

D4.4 – SAS Network-Wide Event I LAAS-CNRS, Toulouse (FR), 2-5 December 2019

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### **Summary**

Recommendations by the Project Officer regarding the MSCA ETN SAS Mid Term Check – Toulouse 2-3 December 2019, can be found in *Annex 1*.

#### **Action items:**

- \*All: follow-up the recommendations by the Project Officer regarding the MSCA ETN SAS Mid Term Check Toulouse 2-3 December 2019.
- \*Stephane Stroobant: update the changes regarding the Deliverables 4.2, 6.2 and 6.6 and report them to the EC.
- \*Stephane Stroobant: report all the changes regarding the SAS Supervisory Committees to the EC, with respective CVs and reasoning/motivation for these changes.
- \*Stephane Stroobant: submit all new received signed first drafts of PCDPs to the EU H2020 Portal via Deliverable D4.2 PCDP Report.
- \*All: on the SAS website (<u>www.etn-sas.eu</u>) check the contact details and photos regarding the TEAM and CONSORTIUM and confirm/send update to the PM.
- \*All: Use all SAS Project Visual Identity tools and EU Funding Acknowledgement regarding MSCA ETN SAS Project related activities
- \*All ESRs: Proactively engage in SAS social media activities through the PODIO platform.
- \*All: report the postponed due dates of Deliverables and Milestones to the PM with reasoning/motivation and mitigation plan for the delayed delivery dates of the Deliverables and Milestones
- \*Stephane Stroobant: report the postponed due dates of Deliverables and Milestones to the EC.
- \*Orian Dheu (ESR15): clarify second secondment to Airbus.
- \*All: check if ESR's nationalities cause issues for the foreseen secondments, if specific procedures need to be followed, align the secondment timings with the institutions hosting secondments and confirm to the PM.
- \* Stephane Stroobant: report the postponed due dates of the first secondments to the EC.



### 1. Agenda

The SAS Network-Wide Event I and Mid-Term Review Meeting was held on December 2-5 2019 at LAAS-CNRS in Toulouse, France. With respect to the location: the envisioned location for this NWE I was York as mentioned in Annex I of the SAS Grant Agreement Part B. However, taking into account the Brexit and the uncertainty regarding traveling to the UK and based on the suggestion of the REA Project Officer Nina Poumpalova (Feb 5, 2019), it was decided within the SAS Consortium to hold this SAS NWE I at LAAS-CNRS in Toulouse and to have the SAS NWE II in York.

On Monday December 2<sup>nd</sup>, the Network-Wide Event was attended by the ESRs, the supervisors and their colleagues, the representatives of the partner organizations and the MST¹ (list of the participants can be found below). The first day started with a detailed introduction regarding the SAS progress report followed by parallel sessions regarding the three scientific work packages where technical aspects and practicalities were discussed and further fine-tuned. In the afternoon we welcomed our Research Executive Agency (REA-Project Officer Nina Poumpalova. After a tour de table during which all SAS Consortium members and ESRs presented themselves, the Project Officer gave a presentation on the monitoring of the SAS project implementation, the SAS reporting and the purpose of the Mid-Term Check. This was followed by the SAS Coordinator's report where the Coordinator presented the SAS Consortium & Mid-Term Progress Report (scientific, training and management). Then, the fellows (ESRs) 1-7 gave a pitch presentation on their background, SAS project, training, outreach, and their future career as a MSCA fellow. The first day was capped by a tasty project dinner at "Les Caves de la Maréchale" in the center of Toulouse.

Tuesday December 3<sup>rd</sup> started with the ESRs 8-15 pitch presentations which was followed by a confidential discussion between the Project Officer and all ESRs. This was followed by a feedback session given by the Project Officer to all SAS Consortium members + ESRs regarding the further alignment of the SAS Project Implementation. In the afternoon, the *LAAS-CNRS Robotic department* was visited where a demo was given regarding the LAAS-CNRS research topics. A guest lecture on *Uncertainty Theories* given by Didier Dubois was the next agenda item which was followed by a presentation regarding the conclusions of this SAS Project Meeting and the SAS Project next steps. The last part of this second day was dedicated with a visit to the new museum "La Machine" in Toulouse where participants could enjoy admiring futuristic machines and robots.

On day 3 (Wednesday December 4<sup>th</sup>, 2019), the ESRs attended a scientific/technical training on *Fault Tolerance* given by JC Fabre which was followed by a soft-skill training on *The keys to manage your doctoral project*. The ESRs ended this third day with a laser game social event where they could strengthen their teamwork in an informal environment.

<sup>&</sup>lt;sup>1</sup> MST: Management Support Team



The last day (Day 4 on Thursday December 5<sup>th</sup>, 2019) of this NWE I was dedicated to a second scientific/technical training on *Dependable Autonomous Systems* given by Jérémie Guiochet. In the afternoon, the ESRs followed a second soft-skill training on *Anticipate your career path during your PhD* which was followed by a communication strategy evaluation and Intranet (Podio) introduction given by the Project Manager.

#### The detailed agenda of this SAS Network Wide Event I can be found in Annex 2.

#### <u>List of SAS NWE I participants</u> (signed versions in <u>Annex 3</u>):

First Name	Last Name	Affiliation
Ahmad	Adee	Bosch - ESR8
Haris	Aftab	University of York - ESR13
Magnus	Albert	SICK AG
Rob	Alexander	University of York
Jeroen	Boydens	KU Leuven
Orian	Dheu	KU Leuven - ESR15
Ehab	el Amam	RH Marine Netherlands BV
Jean-Charles	Fabre	LAAS-CNRS
Raul Sena	Ferreira	LAAS-CNRS - ESR1
Roman	Gansch	Robert Bosch GmbH
Vibhu	Gautam	University of York - ESR11
Jérémie	Guiochet	LAAS-CNRS
Ibrahim	Habli	University of York
Yuan	Liao	Fraunhofer ESK - ESR2
Tianlei	Miao	RH Marine - ESR12
Peter	Munk	Robert Bosch GmbH
Aleksandr	Ovechkin	KU Leuven - ESR5
Davy	Pissoort	KU Leuven

First Name	Last Name	Affiliation
Nina	Poumpalova	EC REA Project Officer
Patrick	Ringeard	Airbus Operations SAS
Alastair	Ruddle	Horiba MIRA Ltd
Luca	Sartori	LAAS-CNRS - ESR6
Stephane	Stroobant	KU Leuven
Zaid	Tahir	University of York - ESR7
Hassan	Tirmizi	KU Leuven - ESR9
Mario	Trapp	Fraunhofer ESK
Dejana	Ugrenovic	KU Leuven - ESR4
Jens	Vankeirsbilck	KU Leuven
Dries	Vanoost	KU Leuven
Marcel	Verhoeven	CNH Industrial
Hélène	Waeselynck	LAAS-CNRS
Fang	Yan	University of York - ESR10
Joao Vitor	Zacchi	Fraunhofer ESK - ESR3

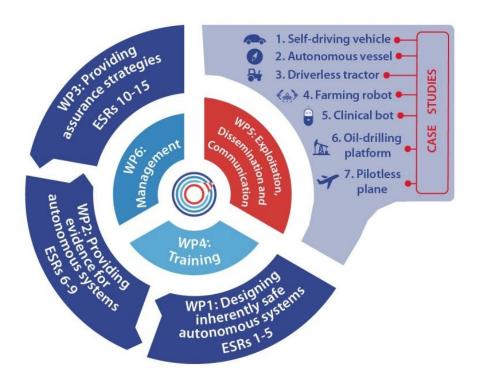


### 2. Welcome and SAS Progress report (Day 1: 9:30 – 10:30)

The SAS Project Coordinator welcomed all the participants to the SAS Network-Wide Event, followed by a quick Round Table 'Who is who?' of all the participants. After an overview of the 4-days agenda for this SAS Network-Wide Event, the Project Coordinator presented an overall view of the SAS Progress Report, such as the Project Consortium and the Project Governance, with attention to the following aspects and specific actions to be followed. The PPT presentation of this Agenda Item can be found in *Annex 4*.

### 2.1. Project Flow with key goals and features:

- S/T programme
- Training programme, including development of soft skills
- Network-wide events
- Active dissemination and outreach



### 2.2. Work packages

An overview of the 6 Project Work Packages, both scientific and non-scientific, was given. The WP Leader for each WP was confirmed once more at this meeting. The WP Leader is responsible for presenting the overview of the results at the network-wide meetings. An overview of each WP and its WP Leader is given below:

WP	WP Title	WP Leader
1	Designing inherently safe autonomous systems	Mario Trapp (Fraunhofer-IKS)
2	Providing evidence for autonomous systems	Peter Munk (Bosch)
3	Providing assurance strategies	Alastair Ruddle (HORIBA-Mira)
4	Training	Jérémie Guiochet (LAAS-CNRS)
5	Exploitation, Dissemination and Communication	Alastair Ruddle (HORIBA-Mira)
6	Management	Stephane Stroobant (KU Leuven)

### 2.3. Project management (team): key roles and persons in charge

An overview of the Project Management Team and the persons in charge is given below:

Management Support Team					
Coordinator	Davy Pissoort (KU Leuven)				
Vice-Coordinator	Jeroen Boydens (KU Leuven)				
Project Manager	Stephane Stroobant (KU Leuven)				
Scientific/Technical Coordinator	Dries Vanoost (KU Leuven)				
Training Coordinator	Jérémie Guiochet (LAAS-CNRS)				
Exploitation & Dissemination Coordinator	Alastair Ruddle (HORIBA-Mira)				
KU Leuven R&D Technical Transfer Office	Lukas Lanneau (KU Leuven)				
Independent Ombudsperson	Tine Dhaese (KU Leuven)				
Independent External Advisor	Paul McGuiness (Science Writer)				

#### 2.4. Supervisory Board

See also SAS Project Deliverable 6.6

An overview of the SAS Supervisory Board which consists of 2 Groups is given on the next page.

#### Group 1 (1 vote per beneficiary):

- D. Pissoort (PC, KU Leuven)
- J. Boydens (VC, KU Leuven)
- D. Vanoost (S/T C, KU Leuven)
- One representative from each Project Beneficiary:
  - P. Valcke (KU Leuven)
  - I. Habli (University of York)
  - J. Guiochet (LAAS-CNRS)
  - M. Trapp (Fraunhofer-ESK)
  - P. Munk (Bosch)
  - A. Ruddle (HORIBA-Mira)
  - E. el Amam (RH Marine)

#### Group 2 (no formal voting rights):

- S. Stroobant (PM, KU Leuven)
- One representative from each Partner Organisation:
  - P. Liggesmeyer (TU Kaiserlautern)
  - M. Verhoeven (CNHi)
  - M. Albert (Sick)
  - H. Joshi (Jaguar Land Rover)
  - R. Bridgeman (Lloyd's Register)
  - E. Landre (Equinor)
  - C. Seguineau (Naïo)
  - P. Ringeard (Airbus)
  - J.H. de Jong (Marin)
  - E. O'Caroll (PMT)
- Luca Sartori as the ESR representative

#### **CHANGES** to Deliverable 6.6:

- Paul Snauwaert (CNHi) is replaced by Marcel Verhoeven (CNHi) as the representative for CNHi in the SAS Supervisory Board.
- Amandine Taillard (Airbus) is replaced by Patrick Ringeard (Airbus) as the representative for Airbus in the SAS Supervisory Board.
- Gaetan Severac is replaced by Cédric Seguineau (Naïo) as the representative for Naïo in the SAS Supervisory Board.
- Luca Sartori is the ESR representative from the ESRs Researchers Council.

#### **Action item:**

\* Stephane Stroobant: report the changes regarding Deliverable 6.6 to the EC.

#### 2.5. SAS ESRs and SAS Supervisory Committees

Amongst the 14 (out of 15) recruited ESRs, there are 8 nationalities; 2 out of 14 are female. The ESR14 position at Horiba-Mira had to be reopened. The starting date for ESR14 is foreseen on January 27<sup>th</sup>, 2020.

Overall, most of the recruited ESRs are on track regarding the specific research goals they have established in coordination with their supervisors. The fact that ESR14 still has to start has no major consequences on the work of the other 14 ESRs.

The composition of the 15 Supervisory Committees was reviewed and all committees are completed and confirmed at this moment.

An overview of all 15 Supervisory Committees is given on the next page.



[MSCA ETN SAS] EARLY STAGE RESEARCHERS - SUPERVISORY COMMITTEES								
				Current Situation				
ESR	First Name	Last Name	Affiliation	Academic Supervisor 1	Academic Supervisor 2	Industrial Supervisor		
1	Raul Sena	Ferreira	LAAS-CNRS	J. Guiochet	M. Trapp	H. Joshi		
2	Yuan	Liao	Fraunhofer ESK	M. Trapp	J.C. Fabre	R. Gansch		
3	Joao Vitor	Zacchi	Fraunhofer ESK	M. Trapp	I. Habli	R. Gansch		
4	Dejana	Ugrenovic	KU Leuven	J. Boydens	T. Holvoet	P. Munk		
5	Aleksandr	Ovechkin	KU Leuven	D. Pissoort	G. Vandenbosch	E. el Amam		
6	Luca Vittorio	Sartori	LAAS-CNRS	H. Waeselynck	R. Alexander	M. Albert		
7	Zaid	Tahir	University of York	R. Alexander	H. Waeselynck	D. Ward		
8	Ahmad	Adee	Bosch	P. Liggesmeyer	J. Boydens	P. Munk		
9	Hassan	Tirmizi	KU Leuven	D. Pissoort	G. Vandenbosch	A. Rudlle		
10	Fang	Yan	University of York	S. Foster	J. Guiochet	E. Landre		
11	Vibhu	Gautam	University of York	R. Alexander	R. Hawkins	R. Gansch		
12	Tianlei	Miao	RH Marine	M. Nicholson	P. Slaets	E. el Amam		
13	Haris	Aftab	University of York	I. Habli	J. Guiochet	E. O'Caroll		
14			Horiba-MIRA	U of Coventry?	D. Pissoort	A. Ruddle		
15	Orian	Dheu	KU Leuven	P. Valcke	D. Pissoort	P. Ringeard		

Regarding the ETN SAS Grant Agreement, 2 foreseen supervisors left the ETN SAS Consortium for different reasons. Prof. T. Kelly left the University of York and the substitutes for his tasks within the SAS Consortium have been confirmed by the SAS Consortium. Dr. S. Burton switched position and division at Bosch. He was replaced by Dr. R. Gansch who takes over all foreseen tasks of Dr. S. Burton.

#### **Action item:**

\* Stephane Stroobant: report all the changes regarding the SAS Supervisory Committees to the EC, with respective CVs and reasoning/motivation for these changes.



#### 2.6. Researcher Declarations submission and PCDP status

All 14 Researcher Declarations for all ESRs already started have been submitted. An overview of the submitted Researchers Declarations is given below:

Researcher Declaration

No	Fellow I 🔺	First Name	Last Name	Status	Recruitment Organisation	Start Date	End Date	Working Time Commitment	Duration
1	1	Ahmad	Adee	SUBMITTED	Robert Bosch Gmbh	15-02-2019	14-02-2022	Full Time	36
2	2	Orian	Dheu	SUBMITTED	Katholieke Universiteit Leuven	01-02-2019	31-01-2022	Full Time	36
3	3	Luca	Vittorio Sartori	SUBMITTED	Centre National De La Recherche Scientifique Cnrs	01-03-2019	28-02-2022	Full Time	36
4	4	Raul	Sena Ferreira	SUBMITTED	Centre National De La Recherche Scientifique Cnrs	01-03-2019	28-02-2022	Full Time	36
5	5	Hassan	Tirmizi	SUBMITTED	Katholieke Universiteit Leuven	19-03-2019	18-03-2022	Full Time	36
6	6	Vibhu	Gautam	SUBMITTED	University Of York	01-05-2019	30-04-2022	Full Time	36
7	7	Zaid	Tahir	SUBMITTED	University Of York	01-05-2019	30-04-2022	Full Time	36
8	8	Dejana	Ugrenovic	SUBMITTED	Katholieke Universiteit Leuven	10-05-2019	09-05-2022	Full Time	36
9	9	Joao Vitor	Zacchi	SUBMITTED	Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.	15-04-2019	14-04-2022	Full Time	36
10	10	Yuan	Liao	SUBMITTED	Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.	01-07-2019	30-06-2022	Full Time	36
11	11	Fang	Yan	SUBMITTED	University Of York	18-06-2019	17-06-2022	Full Time	36
12	12	Aleksandr	Ovechkin	SUBMITTED	Katholieke Universiteit Leuven	19-06-2019	18-06-2022	Full Time	36
13	13	Haris	Aftab	SUBMITTED	University Of York	01-07-2019	30-06-2022	Full Time	36
14	14	Tianlei	Miao	SUBMITTED	Rh Marine Netherlands Bv	01-10-2019	30-09-2022	Full Time	36

So far 11 signed PCDPs from the 14 ESRs already started have been submitted to the EU H2020 Participants Portal. The signed PCDPs for ESR7, ESR11 and ESR12 have been sent to the PM. Those 3 PCDPs will be added to the already submitted **Deliverable D4.2 PCDP Report** after approval by the Project Officer.

#### Action item:

\* Stephane Stroobant: submit all new received signed first drafts of PCDPs to the EU H2020 Portal via Deliverable D4.2 PCDP Report.

#### 2.7. Training and first secondments

An overview of the trainings already followed by the ESRs was given. Furthermore, the ESRs are following research-specific trainings and general (obligatory) trainings organized by their doctoral schools, as well as (international) scientific and soft-skill workshops outside the SAS Project.

At this NWE I the following trainings were scheduled:

- S/T Training: Fault tolerance (JC Fabre, LAAS-CNRS)
- S/T Training: Dependable autonomous robots (J. Guiochet, LAAS-CNRS)
- Soft-skill Training I: The keys to manage your doctoral project
- Soft-skill Training II: Anticipate your career path during your PhD

The first secondments for the ESRs were reviewed and discussed. The Project Coordinator explained the schedule, scope, rules and settings of the secondments as they are key items of ETN's. Within the scope of those secondments, the following aspects were highlighted:

 Each secondment period should last at least one month with an advised maximum of 3 months and secondments should be held outside the host institute.



- Each ESR has one secondment in a different country and in a different sector (e.g. university and industry) while focusing on a different perspective and different facilities during those secondments.
- The Actual Secondment Period needs to be submitted at the H2020 Participant Portal (under the Tab 'Researchers') as soon as the Secondment Period has ended, so not sooner!
- Modifications (schedule changes, topic, location) can only be performed after PREVIOUS APPROVAL and on request and should be communicated with the PM who reports this to the PO.

The current status of the first secondments for the ESRs is given in the following table:

	[MSCA ETN SAS] EARLY STAGE RESEARCHERS								
ESR First Name Last Name		Affiliation	Affiliation 1st Secondment Location		1 <sup>st</sup> Secondment Local Mentor				
1	Raul Sena	Ferreira	LAAS-CNRS	Fraunhofer	May - June 2020 (2m)	M. Trapp			
2	Yuan	Liao	Fraunhofer ESK	LAAS-CNRS	Jan - Mar 2020 (3m)	J.C. Fabre			
3	Joao Vitor	Zacchi	Fraunhofer ESK	University of York	Jan - Mar 2020 (3m)	I. Habli			
4	Dejana	Ugrenovic	KU Leuven	LAAS-CNRS	Nov - Dec 2019 (5w)	J. Guiochet			
5	Aleksandr	Ovechkin	KU Leuven	University of York	Feb - April 2020 (3m)	J. Dawson			
6	Luca Vittorio	Sartori	LAAS-CNRS	Naio	Feb - April 2020 (3m)	G. Severac			
7	Zaid	Tahir	University of York	LAAS-CNRS	Feb - April 2020 (3m)	H. Waeselynck			
8	Ahmad	Adee	Bosch	TUK	Nov 2019 - Jan 2020 (3m)	P. Liggesmeyer			
9	Hassan	Tirmizi	KU Leuven	University of York	Feb - April 2020 (3m)	J. Dawson			
10	Fang	Yan	University of York	Equinor	Sep - Nov 2020 (3m)	E. Landre			
11	Vibhu	Gautam	University of York	Bosch	April - June 2020 (3m)	R. Gansch			
12	Tianlei	Miao	RH Marine	KU Leuven	April - June 2020 (3m)	D. Pissoort			
13	Haris	Aftab	University of York	LAAS-CNRS	Oct - Dec 2020 (3m)	J. Guiochet			
14			Horiba-MIRA	KU Leuven	April - June 2020 (3m)	J. Boydens			
15	Orian	Dheu	KU Leuven	University of York	April - June 2020 (3m)	R. Alexander			

Due do the late start of some ESRs, recruitment delays and program logic, some schedule changes have been discussed for some of the planned secondments. Those changes will be followed up in the coming months by the respective Supervisors, ESRs and secondment hosts representatives and furthermore communicated with the PM who reports this to the PO.

#### Action item:

\* **ALL:** check if ESR's nationalities cause issues for the foreseen secondments, if specific procedures need to be followed, align the secondment timings with the institutions hosting secondments and confirm to the PM.



#### 2.8. Ethics

The European Commission required the SAS Consortium to write a dedicated deliverable on ethical issues and potential dual use related to autonomous systems. This **Deliverable 7.1 GEN – Requirement No.1** has been written through collaboration between KU Leuven and University of York and has been uploaded to the EU H2020 Participant Portal. A voluntary ethical self-assessment by every ESR has been specified and an <a href="Ethical Board">Ethical Board</a> has been established which consists of the following members:

• KU Leuven: Prof. A. Vedder and Dr. D. Vanoost

• University of York: Dr. I. Habli

#### 2.9. Communication and Dissemination Outreach

#### **SAS Project Visual Identity**

To achieve the best dissemination and communication results, the following visual identification and tools need to be used: SAS Project Logo, SAS Project Templates (for PPT, scientific conference presentations, newsletters, project reporting and deliverables. Furthermore, the EU Funding Acknowledgement is mandatory regarding all MSCA ETN SAS Project related activities. Examples of these tools are given below.







EU H2020 MSCA-ETN SAS KICK-OFF MEETING & NWE JULY 2<sup>ND</sup> & 3<sup>RD</sup> 2019

Crowne Plaza, Bruges - BELGIUM



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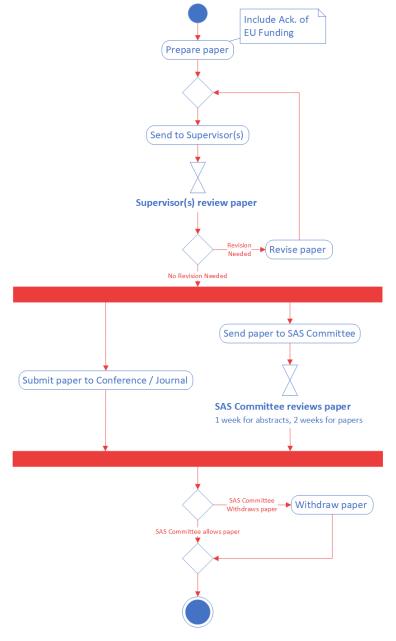
#### **Action item:**

\* All: Use all SAS Project Visual Identity tools and EU Funding Acknowledgement regarding MSCA ETN SAS Project related activities.

# <u>Post, Paper Pre-submission Procedure, Post Paper Publishing Procedure (OPEN ACCESS) and SAS Papers Archiving System</u>

Special attention was given again to the flowchart of the Paper Pre-submission Procedure. The flowchart of this procedure is given on the following page:





A SAS Papers Archiving System ((<a href="http://papers.etn-sas.eu/user/login/">http://papers.etn-sas.eu/user/login/</a>) has been set up that is automatically linked with the SAS Project Website. Through this Archiving System, the ESRs are able to upload their peer reviewed papers (both conference and journal papers if applicable) which also allows to update the specific paper through the H2020 Participant Portal.

#### **SAS** Website

The new SAS-Website is online since September 1<sup>st</sup>, 2019 (a temporary website was available between June 27<sup>th</sup>, 2018 and September 1<sup>st</sup>, 2019).





#### SAS Blogs, Social Media and Internal Communication (PODIO)

The ESRs are actively involved in communication and dissemination activities. So far, the ESRs have written and published 8 blog posts presenting their work for the general public. Furthermore, the ESRs have published several posts on Social Media (on SAS Facebook, Twitter and LinkedIn channels).

A password-protected Intranet, **PODIO**, has been set up as an internal communication tool between the SAS Management Support Team and all ESRs. This developed Intranet is also a storage space for ESRs' PCDPs, RTDEs, Progress Reports, Deliverables, minutes of WP meetings, NWE reports,...



A special explanation and training/workshop regarding the **SAS Papers Archiving System** and **PODIO** was given to the ESRs on Day 4 of this Network-Wide Event.



#### **SAS Video**

A SAS Promo Video will be developed and published during the second year of the SAS Project. This video will explain the project goals and present the team and the collaborating partners. More specifically, this video will be made in collaboration with Storyrunner. They are very acquainted with developing Marie Curie/Best Practice Award Winning Videos in collaboration with KU Leuven.

#### 2.10. Project Deliverables and Milestones (submitted and upcoming)

An overview of the first Project Deliverables and Milestones from the H2020 Participant Portal was given to indicate this workflow and to point out that each beneficiary needs to take responsibility for the Deliverable and Milestone they are the lead for.

Furthermore, project Deliverables and Milestones were discussed during the parallel WP sessions with respect to the feasibility of the scientific and technical deliverables & milestones due to specific ESR recruitment delays and later than foreseen starting dates of ESRs. More information regarding the outcome of these WP parallel sessions can be found under the next section.

### 3. WP parallel sessions (Day 1: 10:30 - 12:00)

A session for WP parallel discussions for WP1-3 was organized where each appointed WP leader interacted with the ESRs, the Supervisors and the representatives of the Partner Organizations regarding the specific WP and its scientific aspects. The focus in each WP session consisted on the specific tasks, scientific deliverables, milestones and data management plan of each WP. The PPT presentation regarding these WP parallel sessions can be found in *Annex 5*.

This session was followed by an interactive Q&A session between WPs to clarify some technical aspects and practicalities.

The outcome and summary of those WP sessions can be found on the following pages.

### 3.1. Work Package 1 – Designing inherently safe autonomous systems

#### **DELIVERABLES WORK PACKAGE 1**

No.	Title	Lead	Туре	Diss. Level	Due Date
D1.1	Report on first version of the language for the expression of safety constraints and synthesis of safety	CNRS (Raul)	Report	public	M 24 (Oct. 20)
D1.2	Publication on initial implementation of run-time safety contracts and according monitoring architectures	Fraunhofer (João)	Report	public	M 27 (Jan. 21)
D1.3	Publication on the effectiveness of EM-diverse redundancy to harden wireless interconntectivity	KU Leuven (Aleksandr)	Report	public	M 31 (May 21)
D1.4	Report on validation of MAPE-K-based architecture and underlying adaptation concepts in an industrial context	Fraunhofer (Yuan)	Report	public	M 42 (Apr. 22)
D1.5	Report on the practical assessment and evaluation of safety-critical software design and testing strategies	KU Leuven (Dejana)	Report	public	M 42 (Apr. 22)

#### **MILESTONES WORK PACKAGE 1**

No.	Title	Lead	Means of verific.	Due Date	Delivery Date
MS1.1	Different safety assurance frameworks compared on simplified, virtual autonomous system	LAAS (Raul)	Report available	M 13 (Nov. 19)	Dec 2, 2019
MS1.2	Decision on which wireless communication protocols to be considered for study on EMI-aware design techniques and measures +5 months: rationale > after the secondment of the ESR at University of York	KU Leuven (Aleksandr)	Overview list available	M 18 (April 20) M 13 (Nov. 19)	
MS1.3	Initial implementation of run-time safety contracts and according monitoring architectures	Fraunhofer (João)	Report available	M 27 (Jan. 21)	
MS1.4	Software design and testing strategies assessed on testcase of autonomous robot	KU Leuven (Dejana)	Report available	M 36 (Oct. 21)	
MS1.5	Peer-reviewed publication on full implementation of MAPE-K based adaptive platform for autonomous systems	Fraunhofer (Yuan)	Paper accepted for publication in peer-reviewed journal	M 40 (Feb. 22)	

## 3.2. Work Package 2 – Providing evidence for autonomous systems

#### **DELIVERABLES WORK PACKAGE 2**

No.	Title	Lead	Туре	Diss. Level	Due Date
D2.1	Report on first experiment of the virtual worlds generation on a robotic simulator +6 months: rationale > late start of ESR and IP issues with the case study > after the secondment	LAAS (Luca)	Report	public	M 19 (May 20) M 13 (Nov. 19)
D2.2	Report on validation of virtual EMI-aware V&V framework on academic testcases	KU Leuven (Hassan)	Report	public	M 31 (May 21)
D2.3	Report discussing the completeness of model-based system analysis when dealing with functional insufficiencies	Bosch (Ahmad)	Report	public	M 31 (May 21)
D2.4	Publication on the situation coverage testing approach applied to a representative automotive case study	University of York (Zaid)	Report	public	M 40 (Feb. 22)

#### **MILESTONES WORK PACKAGE 2**

No.	Title	Lead	Means of verific.	Due Date	Delivery Date
MS2.1	Decision on which model-based system analysis suits are fitted best to cope with functional insufficiencies	Bosch (Ahmad)	Overview on (dis)advantages of the model-based system analysis suits available	M 13 (Nov. 19)	Nov 27, 2019
MS2.2	First experiment of virtual world generation completed for robotic simulator +6 months: rationale > late start of ESR and IP issues with the case study	LAAS (Luca)	Report available	M 19 (May 20) M 13 (Nov. 19)	
MS2.3	Statistical V&V framework for EMI analysis completed	KU Leuven (Hassan)	Simulation framework available	M 22 (Aug. 20)	
MS2.4	Complete prototype tooling for situation coverage testing available and working for a small example	University of York (Zaid)	Description of tools available	M 26 (Dec. 20)	

## 3.3. Work Package 3 – Providing assurance strategies

#### **DELIVERABLES WORK PACKAGE 3**

No.	Title	Lead	Туре	Diss. Level	Due Date
D3.1	Literature review of safety challenges associated with the use of intelligent conversational bots +8 months: rationale > program logic	University of York (Haris)	Report	public	M 21 (July 20) M 13 (Nov. 19)
D3.2	Report on executable safety assurance case models for autonomous drilling use-case +3 months: rationale > depending on secondment timing	University of York (Fang)	Report	public	M 27 (Jan 21) M 24 (Okt. 20)
D3.3	Documented assurance case patterns for ML in autonomous vehicles +4 months: rationale > depends on secondment timing at Horiba-MIRA for ESR11	University of York (Vibhu)	Report	public	M 34 (Aug. 21) M 30 (Apr. 21)

No.	Title	Lead	Туре	Diss. Level	Due Date
D3.4	Publication on bottlenecks and inconsistencies in the existing liability regimes when applied to autonomous systems and proposed new criteria for liability allocation  +2 months: rationale > program logic	KU Leuven (Orian)	Report	public	M 36 (Okt. 21) M 34 (Aug. 21)
D3.5	Report on simulation environment comprising algorithms for optimization, situational awareness and collision avoidance +12 months: rationale > recruitment delays (RH Marine)	RH Marine (Tianlei)	Report	public	M 48 (Okt. 22) M 36 (Okt. 21)
D3.6	Report on pilot demonstration of the common framework for developing wider dependability assurance cases +8 months: rationale > recruitment delays (Horiba-MIRA)	Horiba — MIRA ()	Report	public	M48 (Okt. 22) M 40 (Feb. 22)



#### **MILESTONES WORK PACKAGE 3**

No.	Title	Lead	Means of verific.	Due Date	Delivery Data
MS3.1	Documented set of vehicle use cases for assurance case structures incorporating machine learning +9 months: rationale > depends on secondment timing at Bosch for ESR11	University of York (Vibhu)	Report available	M 21 (July 20) M 12 (Okt. 19)	
MS3.2	Review of relevant techniques from functional safety, cyber security, dependability, etc. +9 months: rationale > recruitment delays (Horiba-Mira)	Horiba — MIRA ()	Overview list available	M 21 (July 20) M 12 (Okt. 19)	
MS3.3	Bottlenecks and inconsistencies in the existing liability regimes when applied to autonomous systems identified +10 months: rationale > program logic	KU Leuven (Orian)	Report available	M 28 (Feb. 21) M 18 (Apr. 20)	

No.	Title	Lead	Means of verific.	Due Date	Delivery Date
MS3.4	Safety concept and architectural strategies for clinical conversational bots +12 months: rationale > program logic	University of York (Haris)	Report available	M 37 (Nov. 21) M 25 (Nov. 20)	
MS3.5	Situational and collision avoidance algorithms finalized +12 months: rationale > recruitment delays (RH Marine)	RH Marine (Tianlei)	Algorithms implemented and tested	M 40 (Feb. 22) M 28 (Feb. 21)	
MS3.6	Run-time Assurance Engine using executable structured assurance case meta-models completed +2 months: rationale > recruitment delays	University of York (Fang)	Assurance engine available	M 33 (July 21) M 31 (May 21)	

#### Action items WP1-3:

- \* All: report the postponed due dates of Deliverables and Milestones to the PM with reasoning/motivation and mitigation plan for the delayed delivery dates of the Deliverables and Milestones.
- \* Stephane Stroobant: report the postponed due dates of Deliverables and Milestones to the



### 4. Supervisory Board Meeting (Day 1: 12:00 – 13:00)

During this part of the NWE, all SAS Supervisory Board members present, the ESR representative Luca Sartori included, joint together for the 1<sup>st</sup> Annual SB meeting, as also foreseen under Milestone 7 of the SAS Project. The Agenda for this Supervisory Board Meeting can be found in *Annex 6*.

The outcome and minutes of this Supervisory Board Meeting are described below.

#### Agenda items + outcome:

- 1. ESR14 Position at Horiba-Mira
- The position was re-opened in September 2019.
- 44 candidates applied of which 22 eligible.
- Recruited candidate (Spain) who applied for a PhD at University of Coventry.
- Start date of the recruited ESR is foreseen on January 27<sup>th</sup>, 2020.
- Horiba-Mira will only receive EU Funding for 33 months instead of initially 36 months.

#### 2. ESR7 Zaid Tahir

- Zaid was not awarded the required ATAS certificate to pursue a PhD in the UK after 2 applications.
- Furthermore, his ATAS review appeal was also rejected.
- However, Zaid was awarded his work permit and VISA allowing him to be a research associate at the University of York.
- Zaid will receive training as foreseen in the SAS Project Proposal.

#### 3. <u>Secondments: any known issues?</u>

- Airbus -> Advice for Orian (ESR15) to get urgently in touch with Airbus to clarify on a possible secondment there. Consider LAAS-CNRS as a possible alternative.
- Secondments in the UK: not applying as a visiting student but as a visiting researcher.

#### 4. Paper author list + Paper Presubmission Procedure

- The flowchart of the paper presubmission procedure was reviewed and approved.
- Rules regarding the author list: ensure that the main supervisors of the ESRs are mentioned on the respective paper. Supervisory Committee should be informed.

#### 5. ESRs Payments: no known issues

#### 6. <u>Ethics Deliverable</u>:

- Ethics assessment for each ESR is recommended.
- No specific ethical aspects on how the respective research gets into dual use.



#### 7. NWE 2 and 3:

- SAS NWE 2 in York (UK) @ Department of Computer is scheduled from June 29 to July 3, 2020.
- SAS NWE 3 in Munich (GE) @ Fraunhofer is scheduled from November 17 to 20, 2020.

#### 8. Video:

- SAS Video will be developed in collaboration with Storyrunner.
- Proposal as video material to film an autonomous tractor from CNHi, Zedelgem (BE).

#### 9. Any other Business:

- Luca, the ESR representative, pointed out that 1 ESR did not well-process received feedback and therefore could not positively accept the received critics. SAS Consortium advised to organize a soft-skill training regarding handling with feedback and criticism between supervisor and ESR.
- Peter (Bosch) is a big fan of stickers. Promo material regarding the SAS Project could add extra project visual identity and will be investigated furthermore.

### 5. ESR Researchers Council (Day 1: 12:00 – 13:00)

The ESRs present at the NWE were able to discuss project-related topics between the ESRs in order to facilitate interaction between them during this first ESR Researchers Council. They were able to share experiences in their research, as well as discuss regarding training, communication, and project management.

A president (Aleksandr Ovechkin) and secretary (Ahmad Adee) were appointed to moderate this ESR Researchers Council and to prepare a short report as a basis for communicating to the Supervisory Board.

The report of this first ESR Researcher Council can be found in Annex 7.



# 6. REA Project Officer presentation: Mid-Term Check (Day 1: 14:00 – 15:00)

After the lunch break on Day 1, the SAS Consortium + ESRs welcomed the REA Project Officer Nina Poumpalova. After a quick tour de table where each SAS Consortium member and ESR presented themselves to the REA Project Officer, the Project Officer gave a presentation on the monitoring of the SAS project implementation, the SAS reporting and the purpose of the Mid-Term Check. This PPT presentation can be found in <u>Annex 8</u> (PO\_Nina\_Mid-term-Check\_presentation SAS).

### 7. Coordinator's report (Day 1: 15:00 – 15:30)

In this session, the Coordinator presented the SAS Consortium & Mid-Term Progress Report with attention to the following aspects: SAS Consortium, Scientific Objective, General Scientific/Technical Progress, Training, Recruitment, Project Management, Communication and Dissemination, and Deliverables & Milestones. The SAS Progress Report, submitted under **Deliverable 6.3 Progress Report**, was the basis for this Coordinator's report and was furthermore the starting point for the REA Project Officer regarding her feedback with respect to the SAS Mid-Term Review Meeting. The PPT presentation of this Coordinator's report can be found in **Annex 9** ([MSCA ETN SAS] Coordinators Report).

# 8. Individual ESRs presentations (Day 1: 15:45 – 17:00 + Day 2: 9:00 – 10:15)

During this part of the NWE, the ESRs presented themselves, their background, their specific ESR position and role within the project, and their scientific progress as fellow within the SAS Project. All presentations were of high quality while bright ideas regarding their outreach contribution and future career as MSCA fellow were highly appreciated. The PPT Template regarding the individual ESRs presentations can be found in <u>Annex 10</u> ([MSCA ETN SAS]\_NWE I December 2-3 Toulouse Template PitchPresentationESR).



# 9. Confidential discussions with Project Officer and ESRs (Day 2: 10:15 – 11:30)

In this confidential meeting, all SAS ESRs were able to discuss with the REA Project Officer regarding their experiences within the SAS Project in terms of administration, supervision and integration, training, progress, and the impact on their future careers.

### 10. Feedback REA Project Officer (Day 2: 11:45 – 12:45)

After the confidential discussions between the Project Officer and the SAS ESRs, all SAS Consortium members and ESRs joint together for the final session regarding the SAS MidTerm Progress Report. In this session, the REA Project Officer Nina Poumpalova gave her feedback on the output of the SAS Project so far, on possible training areas for future exploitation, and on the impact on fellows' future careers development. The recommendations from the Project Officer following the Mid-Term Progress Report have been sent via the **H2020 Participants Portal Communication Tab**. Further actions regarding these recommendations will be followed up by the SAS Management Support Team and carried out towards the SAS Consortium in order to further align the SAS Project implementation. Those recommendations can be found in *Annex 1*.

# 11. Lab visit, Guest Lecture, Conclusions, and Museum visit (Day 2: 13:45 – 18:00)

On day 2, the afternoon started with a visit to the *LAAS-CNRS Robotic department* where a demo was given regarding the LAAS-CNRS research tendencies. A guest lecture on *Uncertainty Theories* given by Didier Dubois was the next agenda item which was followed by a presentation regarding the conclusions of this SAS Project Meeting and the SAS Project next steps. This PPT presentation can be found in *Annex 11* ([MSCA ETN SAS]\_NWE I\_Conclusions of the meeting + next steps).

The last part of this second day was dedicated with a visit to the new museum "La Machine" in Toulouse where participants could enjoy admiring futuristic machines and robots.



#### NWE I: Day 3-4 ESRs S/T and soft-skill Trainings 12.

The final two days of this Network Wide Event consist of technical and soft-skill trainings for the ESRs. On day 3 (Wednesday December 4th, 2019), the ESRs attended a scientific/technical training on Fault Tolerance given by JC Fabre which was followed by a soft-skill training on The keys to manage your doctoral project. The ESRs ended this third day with a laser game social event where they could strengthen their teamwork in an informal environment.

The last day (Day 4 on Thursday December 5th, 2019) of this NWE I was dedicated to a second scientific/technical training on Dependable Autonomous Systems given by Jérémie Guiochet. In the afternoon, the ESRs followed a second soft-skill training on Anticipate your career path during your PhD which was followed by a communication strategy evaluation and Intranet (PODIO) introduction given by the Project Manager.

#### Photos MSCA ETN SAS Network Wide Event I Toulouse 13.



Group picture SAS Consortium + ESRs + Project Officer



### Photos SAS NWE 1 Toulouse Day 1-2 (December 2-3, 2019, LAAS-CNRS)









Photos SAS NWE 1 Toulouse Day 3-4 (December 4-5, 2019, LAAS-CNRS)







### 14. Survey SAS NWE I, Dec 2-5 2019, LAAS-CNRS, Toulouse

After the SAS NWE I, a short online survey has been sent to all the participants to obtain valuable feedback in order to further improve the quality of future network wide events. A part of this survey can be found in <u>Annex 12</u>.

<u>Survey results</u> (20 respondents (out of 32); 1 to 5 scale with 1 = Poor and 5 = Excellent)

Subject	Item	Average
	Progress Report Presentation	4.53
Content	WP Parallel meeting	4.47
	ESR Pitch Presentations	4.63
Vanua	Lunches and Coffee Breaks	4.51
Venue	Project Dinner	5
	LAAS-CNRS Robotic department visit and demo	4.6
Conial Dungana	Museum visit "La Machine"	4.65
Social Program	Guest Lecture "Uncertainty Theories: a Unified View"	4.05
	ESR Laser Game	5
	"Fault Tolerance" by prof. Fabre	5
	"The keys to manage your doctoral project"	4.88
ESR Trainings	"Dependable Autonomous Robots" by prof. Guiochet	5
(8 respondents (out of 12))	"Anticipate your career path during your PhD"	4.88
	"Communication strategy evaluation and Intranet introduction" by PM, CM and S/T Coordinator	4.88
General	Overall rating	4.72

#### **Survey comments**:

- Although they were really stressed, the ESRs really presented well.
- Excellent organization!
- Although PO gave comments on progress report, a lot of effort is already put in it to give a good overview of what we already accomplished in this project.
- The work parallel session was not organised well, was not constructive.
- Need scope/architecture discussion of the whole WP.
- Nice to see the department as well, Social event highly appreciated.
- The museum was a real surprise!!
- Coffee breaks, lunches and project dinner very good!
- The courses and activities are all fantastic and practical.



### 15. Table overview with Annexes + Annexes

Annex 1	Recommendations Mid Term Check by the PO		
Annex 2 Detailed Agenda SAS NWE I Dec 2-5, 2019			
Annex 3	List of SAS NWE I participants – signed versions		
Annex 4	PPT Presentation "Welcome and SAS Progress Report"		
Annex 5	PPT Presentation "WP parallel sessions"		
Annex 6 Agenda Supervisory Board Meeting NWE I Dec 2, 2019			
Annex 7 Report ESR Researcher Council NWE I Dec 2, 2019			
Annex 8 PPT Presentation "SAS Mid Term Check_ Project Officer"			
Annex 9 PPT Presentation "Coordinator's report"			
Annex 10 PPT Template "ESR Pitch Presentation"			
Annex 11	PPT Presentation "Conclusions of the meeting + next steps"		
Annex 12	SAS NWE I Survey form		

 $\begin{array}{c} \text{Annex 1} \\ \text{Recommendations Mid Term Check by the PO} \end{array}$ 

Grant Agreement: 812788 - SAS



#### To the Primary Coordinator Contact in charge

Subject: H2020-MSCA-ITN-2018

Grant Agreement 812788- SAS

Recommendations – Mid Term check – Toulouse 2-3 December 2019

Dear Sir,

I am writing in connection with the above-mentioned grant.

Please find enclosed the recommendations following the mid term check in Toulouse last 2-3 December 2019 which will need to be reported in the Technical periodic report together with an explanation on their implementation.

#### **Recommendations and Issues for follow up:**

The entire consortium has been working very hard towards the achievement of the proposed objectives. The project management is very good, dedicated and committed. The PO congratulated the consortium and encouraged them to keep up the good work. The PO also congratulated the fellows for their hard work and enthusiasm.

The PO reminded the consortium that any deviation from the DoA needed to be discussed beforehand with the PO. The PO requested that the changes in the supervision team were addressed in a letter (CVs of new supervisors) and submitted through the Formal Notification tab.

The PO requested that a mitigation plan for the delayed recruitment of ESR 14 (MIRA LtD) is prepared and submitted also through the Formal Notification tab.

The PO recommended that a Formal Notification is sent by the Coordinator to briefly explain the chain delay in some deliverables due to late recruitment.

The PO requested that the comments in the milestones tab on the portal are also completed.

Grant Agreement: 812788 - SAS

The PO recommended that the fellows play an active role in the updating of the website by highlighting the innovative aspects of their projects.

The PO reminded the consortium that the fellows are to dedicate 100% of their time to their project.

The PO reminded the consortium that expenses related to visa costs, registration fees, student services, language course needed to be reimbursed from the Institutional Costs BÍ category.

The PO reminded the consortium that assistance to the fellows with regard to their reallocation when on secondment was welcome and that the fees for the housing and travel are to be taken from the Institutional Costs B1 category. The PO proposed to share best practices such as apartment sharing / exchange, etc.

The PO recommended that all fellows follow up on their soft skills: public speaking, PP presentations, talking to the media, proposal writing, management, etc ...

The PO reminded the consortium that the publications in peer-review journals need to be in Open Access.

The PO requested that commitment letters from TUM and University of Toulouse be sent.

The PO recommended that the coordinator requests a re-commitment from the Partners who are unresponsive and to look for alternative solutions in order to implement the secondments as per the DoA.

The PO recommended that the fellows attend the Researchers night in September 2020.

The PO can assist with VISA support letters when deemed necessary.

Please ensure that the other members of your consortium are informed of this letter.

Yours faithfully,
Nina Poumpalova (e-signed)
Project Officer

Annex 2 Detailed Agenda SAS NWE I Dec 2-5, 2019



### MSCA ETN SAS Network Wide Event 1 Toulouse, 02-05.12.2019

#### **DETAILED AGENDA**

Location: Toulouse (FR) @ LAAS-CNRS, 7 Avenue du Colonel Roche, 31031 Toulouse

How to get there: https://www.laas.fr/public/en/how-get-laas

Hotel accommodation link: https://www.laas.fr/public/en/accomodation-short-stay

#### **MONDAY 02.12.2019 - Day 1**

ESRs + Supervisors & their colleagues + representatives of the Partner Organizations + Management Support Team + Project Officer (from 14:00)

Time	Meeting room: Salle Europe, LAAS-CNRS		
9:00 - 9:30	Welcome with coffee and refreshments		
9:30 - 10:30	Progress report		
10:30 - 12:00	WP Parallel Sessions (Coffee Break included)		
	WP1: Tourmalet - WP2: Vignemale - WP3: Eu	<mark>rope</mark>	
12:00 - 13:00	MST/Supervisory Board Meeting	ESR Researchers Council (Hourgade)	
13:00 - 14:00	Lunch break		
14:00 - 14:05	Welcome by REA Project Officer and Project Coordinator		
14:05 - 14:25	Tour de table: Introduction of the beneficiaries and partner organizations, their research team		
	and role within the project		
14:25 - 14:45	REA Project Officer presentation: presentation on the monitoring of project implementation,		
	reporting and purpose of the mid-term check		
14:45 - 15:00	Questions & Answers		
15:00 - 15:30	Coordinator's report: presentation of the Consortium & Mid-term progress report		
	(scientific, training and management)		
15:30 - 15:45	Short break		
15:45 – 17:00	Individual ESRs presentations (5 min + 2 min Q&A) - 8 ESRs		
20:00	Official project dinner Toulouse downtown "Les caves de la Maréchale"		

#### TUESDAY 03.12.2019 - Day 2

ESRs + Supervisors & their colleagues + representatives of the Partner Organizations + Management Support Team + Project Officer

Time	Meeting room: Salle Europe, LAAS-CNRS
09:00 - 10:15	Individual ESRs presentations (5 min + 2 min Q&A) - 7 ESRs
10:15 - 11:30	Confidential discussions with PO and all fellows
11:30 - 11:45	Short break
11:45 - 12:45	Feed-back and Q&A between Project Coordinator / MST / SAS Partners and Project Officer
12:45 - 13:45	Lunch break
13:45 - 14:45	LAAS-CNRS Robotic department visit + demo
15:00 - 16:00	Guest lecture – Didier Dubois (IRIT, France)
16:00 - 16:30	Conclusions of the meeting + project next steps
17:00 - 18:00	Visit of the new museum "La Machine"
18:00	Bus to Toulouse city center

### WEDNESDAY 04.12.2019 - Day 3: S/T Training and Soft-skill training

ESRs + Optional: Management Support Team + Supervisors & their colleagues

Time	Meeting room: Hourgade, LAAS-CNRS	
09:00 - 12:00	S/T Training: Fault tolerance (JC Fabre, LAAS-CNRS)	
12:00 - 13:00	Lunch break	
13:00 - 16:00	Soft-skill Training I: The keys to manage your doctoral project	
18:00 – 19:30	ESRs social event organized by ESRs Luca and Raul (Laser game)	

### THURSDAY 05.12.2019 – Day 4: S/T Training and Soft-skill training

ESRs + Optional: Management Support Team + Supervisors & their colleagues

Time	Meeting room: Hourgade, LAAS-CNRS	
09:00 - 12:00	S/T Training: Dependable autonomous robots (J. Guiochet, LAAS-CNRS)	
12:00 - 13:00	Lunch break	
13:00 - 16:00	Soft-skill Training II: Anticipate your career path during your PhD	
16:00 - 16:30	Short break	
16:30 - 18:00	Communication strategy evaluation and Intranet (Podio) introduction (PM)	



This project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No. 812.788

Annex 3 List of SAS NWE I Participants – signed versions

[MSCA ETN SAS] NWE 1 TOULOUSE MONDAY DECEMBER 2 2019			
irst Name	Last Name	Affiliation	Signature
Ahmad	Adee	Bosch - ESR8	Yalar
Haris	Aftab	University of York - ESR13	
Magnus	Albert	SICK AG	M. Alla
Rob	Alexander	University of York	12khnn
Natalie	Bertels	KU Leuven	
leroen	Boydens	KU Leuven	- Manne
Richard	Bridgeman	Lloyd's Register EMEA	1
lohan	de Jong	Maritime Research Center Netherlands	20
Orian	Dheu	KU Leuven - ESR15	W74
hab	el Amam	RH Marine Netherlands BV	100
vo	Emanuilov	KU Leuven	
Bitzel	Enrique Cortez Sic	Horiba MIRA Ltd - ESR14	
lean-Charles	Fabre	LAAS-CNRS	Co tai
Raul Sena	Ferreira	LAAS-CNRS - ESR1	Kanl
Simon	Foster	University of York	
Roman	Gansch	Robert Bosch GmbH	Len
Vibhu	Gautam	University of York - ESR11	Vilelin Gantole
Jérémie	Guiochet	LAAS-CNRS	1
brahim	Habli	University of York	Gb2-
Richard	Hawkins	University of York	
Harita	Joshi	Jaguar Land Rover	
Ralf	Kirchner	Fraunhofer ESK	
Einar	Landre	Equinor ASA	Com bends.
Lukas	Lanneau	KU Leuven	
Yuan	Liao	Fraunhofer ESK - ESR2	1000
Peter	Liggesmeyer	Fraunhofer IESE / TUK	19, 11
John	Mcdermid	University of York	
Tianlei	Miao	RH Marine Netherlands BV - ESR12	Tracker laser
Peter	Munk	Robert Bosch GmbH	( ee
Eoin	O Carroll	Portable Medical Technology Ltd	3
Aleksandr	Ovechkin	KU Leuven - ESR5	ChrokUM
Davy	Pissoort	KU Leuven	
Patrick	Ringeard	Airbus Operations SAS	Ritton
Alastair	Ruddle	Horiba MIRA Ltd	alester Riddle
Luca	Sartori	LAAS-CNRS - ESR6	LU motie
Cédric	Seguineau	Naïo Technologies SAS	1000 000
Sanjiv	Sharma	Airbus Operations SAS	
Paul	Snauwaert	Case New Holland Industrial	
Stephane	Stroobant	KU Leuven	A
Zaid	Tahir	University of York - ESR7	

irst Name	Last Name	Affiliation	Signature
assan	Tirmizi	KU Leuven - ESR9	Leccenti VMITA
Nario	Trapp	Fraunhofer ESK	-
ejana	Ugrenovic	KU Leuven - ESR4	Ugrenovic D
eggy	Valcke	KU Leuven	J
an-Kees	Van der Ven	RH Marine Netherlands BV	
ries	Vanoost	KU Leuven	Vansett
Narcel	Verhoeven	Case New Holland Industrial	THE
lélène	Waeselynck	LAAS-CNRS	( Sione
avid	Ward	Horiba MIRA Ltd	0
ang	Yan	University of York - ESR10	1977
oao Vitor	Zacchi	Fraunhofer ESK - ESR3	& godft
ves	Jo-kirslick	ku jeuren	#
Mina	Poumedan	REA PO	l. LP.

First Name	Last Name	Affiliation	Signature
Ahmad	Adee	Bosch - ESR8	TA TA
Haris	Aftab	University of York - ESR13	1 de
Magnus	Albert	SICK AG	MIIIA
Rob	Alexander	University of York	n Mal
Natalie Natalie	Bertels	KU Leuven	10 Monnov C
Jeroen	Boydens	KU Leuven	Mark
Richard	Bridgeman	Lloyd's Register EMEA	10
Johan	de Jong	Maritime Research Center Netherlands	
Orian	Dheu	KU Leuven - ESR15	12
Ehab	el Amam	RH Marine Netherlands BV	CH Jan
lvo	Emanuilov	KU Leuven	200
Bitzel	Enrique Cortez Sic	Horiba MIRA Ltd - ESR14	
Jean-Charles	Fabre	LAAS-CNRS	
Raul Sena	Ferreira	LAAS-CNRS - ESR1	401
Simon	Foster	University of York	Hang
Roman	Gansch	Robert Bosch GmbH	1110
Vibhu	Ganson	University of York - ESR11	VIII Can le
Jérémie	Guiochet	LAAS-CNRS	Vaywo Class
	Habli	University of York	
lbrahim Richard	Hawkins		To Se
		University of York	
Harita	Joshi	Jaguar Land Rover Fraunhofer ESK	
Ralf	Kirchner		Co lumbs
Einar	Landre	Equinor ASA	Court Wy Sec.
Lukas	Lanneau	KU Leuven	-101 . In
Yuan	Liao	Fraunhofer ESK - ESR2	1201
Peter	Liggesmeyer	Fraunhofer IESE / TUK	
John	Mcdermid	University of York	
Tianlei _	Miao	RH Marine Netherlands BV - ESR12	Thoules Mes
Peter	Munk	Robert Bosch GmbH	ids V
Eoin	O Carroll	Portable Medical Technology Ltd	000011111
Aleksandr	Ovechkin	KU Leuven - ESR5	Beaun
Davy	Pissoort	KU Leuven	1000
Patrick	Ringeard	Airbus Operations SAS	00 (/- 00)
Alastair	Ruddle	Horiba MIRA Ltd	Mester Kingol
Luca	Sartori	LAAS-CNRS - ESR6	L Stew 20
Cédric	Seguineau	Naïo Technologies SAS	
Sanjiv	Sharma	Airbus Operations SAS	
Paul	Snauwaert	Case New Holland Industrial	A
Stephane	Stroobant	KU Leuven	
Zaid	Tahir	University of York - ESR7	(A)X-

Hassan	THE RESERVE THE PARTY OF THE PA		
	Tirmizi	KU Leuven - ESR9	Gersen Ting;
Mario	Trapp	Fraunhofer ESK	
Dejana	Ugrenovic	KU Leuven - ESR4	Ugrenovic Diana
Peggy	Valcke	KU Leuven	
Jan-Kees	Van der Ven	RH Marine Netherlands BV	
Dries	Vanoost	KU Leuven	Dangost
Marcel	Verhoeven	Case New Holland Industrial	fores
Hélène	Waeselynck	LAAS-CNRS	atoere
David	Ward	Horiba MIRA Ltd	
Fang	Yan	University of York - ESR10	ibs all
Joao Vitor	Zacchi	Fraunhofer ESK - ESR3	1
lem	Volleisseitch	No Leuven	2
Vina	Poumpalova	A ( - 1)	

#### [MSCA ETN SAS] NWE 1 TOULOUSE WEDNESDAY DECEMBER 4 2019

# 09:00-12:00 S/T Training: Fault Tolerance (JC Fabre, LAAS-CNRS)

First Name	Last Name	Affiliation	Signature
Raul Sena	Ferreira	LAAS-CNRS - ESR1	Faml
Yuan	Liao	Fraunhofer ESK - ESR2	學源
Joao Vitor	Zacchi	Fraunhofer ESK - ESR3	Been
Dejana	Ugrenovic	KU Leuven - ESR4	The concreted
Aleksandr	Ovechkin	KU Leuven - ESR5	DECHU
Luca	Sartori	LAAS-CNRS - ESR6	FU Emites
Zaid	Tahir	University of York - ESR7	BOW
Ahmad	Adee	Bosch - ESR8	Marie .
Hassan	Tirmizi	KU Leuven - ESR9	Hora hun
Fang	Yan	University of York - ESR10	
Vibhu	Gautam	University of York - ESR11	el l
Tianlei	Miao	RH Marine Netherlands BV - ESR12	Transet live
Haris	Aftab	University of York - ESR13	
Orian	Dheu	KU Leuven - ESR15	A
Jérémie	Guiochet	LAAS-CNRS	U_
Hélène	Waeselynck	LAAS-CNRS	
Dries	Vanoost	KU Leuven	Dancast
Jens	Vankeirsbilck	KU Leuven	STE
Stephane	Stroobant	KU Leuven	

## [MSCA ETN SAS] NWE 1 TOULOUSE WEDNESDAY DECEMBER 4 2019

#### 13:00-16:00 Soft-skill Training: The keys to manage your doctoral project

First Name	Last Name	Affiliation	Signature
Raul Sena	Ferreira	LAAS-CNRS - ESR1	Tan
Yuan	Liao	Fraunhofer ESK - ESR2	界派
Joao Vitor	Zacchi	Fraunhofer ESK - ESR3	Signed
Dejana	Ugrenovic	KU Leuven - ESR4	[stepayion
Aleksandr	Ovechkin	KU Leuven - ESR5	COSTANA
Luca	Sartori	LAAS-CNRS - ESR6	LT Thys
Zaid	Tahir	University of York - ESR7	- On
Ahmad	Adee	Bosch - ESR8	The
Hassan	Tirmizi	KU Leuven - ESR9	Hos Tien
Fang	Yan	University of York - ESR10	
Vibhu	Gautam	University of York - ESR11	Dell
Tianlei	Miao	RH Marine Netherlands BV - ESR12	Worder hum
Haris	Aftab	University of York - ESR13	1
Orian	Dheu	KU Leuven - ESR15	- (A)
Jérémie	Guiochet	LAAS-CNRS	~ _
Hélène	Waeselynck	LAAS-CNRS	
Dries	Vanoost	KU Leuven	-
Jens	Vankeirsbilck	KU Leuven	3
Stephane	Stroobant	KU Leuven	_

## [MSCA ETN SAS] NWE 1 TOULOUSE THURSDAY DECEMBER 5 2019

## 09:00-12:00 S/T Training: Dependable autonomous robots (J. Guiochet, LAAS-CNRS)

First Name	Last Name	Affiliation	Signature
Raul Sena	Ferreira	LAAS-CNRS - ESR1	Kem
Yuan	Liao	Fraunhofer ESK - ESR2	De ita
Joao Vitor	Zacchi	Fraunhofer ESK - ESR3	1 July
Dejana	Ugrenovic	KU Leuven - ESR4	therenauco
Aleksandr	Ovechkin	KU Leuven - ESR5	Obe Exuel
Luca	Sartori	LAAS-CNRS - ESR6	Y Tast V
Zaid	Tahir	University of York - ESR7	
Ahmad	Adee	Bosch - ESR8	1 the
Hassan	Tirmizi	KU Leuven - ESR9	Hitry.
Fang	Yan	University of York - ESR10	
Vibhu	Gautam	University of York - ESR11	Vibra Gm
Tianlei	Miao	RH Marine Netherlands BV - ESR12	Trouber Mai
Haris	Aftab	University of York - ESR13	1
Orian	Dheu	KU Leuven - ESR15	#
Jérémie	Guiochet	LAAS-CNRS	
Hélène	Waeselynck	LAAS-CNRS	
Dries	Vanoost	KU Leuven	Danvort
Jens	Vankeirsbilck	KU Leuven	TAR
Stephane	Stroobant	KU Leuven	

## [MSCA ETN SAS] NWE 1 TOULOUSE THURDAY DECEMBER 5 2019

#### 13:00-16:00 Soft-skill Training: Anticipate your career path during your PhD

First Name	Last Name	Affiliation	Signature
Raul Sena	Ferreira	LAAS-CNRS - ESR1	Kanf
Yuan	Liao	Fraunhofer ESK - ESR2	漫演
Joao Vitor	Zacchi	Fraunhofer ESK - ESR3	A-10 WH
Dejana	Ugrenovic	KU Leuven - ESR4	Regencied
Aleksandr	Ovechkin	KU Leuven - ESR5	Sheckit
Luca	Sartori	LAAS-CNRS - ESR6	40 monta
Zaid	Tahir	University of York - ESR7	
Ahmad	Adee	Bosch - ESR8	Took.
Hassan	Tirmizi	KU Leuven - ESR9	How his
Fang	Yan	University of York - ESR10	
Vibhu	Gautam	University of York - ESR11	Whitegore
Tianlei	Miao	RH Marine Netherlands BV - ESR12	Would
Haris	Aftab	University of York - ESR13	70
Orian	Dheu	KU Leuven - ESR15	#
Jérémie	Guiochet	LAAS-CNRS	1-
Hélène	Waeselynck	LAAS-CNRS	
Dries	Vanoost	KU Leuven	
Jens	Vankeirsbilck	KU Leuven	
Stephane	Stroobant	KU Leuven	-

Annex 4
PPT Presentation "Welcome and SAS Progress Report"

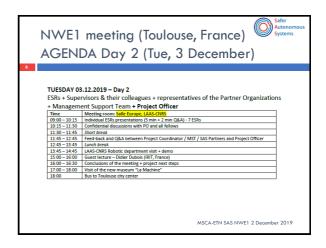


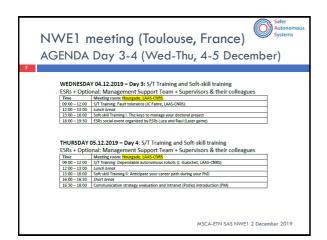






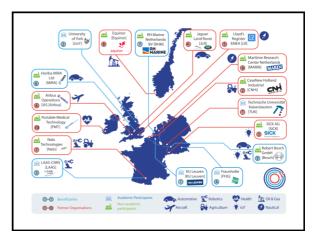




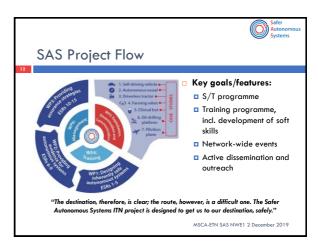


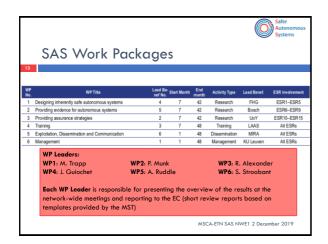


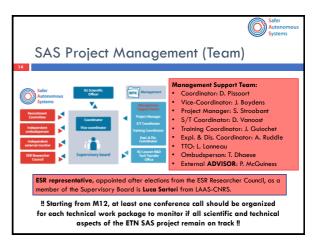


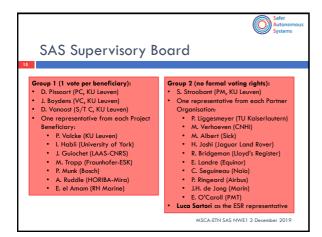


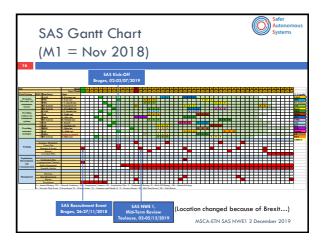






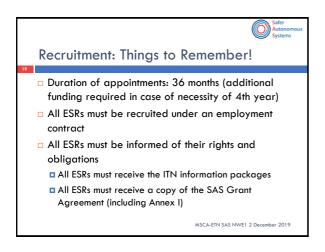


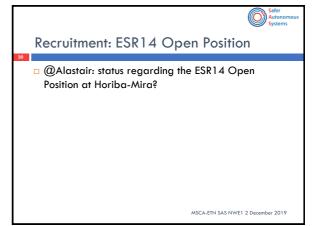








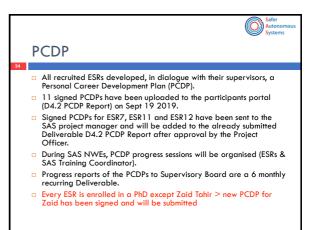




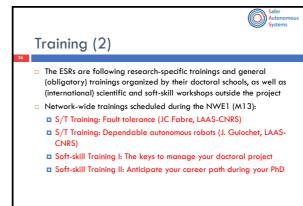




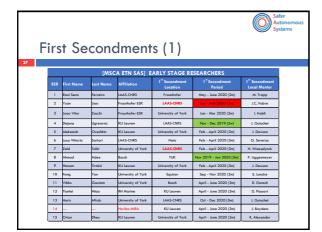


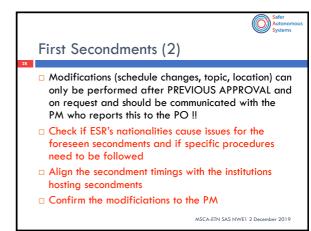


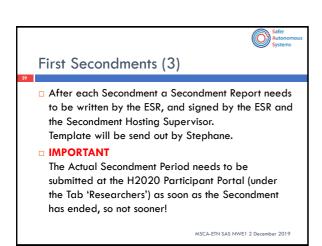


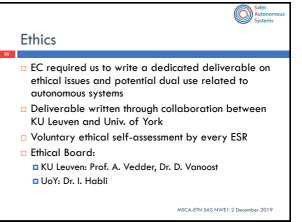


MSCA-ETN SAS NWE1 2 December 2019

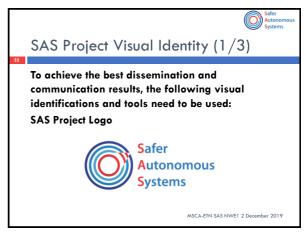


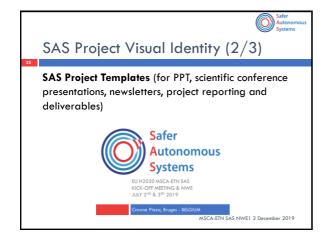


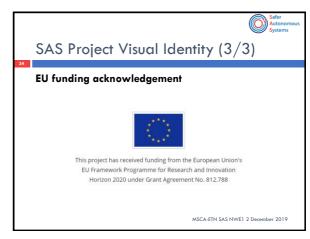


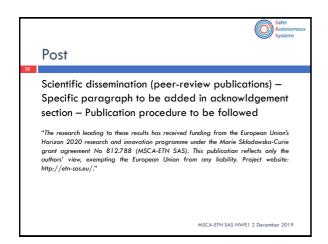


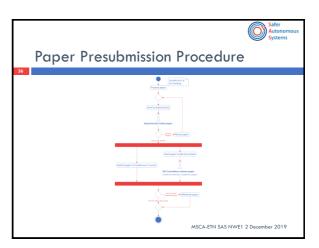


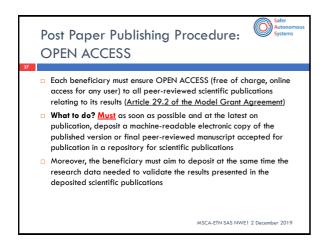


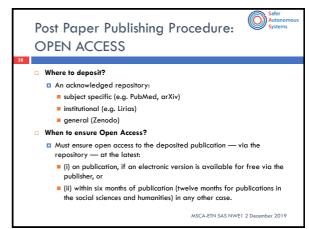


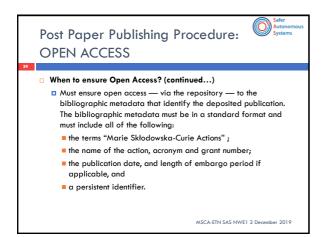


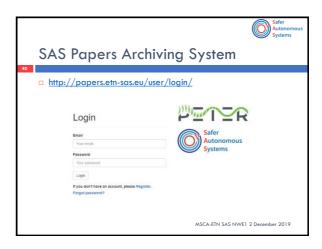


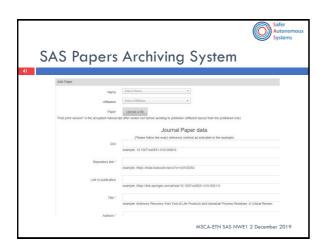


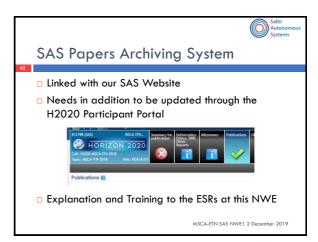




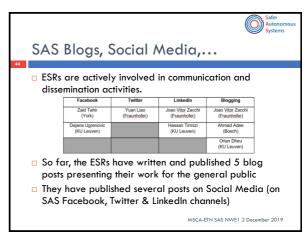


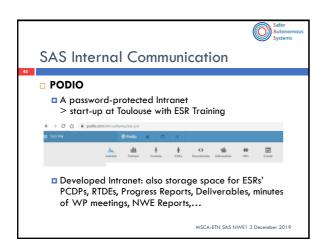






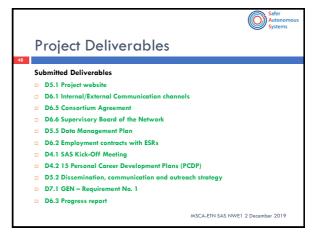


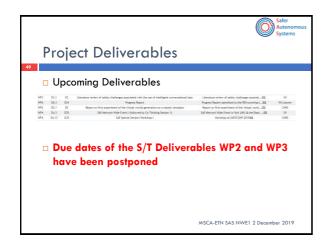




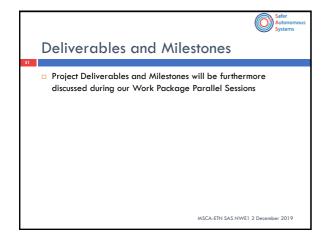








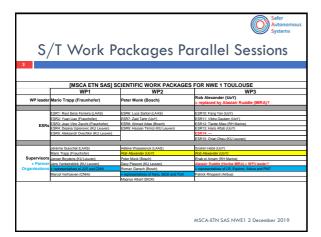


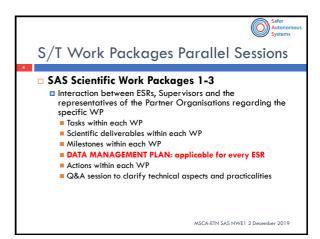


Annex 5
PPT Presentation "WP parallel sessions"

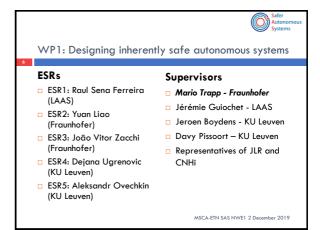


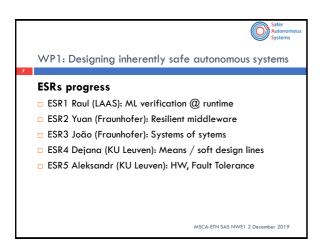


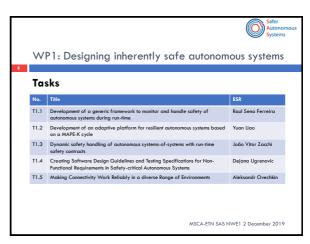


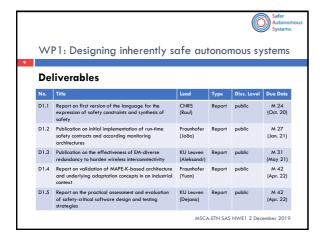


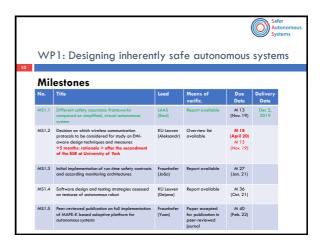


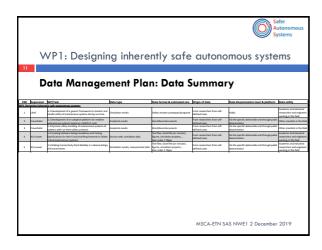


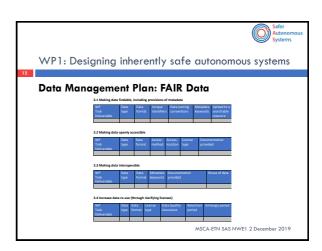


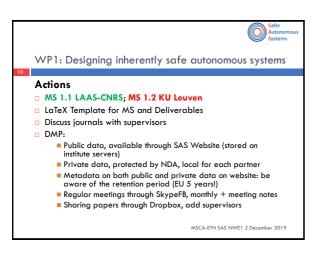


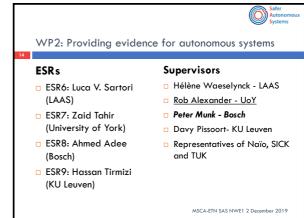


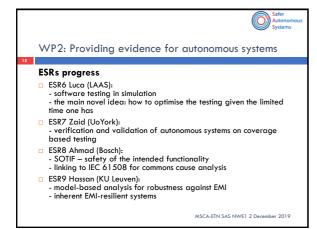


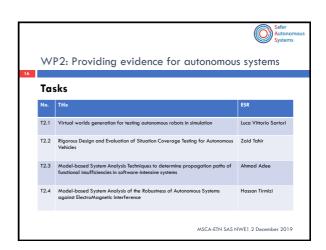


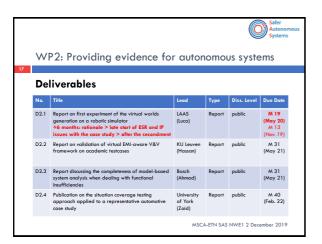




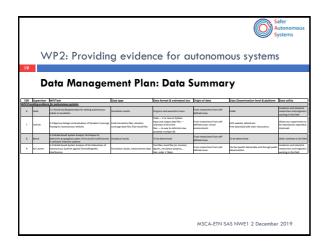


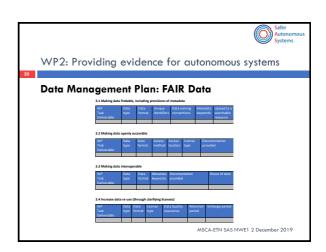


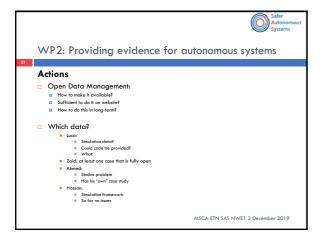


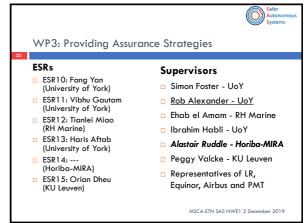


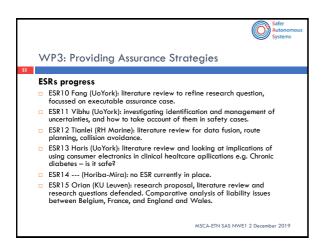
					Safe Auto Syste
WP2: Providing evidence for autonomous systems					
Milestones					
No.	Title	Lead	Means of verific.	Due Date	Delivery Date
MS2.1	Decision on which model-based system analysis suits are fitted best to cope with functional insufficiencies	Bosch (Ahmad)	Overview on (dis)advantages of the model-based system analysis suits available	M 13 (Nov. 19)	Nov 27, 2019
MS2.2	First experiment of virtual world generation completed for robotic simulator +6 months: rationale > late start of ESR and IP issues with the case study	LAAS (Luca)	Report available	M 19 (May 20) M 13 (Nov. 19)	
MS2.3	Statistical V&V framework for EMI analysis completed	KU Leuven (Hassan)	Simulation framework available	M 22 (Aug. 20)	
MS2.4	Complete prototype tooling for situation coverage testing available and working for a small example	University of York (Zaid)	Description of tools available	M 26 (Dec. 20)	

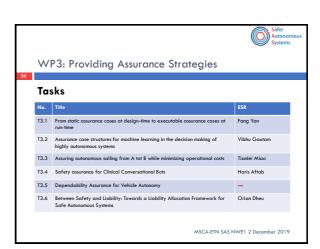


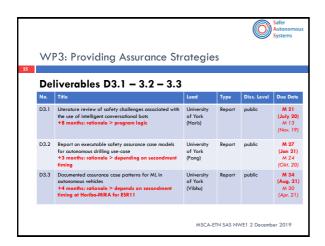


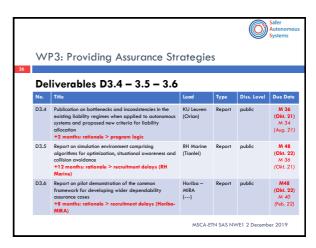


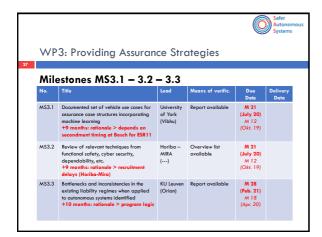


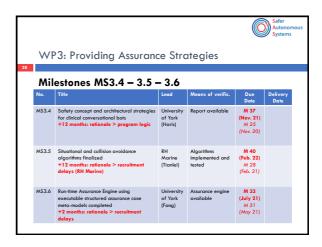


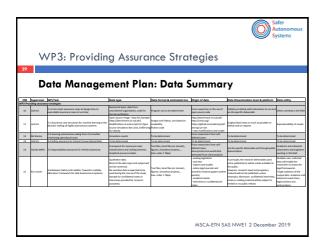


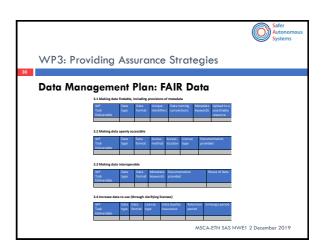














#### WP3: Providing Assurance Strategies

#### **Actions**

- Data Management Plan:
  - □ What data are we talking about? Data around safety is more easier...
    □ Synthetic data

  - Making data opensource: use some open use case
     Anamoly data will be difficult

#### □ ESRs

- NS

  ESR10 (Fang): possible problem IP regarding the secondment

  ESR11 (Vibhu): open source image is the only liberty (game engine)

  ESR12 (Tinalei): simulation result visualization which can be public

  ESR13 (Haris): clinical > be aware of personal information

  ESR14 (---): get real-world data but not able to retribute it, make syntactic data

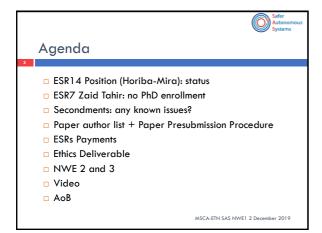
  ESR15 (Orian): no issues

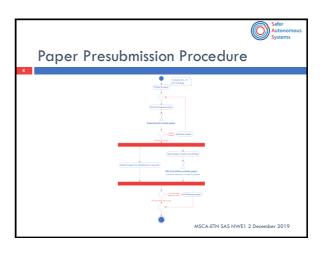
MSCA-ETN SAS NWE1 2 December 2019

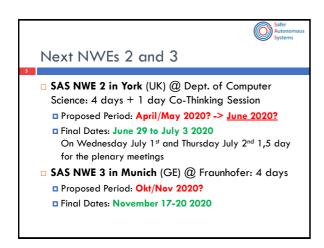
Annex 6 Agenda Supervisory Board Meeting NWE I Dec 2, 2019











Annex 7 Report ESR Researcher Council NWE I Dec 2, 2019



# REPORT ESR Researcher Council - MSCA ETN SAS NWE1 December 2<sup>nd</sup> 2019, LAAS-CNRS, Toulouse (FR)

**Date**: Monday December 2<sup>nd</sup>, 2019 12:00-13:00

**Present**: Raul Ferreira, Yuan Liao, João Zacchi, Dejana Ugrenovic, Aleksandr Ovechkin (president), Luca Sartori, Zaid Tahir, Ahmad Adee (secretary), Hassan Tirmizi, Fang Yan, Vibhu Gautam, Tianlei Miao, Orian Dheu

Excused: Haris Aftab

- 1. Which good practices did you develop in your own research, which might be relevant to other ESRs? What can still be improved?
  - a) Make notes and comments of your actions especially when you write code just to remember and re-do if needed smth in future.
  - b) Mind map programs:
    - Docear;
    - Mendley;
    - Zotero.
- 2. What do you believe has been your personal input into achieving the overall goal of the project up until now?
  - a) WhatsApp group;
  - b) Work package group 1 meetings;
  - c) Dejana's organizational skills.
- 3. Which activities regarding social media (e.g. Blogging, Twitter, LinkedIn and Facebook) and public engagement did you find successful? How can we further improve this?

Increase the frequency of posts for blogs (2x per year per each ESR, at least 2x per month).

4. Conference, journal and workshop list

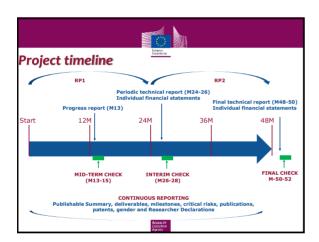
A running list containing all the upcoming relevant conference, journal, workshop and summer school should be made (google sheets for example) so as to help ESRs find the relevant opportunities.



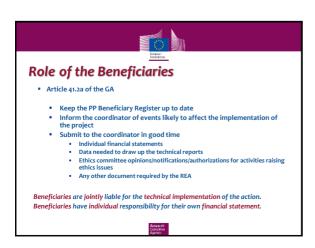
Annex 8
PPT Presentation "SAS Mid Term Check – Project Officer"



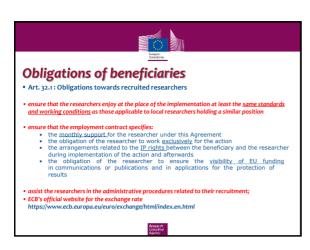










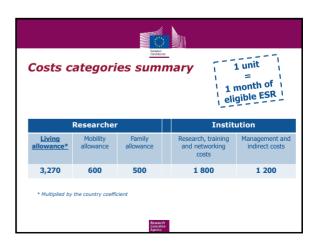


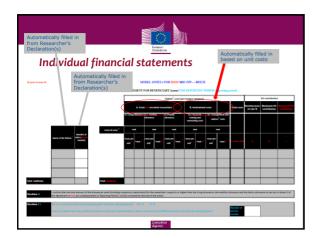




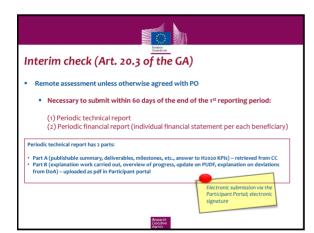














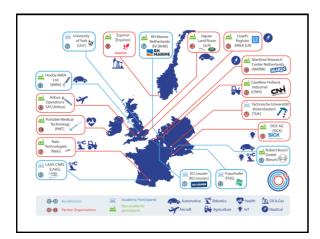


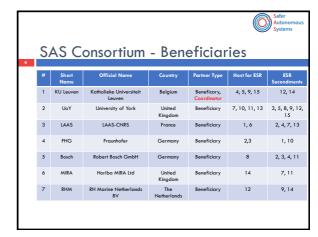


Annex 9
PPT Presentation "Coordinator's report"





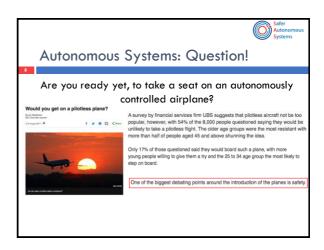




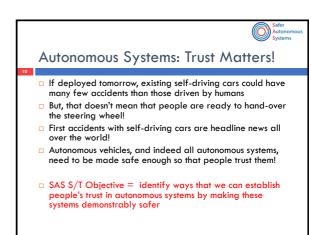


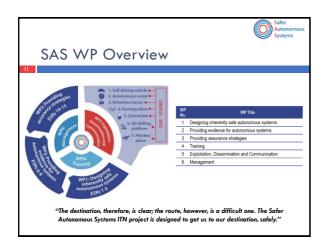




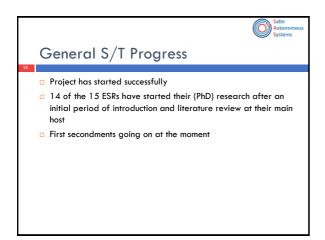


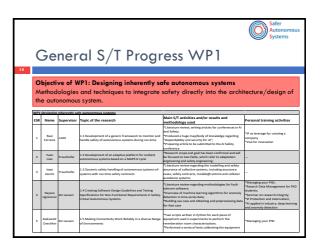


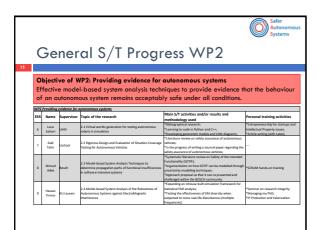


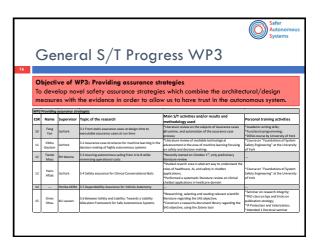






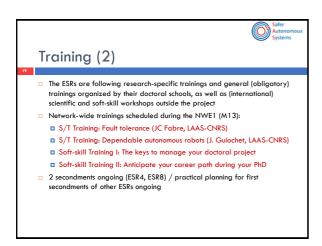




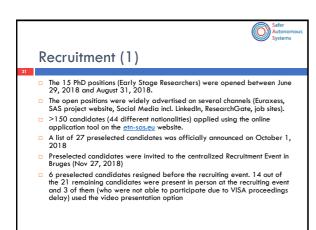






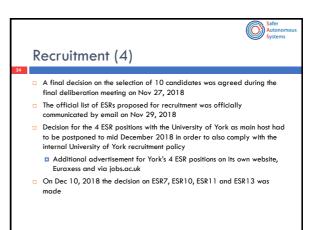


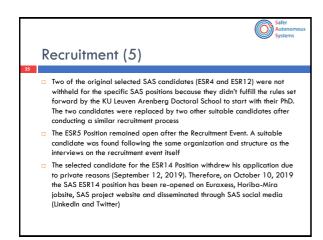






# Recruitment (3) During 3 parallel sessions, the 14 candidates presented themselves, their background and their motivation. Video interviews of candidates following alternative procedure were shown A time slot of 45 minutes has been allocated for each candidate for the presentation and for the jury members to interview the candidates. Then each Jury Group had a 45 minutes deliberation meeting to assess the suitability of each candidate for the ESR position they applied for. Another one-hour plenary deliberation meeting took place with all Jury Groups members and the management team.





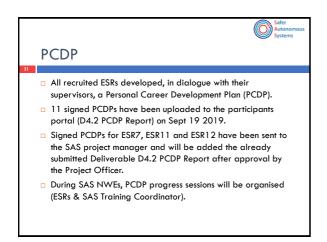




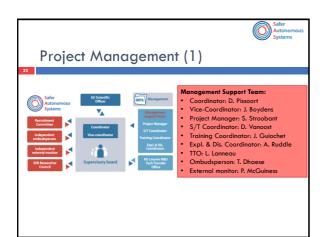


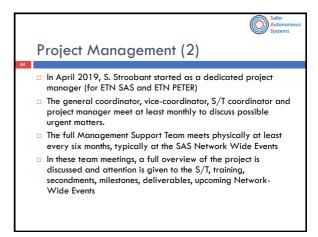


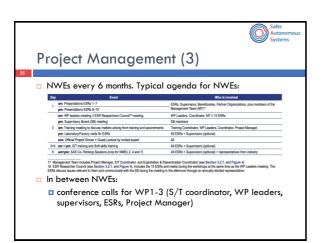


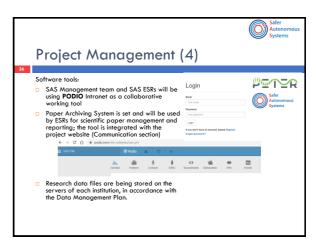


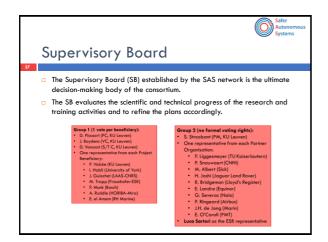






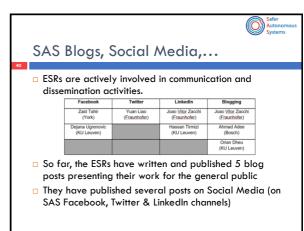












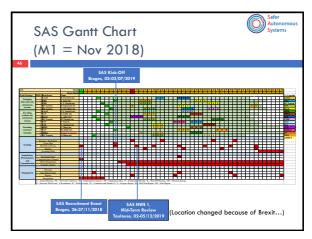












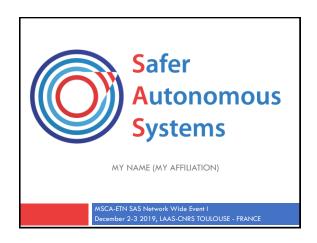


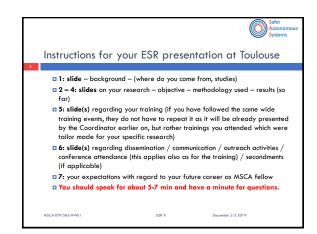


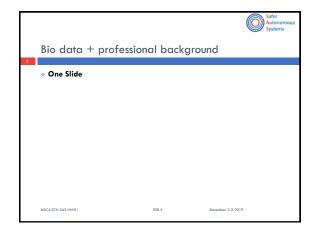


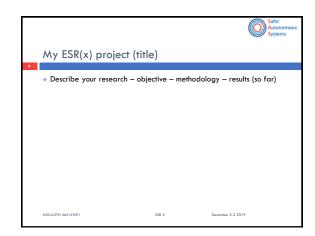


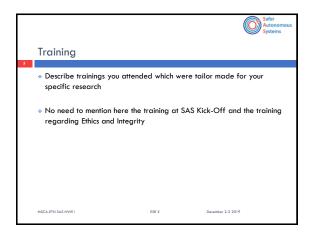
Annex 10 PPT Template "ESR Pitch Presentation"

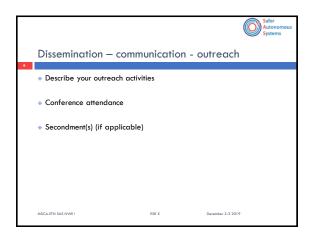


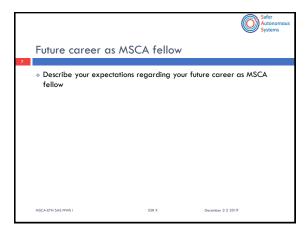








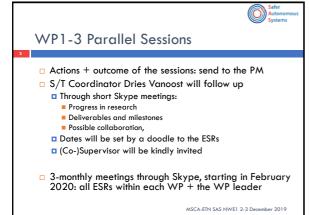


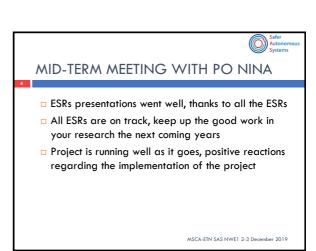


Annex 11
PPT Presentation "Conclusions of the meeting + next steps"





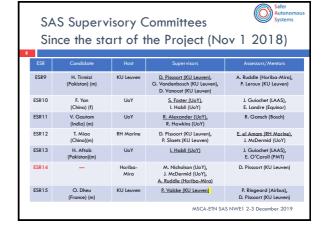




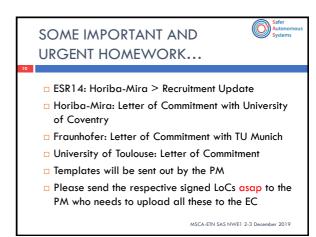


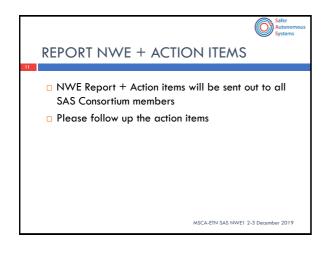


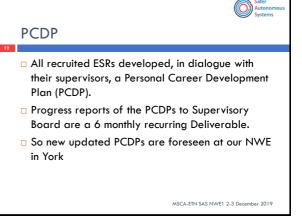
### SAS Supervisory Committees Since the start of the Project (Nov 1 2018) ESR1 R. S. Ferreiro (Brazil) (m) LAAS M. Trapp (FHG), H. Joshi (JLR) J. Guiochet (LAAS), I. Waeselynck (LAAS) Y. Liao (China) (m) M. Trapp (FHG) J.C. Fabre (LAAS), J. V. Zacchi (Brazil) (m) I. Habli (UoY), R. Gansch (Bosch) ESP3 FHG M. Trapp (FHG) P. Munk (Bosch), P. Hellinckx (UAntwerpen) ESR4 D. Ugrenovic ia-Herzegovina) (f) KU Leuven J. Boydens (KU Leuven), T. Holvoet (KU Leuven) D. Pissoort (KU Leuven), Vandenbosch (KU Leuven) D. Vanoost (KU Leuven) ESR5 A. Ovechki E. el Amam (RH Marine John Dawson (UoY) KU Leuver (Russia) (m) H. Waeselynck (LAAS), J. Guiochet (LAAS) R. Alexander (UoY), M. Albert (Sick) Z. Tahir (Pakistan) (m) ESR7 UoY R. Alexander (UoY) H. Waeselynck (LAAS), D. Ward (Horiba-Mira ESRE A. Adee (Pakistan) (m) P. Liggesmeyer (TUK), P. Munk (Bosch) J. Boydens (KU Leuven

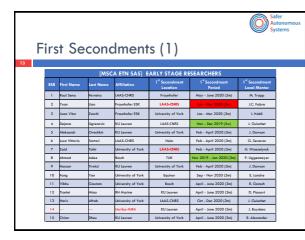


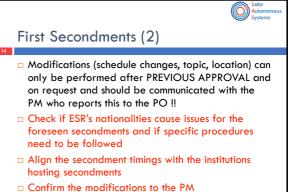
## DELIVERABLES AND MILESTONES Deviation of Deliverables and milestones: more detailed information is needed why delayed, specify due dates, clarification why and how. MITIGATION PLAN >>> ACTION PLAN Based on WP parallel sessions Formal notifications regarding these changes are necessary through the EC Participant Portal in order to further align with the Action Plan as stated in the SAS Proposal











Safer Autonomous Systems

### First Secondments (3)

 After each Secondment a Secondment Report needs to be written by the ESR, and signed by the ESR and the Secondment Hosting Supervisor.
 Template will be send out by Stephane.

### □ IMPORTANT

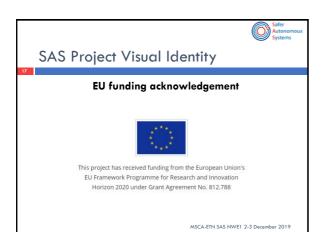
The Actual Secondment Period needs to be submitted at the H2020 Participant Portal (under the Tab 'Researchers') as soon as the Secondment has ended, so not sooner!

MSCA-ETN SAS NWE1 2-3 December 2019

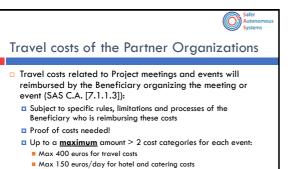
### **Ethics**

- EC required us to write a dedicated deliverable on ethical issues and potential dual use related to autonomous systems
- □ Deliverable written through collaboration between KU Leuven and Univ. of York
- □ Voluntary ethical self-assessment by every ESR
- □ Ethical Board:
  - KU Leuven: Prof. A. Vedder, Dr. D. Vanoost
  - □ UoY: Dr. I. Habli

MSCA-ETN SAS NWE1 2-3 December 2019







■ For maximum 1 participant per Partner Organization per event

□ Please contact PM regarding the reimbursements

### Next NWEs 2 and 3

□ **SAS NWE 2 in York** (UK) @ Dept. of Computer Science: 4 days + 1 day Co-Thinking Session

□ Final Dates: June 29 to July 3 2020
On Wednesday July 1<sup>st</sup> and Thursday July 2<sup>nd</sup> 1,5 day for the plenary meetings

SAS NWE 3 in Munich (GE) @ Fraunhofer: 4 days
 Final Dates: November 17-20 2020

☐ More information will follow

Letters of invitation can be asked from today on

MSCA-ETN SAS NWE1 2-3 December 2019











THANK YOU ALL FOR ATTENDING
THIS IMPORTANT NWE AND
MID-TERM REVIEW MEETING
AND ALREADY LOOKING
FORWARD TO SEEING YOU ALL IN
YORK AT OUR SECOND NWE

Annex 12 SAS NWE I Survey Form HOME PROJECT WORK PACKAGES TEAM CONSORTIUM - EVENTS NEWS COMMUNICATIONS - CONTACT

☆ Home / MSCA ETN SAS NWE 1 @LAAS-CNRS Toulouse - Survey Form

## MSCA ETN SAS NWE 1 @LAAS-CNRS Toulouse - Survey Form

Please fill out the survey form for the first two days of the MSCA ETN SAS NWE 1 at LAAS-CNRS in Toulouse, which took place on December 02 and December 03, 2019.

Regarding the scores: 1 = Poor, 5 = Excellent

### Monday December 2 2019

How satisfied were you with the provided progress report? *				
How satisfie	d were you with t	he WP parallel sess	sions? *	
		⊚ 3	○ 4	⊚ 5
How satisfie	d were you with t	he Individual ERS p	presentations? *	
⊚ 1		⊚ 3	○ 4	⊚ 5
Comments o	r Notes regarding	the sessions on Mo	onday December 2 2	019



This project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No 812788

### RECENT POSTS



SAS @ Safety-Critical Systems Symposium 2020 ① 15 days ago



Network Wide Event in Toulouse: behind the scenes ③ 25 days ago



The Challenge of Managing a PhD ③ January 27, 2020



Leuven AI Law & Ethics Conference (LAILEC) () January 17, 2020



My First International Conference: ISSRE 2019 ③ December 20, 2019