Postgraduate research and events database (initial version)

Deliverable 5.3

Engage

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THE SESAR KNOWLEDGE TRANSFER NETWORK

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Abstract

This document describes the methodology applied to the design and population of the initial version of the postgraduate research and events database. The database contains information on European and international conferences, workshops, summer schools, training courses and other relevant events.

The opinions expressed herein reflect the authors' view only. Under no circumstances shall the SESAR Joint Undertaking be responsible for any use that may be made of the information contained herein.

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Executive summary

This deliverable describes the methodology applied to the design and population of the initial version of the postgraduate research and events database, which is the result of work performed under Task 5.1.2 of Engage. The database comprises the following tables:

1. Conferences strictly related to air traffic management or air transport;

2. Conferences with dedicated sessions on air traffic management or air transport;

3. Events, such as summer schools or workshops, related to air traffic management or air transport.

The related postgraduate database of research internships and/or post-graduate recruitment/placement schemes has since been absorbed into another Engage activity.

The main objective of this deliverable is to share the early content with the SJU, with examples, in case additional design and/or content features are requested, and to explain the methodology for the development of this process.

The joint deliverables D5.3 and D5.1 are the first building blocks for the establishment of a comprehensive European programme aimed at educating and training future ATM professionals. They build on existing educational programmes in ATM, and leverage their relationships with industry, in addition to the cooperative opportunities and the educational and training programme within Engage. There is a need to collate and intelligently link these resources into a centralised knowledge hub and repository.

Note.

This deliverable is formally classified as type "Other" in [1] (i.e. covering software, technical diagram, etc.). The corresponding off-line database (currently in Excel format), has been sent to the SJU by e-mail in parallel with this deliverable.

1 Introduction

1.1 Purpose and structure of the document

This deliverable describes the methodology applied to the design and population of the initial version of the database on postgraduate research and events on ATM-related topics, which is the result of the initial work performed under Task 5.1.2 of the Engage KTN. The aim of the database is to assemble in the Engage knowledge hub links to currently planned European and international conferences, workshops, summer schools, etc., including brief information about each activity and, where possible, commenting on the relevance of the activity to research on specific topics or areas.

The main objective is to share the early content with the SJU, with examples, in case additional design and/or content features are requested, and to explain the methodology for the development of this process. This updated deliverable incorporates database changes suggested by the SJU.

The databases of D5.1, describing postgraduate programmes, research opportunities and employment prospects, combined with those of D5.3 on ATM-related events, are the first building blocks for the establishment of a comprehensive European programme aimed at educating and training future ATM professionals. To be successfully implemented, this initiative has to be built upon existing educational programmes in ATM, and leverage their relationships with industry, in addition to the cooperative opportunities and the educational and training programme being developed specifically by the Engage KTN: conferences, workshops, summer schools, 'GEN-INTRO' ATCO training places, university course materials and direct postgraduate (e.g. PhD) funding. There is a need to organise and intelligently link these resources into a centralised knowledge hub and repository, motivating visits to the website, coupled with strong dissemination activities. This is a clear and value-adding role foreseen by Engage: to inspire and support the ATM professional of tomorrow.

The intended postgraduate database of research internships and/or post-graduate recruitment/placement schemes has since been absorbed into another Engage activity (and is not reported here). The events database consists of three tables that list European and international events that are planned or have taken place since 2018:

1. Conferences strictly related to air traffic management or air transport;

2. Conferences with dedicated sessions on air traffic management or air transport;

3. Events, such as summer schools or workshops, related to air traffic management or air transport.

Section 2 briefly describes the methodology applied to addressing the design, population and updating of the database. Firstly, the database design process is described, followed by the plan for

establishing and maintaining the events data. Furthermore, as the database will be publicly available through the Engage wiki, we outline the integration of the database in the wiki. Section 3 describes the database fields; Section 4 summarises the next steps.

1.2 Implications of the General Data Protection Regulation

The General Data Protection Regulation [2] came into force on 25 May 2018, and now governs the use of personal data. The Regulation (referred to as GDPR) concerns the protection of fundamental rights and freedoms of individual persons with regard to processing of personal data, whilst protecting the principle of free movement of personal data within the EU.

In summary, personal data are **any information relating to an identified or identifiable natural person** ('data subject') and **must be kept safe and secure at all times**.

The six data protection principles of GDPR ([2] Article 5) place obligations on organisations to make conscious decisions on how personal information is collected, held and used. Personal data shall be:

- processed lawfully, fairly and in a transparent manner in relation to the data subject;

- collected for specified, explicit and legitimate purposes and not further processed in a manner which is incompatible with those purposes;

- adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed;

- accurate and, where necessary, kept up-to-date;

- kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the personal data are processed;

- processed in a manner that ensures appropriate security of the personal data, including protection against unauthorised or unlawful processing and against accidental loss, destruction, or damage, using appropriate technical or organisational measures.

The Engage consortium (as 'data controller') complies with these principles.

Under GDPR, the processing of personal data must satisfy at least one of the following conditions:

a) consent of the data subject;

b) processing is necessary for the performance of a contract with the data subject;

c) processing is necessary for compliance with a legal obligation;

d) processing is necessary to protect the vital interests of a data subject or another person;

e) processing is necessary for the performance of a task carried out in the public interest;

f) processing is necessary for the purposes of legitimate interests.

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The originally planned postgraduate database of *specific/actual* (onymous) research internships would have kept personal data such as the names of interns and their academic/industrial supervisors – informed and active consent would therefore have been required. To ensure compliance with GDPR, such internships will thus not be collected.

As a complementary activity, post-graduate recruitment/placement scheme opportunities will be advertised on the Engage wiki/public website in a manner currently still under discussion with SJU and potentially in support of the SESAR Academy initiative. This would eventually be anonymous with respect to individual researcher names, for example.

Given this, personal data will **not** be used in the context of the postgraduate research and events database as described in D5.3.

Note that no Engage activities (WP5 related or otherwise) will involve the collection and/or processing of any kind of 'sensitive data' such as, but not limited to, health, ethnicity, political opinion or religious belief.

2 Methodology

The goal is to collect these (currently disparate) data in a centralised, 'one-stop' knowledge hub (with permission sought, where necessary, and not disclosing non-permitted information – see also Section 1.2) accessible and searchable through the Engage wiki. This initial database structure has been designed through the collaboration of the Engage partners. A description of the tables comprising the database can be found in the next section. In order to complete and maintain (i.e. update) the database:

1. Tables 1-3 are being populated by the Engage consortium, SJU suggestions, incoming requests to the website, and in the future by selected users with editing privileges supplied with the passwords.

2. The searchable content will comprise part of the Engage repository. This will be a wiki-like platform, editable by anyone with a password issued, and monitored by Innaxis (as task leader). This web-based content will thus get published automatically and hence also reduce the consortium overhead. Registered users with editing privileges will be able to make the changes to the content at any time. For example, although conference dates may be known a year or more in advance, other conference details such as registration fees and submission deadlines will often be announced later. The Engage consortium will send update reminders every six months to the registered users with editing privileges.

3. The off-line database tables will be migrated to the on-line Engage wiki (currently in the development stage).

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3 Database

This section presents the initial version of the events database tables. The key information to be collected is introduced along with a short description explaining the meaning of each header and sub-header. Although structural changes to the database tables are not expected, modifications may subsequently be made to incorporate suggestions from the interested stakeholders once the Engage knowledge hub is available on-line, and from the SJU.

Table 1. Conferences strictly related to air traffic management (ATM) or air transport

This table collects the currently planned (non-Engage) European and international conferences strictly related to air traffic management or air transport. Entries are ordered by date.

Field	Header	Sub-header	Description
1	Short Name		Short name of the event.
2	Long name		Long name of the event.
3	Website		Website of the event.
4	Frequency		Frequency with which the event takes place, e.g., every year, every two years, etc.
5	Year		Year in which the event takes place.
6	Date		From DD MMM to DD MMM when the event takes place.
7		City	City where the event takes place.
8	Location	Country	Country where the event takes place.
9		Fee	YES (or the amount in the local currency) if a registration fee is required; FREE otherwise.
10	Submission	Abstract	YES, if an abstract is required for submission; NO, otherwise.

Field	Header	Sub-header	Description
11		**Long paper**	YES, if a long paper (8 page minimum) is required for submission; NO, otherwise.
12		**Submission deadline**	Date of submission deadline (DD MMM YYYY); applies to abstract submission date if multiple deadlines exist.
13		**Review process**	Review process, if known.
14	**Available on-line**	**Present-ations**	YES, if presentations are available on-line (free or with access restrictions); NO, otherwise.
15		**Papers**	YES, if papers are available on-line (free or with access restrictions); NO, otherwise.
16	**Conference papers indexed**	**WOS**	YES, if papers submitted to the event are indexed in the Web of Science database; NO, otherwise.
17		**Scopus**	YES, if papers submitted to the event are indexed in the Scopus database; NO, otherwise.
18	**Special issue(s)**		List of journal special issues directly linked to the event, if any.
19	**Special issue papers indexed**	**WOS**	YES, if papers of the special issue(s) are indexed in the Web of Science database; NO, otherwise.
20		**Scopus**	YES, if papers of the special issue(s) are indexed in the Scopus database; NO, otherwise.
21	**Target**		Specify the main target audience of the event; entries include: scientific / industry / policy / etc.
22	**Comment**		Any relevant comment can be inserted here.
23	**Keyword 1**		
24	**Keyword 2**		Keywords describing the event.
25	**Keyword 3**		
26	**Keyword 4**		
27	**Last update (DD/MM/YYYY)**		When this entry was last updated.

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Table 2. Dedicated sessions in ATM or air transport as part of larger conferences

This table collects the currently planned (non-Engage) European and international conferences where dedicated sessions in ATM or air transport are foreseen. Entries are ordered by date.

Field	Header	Sub-header	Description
1	**Short Name**		Short name of the event.
2	**Long name**		Long name of the event.
3	**Website**		Website of the event.
4	**Frequency**		Frequency with which the event takes place, e.g., every year, every two years, etc.
5	**Year**		Year in which the event takes place.
6	**Date**		From DD MMM to DD MMM when the event takes place.
7		**City**	City where the event takes place.
8	**Location**	**Country**	Country where the event takes place.
9		**Fee**	YES (or the amount in the local currency) if a registration fee is required; FREE otherwise.
10		**Abstract**	YES, if an abstract is required for submission; NO, otherwise.
11		**Long paper**	YES, if a long paper (8 page minimum) is required for submission; NO, otherwise.
12	**Submission**	**Submission deadline**	Date of submission deadline (DD MMM YYYY); applies to abstract submission date if multiple deadlines exist.
13		**Review process**	Review process, if known.
14		**Present-ations**	YES, if presentations are available on-line (free or with access restrictions); NO, otherwise.
15	**Available on-line**	**Papers**	YES, if papers are available on-line (free or with access restrictions); NO, otherwise.

Field	Header	Sub-header	Description
16	Conference papers indexed	WOS	YES, if papers submitted to the event are indexed in the Web of Science database; NO, otherwise.
17		Scopus	YES, if papers submitted to the event are indexed in the Scopus database; NO, otherwise.
18	Special Issue(s)		List of journal special issues directly linked to the event, if any.
19	Special issue papers indexed	WOS	YES, if papers of the special issue(s) are indexed in the Web of Science database; NO, otherwise.
20		Scopus	YES, if papers of the special issue(s) are indexed in the Scopus database; NO, otherwise.
21	Target		Specify the main target audience of the event; entries include: scientific / industry / policy / etc.
22	Comment		Any relevant comment can be inserted here.
23	Keyword 1		Keywords describing the event.
24	Keyword 2		
25	Keyword 3		
26	Keyword 4		
27	Last update (DD/MM/YYYY)		When this entry was last updated.

Table 3. Other events

This table collects the currently planned European and international events (including those organised by Engage), such as summer schools, training courses and project workshops, related to air traffic management or air transport. Entries are ordered by date.

Field	Header	Sub-header	Description
1	**Short Name**		Short name of the event.
2	**Long name**		Long name of the event.
3	**Website**		Website of the event.
4	**Type of event**		Description of the type of event, e.g., summer school, workshop, etc.
5	**Topic**		List of main topic(s) addressed.
6	**Short description**		One paragraph describing the main research topic(s) addressed.
7	**Frequency**		Frequency with which the event takes place, e.g., ad hoc every year, every two years, etc.
8	**Year**		Year in which the event takes place.
9	**Date**		From DD MMM to DD MMM when the event takes place.
10	**Location**	**City**	City where the event takes place.
11		**Country**	Country where the event takes place.
12		**Fee**	YES (or the amount in the local currency) if a registration fee is required; FREE otherwise.
13		**Abstract required**	YES, if an abstract is required for submission; NO, otherwise.
14	**Registration**	**CV**	YES, if applicant's CV is requested, NO, otherwise.
15		**Motivation letter**	YES, if a motivation letter from the applicant is requested; NO, otherwise.
16		**Recommendation letter**	YES, if a recommendation letter from a current or past applicant's supervisor is requested; NO, otherwise.

Field	Header	Sub-header	Description
17	Modules		YES, if the event is split into modules; NO, otherwise.
18	Availability of material after the event		YES, if some material of the course is available to participants after the event (free or with access restrictions); NO, otherwise.
19	Comment		Any relevant comment can be inserted here.
20	Keyword 1		
21	Keyword 2		Keywords describing the event.
22	Keyword 3		
23	Keyword 4		
24	Last update (DD/MM/YYYY)		When this entry was last updated.

4 Next steps

The following actions summarise the key next steps for this task:

(1) The EU's General Data Protection Regulation (GDPR) came into force on 25 May 2018, replacing the Data Protection Directive 95/46/EC. As the most important change in data privacy regulation in over twenty years, it is important that the Engage consortium (as 'data controller') conforms to the articles of this new regulation. The implications of the regulation have been understood by the Engage consortium, who will ensure that the planning outlined above is fully compliant with GDPR (see Section 1.2).

(2) Reflect on possible SJU feedback regarding the design and implementation of this task.

(3) Formulate a more detailed plan for the migration of this content (searchable database) to the Engage wiki, with due consideration of (1) and (2). Communicate the plan to the SJU as soon as ready.

(4) Migrate the content to the Engage wiki, whilst ensuring (1) is respected.

(5) The follow-up deliverable, D5.4 Postgraduate research and events database (updated version), will recap the structure of the three database tables, without re-reporting other content already summarised in D5.3. This will be discussed further at the forthcoming consortium meeting in May 2019. It is to be stressed that this design is a dynamic process.

5 References

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

[2]   European Commission, 2016. Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), 04/05/2016.

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