Project's website and factsheet

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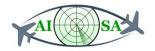
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Name/Beneficiary	Position/Title	Date
Andrej Kocsis/SLOT	SLOT contributor	12 October 2020
Roland Guraly/SLOT	WP6 leader	16 November 2020

Reviewers internal to the project

Name/Beneficiary	Position/Title	Date
Tomislav Radišić/FTTS	Project Coordinator	19 November 2020

Approved for submission to the SJU By - Representatives of beneficiaries involved in the project

Name/Beneficiary	Position/Title	Date
Tomislav Radišić/FTTS	Project Coordinator	27 November 2020

Rejected By - Representatives of beneficiaries involved in the project

Name/Beneficiary	Position/Title	Date

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AI SITUATIONAL AWARENESS FOUNDATION FOR ADVANCING AUTOMATION

This deliverable is part of a project that has received funding from the SESAR Joint Undertaking under grant agreement No 892618 under European Union's Horizon 2020 research and innovation programme.



Abstract

AISA (AI Situational Awareness Foundation for Advancing Automation) is a SESAR Exploratory Research project investigating how to increase automation in air traffic management. The project will explore domain-specific application of transparent and generalizable artificial intelligence methods.

The AISA website is obviously the main tool for communication, a central reference for the project and a data repository of all the main results. It is also a dissemination tool, e.g. the technical deliverables, papers will be accessible there, but the main purpose is to support communication, either indirectly or directly. Indirectly, it means that there are and will be information there, other communication tools can refer to and directly, when there is an events page for example where participants can register for a workshop.

This document describes the website structure and shows examples of the various pages.





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1 Introduction

1.1 Website vs. the report

This document relates to the AISA website which is a living online deliverable. The AISA consortium considers that the website is the main deliverable while the report is only a written summary of its current content and structure. Therefore – unless stated otherwise – by deliverable in this document we mean the website itself and not the current document - report.

1.2 Purpose

This report, i.e. the AISA Deliverable 6.2, describes the website created for external communication about and on the project. This deliverable relates to the AISA work package (WP) 6 'Exploitation and Dissemination Plan' which includes the following objectives:

- To support the exploitation of the project outputs by consolidating the project visibility among stakeholders at EU level and towards users through a project website and additional dissemination and communication tools and materials, and
- To enable smooth communication and knowledge sharing among the targeted stakeholders at EU level.

The website serves as an information hub for the project and provides a tool to support the communication, dissemination and exploitation activities of the project as mentioned in the D6.1 Dissemination and Exploitation Plan [1].

The website was due to be activated T0+06, but that webpage was activated earlier than planned (on Jul 13 2020) so that all project activities can be promoted on it in time. It was especially important to activate the website as the AISA ConOps WS was due much earlier than the activation time for the website and the consortium used the website for promoting the project and the workshop also for accepting registration of the interested parties.

1.3 Intended audience

In terms of the audience, two different categories should be mentioned:

- The website itself
- The report.

It is considered that the main deliverable is the website itself as can be found online and as the website itself is public, it is basically created for everyone.

The report is a written summary of the website, a representation of the structure, etc. In this manner it is secondary to the website itself and the main audience is the SJU, although as it is a public





document, it might be interesting for those who would like to understand the reasons for the AISA website structure as well.

1.4 Associated documentation

The website and consequently this document are linked to the D6.1 Exploitation and Dissemination Plan [2].

1.5 Structure of the document

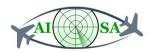
First, this document provides the structure of the website with a brief description of the subpages, then it provides examples (screenshots) of the website. It is worth mentioning that the website is constantly evolving as the project reaches more mature stages. Another reason for changes on the website is communication needs, for example when organising a workshop, the "Events" page is changing over the different steps: when organising a workshop, the communication is focusing on promoting the workshop and enabling registration, after the workshop the website changes and serves rather to promote the results of the workshop.

1.6 Used acronyms

The following table contain acronyms used in this deliverable:

Acronym	Meaning
AISA	Al Situational Awareness Foundation for Advancing Automation
ATM	Air Traffic Management
ATC	Air Traffic Control
ConOps	Concept of Operations
FAQ	Frequently asked questions
SESAR JU	SESAR Joint Undertaking
WP	Work Package
WS	Workshop

Table 1 Acronyms





2 The project's website structure

The website of the SESAR JU AISA project is available at https://aisa-project.eu/ and is responsive to the browser, making it also readable from mobile devices.

All sections of the website have on top the AISA logo and on the bottom a reference to the SESAR JU funding. Also, a link to the main home page and the other tabs is included and accessible from all subpages.

The website structure is the following:

Home

The "Home" (Figure 1 Home page of the AISA Consortium website) section of the website provides a short high-level description of the project activities and goals. The text is written in easy to read way not delving into deeper scientific discussion. The goal is to start some kind of communication and raise the interest of the public and especially the interest of the experts or end-users to the topic.

More

Section "More" (Figure 2 Extension of the Home page of the AISA Consortium website (section 'More')) should provide more details about the project's research work and will be enriched as more result will be available. This page also contains the link to the FAQ section. As the project dealing with various fields of knowledge one can expect that some terms would be new even to the experts.

o FAQ

This section (Frequently Asked Questions Figure 3) is simply showing short explanations of the terms used either on the website, in published deliverables or in published articles/papers. We consider it useful as experts from different areas usually know the vocabulary of their own area and the project delves into at least three different research areas.

Events

The consortium plans to organise at least two own events, so this sub-page is the placeholder for the relevant information.

The first event - the AISA ConOps workshop has been successfully held. The 'Events' page (Figure 4) now contains a brief description of the event and the presentation delivered at the event in pdf and in video formats.

Before that it contained information on the event (Figure 4) and the link to the registration page (Figure 6).

Subsequent events (at least one) will be handled similarly as the first event was a major success with around 60 participants and the lively interaction with them.

Publications







At "Publications" page (Figure 7) all the public deliverables and the approved scientific papers will be shown.

Consortium

The "Consortium" section (Figure 8) all the consortium members are listed along with their short description and links to their websites.

Contact Us

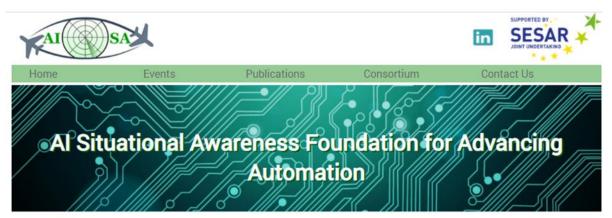
The "Contact Us" section (Figure 9) provides the audience with the basic contact information - name and the email address of the project coordinator.





3 Status of the website

The following images are screenshots from the website serving as examples, showing the current status of the deliverable (during the period when this report was created).



About AISA

AISA (AI Situational Awareness Foundation for Advancing Automation) is a SESAR Exploratory Research project investigating how to increase automation in air traffic management. The project will explore domain-specific application of transparent and generalizable artificial intelligence methods.

Adoption of higher levels of automation is slow because of the fears of the out-of-the-loop effects where air traffic controllers loose situational awareness due to complacency caused by automation. In the worst-case scenario neither the human is completely aware of the traffic situation nor the machine is able to guarantee that the situation is being handled appropriately. Our approach to this problem aims to solve the problems by introducing artificial situational awareness into the, usually only human, team situational awareness.



AISA will present a vision of automation in a specific ATM operational environment (en-route ATC) and address the challenges of transparency and generalization. During the project, a strategy for providing the necessary information to air traffic controllers in order to make them trust the automated system will be devised. Methods to increase the ability of an automated system to adapt to novel circumstances will be explored.

More>>>

Consortium	Funded by	Contact information
FTTS	SESAR Exploratory Research	Prof. Tomislav Radišić
JKU	HORIZON 2020	University of Zagreb
SLOT		tradisic@fpz.unizg.hr
TUBS		
UPM		
ZHAW		
SKYGUIDE		

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Figure 1 Home page of the AISA Consortium website









The specific objectives of AISA are the followings:

- Explore the effects of human-machine distributed situational awareness and opportunities for automation of monitoring tasks in en-route operations.
 Identify the data needed by air traffic controller (ATCO) to ensure that the proposed solution is correct and develop the method to provide that data.
 Investigate methods for adaptation of the automated system to changes of the environment ensuring business continuity and safety

Instead of automating isolated individual tasks, such as conflict detection or coordination, we propose building a foundation for automation by developing an intelligent situation-aware system. Sharing the same team situational awareness among air traffic controller members and Al will enable the automated system to reach the same conclusions as ATCOs when confronted with the same problem and to be able to explain the reasoning behind those conclusions. This system will at first be able to automate some of the monitoring tasks, because machines cannot currently reach the same level of awareness as humans, but as the development progresses it will be able to take over more complex tasks.

Concept of Distributed Situational Awareness for Future Automated Systems

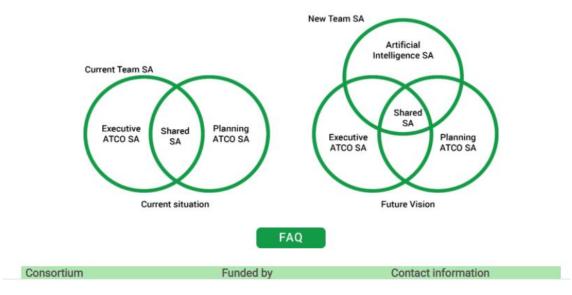


Figure 2 Extension of the Home page of the AISA Consortium website (section 'More')







What is Artificial intelligence?

An intelligence demonstrated by machines.

What is Aeronautical Information Management?

AIM is dynamic, integrated management of aeronautical information services — safely, economically and efficiently — through the provision and exchange of quality-assured digital aeronautical data in collaboration with all parties.

What is Air Traffic Complexity?

Air traffic complexity is defined as difficulty of monitoring and managing a specific air traffic situation.

What are the Aeronautical Information Services?

AIS is a service established in support of international civil aviation, whose objective is to ensure the flow of information necessary for the safety, regularity, and efficiency of international air navigation.

What is Aeronautical Information Exchange Model?

The objective of the AIXM is to enable the provision in digital format of the aeronautical information that is in the scope of Aeronautical Information Services (AIS).

What is Air Traffic Control?

Air Traffic Control's principal purpose is to maintain sufficient separation between aircraft and between aircraft and obstructions on the ground to avoid collisions.

Who is Air Traffic Controller?

Air traffic controllers manage aircraft though all phases of flight, with a stress on safety, orderliness and efficiency. In their doing so, they use various means of communication, navigation and surveillance in order to give information, instructions and clearances to pilots.

What is Air Traffic Flow Management?

ATFM regulates the flow of aircraft as efficiently as possible in order to avoid congestion of certain control sectors.

What is Air Traffic Management?

ATM is covering all the activities involved in ensuring the safe and orderly flow of the air traffic. It comprises three main services – Air Traffic Control (ATC), Air Traffic Flow Management (ATFM) and Airspace Management (ASM).

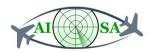
What is Automation?

Automation refers to systems or methods in which many of the processes of production are automatically performed or controlled by autonomous machines or electronic devices.

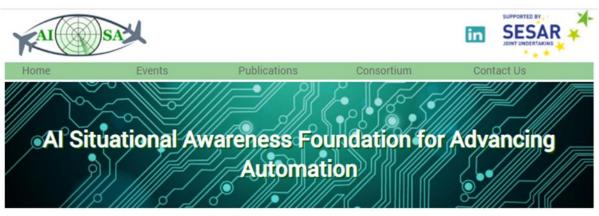
Figure 3 FAQ page of the AISA Consortium website

Founding Members

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Events

AISA CONOPS Workshop

16 September 2020

The AISA project will organize its first workshop on the 16th of September 2020. During the online event, the consortium will present the draft Concept of Operations for the proposed new ATM Artificial Intelligence Situational Awareness System.

Download the e-leaflet related to the workshop.

Please note that the CONOPS workshop will be repeated in different time slots to increase the possibility for interactive discussion with a limited number of participants in one slot. After registration an email will be sent to participants where there will be a possibility to choose the time slot best suitable for the participant. Each slot will be approximately one and half hour, starting with the presentation of the AISA CONOPS and then continues with an interactive discussion. To ensure an even distribution of participants, choosing of the preferred slot is available only for those who register in time, so an early registration is recommended.

We encourage you to participate and share your thoughts and feedbacks with us!

The participation at the workshop is free of charge but registration is mandatory.

Horizon 2020 Research and Innovation programm

Please register.

Register Funded by Consortium Contact information Prof. Tomislav Radišić University of Zagreb SESAR Exploratory Research FTTS HORIZON 2020 JKU tradisic@fpz.unizg.hr SLOT TUBS UPM ZHAW SKYGUIDE This project has received funding from the SESAR Joint Undertaking under Grant Agreement No. 892618, under European Union's

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Figure 4 Events page of the AISA Consortium website before the event

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Events

AISA CONOPS Workshop

16 September 2020

The AISA project organized its first workshop on the 16th of September 2020. During the online event, the consortium presented the draft Concept of Operations for the proposed new ATM Artificial Intelligence Situational Awareness System.

The AISA workshop was repeated in three time slots to ensure better interactivity. The workshop session had more than 50 participants. All the sessions had good discussion sections, questions and comments arrived on several issues.

The workshop was provided by WebEx and several SJU and EUROCONTROL experts were also participating.

All three sessions started with the presentation of the AISA concept of Operation presented by Tomislav Radisic. The presentation took about 45 minutes and followed by the 45 minutes Q&A sessions.

The presentation is available for download in pdf format.

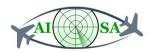
Download the e-leaflet related to the workshop.

Please follow the AISA activities on LinkedIn to be informed in time on next events and developments.

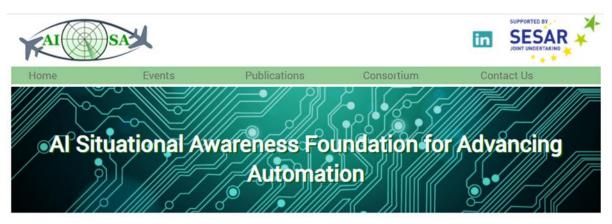
The video recording of the presentation is now available below:



Figure 5 Events page of the AISA Consortium website after the event (only relevant parts are visible due to the size)







Registration form for the AISA ConOps Workshop

Please register for the workshop participation using the following form:



After registration you will receive an email that will confirm that the system has accepted your registration. Please check the spam folder as well as it may end-up there. Later on you will receive a message on the possible time slots to select from. If for any reason you don't find the related messages, or have a question regarding the event, please contact Andrej Kocsis dissemination manager directly at andrejkocsis@slotconsulting.hu

You will receive invitation to the workshop with actual link for the participation later on.

FTTS SESAR Exploratory Research Prof. Tomislav Radišić JKU HORIZON 2020 University of Zagreb SLOT TUBS UPM ZHAW SKYGUIDE	Consortium	Funded by	Contact information
SLOT tradisic@fpz.unizg.hr TUBS UPM ZHAW			
TUBS UPM ZHAW		THORIZON 2020	
ZHAW			
SKYGUIDE			
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Figure 6 Registration page for the AISA ConOps Workshop (no longer available)

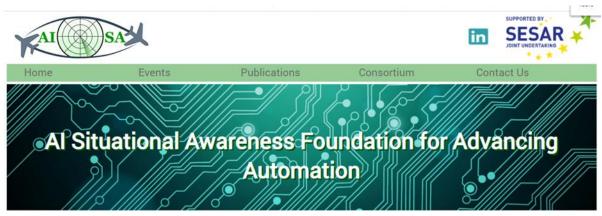
Founding Members 14

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Publications

Please come back later. First publications are expected to be presented by the end of 2020.

Previous related work can be found at the website of the BEST project: www.project-best.eu

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FTTS	SESAR Exploratory Research	Prof. Tomislav Radišić
JKU	HORIZON 2020	University of Zagreb
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TUBS		
UPM		
ZHAW		
SKYGUIDE		
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Figure 7 Publications page of the AISA Consortium website

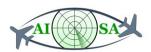


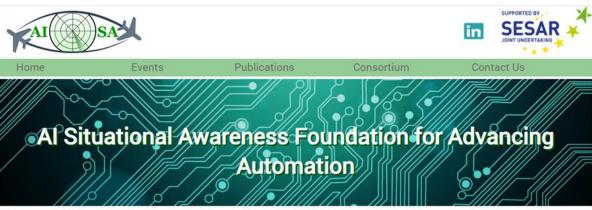




Figure 8 Consortium members' description page of the AISA Consortium website







For any further information about the AISA project, please contact the Project Coordinator.

Prof. Tomislav Radišić University of Zagreb <u>tradisic@fpz.unizg.hr</u>

Consortium

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Figure 9 Contact page of the AISA Consortium website





4 References

- [1] S. S. C. a. M. R. O. Triona Keaveney, SESAR 2020 Communications, SJU, 2020.
- [2] AISA Consortium, "D6.1 Exploitation and Dissemination Plan," 2020.

