 2.0 project news
		SESAR solutions
		NATS remote digital tower
		YSA 2021
MAY21	8 (499)	SlotMachine project news
		Engage economic incentives for future ATM implementation workshop
		NATS arrivals at Heathrow
		EUROCONTROL Stakeholder Forum webinar
		SESAR Digital Academy
		PhD scholarships and internships
		AURORA project news
		NATS 3Di
		FLY AI webinar
		Job opportunities
		SIDs 2021 Call for contributions
		YSA 2021
		Open Research Europe news
		Articles and blog posts
		U-space news

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Month	Tweets/Retweets (cumulative)	Topics
		SUSTAINair project news
		Drone event
		Zero Pollution action plan
		AMU-LED project news
		CAMERA project workshop
		EUROCONTROL Aviation Sustainability Briefing
		ICARUS project workshop
		Convective and Volcanic Clouds training school
		EUROCONTROL forecast
		TindAIR project news
		Book launch
		SESAR DM webinar
		SESAR DM news
		SJU e-news
		MONDAIS session
		CF2 METSIS project video
		Modus project news
		ICARUS project datathon
JUN21	19 (518)	Digital European Sky Awards 2021
		EUROCONTROL Agency Research Team workshop
		EUROCONTROL Think Paper
		SESAR DM e-news
		MONDAIS session
		CEAS Women in Aerospace conference
		Job opportunities
		Engage economic incentives for future ATM implementation workshop
		SYN+AIR project news
		VigiAero project news (follow-on from CF2 WIPA project)
		ISSNOVA/ASDA Passenger-centred Mobility workshop
		RTCA International Aviation Software Summit 2021
		EUROCONTROL Stakeholder Forum webinar
		Articles and blog posts
		YSA 2021
		VOICE project news
		CAMERA project workshop
		U-space news
		SlotMachine project news
		Clean Aviation news
		CADENZA project workshop

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Month	Tweets/Retweets (cumulative)	Topics
		GOF 2.0 project news
		SJU e-news
		9th OpenSky Symposium
		Modus project news
		HARMONY project survey
		PJ34-W3 AURA project news
JUL21	13 (531)	SJU annual report
		EUROCONTROL Think Paper
		YSA 2021
		Articles and blog posts
		Engage PhD student's research
		U-space news
		CF2 METSIS project video
		TROPOMI product news
		skill-UP project news
		ARTIMATION project workshop
		EUROCONTROL data snapshot
		Engage KTN news
		SIDs 2021 Call for contributions
		Job opportunities
		PJ.01 project news
		TindAIR project news
		BUBBLES project news
		CREATE project news
		Call for Tenders (EASA)
		SJU e-news
		Call for Presentations (World ATM Congress 2021)
		TRA VISIONS 2022 Young Researcher and Senior Researcher competitions
		CAMERA project workshop
		Convective and Volcanic Clouds training school
		SAFIR-Med project news
		CAMERA project news
		AEON project news
		OPTICS2 project workshop
		PJ.05 project news
		MathWorks Minidrone competition
		Call for Abstracts (Convective and Volcanic Clouds training school)
		PJ.07 project news

Month	Tweets/Retweets (cumulative)	Topics
AUG21	14 (545)	CAMERA project workshop
		SAFIR-Med project workshop
		PJ.09 project news
		AMU-LED project news
		AEON project news
		BEACON project survey
		NATS AIS website
		Engage AI, ML and Automation workshop
		Engage efficient provision and use of MET information in ATM workshop
		Engage 3rd summer school
		CAMERA project workshop
		ACI EUROPE workshop
		YSA 2021
		ICARUS project news
		PJ.19 project news
		LinkedIn big data and artificial intelligence in ATM group
		DataBeacon product news
		Job opportunities
		Call for Papers (ICAS 2022)
		RPAS
		AURORA project workshop
		CREATE project news
SEP21	17 (562)	Engage 3rd summer school
		Articles and blog posts
		Job opportunities
		Engage AI, ML and Automation workshop
		ICARUS project news
		Convective and Volcanic Clouds training school
		Engage efficient provision and use of MET information in ATM workshop
		CADENZA project workshop
		CAMERA project workshop
		SIDs 2021 Call for contributions
		SafeOPS project workshop
		Engage vulnerabilities and global security of the CNS/ATM system workshop
		PJ.34 project news
		ALARM project presentation
		OPTICS2 project workshop
		ACI EUROPE Awards

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Month	Tweets/Retweets (cumulative)	Topics
		ANIMA project workshop
		GOF 2.0 project news
		OpenSky network news
		EUROCONTROL Stakeholder Forum webinar
		SESAR Digital Academy webinar
		SYN+AIR project workshop
		PJ.14 project news
		PJ.13 project news
		SATIE project workshop
		BA perfect flight
		ISOBAR project workshop
		YSA 2021
		NATS virtual research collaboration conference
		Call for Digital Sky Demonstrators (CINEA)
		ALBATROSS project news
		PJ34-W3 AURA project workshop
		ALARM project news
		SESAR Solutions Catalogue
		Modus project news
		European Startup Prize
OCT21	4 (566)	SJU e-news
		EUROCONTROL Stakeholder Forum webinar
		OPTICS2 project workshop
		SESAR Solutions Catalogue
		NATS virtual research collaboration conference
		Job opportunities
		European Startup Prize
		PJ34-W3 AURA project news
		TindAIR project news
		SIDs 2021 Call for contributions
		9th OpenSky Symposium
		CAMERA project workshop
		Call for Digital Sky Demonstrators (CINEA)
		CORUS-XUAM project news
		AEON project news
		BUBBLES project workshop
		ALBATROSS project news
		SESAR Digital Academy webinar
		SESAR weather projects
		START project presentation
		TindAIR project workshop

Month	Tweets/Retweets (cumulative)	Topics
		Drone consultation
		SESAR spotlight event
		OPTICS2 project news
		MAHEPA project workshop
		European Convection Forecast product news (linked with CF1 MET enhanced ATFCM project)
		Modus project news
		Articles and blog posts
		CADENZA project presentation
		Multiple remote towers validation open day
		U-space news
		MAHALO project news
		AMU-LED project news
		COP26 airspace restrictions
NOV21	5 (571)	SIDs 2021 registration open
		SESAR spotlight event
		Job opportunities
		ALBATROSS project news
		TindAIR project workshop
		SAFIR-Med project news
		Call for Papers (ICAS 2022)
		CAMERA project workshop
		BUBBLES project workshop
		FlyATM4E project news
		SINOPTICA project news
		CREATE project presentation
		PJ.02 project news
		Fello'fly news
		ARTIMATION project news
		European Startup Prize
		NATS virtual research collaboration conference
		CF2 project summaries
		PJ.05-35 project news
		Articles
		CAMERA project news
		U-space news
		LABYRINTH PhD webinar series
		SESAR Solutions Catalogue
		SESAR DM SWIM webinar
		Clean Aviation Scientific Advisory Body
		X-TEAM D2D project news

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Month	Tweets/Retweets (cumulative)	Topics
		SlotMachine project news
		SAFEMODE project workshop
		SJU e-news
DEC21	12 (583)	Clean Aviation news
		EUROCONTROL data snapshot
		VOICE project news
		CORUS-XUAM project news
		SIDs 2021 programme and registration
		Various projects presenting and exhibiting at SIDs 2021
		SYN+AIR project survey
		Job opportunities
		BUBBLES project workshop
		Articles
		AW-Drones project workshop
		SESAR DM 200th completed project
		SIDs 2021 Whova app
		SIDs 2021 updates
		Engage presentation at SIDs 2021
		SIDs 2021 panel discussion
		Metropolis2 project news
		YSA 2021 at SIDs 2021
		EUROCONTROL data snapshot
		SESAR 3 JU official launch
		9th OpenSky Symposium
		PhD scholarships
		Delivering the Digital European Sky
		SJU 2021 highlights
		Modus project news
		GOF 2.0 project news
		NATS women in STEM event
		SESAR Solutions Catalogue
		EUROCONTROL YouTube channel
		MAHALO project news
JAN22	4 (587)	Job opportunities
		EUROCONTROL NM User Forum
		Clean Aviation Forum
		Call for Digital Sky Demonstrators (CINEA)
		INVIRCAT project news
		SESAR 3 JU news
		U-space event

Month	Tweets/Retweets (cumulative)	Topics
		Modus project workshop
		SATCOM for aviation webinar
		YSA 2021 winners
		INVIRCAT virtual open day
		DREAMS project news
		EASA survey
		DACUS project news
		ECHO project news
		Engage PhD student's article
		SAFIR-Med project news
		Electric aircraft news
		VOICE project news
		SESAR Digital Academy webinar
		CREATE project news
		Horizon Europe Info Day
		ARTIMATION project news
		CORUS-XUAM project news
		ALBATROSS project news
		SESAR DM SWIM workshop
		SJU e-news
		Articles
		ERICA project news
FEB22	7 (594)	SESAR Solutions Catalogue
		VOICE project workshop
		Articles
		Satellite-based technology news
		EUROCONTROL NM User Forum
		PJ.05-W2 online open day
		Job opportunities
		EUROCONTROL U-space webinar
		Modus project workshop
		Automated runway monitoring system news
		TindAIR project news
		CORUS-XUAM project workshop
		SESAR DM e-news
		IRIS SATCOM webinar
		FlyATM4E project news
		EASA High Level Conference on Drones
		SAFEMODE project news
		SESAR Digital Academy webinar
		EngageWiki video

Month	Tweets/Retweets (cumulative)	Topics
		Implementation of the Aerodrome 'Triple One' Concept project news
		PJ.02-W2 project news
		TindAIR project survey
		Engage PhD student's article
		TRA VISIONS 2022 Young Researcher and Senior Researcher competitions
		Open Research Europe news
		SESAR 3 JU news
		Urban air mobility webinar
		PhD scholarship
		EUROCAE Symposium 2022
		SESAR innovation pipeline SJU e-news

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8 Appendix II

This appendix logs the events, opportunities and activities publicised on the Engage website (engagektn.com) and EngageWiki (wikiengagektn.com).

8.1 Events publicised

A total of 326 workshops, conferences and webinars have been publicised by Engage since 2018 [2]. Links to past events were retained for at least a month afterwards, along with all SESAR Digital Academy webinars (for replays). Apart from links to SESAR Digital Academy webinars, links to previous events have not been archived on the website or wiki.

Table 11: Events publicised

#	Date	Event	Where
1	05MAR18	AUTOPACE project workshop - Final Dissemination Event	Madrid, Spain
2	13MAR18	EUROCONTROL Agency Research Team workshop - Communication, Navigation and Surveillance (CNS) and Infrastructure	Braunschweig, Germany
3	11APR18	TaCo project final workshop - Supporting air traffic controllers in complex airport environments through automation	Malta
4	12APR18	ACI EUROPE-SESAR workshop - Exploring new concepts in air traffic management and airports	Malta
5	03-04MAY18	TBO-Met project final workshop - Management of Meteorological Uncertainty	Salzburg, Austria
6	15-16MAY18	Baltic FAB/FABEC/G.A.R.S. joint workshop - Volatility in air traffic and its impact on ATM performance	Warsaw, Poland
7	31MAY18	STRESS/MOTO/TACO projects joint final event - Keeping the human in the loop in the digital ATM era	Toulouse, France
8	05-06JUN18	OPTICS2 project workshop - Aviation cybersecurity: What's around the corner, and are we ready for it?	Cologne, Germany

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#	Date	Event	Where
9	25JUN18	DART/datACRON projects joint workshop - Data-enhanced trajectory-based operations	Barcelona, Spain
10	26-29JUN18	ICRAT 2018 - 8th International Conference for Research in Air Transportation	Barcelona, Spain
11	05-06JUL18	SES/SESAR airspace architecture study first workshop	Brussels, Belgium
12	24JUL18	FAA Technical Exchange Session - Transformation of the National Airspace System and ATM in the US and Current Problems Driving the Need for Trajectory Based Operations	Belgrade, Serbia
13	14SEP18	COCTA project final workshop	Brussels, Belgium
14	24-25SEP18	FAA-EUROCONTROL Technical Interchange Meeting/Agency Research Team workshop - Machine Learning and Artificial Intelligence	Paris, France
15	11OCT18	Data Science in Aviation 2018 Workshop	Cologne, Germany
16	12OCT18	OPTICS2 2nd workshop - Data Science for Aviation Safety: Turning data into insights for safety and performance	Cologne, Germany
17	22-23OCT18	ATM Policy Institute workshop - ATM reform: less stick, more carrot? [event subsequently cancelled]	Amsterdam, The Netherlands
18	25OCT18	Engage KTN thematic challenge workshop - Novel and more effective allocation markets in ATM	London, UK
19	06NOV18	Engage KTN thematic challenge workshop - Data-driven trajectory prediction	Barcelona, Spain
20	06-07NOV18	Future Sky Safety final public workshop	Brussels, Belgium
21	07-08NOV18	ASD Days	Paris, France
22	13NOV18	Engage KTN thematic challenge workshop - Efficient provision and use of meteorological information in ATM	Brussels, Belgium
23	13NOV18	Mobility4EU final public event - Towards user-centric transport in Europe: Enabling seamless and sustainable mobility for all	Brussels, Belgium
24	15-16NOV18	6th OpenSky Workshop	Frankfurt, Germany

#	Date	Event	Where
25	19NOV18	Delivering EU-wide multimodal travel information, planning and ticketing services: dream or reality?	Brussels, Belgium
26	20-21NOV18	2nd SES/SESAR Airspace Architecture Study workshop	Brussels, Belgium
27	26NOV18	Vertical Flight Efficiency workshop	Brussels, Belgium
28	26NOV18	ACI EUROPE-SESAR workshop - The drone and the airport: friend and foe?	Oslo, Norway
29	03DEC18	ASDA Tournaments 2018: Passenger centric air transport & Digitalisation	Salzburg, Austria
30	03-07DEC18	SESAR Innovation Days 2018	Salzburg, Austria
31	13-17JAN19	Transportation Research Board (TRB) 98th Annual Meeting	Washington, USA
32	30-31JAN19	Network Manager User Forum 2019	Brussels, Belgium
33	11-13MAR19	RINGO workshop on Aviation Research Infrastructures needs - session #1	Madrid, Spain
34	11-15MAR19	UNAGI workshop - Unmanned aerial vehicle applications in the smart city: From guidance technology to enhanced system interaction	Kyoto, Japan
35	12-14MAR19	World ATM Congress 2019	Madrid, Spain
36	19MAR19	Aerospace Forum Birmingham	Birmingham, UK
37	27MAR19	Engage KTN thematic challenge workshop - Vulnerabilities and global security of the CNS/ATM system	Brussels, Belgium
38	02-03APR19	RINGO workshop on Aviation Research Infrastructures needs - session #2	Paris, France
39	02-05APR19	3rd CORUS U-Space workshop - Concept of Operations for EuRopean UTM Systems	Rome, Italy
40	07-12APR19	EGU General Assembly 2019 - includes Atmospheric Sciences sessions	Vienna, Austria
41	09-10APR19	Clean Sky 2 - European aeronautics research at its best: What next in Horizon Europe?	Brussels, Belgium

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#	Date	Event	Where
42	16-17APR19	EUROCONTROL Agency Research Team workshop - Aviation Economics and Business Models	Toulouse, France
43	25-26APR19	EUROCAE Symposium 2019 & 56th General Assembly	Toulouse, France
44	14-15MAY19	Fragmentation in Air Traffic and its Impact on ATM Performance	Budapest, Hungary
45	21MAY19	RINGO workshop on Aviation Research Infrastructures needs - session #3	Delft, The Netherlands
46	21MAY19	ITF pre-Summit Research Day - Transport Connectivity for Regional Integration	Leipzig, Germany
47	22-24MAY19	ITF 2019 Summit - Transport Connectivity for Regional Integration	Leipzig, Germany
48	26-31MAY19	15th World Conference on Transport Research (WCTR)	Mumbai, India
49	27-30MAY19	AEROdays 2019 - 8th European Aeronautics Days	Bucharest, Romania
50	28MAY19	RINGO workshop on Aviation Research Infrastructures needs - session #4	Bucharest, Romania
51	29MAY19	RADIAN-ETNA2020 workshop on Stimulating R&I cooperation with new actors of the European Aerospace sector	Bucharest, Romania
52	03-04JUN19	SESAR - Delivering the future of aviation together	Bucharest, Romania
53	04-05JUN19	7th Safety Forum - Safety and Procedures	Brussels, Belgium
54	12-14JUN19	2019 EASA-FAA International Aviation Safety Conference	Cologne, Germany
55	13-14JUN19	CIT19 - International Conference on Integrated Transport 2019	Stockholm, Sweden
56	17-21JUN19	13th USA/Europe ATM R&D Seminar	Vienna, Austria
57	20-21JUN19	8th Conference on the Regulation of Infrastructures. Digital Platforms - The New Network Industries? How to regulate them?	Florence, Italy
58	23-26JUN19	EURO 2019 - 30th European Conference on Operational Research	Dublin, Ireland

#	Date	Event	Where
59	26-28JUN19	PAAMS 19 - 17th International Conference on Practical Applications of Agents and Multi-Agent Systems	Ávila, Spain
60	01JUL19	16th Aviation Student Research Workshop	Amsterdam, The Netherlands
61	02-05JUL19	23rd Air Transport Research Society World Conference (ATRS)	Amsterdam, The Netherlands
62	03-06JUL19	IC-EpsMsO 2019 - 8th International Conference on Experiments/Process/System Modeling/Simulation/Optimization	Athens, Greece
63	09JUL19	CAMERA workshop - Validation of CAMERA methodology	Brussels, Belgium
64	29AUG19	VUTURA workshop - Game of Drones	Enschede, The Netherlands
65	03-06SEP19	9th EASN International Conference on Innovation in Aviation & Space	Athens, Greece
66	09–10SEP19	ATM liberalisation: The catalysts for change?	London, UK
67	10SEP19	On-demand and Shared Mobility Policy	Munich, Germany
68	11-12SEP19	mobil.TUM 2019 - Transportation Systems of the Future	Munich, Germany
69	13SEP19	On-demand and Shared Mobility Research	Munich, Germany
70	13SEP19	1st workshop on Application of System Dynamics (SD) in Mobility and Transportation	Munich, Germany
71	13SEP19	1st workshop on Urban Air Mobility in Future Transport Environments	Munich, Germany
72	18-20SEP19	6th International Air Transport and Operations Symposium (ATOS)	Hamburg, Germany
73	24-26SEP19	European Research and Innovation Days	Brussels, Belgium
74	26SEP19	Sustainable Pathway to Future Aviation	Brussels, Belgium
75	30SEP19-01OCT19	U-space ConOps and research dissemination conference	Brussels, Belgium

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#	Date	Event	Where
76	02OCT19	The Future in Aviation: Iris, a reality for Air Traffic Management	Steenokkerzeel, Belgium
77	03OCT19	Cities and Metropolitan Airport Areas: Looking for New Approaches	Brussels, Belgium
78	09-11OCT19	47th European Transport Conference (ETC)	Dublin, Ireland
79	17OCT19	ENVISION project: final event at Carcassonne Airport	Carcassonne, France
80	05NOV19	Engage KTN thematic challenge workshop - Efficient provision and use of meteorological information in ATM	Brussels, Belgium
81	07-08NOV19	8th European Aviation Conference (EAC)	Vienna, Austria
82	12NOV19	Engage KTN thematic challenge workshop - Novel and more effective allocation markets in ATM	Madrid, Spain
83	12-13NOV19	8th International Conference on Air Transport (INAIR)	Budapest, Hungary
84	27NOV19	Sustainable Fuels for Aviation in Europe	Brussels, Belgium
85	02DEC19	Engage KTN thematic challenge workshop - Data-driven trajectory prediction	Athens, Greece (co-located with SIDs)
86	02DEC19	COTTON project final workshop	Athens, Greece (co-located with SIDs)
87	02-05DEC19	SESAR Innovation Days 2019	Athens, Greece
88	05DEC19	LAirA project final conference & Greenairport meeting	Budapest, Hungary
89	12-16JAN20	99th Transportation Research Board Annual Meeting (TRB)	Washington, USA
90	23-25JAN20	First Symposium on Aviation Research (SoAR)	Oporto, Portugal
91	29-30JAN20	Network Manager User Forum 2020	Brussels, Belgium
92	25-28FEB20	1st Aerospace Europe Conference 2020	Bordeaux, France

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#	Date	Event	Where
93	10-12MAR19	World ATM Congress 2020 [event subsequently cancelled due to Covid-19]	Madrid, Spain
94	17-18MAR20	The Aircraft Commander in the 21st Century	London, UK
95	27-30APR20	TRA2020 - Transport Research Arena [event subsequently cancelled due to Covid-19]	Helsinki, Finland
96	28APR20	SESAR Digital Academy U-space session: From concept to reality	webinar
97	28APR20	SESAR Digital Academy U-space session: Taking up the U-space challenge	webinar
98	30APR20	SESAR Digital Academy U-space session: Demonstrating U-space	webinar
99	13-14MAY20	ICARe final workshop - Greening of aviation, an International Challenge for Aviation in 2050 [event subsequently cancelled due to Covid-19]	Berlin, Germany
100	15JUN20	SESAR Digital Academy Exploring the boundaries of ATM session: Project results on enabling trajectory-based operations	webinar
101	23JUN20	SESAR Digital Academy Exploring the boundaries of ATM session: ATM architecture and CNS	webinar
102	29JUN20	SESAR Digital Academy Nurturing Young Talent session: Recognising excellence through the SESAR Young Scientist Award	webinar
103	30JUN20	SESAR Digital Academy Nurturing Young Talent session: A look back on the Digital Sky Challenge Hackathon	webinar
104	30JUN20	SESAR Digital Academy Digitalising Europe's Aviation Infrastructure session: The European ATM Master Plan in a nutshell	webinar
105	02JUL20	Covid-19: A game changer for aviation? - Is Covid-19 a game changer for ATM?	Digital Sky vodcast
106	07JUL20	Covid-19: A game changer for aviation? - How can ATM innovation help to reboot aviation sustainably?	Digital Sky vodcast
107	09JUL20	Safely Navigating the Industry Restart Series-Safety Culture & SMS During a Pandemic	webinar
108	16JUL20	Covid-19: A game changer for aviation? - How will digital transformation build resilience in ATM?	Digital Sky vodcast

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#	Date	Event	Where
109	17JUL20	Covid-19: A game changer for aviation? - How can ATM innovation help airlines and airports in the recovery?	Digital Sky vodcast
110	22JUL20	SESAR Digital Academy Towards higher levels of automation session: Artificial Intelligence (part 1)	webinar
111	24JUL20	SESAR Digital Academy Towards higher levels of automation session: Artificial Intelligence (part 2)	webinar
112	02-04SEP20	10th EASN Virtual International Conference	virtual
113	15SEP20	ICRAT 2020 - 9th International Conference for Research in Air Transportation (date rescheduled from 23-26JUN20 due to Covid-19)	virtual
114	15SEP20	SESAR Digital Academy Virtualisation session: Remote Towers	webinar
115	16SEP20	AISA project: 1st CONOPS workshop	virtual
116	29SEP20	SESAR Digital Academy Virtualisation session: Virtual Centres	webinar
117	29SEP20	Airline Forum 2020 (online edition)	virtual
118	01OCT20	ISOBAR project: 1st workshop	virtual
119	06OCT20	SESAR Digital Academy Digitalising Europe's Aviation Infrastructure session: A holistic approach towards CNS	webinar
120	12OCT20	EUROCONTROL NM B2B Technical Forum (limited edition)	webinar
121	13OCT20	Covid-19: A game changer for aviation? - Deploying in a time of Covid	Digital Sky vodcast
122	21-23OCT20	Research Workshop: Interdependencies within ATM Performance in the context of a dynamic environment (date rescheduled from 14-15MAY20 due to Covid-19)	virtual
123	22OCT20	SESAR Digital Academy Digitalising Europe's Aviation Infrastructure session: Exploring the future vision and technological innovations in CNS	webinar

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#	Date	Event	Where
124	29OCT20	EUMETNET & SESAR Deployment Manager Webinar - New Pan-European Weather Information to Support Aviation	webinar
125	30OCT20	Virtual EUROSIM Simulation Seminar - Socio-Technical Simulation Models to Improve Human Performance in Very Demanding Contexts: A Cockpit Artificial Intelligence Use Case	virtual
126	05NOV20	AW-Drones 2nd workshop - Technical standards to support U-Space implementation in Europe	virtual
127	09NOV20	Technical Interchange Meeting (TIM) - Unmanned Aerial Systems and Urban Air Mobility - UAS, UTM and UAM Programmes in the US and Europe	webinar
128	10NOV20	Engage KTN thematic challenge workshop - Vulnerabilities and global security of the CNS/ATM system (date rescheduled from 17JUN20 due to Covid-19)	virtual
129	10NOV20	Covid-19: A game changer for aviation? - The economics of ATM post-Covid	Digital Sky vodcast
130	10NOV20	Technical Interchange Meeting (TIM) - Unmanned Aerial Systems and Urban Air Mobility - Integrated CNS for UAS Operations	webinar
131	12NOV20	Technical Interchange Meeting (TIM) - Unmanned Aerial Systems and Urban Air Mobility - UTM Safety Data and Safety Reporting	webinar
132	12NOV20	SESAR Digital Academy U-space session: SESAR U-space consolidated research results	webinar
133	12-13NOV20	8th OpenSky Symposium	virtual
134	13NOV20	Technical Interchange Meeting (TIM) - Unmanned Aerial Systems and Urban Air Mobility - ATM - UTM Integration	webinar
135	13NOV20	Virtual EUROSIM Simulation Seminar - Use of Simulations for Airport Characterization, Planning and Design	virtual
136	17NOV20	Covid-19: A game changer for aviation? - Building a better future	Digital Sky vodcast
137	17NOV20	30th ACI EUROPE Annual Assembly and Congress	virtual
138	18NOV20	Digital Transport Days 2020	virtual

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#	Date	Event	Where
139	19NOV20	SESAR Digital Academy Smart and sustainable solutions for greener ATM session: Greener airport operations	webinar
140	24-26NOV20	AEROdays 2020 - 9th European Aeronautics Days [date rescheduled from 12-17MAY20 due to Covid-19]	Berlin, Germany
141	25NOV20	SESAR Deployment Manager Annual Meeting 2020	virtual
142	25NOV20	1st IMHOTEP stakeholder workshop [workshop held on two different dates]	virtual
143	27NOV20	1st IMHOTEP stakeholder workshop [workshop held on two different dates]	virtual
144	27NOV20	Virtual EUROSIM Simulation Seminar - The Connected Aircraft Cabin: Passenger Boarding in the Times of Covid-19	virtual
145	04DEC20	SESAR Digital Academy Smart and sustainable solutions for greener ATM session: Greener arrivals and departures	webinar
146	07-10DEC20	SESAR Innovation Days 2020	virtual
147	14DEC20	SESAR Digital Academy Smart and sustainable solutions for greener ATM session: Greener en-route	webinar
148	19JAN21	Modus workshop - The future of multimodal air transport	virtual
149	19JAN21	GNSS.asia - EU-Taiwan workshop on GNSS for UTM and UAVs	virtual
150	21JAN21	Cybersecurity in ATM workshop 1 (organised by SESAR JU's Scientific Committee)	virtual
151	25JAN21	Engage KTN thematic challenge workshop - Data-driven trajectory prediction	virtual
152	27JAN21	Engage KTN thematic challenge workshop - Efficient provision and use of meteorological information in ATM	virtual
153	28JAN21	Cybersecurity in ATM workshop 2 (organised by SESAR JU's Scientific Committee)	virtual
154	01FEB21	MONDAIS February edition - AI roadmaps in aviation	virtual

#	Date	Event	Where
155	04FEB21	Cybersecurity in ATM workshop 3 (organised by SESAR JU's Scientific Committee)	virtual
156	08-12FEB21	Network Manager User Week 2021	virtual
157	16FEB21	Flight Centric ATC with Airstreams (FC2A project) - operational workshop	virtual
158	24FEB21	FLY AI webinar - Partnering for AI in aviation	virtual
159	25FEB21	BUBBLES workshop - Separation management in the U-space: a key enabler to boost U3 services take-off	virtual
160	25FEB21	SESAR Digital Academy ATM cyber-security: The industry perspective	webinar
161	01MAR21	MONDAIS (first) March edition - AI for safety-critical systems	virtual
162	02MAR21	InterFAB ExpertTalk #1 ATM performance data - The accuracy of forecasts	virtual
163	19MAR21	Virtual EUROSIM Simulation Seminar - Simulation of Humanitarian Logistics for Covid 19	virtual
164	23MAR21	FLY AI webinar - Research and Innovation in AI for Aviation	virtual
165	23MAR21	USEPE (U-space SEParation in Europe) - 1st validation workshop	virtual
166	24MAR21	1st Meteorological Technology World Expo Conference for Aviation Meteorology	virtual
167	24MAR21	InterFAB ExpertTalk #2 ATM performance data - Economic surplus	virtual
168	26MAR21	15th Florence Air Forum - Streamlining Economic Regulation for Air Traffic Management in Europe	virtual
169	29MAR21	MONDAIS (second) March edition - Making datasets available for AI applications	virtual
170	12APR21	FLY AI webinar - AI in ATM: Enablers and use cases	virtual
171	15APR21	Flight Centric ATC with Airstreams (FC2A project) - industrial workshop	virtual

#	Date	Event	Where
172	19-30APR21	EGU General Assembly 2021 - includes 'Convective and Volcanic Clouds (CVC) and possible impact on aviation management' session	virtual
173	20APR21	InterFAB ExpertTalk #3 ATM performance data - Cost of delay	virtual
174	22APR21	Clean Sky - Clean Aviation for a Competitive Green Recovery in Europe: Innovative Ideas Take Flight	virtual
175	23APR21	Presenting LDACS - A general introduction to LDACS	virtual
176	29APR21	SESAR Digital Academy Innovation in airspace utilisation session: Innovation in airspace utilisation	webinar
177	30APR21	AMU-LED (Air Mobility Urban - Large Experimental Demonstrations) - first workshop	virtual
178	03MAY21	MONDAIS May edition - AI case studies in aviation	virtual
179	11MAY21	SESAR Digital Academy Innovation in airspace utilisation session: Automated Speech Recognition for Air Traffic Control	webinar
180	11MAY21	InterFAB ExpertTalk #4 ATM performance data - Climate change and the role of ATM	virtual
181	18MAY21	FLY AI webinar – Sharing data for AI in aviation	virtual
182	19MAY21	EUROCONTROL Stakeholder Forum - Point Merge	virtual
183	20MAY21	ACI EUROPE - 2nd Aviation Sustainability Summit	virtual
184	27MAY21	SESAR PJ05-W2 - Digital Technologies for Tower open day	virtual
185	27MAY21	EUROCONTROL Stakeholder Forum - Airside electrification at airports	virtual
186	28MAY21	ICARUS workshop - Aviation-driven data value chain for diversified global and local operations	virtual
187	02JUN21	EUROCONTROL Stakeholder Forum - Aviation standardisation	virtual

#	Date	Event	Where
188	02JUN21	Technical details and capabilities of LDACS	virtual
189	07JUN21	MONDAIS June edition - Activating Machine Learning in Aviation	virtual
190	10-11JUN21	10th Conference on the Regulation of Infrastructures. Infrastructure Investment Challenges: reconciling Competition, Decarbonisation and Digitalisation	Florence, Italy
191	14JUN21	Passenger-centred Mobility Workshop - Status of Mobility Research in Europe - A Reality Check (organised by ACARE WG1)	virtual
192	15JUN21	Passenger-centred Mobility Workshop - Mobility Performance Assessment from a Network and Passenger Perspective (organised by EUROCONTROL)	virtual
193	15JUN21	FLY AI webinar - AI for cyber and cyber for AI	virtual
194	16JUN21	Passenger-centred Mobility Workshop - How the ATM Scientific Community can support the Multimodal Transportation System Effectiveness (organised by ISSNOVA and ASDA)	virtual
195	16JUN21	EAC Webinar - Aviation and Climate Change: Given What We Know Today, What Should Europe Do Tomorrow?	virtual
196	17JUN21	Passenger-centred Mobility Workshop - Exploring the Main Mobility Research Gaps in Europe (organised by the Camera project)	virtual
197	17JUN21	ACI EUROPE - Airport Economics Symposium	virtual
198	17JUN21	EUROCONTROL Stakeholder Forum - Real-time simulations	virtual
199	21JUN21	Engage KTN thematic challenge workshop - Economic incentives for future ATM implementation	virtual
200	22JUN21	SESAR Deployment Manager and EUROCONTROL - SWIM Webinar	virtual
201	23-24JUN21	European Research and Innovation Days	virtual
202	23-24JUN21	International Aviation Software Summit 2021	virtual

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#	Date	Event	Where
203	24JUN21	InterFAB ExpertTalk #5 ATM performance data - Volatility in air traffic: a growing challenge for the aviation sector	virtual
204	25JUN21	1st CEAS Women in Aerospace Conference	virtual
205	30JUN21	FLY AI webinar - AI training & change management in aviation	virtual
206	01JUL21	LDACS deployment options and transition scenarios	virtual
207	07-10JUL21	IC-EpsMsO 2021 - 9th International Conference on Experiments/Process/System Modeling/Simulation/Optimization	Athens, Greece
208	12JUL21	EUROCONTROL Stakeholder Forum - Intermodal transport and regional connectivity	virtual
209	03SEP21	Engage KTN thematic challenge workshop - AI, ML and Automation	virtual
210	06-07SEP21	OPTICS2 3rd workshop – Towards SAFE and SECURE Urban Air Mobility (date rescheduled from 08-10JUN20 due to Covid-19)	virtual
211	06-18SEP21	Convective and Volcanic Clouds (CVC) detecting, monitoring and modeling	virtual
212	07SEP21	SAFEMODE workshop on risk models	virtual
213	07-08SEP21	CADENZA workshop on demand and capacity management in ATM	virtual
214	08SEP21	InterFAB ExpertTalk #6 ATM performance data - Backcasting	virtual
215	09SEP21	Engage KTN thematic challenge workshop - Efficient provision and use of MET information in ATM	virtual
216	09SEP21	EUROCONTROL Stakeholder Forum - Impact of climate change on aviation	virtual
217	15SEP21	Engage KTN thematic challenge workshop - Vulnerabilities and global security of the CNS/ATM system	virtual
218	16SEP21	EAC webinar - Decarbonising Air Transport: Acting Now for the Future	virtual

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#	Date	Event	Where
219	20SEP21	ISOBAR 1st workshop	virtual
220	20-24SEP21	14th USA/Europe ATM R&D Seminar	New Orleans, USA and virtual
221	21SEP21	PJ34 AURA 1st workshop	virtual
222	20SEP21-15OCT21	NATS Research Collaboration Conference 21	virtual
223	21-23SEP21	1st SIMS EUROSIM Conference on Modelling and Simulation (SIMS EUROSIM 2021)	Oulu, Finland
224	21SEP21	EUROCONTROL Stakeholder Forum - Developing U-space for Urban Air Mobility	virtual
225	22-23SEP21	Climate change and the role of air traffic control	Vilnius, Lithuania
226	23SEP21	EUROCONTROL Stakeholder Forum - Sustainable aviation fuels	virtual
227	27SEP21-01OCT21	EUROCONTROL-ENAIRE human factor days	virtual
228	27SEP21	CORUS-XUAM 1st workshop - Enabling Urban Air Mobility in Europe	virtual
229	27-28SEP21	OPTICS2 final dissemination event - Is European aviation safety and security research on the right track?	virtual
230	28SEP21	AURORA 1st stakeholder workshop	virtual
231	28SEP21	SESAR Digital Academy Smarter, safer and more efficient arrivals session: Smarter, safer and more efficient arrivals (part 1)	webinar
232	07OCT21	EUROCONTROL Stakeholder Forum - Building aviation cyber-resilience	virtual
233	14OCT21	Transport Research Institute 7th Annual Electric Vehicle Event (day 3) - Air Transport	virtual
234	14OCT21	EUROCONTROL Stakeholder Forum - How innovation and sustainability could impact global cargo operations	virtual
235	18OCT21	EUROCONTROL Stakeholder Forum - European air navigation charges model	virtual

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#	Date	Event	Where
236	21OCT21	CAMERA final dissemination event	virtual
237	21OCT21	SESAR Digital Academy Smarter, safer and more efficient arrivals session: Smarter, safer and more efficient arrivals (part 2)	webinar
238	26-27OCT21	31st ACI EUROPE Annual Congress and General Assembly	Geneva, Switzerland
239	26-28OCT21	World ATM Congress 2021	Madrid, Spain
240	02NOV21	Unmanned Cargo Aircraft Conference	virtual
241	10NOV21	TindAIR 1st workshop	Toulouse, France and virtual
242	16NOV21	EUROCONTROL Air Transport Innovation Initiative Webinar	virtual
243	17NOV21	EUROCONTROL Stakeholder Forum - Harmonised military flight plan for Europe	virtual
244	18NOV21	SESAR Spotlight Event - Showcasing U-space services for medical air mobility (SAFIR-MED project) postponed due to Covid-19	hybrid event
245	18-19NOV21	9th OpenSky Symposium	Brussels, Belgium
246	22NOV21	EUROCONTROL Aviation Sustainability Summit	virtual
247	23-26NOV21	Aerospace Europe Conference 2021 (AEC-21)	Warsaw, Poland
248	25NOV21	BUBBLES second workshop - Presenting validation results towards an updated concept of separation management	virtual
249	29-30NOV21	Aviation Management and Economics Conference (AMEC): Aviation and the environment	virtual
250	30NOV21	SESAR PJ05-W2 - Multiple Remote Towers with dynamic allocation of aerodromes and Automatic Speech Recognition open day	Asker, Norway
251	30NOV21	ARTIMATION - General Assembly	Rome, Italy and virtual

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#	Date	Event	Where
252	30NOV21	European Network of U-space Stakeholders re-launch event	virtual
253	01-02DEC21	9th European Aviation Conference (EAC)	virtual
254	03DEC21	Efficient, Connected and Sustainable Regional airports	virtual
255	06DEC21	EUROCONTROL Stakeholder Forum - Business aviation's flight plan to net zero	virtual
256	06DEC21	SESAR PJ.05-35 - Multi Remote Tower open day	virtual
257	07DEC21	AW-Drones final workshop - Is European aviation conquering the challenges of drones?	virtual
258	07-08DEC21	11th Aviation Forum	Hamburg, Germany and virtual
259	07-09DEC21	SESAR Innovation Days 2021	virtual
260	08-09DEC21	EUROCONTROL/CANSO Global Resilience Summit	Brussels, Belgium and virtual
261	13-17DEC21	AGU Fall Meeting - includes 'Convective and Volcanic Clouds (CVC) and impact on aviation management' session	New Orleans, USA and virtual
262	14DEC21	SINOPTICA - Meteo stakeholder meeting	virtual
263	15DEC21	SAFEMODE 1st dissemination workshop	virtual
264	25JAN22	INVIRCAT - real-time simulations for IFR RPAS integration in the TMA open day	virtual
265	25JAN22	SATCOM for aviation: the stakeholder perspective (introduction to aviation satellite services)	virtual
266	02-03FEB22	EUROCONTROL Network Manager User Forum 2022	Brussels, Belgium and virtual
267	08FEB22	VOICE 1st workshop - How new space satellites can make ATM more efficient	virtual
268	11FEB22	SESAR PJ.05-W2-S97.1 - Augmented reality in Vitoria-Gasteiz Airport open day	virtual

#	Date	Event	Where
269	14FEB22	Modus second workshop - What could future air-rail multimodal mobility look like?	virtual
270	15FEB22	EASA workshop - NPA 2021-14 - AMC/GM to support the U-space regulatory framework	virtual
271	16FEB22	SESAR PJ05-W2 - Multiple Remote Towers with dynamic allocation of aerodromes and Automatic Speech Recognition	virtual
272	16FEB22	IRIS SATCOM: a system designed for aviation (overview of the Iris system)	virtual
273	17FEB22	EUROCONTROL Stakeholder Forum - Aeronautical spectrum: Is aviation making the best use of this scarce resource in light of recent 5G impacts?	virtual
274	08MAR22	ATM-UTM interface: How should separator's responsibilities be managed?	virtual
275	14-17MAR22	CORUS-XUAM 2nd workshop	virtual
276	15MAR22	SWIM workshop - Flight and Flow Information for Collaborative Environment (FF-ICE)	virtual
277	21MAR22	SESAR PJ.13-117 - Validation of SESAR solution for enabling RPAS insertion in controlled airspace	virtual
278	22-23MAR22	Clean Aviation Forum 2022 - Re-imagining Europe's path to climate-neutrality: Clean Aviation takes off	Brussels, Belgium and virtual
279	24MAR22	SESAR Digital Academy Unpacking SESAR's performance measurement framework	webinar
280	25MAR22	EUROCONTROL - How airspace closures triggered by the Ukraine crisis are impacting European aviation	virtual
281	28MAR22	SATCOM maturity and deployment	virtual
282	29-30MAR22	EASA High Level Conference on Drones	Amsterdam, The Netherlands and virtual
283	05APR22	SESAR PJ02-W2 Solution 21.4 - Full guidance using "Follow the Greens" procedures open day	Asker, Norway
284	07APR22	UAS Separation Provision Service: do we need it? Low-altitude drone self-separation	virtual

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#	Date	Event	Where
285	08-09APR22	3rd Symposium on Aviation Research (SoAR)	Bergamo, Italy
286	20APR22	NOSTROMO 1st workshop	Copenhagen, Denmark and virtual
287	20-21APR22	ECHO 2nd workshop on Initial Validation	Brussels, Belgium
288	28APR22	SESAR Digital Academy Innovative solutions for ATM Resilience	webinar
289	28-29APR22	EUROCAE Symposium 2022	Warsaw, Poland and virtual
290	05MAY22	EUROCONTROL Stakeholder Forum - Dual use of CNS infrastructure to support civil and military operations	virtual
291	05-06MAY22	HAAWAII 1st demo day	Reykjavik, Iceland
292	10-11MAY22	Urban Air Planning Forum 2022	virtual
293	13MAY22	SESAR PJ04-W2-29.2 Validation of MET performance management open day	Braunschweig, Germany
294	19MAY22	SESAR PJ01-W2 EAD Open day on automatic controlled time of arrival (CTA) for management of arrivals in en-route and on the ground	virtual
295	25MAY22	AiRMOUR - What is Urban Air Mobility? An overview of the key terms and the types of aircraft	virtual
296	02JUN22	SAFIR-Med - Medical flight trials in Antwerp airspace	Antwerp, Belgium
297	07-09JUN22	ASPRID validation exercise	Madrid, Spain and virtual
298	09-10JUN22	19th GARS Junior Research Workshop	Bremen, Germany and virtual
299	13-15JUN22	D4G-2022 - 1st workshop on data science for GNSS Remote Sensing	Potsdam, Germany
300	14-16JUN22	2022 FAA-EASA International Aviation Safety Conference	Washington, USA
301	19-23JUN22	ICRAT 2022 - 10th International Conference for Research in Air Transportation	Tampa, USA

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#	Date	Event	Where
302	21-23JUN22	World ATM Congress 2022	Madrid, Spain
303	23-24JUN22	ISOBAR Workshop on Conclusions	location TBC
304	27-30JUN22	Quiet Drones 2022 - 2nd International Symposium on Noise from UAVs UASs and eVTOLs	virtual
305	28-30JUN22	Connecting Europe Days 2022 (formerly known as TEN-T Days)	Lyon, France
306	28JUN22	Connecting Europe by Air – the Green Transformation (part of Connecting Europe Days 2022)	Lyon, France
307	01JUL22	URClearED virtual open day of the real-time simulations on the RWC concept integration	virtual
308	06JUL22	CREATE - Environmental and meteorological SESAR exploratory research projects: key findings workshop	Naples, Italy
309	24-28JUL22	16th World Conference on Transport Research	Montréal, Canada
310	04-09SEP22	33rd Congress of the International Council of the Aeronautical Sciences (ICAS 2022)	Stockholm, Sweden
311	05-13SEP22	Convective and Volcanic Clouds (CVC) detecting, monitoring and modeling	Nicolosi, Italy
312	07SEP22	CADENZA final stakeholder workshop	Brussels, Belgium
313	12SEP22	SINOPTICA ATM/ATC stakeholder meeting	Nicolosi, Italy and virtual
314	15-16SEP22	Research Workshop: Single European Sky and Resilience in European ATM	Sofia, Bulgaria
315	16SEP22	ACI EUROPE-SESAR webinar – Innovating for passengers during the Covid-19 recovery	virtual
316	19-21SEP22	European Modeling & Simulation Symposium (EMSS 2022)	Rome, Italy
317	29SEP22	SESAR PJ.09 & PJ.10 joint open day on dynamic airspace configuration to improve airspace utilisation	Oslo, Norway
318	12OCT22	SESAR 3 JU 1st Annual Conference	Brussels, Belgium

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#	Date	Event	Where
319	18OCT22	SESAR Deployment Manager workshop - ADS-B implementation	virtual
320	18-20OCT22	Towards Sustainable Aviation Summit (TSAS 2022)	Toulouse, France
321	18-21OCT22	12th EASN International Conference	Barcelona, Spain
322	25OCT22	Modus final results workshop	Paris, France
323	14-17NOV22	Transport Research Arena (TRA2022)	Lisbon, Portugal
324	30NOV22-01DEC22	10th European Aviation Conference (EAC)	Heilbronn, Germany
325	05-08DEC22	SESAR Innovation Days 2022	Budapest, Hungary
326	23-24MAR23	1st European_Academia @EASA conference 2023	Cologne, Germany

8.2 Jobs and internships publicised

103 adverts have been publicised by Engage since 2018 - initially on the website (engagektn.com/jobs-and-internships), and on the EngageWiki (wikiengagektn.com/EngageWiki:Jobs_and_internships) since 2021.

Table 12: Jobs and internships publicised

#	Who	Position	Closing date
1	University of Westminster (UK)	Senior Research Fellow	20JUL18
2	Florence School of Regulation (Italy)	Research Assistant	24JUL18
3	University of Leeds (UK)	Research Fellow in Transport and Data Analysis	03OCT18
4	University of Leeds (UK)	Research Fellow in Transport and Spatial Data Analytics	03OCT18

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#	Who	Position	Closing date
5	University of Leeds (UK)	Research Fellow in Aviation Demand	03OCT18
6	Nommon Solutions and Technologies (Spain)	Software Engineer (Intern)	not specified
7	Nommon Solutions and Technologies (Spain)	Data Visualisation Engineer (Intern)	not specified
8	Nommon Solutions and Technologies (Spain)	Aviation Data Scientist (Intern)	not specified
9	Nommon Solutions and Technologies (Spain)	Mobility Analytics Data Scientist (Intern)	not specified
10	SESAR Joint Undertaking secondment (Belgium)	ATM Systems Expert	01MAR19
11	SESAR Joint Undertaking secondment (Belgium)	Performance Expert	01MAR19
12	SESAR Joint Undertaking secondment (Belgium)	Senior Stakeholder Relations Expert	01MAR19
13	Università degli Studi di Palermo (Italy)	Postdoc position (Horizon 2020 ADAPT project)	15MAR19
14	Nanyang Technological University (Singapore)	Research Fellow/Senior Research Fellow	02MAY19
15	EUROCONTROL (Belgium)	Environmental Policy Research Trainee	17JUL19
16	SESAR Deployment Alliance (Belgium)	Manager and Expert profiles	not specified
17	University of Westminster (UK)	Senior Lecturer in Transport	05SEP19
18	University of Westminster (UK)	Research Associate (Active Travel Academy)	05SEP19

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#	Who	Position	Closing date
19	SINTEF (Norway)	Postdoctoral candidates / Research scientists in "Optimization"	30SEP19
20	Aviation Job Expo (UK)	Hundreds of vacancies available	event on 03OCT19
21	TU Delft (The Netherlands)	Postdoc position in Transport Safety and Human Factors	03OCT19
22	TU Delft (The Netherlands)	Tenure-Track Assistant Professor Transportation Systems	15OCT19
23	University of Surrey (UK)	Senior Lecturer in Air Transport Management	20OCT19
24	Aalto University (Finland)	Postdoc positions in Smart Mobility	08NOV19
25	Careers in Aerospace & Aviation LIVE 2019 (UK)	Employment opportunities	event on 08NOV19
26	European Passengers' Federation (Belgium)	Project and Policy Officer	11NOV19
27	Kineo Mobility Analytics (Spain)	Transport and Mobility Analytics Consultant	not specified
28	NATS (UK)	Undergraduate Placement Scheme for Engineering and Technology	29NOV19
29	Connected Places Catapult, formerly known as Transport Systems and Future Cities Catapult (UK)	MATSim Modeller	not specified
30	EUROCONTROL (Belgium)	Safety Management Trainee	23DEC19
31	EUROCONTROL Experimental Centre (France)	Researcher Trainee	24DEC19
32	University of Leeds (UK)	Research Fellow in Future Mobility Systems	12JAN20
33	University of Twente (The Netherlands)	Assistant Professor Smart Mobility	13JAN20

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#	Who	Position	Closing date
34	NATS (UK)	Undergraduate Placements	10FEB20
35	NATS (UK)	Data Analyst Apprenticeship	10FEB20
36	NATS (UK)	Industrial Placements	23FEB20
37	Cranfield University (UK)	Lecturer/Senior Lecturer in Safety Engineering and Airworthiness	23FEB20
38	National Center for Atmospheric Research (USA)	Halaby Fellowship	28FEB20
39	Universidad Carlos III de Madrid (Spain)	2 Postdoctoral level positions within the Aero Research Group (Artificial Intelligence and data-driven algorithms applied to Air Traffic Management and Meteo; Parallel and GPU optimization applied to Air Traffic Management)	15MAR20
40	Linköping University (Sweden)	Postdoc positions within the AEAR group	not specified
41	EUROCONTROL Maastricht Upper Area Control Centre (The Netherlands)	Student Air Traffic Controllers	not specified
42	Air Navigation Solutions Limited (UK)	Trainee Air Traffic Controllers	not specified
43	Nanyang Technological University (Singapore)	Research Fellow (Human Factors)	05JUL20
44	Nanyang Technological University (Singapore)	Research Fellow (Computer Vision)	05JUL20
45	University of Westminster (UK)	Senior Research Fellow (Transport Economist)	23JUL20
46	University of Westminster (UK)	2 Research Fellows (Data Scientists)	23JUL20
47	Turing Internship Network (UK)	10 internships	10AUG20
48	Innaxis (Spain)	Data Scientist	not specified

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#	Who	Position	Closing date
49	Innaxis (Spain)	Business Development and Project Manager	not specified
50	DataBeacon (Spain)	Developers	not specified
51	Careers in Aerospace & Aviation LIVE 2020 (UK)	Employment opportunities	event on 04NOV20
52	Leonardo (UK)	Graduate programme	not specified
53	Leonardo (UK)	Internships, placements and work experience opportunities	not specified
54	Leonardo (UK)	Apprenticeship programme	not specified
55	Think Research (UK)	Senior ATM and Airports Consultant	not specified
56	Think Research (UK)	Analytics Consultant	not specified
57	Bournemouth University (UK)	Postdoc Research Fellow (E-Drone project)	18NOV20
58	CONNECT! - Career day (The Netherlands)	Networking and career event	event on 18NOV20
59	SEAL Aeronautica S.L. (Spain)	2 Postdoc research positions	31DEC20
60	University of Westminster (UK)	2 Research Positions (Transport Economics Modeller and Transport Modeller)	28JAN21
61	Università degli Studi di Padova (Italy)	Research Fellow	09FEB21
62	EUROCONTROL Experimental Centre (France)	Traineeship Opportunities	not specified
63	skeyes (Belgium)	Trainee Air Traffic Controllers	14MAR21
64	Factual Consulting (Spain)	EU Project Manager in Transport & Mobility	not specified

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#	Who	Position	Closing date
65	Institute for Cross-Disciplinary Physics and Complex Systems (Spain)	Internships Opportunities	25APR21
66	Universidad Carlos III de Madrid (Spain)	Assistant Professor Position	30APR21
67	SESAR Joint Undertaking (Belgium)	Secondment of National Expert	extended to 10MAY21
68	Aerospace Technology Institute (UK)	Aircraft Modeller	21MAY21
69	ISSNOVA (Italy)	Researcher Position	not specified
70	Think Research (UK)	Analyst/Consultant in Safety and Human Factors	not specified
71	ENAC (France)	Internships within the Interactive Informatics Lab	not specified
72	Entry Point North (Sweden)	ATSEP Training Specialist	23MAY21
73	NATS (UK)	Operational Support	27MAY21
74	Università degli Studi di Padova (Italy)	Research Fellow	24JUN21
75	European Union Aviation Safety Agency (Germany)	Junior Qualification Programme (JQP)	05JUL21
76	Innaxis (Spain)	Junior Data Scientist	not specified
77	Clean Sky 2 Joint Undertaking (Belgium)	Team Leader/Project Officer	extended to 30SEP21
78	Università degli Studi di Padova (Italy)	Research Fellow	14SEP21

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#	Who	Position	Closing date
79	SESAR Joint Undertaking (Belgium)	Executive Director	01OCT21
80	European Union Aviation Safety Agency (Germany)	Expert positions	01OCT21
81	Clean Sky 2 Joint Undertaking (Belgium)	Interims	15OCT21
82	Clean Sky 2 Joint Undertaking (Belgium)	Trainee	20OCT21
83	University of Southampton (UK)	Research Fellow (Drone Logistics)	02NOV21
84	Careers in Aerospace & Aviation LIVE 2021 (UK)	Employment opportunities	event on 03NOV21
85	EUROCONTROL (France)	Data Scientist Positions	18NOV21
86	Hasselt University (Belgium)	Researcher Position	26NOV21
87	EUROCONTROL (France)	Prototype Developer Positions	01JAN22
88	EPFL (Switzerland)	Interns, PhD student and Postdoc Fellow	not specified
89	NATS (UK)	Early Careers 22 Virtual Exhibition	31JAN22
90	NATS (UK)	Graduate Scheme	not specified
91	NATS (UK)	Undergraduate Placements	not specified
92	NATS (UK)	Apprenticeships	not specified
93	NATS (UK)	Internships	not specified
94	Think Research (UK)	Graduate Consultant/Analyst	not specified

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#	Who	Position	Closing date
95	Think Research (UK)	Senior Consultant	not specified
96	Think Research (UK)	Principal Consultant	not specified
97	Universidad Carlos III de Madrid (Spain)	Assistant Professor in Aerospace Engineering	15JAN22
98	Frequentis (Romania)	Programming Positions - various air traffic management/unmanned traffic management programming and software developer positions	not specified
99	EUROCONTROL (Belgium)	Communication, Navigation & Surveillance (CNS) Specialist	27JAN22
100	EUROCONTROL (France)	Scientific Analyst	27JAN22
101	University of Southampton (UK)	Research Fellow in Drone Logistics	04FEB22
102	IFISC (Spain)	Postdoctoral position in the ERC ARCTIC project	not specified
103	SESAR 3 Joint Undertaking (Belgium)	Grant Manager	15MAR22

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8.3 PhDs publicised

23 notices of PhD Calls, studentships and support have been publicised by Engage – initially on the website (engagektn.com/phd-opportunities), and later on the EngageWiki (wikiengagektn.com/EngageWiki:PhD_funding_opportunities).

Table 13: PhDs publicised

#	Who	PhD	Closing date
1	EUROCONTROL	Call for PhDs (18-220569-A)	08FEB19
2	Universidad Politécnica de Madrid and Tadorea (Spain)	PhD in Cryptography	Q1 2019 start date
3	Technical University of Denmark	PhD in Machine Learning and Transport	10SEP19
4	EUROCONTROL	Call for PhDs (19-220468-A)	27SEP19
5	National University of Singapore	PhD Research Scholarship in Airport Infrastructure, Automation and Labour	27SEP19 (JAN20 start date), potentially extending to 01NOV19 (AUG20 start date)
6	Future Aviation Security Solutions Industrial PhD Partnership (FASS IPP)	Studentships	08JAN20
7	Molde University College (Norway)	PhD Scholarship Position in Transport Economics or other specializations within Logistics	20JAN20
8	Molde University College (Norway)	PhD Scholarship Position in public sector productivity change and the effect of reduced transport cost	20JAN20
9	Universidad Carlos III de Madrid (Spain)	3 PhD positions within the Aero Research Group (Aircraft Trajectory Optimization and Climate Change; Artificial Intelligence and data-driven algorithms applied to Air	15MAR20

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#	Who	PhD	Closing date
		Traffic Management and Meteo; Parallel and GPU optimization applied to Air Traffic Management)	
10	Technical University of Denmark	PhD position in the Machine Learning for Smart Mobility group	01APR20
11	University of Stavanger (Norway)	PhD position in the Faculty of Science and Technology	30OCT20
12	Linköping University (Sweden)	PhD positions within the AEAR group	not specified
13	IFISC (Spain)	PhD position in the ERC ARCTIC project	not specified
14	Bournemouth University (UK)	PhD position in EPSRC-funded UAV project	13JAN21
15	Bournemouth University (UK)	PhD position in UKRI-funded UAV project	21FEB21
16	Alianza 4 Universidades/4 Universities Alliance (Spain)	Travel grants	12MAR21 for PhD students/staff and 09APR21 for Bachelor and Master students
17	Technical University of Delft (The Netherlands)	PhD position in the Aerospace Engineering Faculty	not specified
18	Institute for Cross-Disciplinary Physics and Complex Systems (Spain)	Travel grants	various closing dates
19	ENAC (France)	PhD positions within the Interactive Informatics Lab	not specified
20	De Montfort University Leicester (UK)	industrial PhD studentship	extended to 30JUN21
21	Cranfield University (UK)	Persistent Decoy Teams with AI	extended to 15OCT21
22	University of Southampton (UK)	Human Factors relating to the handover of control between pilot and UAV	31MAR22

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#	Who	PhD	Closing date
23	Universidad Carlos III de Madrid (Spain)	PhD positions in Aerospace Engineering	not specified

8.4 Other Calls publicised

Since March 2021, 22 Calls and opportunities (outside Engage) have been publicised on the Engage website (engagektn.com/call-opportunities).

Table 14: Other Calls publicised

	What	Detail	Closing date
1	Other Call	EUROCONTROL Air Transport Innovation Hub - Call for operational challenges/needs	26MAR21
2	Call for extended Abstracts	International Transport Forum Pre-Summit Research (11-12MAY21, virtual event)	29MAR21 (abstracts)
3	Call for Papers	14th USA/Europe ATM R&D Seminar (20-24SEP21, New Orleans, USA)	19APR21 (papers)
4	Call for Papers	Climate change and the role of air traffic control (22-23SEP21, Vilnius, Lithuania)	30APR21 (abstracts); 31AUG21 (papers)
5	Contest project for students	How to promote STEM careers among the youngest generation? (1st CEAS Women in Aerospace Conference, 25JUN21)	20JUN21
6	Call for Contributions	AGU Fall Meeting session A040 'Convective and Volcanic Clouds (CVC) and impact on aviation management' (13-17DEC21, New Orleans, USA and virtual event)	04AUG21
7	Call for Contributions	Aviation Management and Economics Conference (29-30NOV21, virtual event)	01SEP21 (abstracts); 15NOV21 (papers)
8	Call for Proposals	KTN (UK) Future flight challenge phase 3: two strands - demonstration and cross-cutting technologies	03NOV21
9	Call for Presentations and Papers	9th OpenSky Symposium (18-19NOV21, Brussels, Belgium)	03SEP21 (abstracts); 12NOV21 (papers)

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	What	Detail	Closing date
10	Call for Contributions	11th SESAR Innovation Days conference (07-09DEC21, virtual event)	extended to 30SEP21 (posters/exhibits); extended to 11OCT21 (papers)
11	Call for Papers	3rd Symposium on Aviation Research (08-09APR22, Bergamo, Italy)	19DEC21 (abstracts)
12	Call for Expressions of Interest	Clean Aviation JU Scientific Advisory Body	05JAN22
13	Call for Proposals	Pilot Digital Sky Demonstrators	19JAN22
14	Call for Papers	19th GARS Junior Research Workshop (09-10JUN22, Bremen, Germany and virtual)	24APR22 (abstracts); 22MAY22 (papers)
15	Call for Papers	10th International Conference for Research in Air Transportation (19-23JUN22, Tampa, Florida)	13FEB22 (Doctoral Symposium and Technical papers)
16	Call for Papers	33rd Congress of the International Council of the Aeronautical Sciences (04-09SEP22, Stockholm, Sweden)	10FEB22 (abstracts); 01JUN22 (papers)
17	Call for Papers	Research Workshop: Single European Sky and Resilience in European ATM (15-16SEP22, Sofia, Bulgaria)	11MAR22 (abstracts); 12AUG22 (papers)
18	Call for Proposals	1st Calls of the SESAR 3 Digital European Sky programme	13OCT22
19	Call for Papers	Towards Sustainable Aviation Summit (18-20OCT22, Toulouse, France)	extended to 20JUN22 (abstracts); extended to 15SEP22 (papers)
20	Call for Abstracts	12th EASN International Conference (18-21OCT22, Barcelona, Spain)	15JUN22 (abstracts)
21	Call for Contributions	12th SESAR Innovation Days conference (05-08DEC22, Budapest, Hungary)	15SEP22 (posters/exhibits); 30SEP22 (papers)
22	Call for Abstracts	European_Academia @EASA conference 2023 (23-24MAR23, Cologne, Germany)	30SEP22 (abstracts)

8.5 Competitions, awards and opportunities publicised

Competitions, awards and other opportunities relevant to the ATM research community have also been publicised on the Engage events page [2].

Table 15: Competitions, awards and opportunities publicised

#	What	Closing date
1	SESAR Young Scientist Award 2018	05SEP18
2	SESAR Young Scientist Award 2019	06SEP19
3	AGIFORS Anna Valicek Award 2020	01JUN20
4	SESAR Young Scientist Award 2020	06SEP20
5	SESAR Digital European Sky Awards 2021	30APR21
6	SESAR Young Scientist Award 2021	05SEP21
7	European Startup Prize for Mobility 4th Edition - 'Future Skies' prize	30NOV21
8	Horizon Impact Award 2022	extended to 06APR22
9	2022 Maverick Awards	extended to 04MAY22
10	TRA VISIONS 2022 Young Researcher Competition	extended to 31MAY22
11	TRA VISIONS 2022 Senior Researcher Competition	extended to 13JUN22
12	SESAR Young Scientist Award 2022	04SEP22

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9 Appendix III

This appendix logs outputs presented and published by PhDs and catalyst fund projects (third parties supported through Engage). Note that planned or submitted output is excluded from the following tables.

9.1 PhD outputs

Table 16: PhD outputs

#	Who	Output	Event	Date	Further information
1	P1. Decision support system for airline operation control hub centre ('DiSpAtCH')	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
2	P1. Decision support system for airline operation control hub centre ('DiSpAtCH')	Conference paper	9th International Conference for Research in Air Transportation (ICRAT)	15SEP20	Doctoral Symposium: Paper 13 "Decision Support System for Airline Operation Control Hub Centre (DiSpAtCH) - Initial research results and developed framework" - https://www.icrat.org/previous-conferences/9th-international-conference/papers/ (paper: https://drive.google.com/file/d/1uW-tUmcMYUW7zf9OANH-TJQkBMJGoDFe/view; video: https://www.youtube.com/watch?v=UDWjo9-uMnY)
3	P1. Decision support system for airline operation control hub centre ('DiSpAtCH')	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
4	P1. Decision support system for airline operation control hub	Presentation	Summer school 2021	30AUG21-02SEP21	"Decision support tool for airline operation control hub centre" - https://engagektn.com/summer-school-2021/

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#	Who	Output	Event	Date	Further information
	centre ('DiSpAtCH')				
5	P1. Decision support system for airline operation control hub centre ('DiSpAtCH')	Poster	11th SESAR Innovation Days (SIDs 2021)	07-09DEC21	Poster - https://www.sesarju.eu/sites/default/files/documents/sid/2021/posters/SIDs%202021%20poster%20dispatch.pdf
6	P1. Decision support system for airline operation control hub centre ('DiSpAtCH')	Report	Decision support system for airline operation control hub centre ('DiSpAtCH')	18AUG22	PhD final report - https://engagektn.com/phd-abstracts/
7	P2. Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach (RL4CFTP)	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
8	P2. Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach (RL4CFTP)	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/
-	*P2. Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach (RL4CFTP)*	*Article (duplicate – see Table 17, #18)*	*arXiv*	*16MAY20*	*eprint in collaboration with C4. Data-driven trajectory imitation with reinforcement learning project, arXiv:2005.07960, 2020 "Data Driven Aircraft Trajectory Prediction with Deep Imitation Learning" - https://arxiv.org/abs/2005.07960*
9	P2. Trajectory planning for conflict-free trajectories: a	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer

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#	Who	Output	Event	Date	Further information
	multi agent reinforcement learning approach (RL4CFTP)				school 2021 presentation instead)
10	P2. Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach (RL4CFTP)	Presentation	Summer school 2021	30AUG21-02SEP21	"Trajectory planning for conflict free trajectories: a multi agent reinforcement learning approach" - https://engagektn.com/summer-school-2021/
11	P2. Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach (RL4CFTP)	Article	arXiv	19MAY22	eprint, arXiv:2205.09539 "Data-driven prediction of Air Traffic Controllers reactions to resolving trajectory conflicts" - https://arxiv.org/abs/2205.09539
12	P2. Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach (RL4CFTP)	Report	Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach	29JUN22	PhD final report - https://engagektn.com/phd-abstracts/
13	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
14	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of	Article	arXiv	06NOV19	eprint, arXiv:1911.02347, 2019 "Convolutional Neural Network for Multipath Detection in GNSS Receivers" - https://arxiv.org/abs/1911.02347

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#	Who	Output	Event	Date	Further information
	machine learning				
15	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Conference paper	International Navigation Conference 2019	18-21NOV19	Session A1: Paper A1.1 "Multipath detection at GNSS correlator output using image processing by convolutional neural network" - https://rin.org.uk/mpage/INC2019_Programme#dropdown32
16	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Presentation	International Conference on Artificial Intelligence and Data Analytics for Air Transportation (AIDA-AT/IEEE Computational Intelligence Society)	03-04FEB20	Technical Session 4: Paper 8 "Multipath detection at GNSS correlator output using Convolutional Neural Networks" - http://event.ntu.edu.sg/AIDAAT2020/Pages/agenda.aspx
17	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
18	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Presentation	Institute of Navigation conference GNSS+ 2020	22-25SEP20	Session C4: Machine Learning in Location "GNSS multipath detection using embedded deep CNN on Intel® Neural Compute Stick" - https://hal-enac.archives-ouvertes.fr/hal-02964023
19	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Code	GitHub	23MAR21	"A Python code for GNSS signal generator" - http://github.com/EvgeniiMunin/gnss_signal_generator

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#	Who	Output	Event	Date	Further information
20	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Code	GitHub	11FEB22	"A synthetic GNSS correlator output generator" - https://github.com/AntoineBlaisENAC/Synthetic_GNSS_Correlator_Output_Generator.git
21	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Journal article	Array, Vol. 14	12APR22	"A novel image representation of GNSS correlation for deep learning multipath detection" - https://doi.org/10.1016/j.array.2022.100167
22	P3. Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	Report	Detection, classification, identification and mitigation of GNSS signal degradations by means of machine learning	25JUL22	PhD final report - https://engagektn.com/phd-abstracts/
23	P4. Machine learning techniques for seamless traffic demand prediction	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
24	P4. Machine learning techniques for seamless traffic demand prediction	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/
25	P4. Machine learning techniques for seamless traffic demand prediction	Poster	9th SESAR Innovation Days (SIDs 2019)	02-05DEC19	Poster - https://www.sesarju.eu/sites/default/files/documents/sid/2019/posters/Roll%20up%20SIDs%202019-12%20red.pdf
26	P4. Machine learning techniques for	Conference paper	9th International Conference for	15SEP20	Automation and Air Vehicle Integration: Paper 19 "Full-scale pre-tactical route prediction:

#	Who	Output	Event	Date	Further information
	seamless traffic demand prediction		Research in Air Transportation (ICRAT)		Machine Learning to increase pre-tactical demand forecast accuracy" - https://www.icrat.org/previous-conferences/9th-international-conference/papers/ (paper: https://drive.google.com/file/d/1Ic5r6T126ZdPzgI5BUQTKYgyPy_Dm6di/view)
27	P4. Machine learning techniques for seamless traffic demand prediction	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
28	P4. Machine learning techniques for seamless traffic demand prediction	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 62: "Predicting Requested Flight Levels with Machine Learning" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_62red.pdf
29	P4. Machine learning techniques for seamless traffic demand prediction	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
30	P4. Machine learning techniques for seamless traffic demand prediction	Presentation	Summer school 2021	30AUG21-02SEP21	"Machine learning techniques for seamless traffic demand prediction" - https://engagektn.com/summer-school-2021/
31	P4. Machine learning techniques for seamless traffic demand prediction	Conference paper	11th SESAR Innovation Days (SIDs 2021)	07-09DEC21	Paper 58: "Unveiling Airline Preferences for Pre-tactical Route Forecast through Machine Learning" - https://www.sesarju.eu/sites/default/files/documents/sid/2021/papers/SIDs_2021_paper_58.pdf
32	P4. Machine learning techniques for seamless traffic demand prediction	Report	Machine learning for aircraft trajectory prediction: a solution for pre-tactical air traffic flow and	21JUL22	PhD final report - https://engagektn.com/phd-abstracts/

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#	Who	Output	Event	Date	Further information
			capacity management		
33	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
34	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/
35	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Conference paper	9th SESAR Innovation Days (SIDs 2019)	02-05DEC19	Paper 82: "Strategies to Mitigate Tight Spatial Bounds Between Conflicts in Dense Traffic Situations" - https://www.sesarju.eu/sites/default/files/documents/sid/2019/papers/SIDs_2019_paper_82.pdf
36	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
37	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
38	P5. Machine learning applications to extend AGENT's conflict	Presentation	Summer school 2021	30AUG21-02SEP21	"Machine learning applications to extend AGENT's conflict resolution capabilities" - https://engagektn.com/summer-school-2021/

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#	Who	Output	Event	Date	Further information
	resolution capabilities				
39	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Conference paper	14th USA/Europe Air Traffic Management Research and Development Seminar (ATM2021)	20-24SEP21	Paper 72: "Towards conflict resolution with deep multi-agent reinforcement learning" (awarded the Best Paper Award in the Separation track) - https://drive.google.com/file/d/1-dpSGiqEjiXXix5fGWLrabT8FrWhIs4h/view
40	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Journal article	Aerospace, Vol. 8	25NOV21	"Spatiotemporal Graph Indicators for Air Traffic Complexity Analysis" - https://www.mdpi.com/2226-4310/8/12/364
41	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Journal article	Applied Sciences, Vol. 12	09JAN22	"Multi-UAV Conflict Resolution with Graph Convolutional Reinforcement Learning" - https://www.mdpi.com/2076-3417/12/2/610
42	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Journal article	IEEE Access, Vol. 10, pp. 68365-68383	24JUN22	"Quantifying Well Clear for autonomous small UAS" - https://doi.org/10.1109/ACCESS.2022.3186025
43	P5. Machine learning applications to extend AGENT's conflict resolution capabilities	Conference paper	First International Conference on Hybrid Human-Machine Intelligence (HHAI 2022)	13-17JUL22	Paper 51: "Does Personalization Help? Predicting How Social Situations Affect Personal Values" - https://www.hhai-conference.org/wp-content/uploads/2022/06/hhai-2022_paper_51.pdf
44	P5. Machine learning applications to extend AGENT's conflict	Report	Deep Multi-Agent Reinforcement Learning	19AUG22	PhD final report - https://engagektn.com/phd-abstracts/

#	Who	Output	Event	Date	Further information
	resolution capabilities		Applications in ATM		
45	P6. Integrating weather prediction models into ATM planning ('IWA')	Conference paper	38th Digital Avionics Systems Conference (DASC 2019)	08-12SEP19	Terminal Operations 1: "Evaluation of Flight Efficiency for Stockholm Arlanda Airport Arrivals" - https://weber.itn.liu.se/~tatpo46/pps/DASC2019.pdf
46	P6. Integrating weather prediction models into ATM planning ('IWA')	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
47	P6. Integrating weather prediction models into ATM planning ('IWA')	Conference paper	EIWAC workshop	29-31OCT19	Session 1/ATM Performance 1 "[EN-A-31] Analysis of Weather Impact on Flight Efficiency for Stockholm Arlanda Airport Arrivals" - https://www.enri.go.jp/eiwac/eiwac_2019_eng.html
48	P6. Integrating weather prediction models into ATM planning ('IWA')	Presentation	TC3(2) workshop	05NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/
49	P6. Integrating weather prediction models into ATM planning ('IWA')	Conference paper	7th OpenSky Workshop 2019	21-22NOV19	Session 1 Flight Data Evaluation & Experiences "Evaluation of Flight Efficiency for Stockholm Arlanda Airport using OpenSky Network Data" - T. Polishchuk, A. Lemetti, R. Sáez. Evaluation of Flight Efficiency for Stockholm Arlanda Airport using OpenSky Network Data. In Proceedings of the 7th OpenSky Workshop 2019, vol 67, pages 13-24, Zurich. doi: https://easychair.org/publications/paper/hk2Q
50	P6. Integrating weather prediction models into ATM planning ('IWA')	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/
51	P6. Integrating weather	Conference paper	9th International	15SEP20	Trajectory Management and Optimization: Paper 12

#	Who	Output	Event	Date	Further information
	prediction models into ATM planning ('IWA')		Conference for Research in Air Transportation (ICRAT)		"Morphing STARs vs drones and weather in TMA" - https://www.icrat.org/previous-conferences/9th-international-conference/papers/ (paper: https://drive.google.com/file/d/1bb3Z6WfqTdVz2MnFZDn5-2iQi29ungid/view)
52	P6. Integrating weather prediction models into ATM planning ('IWA')	Conference paper	9th International Conference for Research in Air Transportation (ICRAT)	15SEP20	System Performance: Paper 18 "Identification of Significant Impact Factors on Arrival Flight Efficiency within TMA" - https://www.icrat.org/previous-conferences/9th-international-conference/papers/ (paper: https://drive.google.com/file/d/1tYS20MsZM1CGiz0XD4EtQddHc02WH2QS/view)
53	P6. Integrating weather prediction models into ATM planning ('IWA')	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
54	P6. Integrating weather prediction models into ATM planning ('IWA')	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 43: "Integrating Weather Impact in RTC Staff Scheduling" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_43red.pdf
55	P6. Integrating weather prediction models into ATM planning ('IWA')	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 71: "Arrival Flight Efficiency in Numbers: What New the Covid-19 Crisis is Bringing to the Picture?" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_71red.pdf
56	P6. Integrating weather prediction models into ATM planning ('IWA')	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
57	P6. Integrating weather prediction models into	Book chapter	Selected Papers of the 6th ENRI International Workshop on ATM/CNS	2021	"Analysis of Weather Impact on Flight Efficiency for Stockholm Arlanda Airport Arrivals" in Air Traffic Management and Systems IV (ISBN 978-981-334-669-7) -

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#	Who	Output	Event	Date	Further information
	ATM planning ('IWA')		(EIWAC workshop 2019)		https://www.springer.com/gp/book/9789813346680
58	P6. Integrating weather prediction models into ATM planning ('IWA')	Presentation	Summer school 2021	30AUG21-02SEP21	"Integrating weather prediction models into ATM planning" - https://engagektn.com/summer-school-2021/
59	P6. Integrating weather prediction models into ATM planning ('IWA')	Journal article	EURO Journal on Transportation and Logistics, Vol. 11	31MAR22	"Integrating weather impact in air traffic controller shift scheduling in remote and conventional towers" - https://doi.org/10.1016/j.ejtl.2022.100076
60	P6. Integrating weather prediction models into ATM planning ('IWA')	Report	Integrating weather prediction models into ATM planning ('IWA')	24MAY22	PhD final report - https://engagektn.com/phd-abstracts/
61	P7. Advanced statistical signal processing for next generation trajectory prediction	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
62	P7. Advanced statistical signal processing for next generation trajectory prediction	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/
63	P7. Advanced statistical signal processing for next generation trajectory prediction	Conference paper	9th International Conference for Research in Air Transportation (ICRAT)	15SEP20	Doctoral Symposium: Paper 48 "Advanced Statistical Signal Processing for Next Generation Trajectory Prediction" - https://www.icrat.org/previous-conferences/9th-international-conference/papers/ (paper: https://drive.google.com/file/d/1LCRm7FKcampI1QKRBMlUm204b9jVl3H8/view; video: https://youtu.be/HOxqL9z8vlw)

#	Who	Output	Event	Date	Further information
64	P7. Advanced statistical signal processing for next generation trajectory prediction	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
65	P7. Advanced statistical signal processing for next generation trajectory prediction	Conference paper	54th Asilomar Conference on Signals, Systems, and Computers 2020	02-05NOV20	Session D10: Machine Learning Algorithms "[TH2-5-1] On Parametric Model Mismatch in Nonlinear EKF Approximations" - https://www2.securecms.com/Asilomar2020/Papers/ViewPapers_MS.asp?PaperNum=1175 (paper: https://upcommons.upc.edu/handle/2117/341216)
66	P7. Advanced statistical signal processing for next generation trajectory prediction	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 79: "Real-time Identification of High-Lift Devices Deployment in Aircraft Descents - An Interacting Multiple Model Filtering Application Validated with Simulated Trajectories" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_79red.pdf
67	P7. Advanced statistical signal processing for next generation trajectory prediction	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
68	P7. Advanced statistical signal processing for next generation trajectory prediction	Presentation	Summer school 2021	30AUG21-02SEP21	"Advanced statistical signal processing for next generation trajectory prediction" - https://engagektn.com/summer-school-2021/
69	P7. Advanced statistical signal processing for next generation	Conference paper	14th USA/Europe Air Traffic Management Research and Development	20-24SEP21	Paper 44: "A fast and flexible emergency trajectory generator" - https://drive.google.com/file/d/1xTYmc9Ls94n4WFKL7g_IDG7gbYR5GK3h/view

#	Who	Output	Event	Date	Further information
	trajectory prediction		Seminar (ATM2021)		
70	P7. Advanced statistical signal processing for next generation trajectory prediction	Conference paper	40th Digital Avionics Systems Conference (DASC 2021)	03-07OCT21	"Generation of Emergency Trajectories Based on Aircraft Trajectory Prediction" - https://doi.org/10.1109/DASC52595.2021.9594403
71	P7. Advanced statistical signal processing for next generation trajectory prediction	Report	Advanced statistical signal processing for next generation trajectory prediction	05JUL22	PhD final report - https://engagektn.com/phd-abstracts/
72	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
73	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Conference paper	EIWAC workshop	29-31OCT19	Session 14/Trajectory Management 2 "[EN-A-19] Scenario Based RRT for Aircraft Trajectory Planning under Uncertain Thunderstorm Development" - https://www.enri.go.jp/eiwac/eiwac_2019_eng.html
74	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm	Presentation	TC3(2) workshop	05NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/

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#	Who	Output	Event	Date	Further information
	forecasts considering its inherent uncertainty ('STORMY')				
75	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
76	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 49: "GPU-Accelerated RRT for Flight Planning Considering Ensemble Forecasting of Thunderstorms" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_49red.pdf
77	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
78	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/

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#	Who	Output	Event	Date	Further information
	inherent uncertainty ('STORMY')				
79	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Journal article	Transportation Research Part C: Emerging Technologies, Vol. 129	02JUL21	"Informed Scenario-Based RRT* for Aircraft Trajectory Planning under Ensemble Forecasting of Thunderstorms" - https://doi.org/10.1016/j.trc.2021.103232
80	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Presentation	Summer school 2021	30AUG21-02SEP21	"STORMY: a pilot support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty" - https://engagektn.com/summer-school-2021/
81	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent uncertainty ('STORMY')	Book chapter	Selected Papers of the 6th ENRI International Workshop on ATM/CNS (EIWAC workshop 2019)	2021	"RRT*-Based Algorithm for Trajectory Planning Considering Probabilistic Weather Forecasts" in Air Traffic Management and Systems IV (ISBN 978-981-334-669-7) - https://www.springer.com/gp/book/9789813346680
82	P8. A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its inherent	Report	STORMY: A pilot/dispatcher support tool based on the enhanced provision of thunderstorm forecasts considering its	14JUL22	PhD final report - https://engagektn.com/phd-abstracts/

#	Who	Output	Event	Date	Further information
	uncertainty ('STORMY')		inherent uncertainty		
83	P9. Second generation agent-based modelling for improving APOC operations	Presentation	TC4(2) workshop	12NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/
84	P9. Second generation agent-based modelling for improving APOC operations	Conference paper	9th International Conference for Research in Air Transportation (ICRAT)	15SEP20	Doctoral Symposium: Paper 40 "Modelling and Simulation of APOC Operations" - https://www.icrat.org/previous-conferences/9th-international-conference/papers/ (paper: https://drive.google.com/file/d/1MoB57uOl8RhcTw1C7oXyYOi2F3J_5R7k/view; video: https://www.youtube.com/watch?v=_GZEgZD49Ns)
85	P9. Second generation agent-based modelling for improving APOC operations	Conference paper	32nd European Modeling & Simulation Symposium (EMSS 2020)	16-18SEP20	"Improvement of APOC Operations by using Simulation and Experimental Economics: Conceptual Approach" - https://dx.doi.org/10.46354/i3m.2020.emss.029
86	P9. Second generation agent-based modelling for improving APOC operations	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
87	P9. Second generation agent-based modelling for improving APOC operations	Presentation	Summer school 2021	30AUG21-02SEP21	"Second generation agent-based modelling for improving APOC operations" - https://engagektn.com/summer-school-2021/
88	P9. Second generation agent-based modelling for improving APOC operations	Report	Second generation agent-based modelling for improving APOC operations	13JUL22	PhD final report - https://engagektn.com/phd-abstracts/

#	Who	Output	Event	Date	Further information
89	P10. Stochastic control of tactical airline operations in hub airport networks	Working paper	Operations Research 2019 (OR2019)	03-06SEP19	WB-10 Airport Ground Operations "A Microscopic Control Method for Aircraft Turnaround Operations Running in Parallel at Busy Hub-Airports" - https://www.euro-online.org/conferences/program/#session/84 (abstract only, under Wednesday, 11:00-12:40)
90	P10. Stochastic control of tactical airline operations in hub airport networks	Working paper	Operations Research 2019 (OR2019)	03-06SEP19	WB-10 Airport Ground Operations "Coping with uncertainties in predicting the aircraft turnaround time holding at busy airports" - https://www.euro-online.org/conferences/program/#session/84 (abstract only, under Wednesday, 11:00-12:40)
91	P10. Stochastic control of tactical airline operations in hub airport networks	Presentation	Summer school 2019	09-13SEP19	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)
92	P10. Stochastic control of tactical airline operations in hub airport networks	Presentation	TC4(2) workshop	12NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/
93	P10. Stochastic control of tactical airline operations in hub airport networks	Conference paper	9th International Conference for Research in Air Transportation (ICRAT)	15SEP20	Airline Operations and Quality of Service: Paper 14 "Integrated Operations Control at Hub-Airports with Uncertain Arrival Times" (awarded the Best Paper Award within its theme) - https://www.icrat.org/previous-conferences/9th-international-conference/papers/ (abstract only: http://www.icrat.org/ICRAT/seminarContent/2020/abstracts/ICRAT_2020_Abstract_14.pdf)
94	P10. Stochastic control of tactical airline	Presentation	Summer school 2020	21-25SEP20	(unpublished by agreement with PhD candidates - refer to summer school 2021 presentation instead)

#	Who	Output	Event	Date	Further information
	operations in hub airport networks				
95	P10. Stochastic control of tactical airline operations in hub airport networks	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 67: "Development of Stochastic Delay Cost Functions" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_67red.pdf
96	P10. Stochastic control of tactical airline operations in hub airport networks	Journal article	Journal of Air Transport Management, Vol. 92	09FEB21	"Airline Ground Operations: Optimal Schedule Recovery with Uncertain Arrival Times" - https://doi.org/10.1016/j.jairtraman.2021.102021
97	P10. Stochastic control of tactical airline operations in hub airport networks	Journal article	Transportation Research Part C: Emerging Technologies, Vol. 128	26MAY21	"Airline ground operations: Schedule recovery optimization approach with constrained resources" - https://doi.org/10.1016/j.trc.2021.103129
98	P10. Stochastic control of tactical airline operations in hub airport networks	Presentation	2nd ATFM airline coordination workshop (organised by the PhD candidate)	JUN21	Results of "Flight prioritization and turnaround recovery" ATM2021 paper (no published material; refer to https://drive.google.com/file/d/1GNQ5MK3jO7hw5fpu1UyPFMM9lTi92XN8/view instead)
99	P10. Stochastic control of tactical airline operations in hub airport networks	Presentation	Summer school 2021	30AUG21-02SEP21	"Resource-constrained airline ground operations: optimizing schedule recovery under uncertainty" - https://engagektn.com/summer-school-2021/
100	P10. Stochastic control of tactical airline operations in hub airport networks	Conference paper	14th USA/Europe Air Traffic Management Research and Development Seminar (ATM2021)	20-24SEP21	Paper 12: "Flight prioritization and turnaround recovery" - https://drive.google.com/file/d/1GNQ5MK3jO7hw5fpu1UyPFMM9lTi92XN8/view
101	P10. Stochastic	Journal article	Computers and Operations	16OCT21	"Integration of Turnaround and Aircraft Recovery to Mitigate

#	Who	Output	Event	Date	Further information
	control of tactical airline operations in hub airport networks		Research, Vol. 138		Delay Propagation in Airline Networks" - https://doi.org/10.1016/j.cor.2021.105602
102	P10. Stochastic control of tactical airline operations in hub airport networks	Journal article	IEEE Access, Vol. 10, pp. 21424-21442	17FEB22	"Stochastic Delay Cost Functions to Estimate Delay Propagation under Uncertainty" - https://doi.org/10.1109/ACCESS.2022.3152570
103	P10. Stochastic control of tactical airline operations in hub airport networks	Report	Resource-Constrained Airline Ground Operations: Optimizing Schedule Recovery under Uncertainty	30APR22	PhD final report - https://engagektn.com/phd-abstracts/
104	P10. Stochastic control of tactical airline operations in hub airport networks	Conference paper	10th International Conference for Research in Air Transportation (ICRAT)	22JUN22	Network Management: Paper 10 "Airline Schedule Recovery at Hub Airports including Dynamic Cost Indexing and Re-Routing" - https://www.icrat.org/previous-conferences/10th-international-conference/papers/ (paper: https://drive.google.com/file/d/1ps5BwJqJptCx-468eDhpFU7u3IRXilXK/view)
105	UPC PhD. Automated DCB Hotspot Detection	Journal article	Aerospace, Vol. 9	10FEB22	"RNN-CNN hybrid model to predict C-ATC Capacity regulations for en-route traffic" (publication cost supported by Engage) - https://www.mdpi.com/2226-4310/9/2/93

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9.2 Catalyst fund project outputs

Table 17: Catalyst fund project outputs

#	Who	Output	Event	Date	Further information
1	C1. Probabilistic weather avoidance routes for medium-term storm avoidance ('PSA-Met')	Presentation	TC3(2) workshop	05NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/
2	C1. Probabilistic weather avoidance routes for medium-term storm avoidance ('PSA-Met')	Poster	9th SESAR Innovation Days (SIDs 2019)	02-05DEC19	Poster - https://www.sesarju.eu/sites/default/files/documents/sid/2019/posters/Roll%20up%20SIDs%202019-07%20red.pdf
3	C1. Probabilistic weather avoidance routes for medium-term storm avoidance ('PSA-Met')	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 16: "A Probabilistic Storm Avoidance Concept for En-Route Flight" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_16red.pdf
4	C1. Probabilistic weather avoidance routes for medium-term storm avoidance ('PSA-Met')	Brochure	-	2020	MTSA: Medium-Term Storm Avoidance
5	C1. Probabilistic weather avoidance routes for medium-term storm avoidance ('PSA-Met')	Report	Probabilistic weather avoidance routes for medium-term storm avoidance ('PSA-Met')	13JAN21	Final technical report - https://engagektn.com/cf-summaries/
6	C1. Probabilistic weather avoidance routes for	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/

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#	Who	Output	Event	Date	Further information
	medium-term storm avoidance ('PSA-Met')				
7	C2. airport-sCAle seveRe weather nowcastinG project ('CARGO')	Book chapter	Selected Papers of the International Conference on Time Series and Forecasting (ITISE 2019)	2019	"A Comparative Study on Machine Learning Techniques for Intense Convective Rainfall Events Forecasting" in Valenzuela O., Rojas F., Herrera L.J., Pomares H., Rojas I. (eds) Theory and Applications of Time Series Analysis. ITISE 2019. Contributions to Statistics. (ISBN 978-3-030-56218-2) - https://doi.org/10.1007/978-3-030-56219-9_20
8	C2. airport-sCAle seveRe weather nowcastinG project ('CARGO')	Presentation	TC3(2) workshop	05NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/
9	C2. airport-sCAle seveRe weather nowcastinG project ('CARGO')	Presentation	EGU General Assembly 2020	04-08MAY20	Abstract and slides: https://meetingorganizer.copernicus.org/EGU2020/EGU2020-20601.html
10	C2. airport-sCAle seveRe weather nowcastinG project ('CARGO')	Presentation	EGU General Assembly 2020	04-08MAY20	Abstract and slides: https://meetingorganizer.copernicus.org/EGU2020/EGU2020-15177.html
11	C2. airport-sCAle seveRe weather nowcastinG project ('CARGO')	Conference paper	2020 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)	26SEP20-02OCT20	Session: TU2.R19 Clouds and Precipitation I "Understanding severe weather events at airport spatial scale"
12	C2. airport-sCAle seveRe weather nowcastinG project ('CARGO')	Report	airport-sCAle seveRe weather nowcastinG project ('CARGO')	31DEC20	Final technical report - https://engagektn.com/cf-summaries/

#	Who	Output	Event	Date	Further information
13	C2. airport-sCAle seveRe weather nowcastinG project ('CARGO')	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
14	C3. Authentication and integrity for ADS-B	Code	SeRo Systems resources	24OCT19	"Phase Overlay Analysis" - https://sero-systems.de/resources/phase_overlay.html
15	C3. Authentication and integrity for ADS-B	Report	Authentication and integrity for ADS-B	30SEP20	Final technical report - https://engagektn.com/cf-summaries/
16	C3. Authentication and integrity for ADS-B	Presentation	TC1(2) workshop	10NOV20	Slides (zipped) - https://engagektn.com/thematic-challenges/
17	C4. Data-driven trajectory imitation with reinforcement learning	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/
18	C4. Data-driven trajectory imitation with reinforcement learning	Article	arXiv	16MAY20	eprint in collaboration with University of Piraeus Research Center's PhD candidate, arXiv:2005.07960, 2020 "Data Driven Aircraft Trajectory Prediction with Deep Imitation Learning" - https://arxiv.org/abs/2005.07960
19	C4. Data-driven trajectory imitation with reinforcement learning	Conference paper	11th Hellenic Conference on Artificial Intelligence (SETN 2020)	02-04SEP20	Session 9: Forecasting, Trajectory Prediction "Apprenticeship learning of flight trajectories prediction with inverse reinforcement learning" - https://dl.acm.org/doi/10.1145/3411408.3411427
20	C4. Data-driven trajectory imitation with reinforcement learning	Report	Data-driven trajectory imitation with reinforcement learning	23NOV20	Final technical report - https://engagektn.com/cf-summaries/

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#	Who	Output	Event	Date	Further information
21	C4. Data-driven trajectory imitation with reinforcement learning	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
22	C5. A Data-drIven approach for dynamic and Adaptive trajectory PredictiON ('DIAPasON')	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/
23	C5. A Data-drIven approach for dynamic and Adaptive trajectory PredictiON ('DIAPasON')	Report	A Data-drIven approach for dynamic and Adaptive trajectory PredictiON ('DIAPasON')	31JUL20	Final technical report - https://engagektn.com/cf-summaries/
24	C5. A Data-drIven approach for dynamic and Adaptive trajectory PredictiON ('DIAPasON')	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 54: "Traffic Characterization for a Dynamic and Adaptive Trajectory Prediction Data-Driven Approach" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_54red.pdf
25	C5. A Data-drIven approach for dynamic and Adaptive trajectory PredictiON ('DIAPasON')	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
26	C5. A Data-drIven approach for dynamic and Adaptive trajectory PredictiON ('DIAPasON')	Journal article	Transportation Research Procedia, Vol. 58, pp. 5-12	2021	"A data-driven approach for dynamic and adaptive aircraft trajectory prediction" - https://www.sciencedirect.com/science/article/pii/S2352146521007614
27	C6. Operational alert Products for ATM via SWIM ('OPAS')	Presentation	5th International Training School on Convective and Volcanic Clouds (CVC)	04OCT19	Slides (300MB) - http://sacs.aeronomie.be/OPAS/20191004_CVC_EWS_part1.pptx

#	Who	Output	Event	Date	Further information
28	C6. Operational alert Products for ATM via SWIM ('OPAS')	Presentation	TC3(2) workshop	05NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/
29	C6. Operational alert Products for ATM via SWIM ('OPAS')	Poster	9th SESAR Innovation Days (SIDs 2019)	02-05DEC19	Poster - https://www.sesarju.eu/sites/default/files/documents/sid/2019/posters/Roll%20up%20SIDs%202019-14%20OK.pdf
30	C6. Operational alert Products for ATM via SWIM ('OPAS')	Presentation	EGU General Assembly 2020	04-08MAY20	Abstract and slides: https://meetingorganizer.copernicus.org/EGU2020/EGU2020-15249.html
31	C6. Operational alert Products for ATM via SWIM ('OPAS')	Poster	9th International DOAS Workshop	13-15JUL20	Poster 6 - http://sacs.aeronomie.be/OPAS/20200713_DOASws_poster-6_Brenot_OPAS.pdf
32	C6. Operational alert Products for ATM via SWIM ('OPAS')	Conference paper	2020 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)	26SEP20-02OCT20	Session: WE1.R2 Monitoring and Damage Assessment of Natural Disasters III "Prototyping of a multi-hazard early warning system for aviation and development of NRT alert products within the EUNADICS-AV and OPAS projects"; Paper - http://sacs.aeronomie.be/OPAS/20200930_IGARSS_proceedings_vanGent_OPAS.pdf
33	C6. Operational alert Products for ATM via SWIM ('OPAS')	Report	Operational alert Products for ATM via SWIM ('OPAS')	16OCT20	Final technical report - https://engagektn.com/cf-summaries/
34	C6. Operational alert Products for ATM via SWIM ('OPAS')	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 72: "Volcanic SO2 Height SWIM Service" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_72red.pdf
35	C6. Operational alert Products for ATM via SWIM ('OPAS')	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
36	C7. An interaction metric for an efficient traffic	Presentation	TC2(2) workshop	02DEC19	Slides (zipped) - https://engagektn.com/thematic-challenges/

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#	Who	Output	Event	Date	Further information
	demand management: requirements for the design of data-driven protection mechanisms ('INTERFACING')				
37	C7. An interaction metric for an efficient traffic demand management: requirements for the design of data-driven protection mechanisms ('INTERFACING')	Report	An interaction metric for an efficient traffic demand management: requirements for the design of data-driven protection mechanisms ('INTERFACING')	31JUL20	Final technical report - https://engagektn.com/cf-summaries/
38	C7. An interaction metric for an efficient traffic demand management: requirements for the design of data-driven protection mechanisms ('INTERFACING')	Presentation	Summer school 2020	21-25SEP20	(unpublished)
39	C7. An interaction metric for an efficient traffic demand management: requirements for the design of data-driven protection mechanisms ('INTERFACING')	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
40	C8. MET enhanced ATFCM	Presentation	TC3(2) workshop	05NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/

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#	Who	Output	Event	Date	Further information
41	C8. MET enhanced ATFCM	Poster	9th SESAR Innovation Days (SIDs 2019)	02-05DEC19	Poster - https://www.sesarju.eu/sites/default/files/documents/sid/2019/posters/Roll%20up%20SIDs%202019-16%20red.pdf
42	C8. MET enhanced ATFCM	Dissemination	Blog	09JAN20	Blog post - https://fracs.aero/2020/01/09/cheers-to-2019-projects-and-events/
43	C8. MET enhanced ATFCM	Demonstration	World ATM Congress	10-12MAR20	Stand 480 (TBC); event later cancelled due to Covid-19
44	C8. MET enhanced ATFCM	Dissemination	Blog	25MAR20	Blog post - https://fracs.aero/2020/03/25/met-enhanced-atfcm-a-rd-convection-tool-by-fracs-and-metsafe/
45	C8. MET enhanced ATFCM	Dissemination	FRACS newsletter	31MAR20	Newsletter - https://mailchi.mp/e58d6b7fae69/juin-chez-dsna-services-1336570?e=7b64faad17
46	C8. MET enhanced ATFCM	Dissemination	LinkedIn	08JUL20	Operational validation - https://www.linkedin.com/posts/metsafe_innovation-weather-sesar-activity-6686539615836397568-Fnoi
47	C8. MET enhanced ATFCM	Tool	SWIM webservice	01SEP20	European Convection Forecast - https://eur-registry.swim.aero/services/metsafe-european-convection-forecast-10
48	C8. MET enhanced ATFCM	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
49	C8. MET enhanced ATFCM	Report	MET enhanced ATFCM	29JAN21	Final technical report - https://engagektn.com/cf-summaries/
50	C8. MET enhanced ATFCM	Presentation	Meteorological Technology World Expo Virtual 'Live' Conference for Aviation Meteorology	24MAR21	Content included with 'WIPA' presentation

#	Who	Output	Event	Date	Further information
51	C9. Exploring future UDPP concepts through computational behavioural economics	Presentation	TC4(2) workshop	12NOV19	Slides (zipped) - https://engagektn.com/thematic-challenges/
52	C9. Exploring future UDPP concepts through computational behavioural economics	Poster	9th SESAR Innovation Days (SIDs 2019)	02-05DEC19	Poster - https://www.sesarju.eu/sites/default/files/documents/sid/2019/posters/Roll%20up%20SIDs%202019-13%20OK.pdf
53	C9. Exploring future UDPP concepts through computational behavioural economics	Report	D1.1 UDPP Assessment Framework: Indicators and Metrics	07JAN20	Report - https://engagektn.com/cf-summaries/
54	C9. Exploring future UDPP concepts through computational behavioural economics	Report	D2.1 Tactical Slot and Trajectory Allocation Mechanisms: Qualitative Assessment	10JAN20	Report - https://engagektn.com/cf-summaries/
55	C9. Exploring future UDPP concepts through computational behavioural economics	Presentation	EUROCONTROL UDPP team	02FEB20	(unpublished)
56	C9. Exploring future UDPP concepts through computational behavioural economics	Presentation	Workshop	27JUL20	(unpublished)
57	C9. Exploring future UDPP concepts through computational	Report	D3.1 Agent-Based Simulation Model for the Analysis of Tactical Slot and	24AUG20	Report - https://engagektn.com/cf-summaries/

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#	Who	Output	Event	Date	Further information
	behavioural economics		Trajectory Allocation Mechanisms		
58	C9. Exploring future UDPP concepts through computational behavioural economics	Report	Exploring future UDPP concepts through computational behavioural economics	30AUG20	Final technical report - https://engagektn.com/cf-summaries/
59	C9. Exploring future UDPP concepts through computational behavioural economics	Report	D4.1 Results of Simulation Experiments: Comparative Analysis of Different Tactical Slot and Trajectory Allocation Mechanisms	31AUG20	Report - https://engagektn.com/cf-summaries/
60	C9. Exploring future UDPP concepts through computational behavioural economics	Presentation	Summer school 2020	21-25SEP20	(unpublished)
61	C9. Exploring future UDPP concepts through computational behavioural economics	Conference paper	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Paper 61: "Evaluation of Flight Prioritization Mechanisms Through Agent-Based Modelling" - https://www.sesarju.eu/sites/default/files/documents/sid/2020/papers/SIDs_2020_paper_61red.pdf
62	C9. Exploring future UDPP concepts through computational behavioural economics	Conference paper	14th USA/Europe Air Traffic Management Research and Development Seminar (ATM2021)	20-24SEP21	Paper 51: "Exploring future UDPP concepts through computational behavioural economics" - https://drive.google.com/file/d/1pI3JYvQvCgaBRa-d17YB15Tn9Sm3oHN3/view
63	C10. The drone identity - investigating forensic-	Journal article	IEEE Access, Vol. 7, pp. 148401-148412	2019	"LiveBox: A Self-Adaptive Forensic-Ready Service for Drones" - http://dx.doi.org/doi:10.1109/ACCESS.2019.2942033

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#	Who	Output	Event	Date	Further information
	readiness of U-Space services				
64	C10. The drone identity - investigating forensic-readiness of U-Space services	Conference paper	27th IEEE International Requirements Engineering Conference (RE'19)	23-27SEP19	Proceedings "Environment-Centric Safety Requirements forAutonomous Unmanned Systems" - https://oro.open.ac.uk/62308/
65	C10. The drone identity - investigating forensic-readiness of U-Space services	Conference paper	34th IEEE/ACM International Conference on Automated Software Engineering (ASE'19)	11-15NOV19	Proceedings "Cautious Adaptation of Defiant Components" - http://oro.open.ac.uk/66811
66	C10. The drone identity - investigating forensic-readiness of U-Space services	Presentation	Canterbury Cyber Conference	21JAN20	(unpublished)
67	C10. The drone identity - investigating forensic-readiness of U-Space services	Conference paper	International Conference on Robotics and Automation	31MAY20-31AUG20	Proceedings "Privacy-Aware UAV Flights through Self-Configuring Motion Planning" - https://oro.open.ac.uk/69154/
68	C10. The drone identity - investigating forensic-readiness of U-Space services	Report	The drone identity	30JUN20	Final technical report - https://engagektn.com/cf-summaries/
69	C10. The drone identity - investigating forensic-readiness of U-Space services	Presentation	TC1(2) workshop	10NOV20	Slides (zipped) - https://engagektn.com/thematic-challenges/
70	C10. The drone identity - investigating forensic-readiness of U-Space services	Video	DroneBox: Automated Adaptive Collection of UAV Flight Data	2021	Video - https://www.droneidentity.eu/
71	C11. Proof-of-concept: practical,	Presentation	Webinar ("The cyber world - a	16JUN21	(unpublished)

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#	Who	Output	Event	Date	Further information
	flexible, affordable pentesting platform for ATM/avionics cybersecurity ('ATM-cybersec')		threat or an opportunity")		
72	C11. Proof-of-concept: practical, flexible, affordable pentesting platform for ATM/avionics cybersecurity ('ATM-cybersec')	Report	Proof-of-concept: practical, flexible, affordable pentesting platform for ATM/avionics cybersecurity ('ATM-cybersec')	29JUL21	Final technical report - https://engagektn.com/cf-summaries/
73	C11. Proof-of-concept: practical, flexible, affordable pentesting platform for ATM/avionics cybersecurity ('ATM-cybersec')	Presentation	TC1(3) workshop	15SEP21	Slides (zipped) - https://engagektn.com/thematic-challenges/
74	C11. Proof-of-concept: practical, flexible, affordable pentesting platform for ATM/avionics cybersecurity ('ATM-cybersec')	Journal article	IEEE Transactions on Aerospace and Electronic Systems (early access)	31DEC21	"Cybersecurity attacks on software logic and error handling within ADS-B implementations: Systematic testing of resilience and countermeasures" - https://doi.org/10.1109/TAES.2021.3139559
75	C11. Proof-of-concept: practical, flexible, affordable pentesting platform for ATM/avionics cybersecurity	Journal article	IEEE Access, Vol. 10, pp. 21554-21562	02FEB22	"GDL90fuzz: Fuzzing - GDL-90 Data Interface Specification Within Aviation Software and Avionics Devices–A Cybersecurity Pentesting Perspective" - https://doi.org/10.1109/ACCESS.2022.3150840

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#	Who	Output	Event	Date	Further information
	('ATM-cybersec')				
76	C12. Safe drone flight - assuring telemetry data integrity in U-Space scenarios ('SDF')	Presentation	TC1(2) workshop	10NOV20	Slides (zipped), project content included with 'The Drone Identity' presentation - https://engagektn.com/thematic-challenges/
77	C12. Safe drone flight - assuring telemetry data integrity in U-Space scenarios ('SDF')	Presentation	Interim project workshop	11JAN21	(unpublished; workshop takeaways are summarised in the Final technical report - see #79)
78	C12. Safe drone flight - assuring telemetry data integrity in U-Space scenarios ('SDF')	Presentation	Final project workshop	14JUN21	(unpublished; workshop takeaways are summarised in the Final technical report - see #79)
79	C12. Safe drone flight - assuring telemetry data integrity in U-Space scenarios ('SDF')	Report	Safe drone flight - assuring telemetry data integrity in U-Space scenarios ('SDF')	27JUL21	Final technical report - https://engagektn.com/cf-summaries/
80	C12. Safe drone flight - assuring telemetry data integrity in U-Space scenarios ('SDF')	Presentation	TC1(3) workshop	15SEP21	Slides (zipped) - https://engagektn.com/thematic-challenges/
81	C12. Safe drone flight - assuring telemetry data integrity in U-Space scenarios ('SDF')	Report	Use Cases and Scenarios	06DEC21	Report - https://engagektn.com/cf-summaries/
82	C13. Flight centric ATC with airstreams ('FC2A')	Presentation	Summer school 2020	21-25SEP20	(unpublished)
83	C13. Flight centric ATC with airstreams ('FC2A')	Poster	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Poster - https://d1keuthy5s86c8.cloudfront.net/static/ems/upload/files/FC2A_SIDs_2020_Poster_V2.2.pdf

#	Who	Output	Event	Date	Further information
84	C13. Flight centric ATC with airstreams ('FC2A')	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
85	C13. Flight centric ATC with airstreams ('FC2A')	Presentation	Operational workshop	16FEB21	https://neometsys.fr/2021/02/01/save-the-date-fc2a-operational-workshop-february-16th-2021-10h00-13h00-cet-virtual-event/
86	C13. Flight centric ATC with airstreams ('FC2A')	Presentation	Industrial workshop	15APR21	https://neometsys.fr/2021/03/31/save-the-date-fc2a-industrial-workshop-april-15th-2021-10h00-13h00-cet-virtual-event/
87	C13. Flight centric ATC with airstreams ('FC2A')	Presentation	9th International Conference on Experiments / Process / System / Modeling / Simulation / Optimization	07-10JUL21	Session: Smart and collaborative flow management "Flight Centric Air Traffic Control with Airstreams. A New Approach to Traffic Flow Modeling"
88	C13. Flight centric ATC with airstreams ('FC2A')	Report	Flight centric ATC with airstreams ('FC2A')	30NOV21	Final technical report - https://engagektn.com/cf-summaries/
89	C14. Meteo Sensors In the Sky ('METSIS')	Dissemination	NLR press release	17JUL20	NLR - https://www.nlr.org/news/kick-off-metsis-project-real-time-weather-information-for-drone-operators/
90	C14. Meteo Sensors In the Sky ('METSIS')	Poster	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Poster - https://d1keuthy5s86c8.cloudfront.net/static/ems/upload/files/METSIS_Poster_V1.pdf
91	C14. Meteo Sensors In the Sky ('METSIS')	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
92	C14. Meteo Sensors In the Sky ('METSIS')	Presentation	Amsterdam Drone Week Industry Update 2021	01JUL21	-
93	C14. Meteo Sensors In the Sky ('METSIS')	Dissemination	SESAR e-news feature	13JUL21	Feature - https://www.sesarju.eu/news/winds-change-how-weather-impacts-drone-operations

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#	Who	Output	Event	Date	Further information
94	C14. Meteo Sensors In the Sky ('METSIS')	Video	METeo Sensors In the Sky (METSIS) project	13JUL21	Video - https://www.youtube.com/watch?v=-OVcgA3-hRQ
95	C14. Meteo Sensors In the Sky ('METSIS')	Dissemination	LinkedIn	JUL21	Wind nowcasts for drones by drones - https://www.linkedin.com/posts/nlr_wind-nowcasts-for-drones-by-drones-activity-6818494329657532416-ViYW
96	C14. Meteo Sensors In the Sky ('METSIS')	Dissemination	Dronewatch news article	23JUL21	Feature - https://www.dronewatch.nl/2021/07/23/nieuw-systeem-van-nlr-en-airhub-voorspelt-lokale-windsnelheden-op-lage-hoogte/
97	C14. Meteo Sensors In the Sky ('METSIS')	Report	METeo Sensors In the Sky ('METSIS')	30JUL21	Final technical report - https://engagektn.com/cf-summaries/
98	C14. Meteo Sensors In the Sky ('METSIS')	Conference paper	11th SESAR Innovation Days (SIDs 2021)	07-09DEC21	Paper 88: "METSIS: Hyperlocal Wind Nowcasting for U-space" - https://www.sesarju.eu/sites/default/files/documents/sid/2021/papers/SIDs_2021_paper_88.pdf
99	C15. Probabilistic information Integration in Uncertain data processing for Trajectory Prediction ('PIU4TP')	Dissemination	CIRA project page	JUL20	CIRA - https://www.cira.it/en/aeronautics/sistemi-di-bordo-e-atm/piu4tp
100	C15. Probabilistic information Integration in Uncertain data processing for Trajectory Prediction ('PIU4TP')	Poster	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Poster - https://d1keuthy5s86c8.cloudfront.net/static/ems/upload/files/SIDs_2020_POSTER_P4T_FINAL.pdf
101	C15. Probabilistic information Integration in Uncertain data	Presentation	TC2(3) workshop	25JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/

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#	Who	Output	Event	Date	Further information
	processing for Trajectory Prediction ('PIU4TP')				
102	C15. Probabilistic information Integration in Uncertain data processing for Trajectory Prediction ('PIU4TP')	Report	Probabilistic information Integration in Uncertain data processing for Trajectory Prediction ('PIU4TP')	22JUL21	Final technical report - https://engagektn.com/cf-summaries/
103	C16. Collaborative cyber security management framework	Report	Collaborative cyber security management framework	30JUN21	Final technical report - https://engagektn.com/cf-summaries/
104	C16. Collaborative cyber security management framework	Presentation	TC1(3) workshop	15SEP21	Slides (zipped) - https://engagektn.com/thematic-challenges/
105	C16. Collaborative cyber security management framework	Book chapter	Cybersecurity in Transport Systems	JUN22	IET book shop - https://shop.theiet.org/cybersecurity-in-transport-systems
106	C17. Role of Markets in AAS Deployment ('RoMiAD')	Dissemination	Blog	AUG20	Blog post - https://think.aero/views/romiad-catalyst-of-atm-transformation/
107	C17. Role of Markets in AAS Deployment ('RoMiAD')	Presentation	Summer school 2020	21-25SEP20	(unpublished)
108	C17. Role of Markets in AAS Deployment ('RoMiAD')	Video	Role Of Markets In Airspace Architecture Study (AAS) Deployment	25SEP20	Video - https://www.youtube.com/watch?v=68TVzT3lMmQ
109	C17. Role of Markets in AAS Deployment ('RoMiAD')	Presentation	First Virtual User Group	OCT20	(unpublished)
110	C17. Role of Markets in AAS	Dissemination	Blog	OCT20	Blog post - https://think.aero/views/do-

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#	Who	Output	Event	Date	Further information
	Deployment ('RoMiAD')				we-need-to-regulate-virtualisation/
111	C17. Role of Markets in AAS Deployment ('RoMiAD')	Presentation	Second Virtual User Group	DEC20	(unpublished)
112	C17. Role of Markets in AAS Deployment ('RoMiAD')	Presentation	ICAO Global Symposium 2020	DEC20	Video - https://think.aero/videos/how-virtualisation-can-transform-the-atm-marketplace/
113	C17. Role of Markets in AAS Deployment ('RoMiAD')	Presentation	Third Virtual User Group	FEB21	(unpublished)
114	C17. Role of Markets in AAS Deployment ('RoMiAD')	Presentation	EUROCAE WG-122 - Regulatory considerations for the deployment of virtual centres	2021	-
115	C17. Role of Markets in AAS Deployment ('RoMiAD')	Presentation	CANSO Strategic Technology Workgroup (STWG) - Inputs on the deployment of virtual centres	2021	-
116	C17. Role of Markets in AAS Deployment ('RoMiAD')	Dissemination	Blog	MAR21	Blog post - https://think.aero/views/initial-thoughts-on-the-benefits-of-virtualisation-in-atm/
117	C17. Role of Markets in AAS Deployment ('RoMiAD')	Report	Role of Markets in AAS Deployment ('RoMiAD')	31MAR21	Project report - https://think.aero/testing/wp-content/uploads/2021/09/RoMiAD-technical-report-1.pdf
118	C17. Role of Markets in AAS Deployment ('RoMiAD')	Report	Role of Markets in AAS Deployment ('RoMiAD')	07MAY21	Final technical report - https://engagektn.com/cf-summaries/
119	C17. Role of Markets in AAS Deployment ('RoMiAD')	White paper	How to incentivise innovation in ATM?	17JUN21	White paper - https://engagektn.com/cf-summaries/
120	C17. Role of Markets in AAS	Presentation	TC4(3) workshop	21JUN21	Slides (zipped) - https://engagektn.com/thematic-challenges/

#	Who	Output	Event	Date	Further information
	Deployment ('RoMiAD')				
121	C18. Weather impact prediction for ATFCM ('WIPA')	Dissemination	Blog	07OCT20	Blog post - https://fracs.aero/2020/10/07/the-weather-impact-tool-for-atfcm-is-becoming-an-operational-reality/
122	C18. Weather impact prediction for ATFCM ('WIPA')	Poster	10th SESAR Innovation Days (SIDs 2020)	07-10DEC20	Poster - https://d1keuthy5s86c8.cloudfront.net/static/ems/upload/files/WIPA_poster_final.pdf
123	C18. Weather impact prediction for ATFCM ('WIPA')	Presentation	TC3(3) workshop	27JAN21	Slides (zipped) - https://engagektn.com/thematic-challenges/
124	C18. Weather impact prediction for ATFCM ('WIPA')	Presentation	Meteorological Technology World Expo Virtual 'Live' Conference for Aviation Meteorology	24MAR21	Content included with 'MET enhanced ATFCM' presentation
125	C18. Weather impact prediction for ATFCM ('WIPA')	Presentation	SMART Weather Task Force 1st workshop	05MAY21	(unpublished)
126	C18. Weather impact prediction for ATFCM ('WIPA')	Tool	SWIM webservice	JUN21	VigiAero - http://www.vigiaero.com/
127	C18. Weather impact prediction for ATFCM ('WIPA')	Dissemination	Blog	25JUN21	Blog post - https://fracs.aero/2021/06/25/weather-impact-for-atm-a-challenge-rewarded/
128	C18. Weather impact prediction for ATFCM ('WIPA')	Presentation	SMART Weather Task Force 2nd workshop	29JUN21	(unpublished)
129	C18. Weather impact prediction for ATFCM ('WIPA')	Report	Weather impact prediction for ATFCM ('WIPA')	30JUL21	Final technical report - https://engagektn.com/cf-summaries/

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