



Safer Autonomous Systems

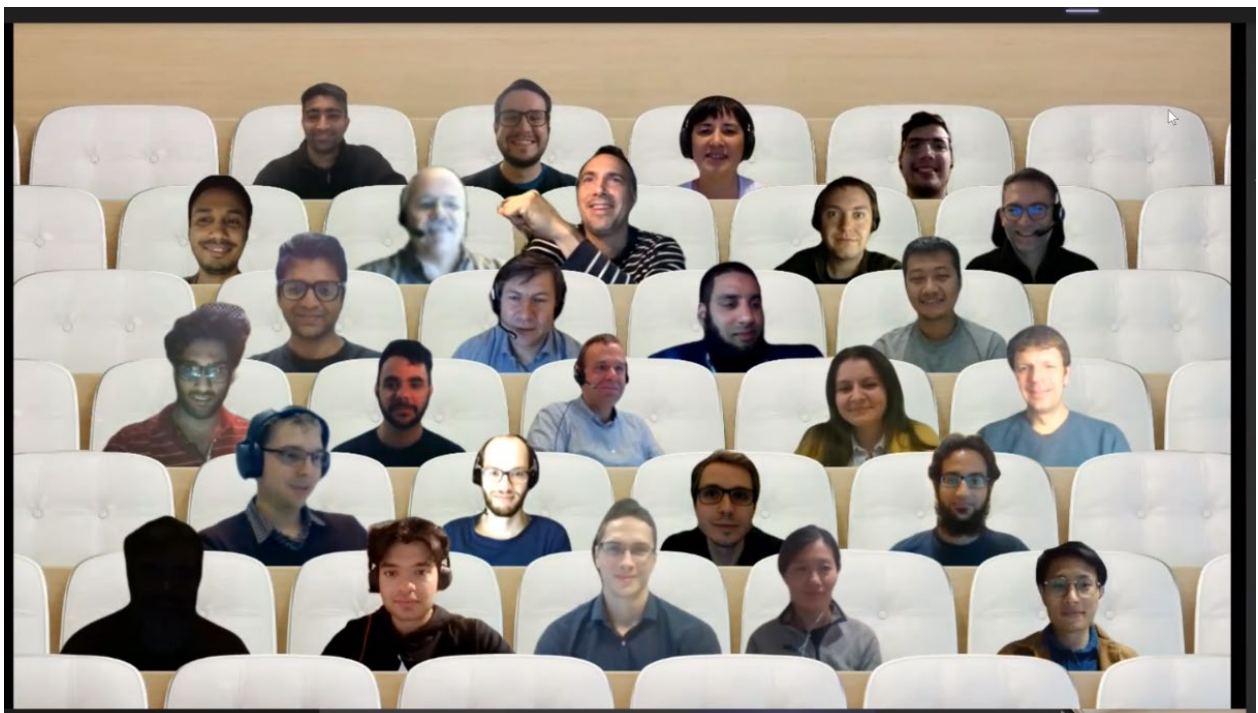
European Training Network on

Safer Autonomous Systems (SAS)

Deliverable 4.5 (D27) – SAS Network-Wide Event III

November 17-20, 2020

Online Network-Wide Event through Microsoft Teams



Deliverable Number	D4.5 (D27)
Deliverable Name	SAS Network-Wide Event III
Deliverable Duration	November 17-20, 2020
Due Date of Deliverable	October 31, 2020
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Prolegomena

Deliverable 4.5 SAS Network-Wide Event III was initially, as stated in the SAS Grant Agreement Description of the Action Annex I Part B, foreseen to be submitted on October 31, 2020. However, it was already decided within the SAS Consortium to hold the SAS NWE III from November 17-20, 2020.

Furthermore, and due to the ongoing COVID-19 pandemic, it was impossible to have a physical, face-to-face Network-Wide Event III @ Fraunhofer in Munich as was originally scheduled and foreseen. This restriction has been overcome by shifting to online meetings through Microsoft Teams for the full Network-Wide Event.

As a consequence of the above, the submission date for this Deliverable 4.5 has been shifted to **December 7, 2020.**

This Deliverable 4.5 (D27) is the report of the SAS Network-Wide Event III that took place online from November 17-20, 2020.

1. Agenda

The SAS Network-Wide Event III took place from November 17-20, 2020 through Microsoft Teams meetings due to the ongoing COVID-19 crisis.

On Tuesday, November 17 (Day 1), the Project Manager welcomed briefly the ESRs after which the ESR Council took place where the ESRs could interact and discuss regarding topics faced by the ESRs such as secondments, productivity, and dissemination. After this ESR Council, the first soft-skill training **“Slidewriting – how to win your audience”**, given by Markus Burger from SLIDEWRITING, took place. In the afternoon, a second soft-skill training was scheduled: **“Presenting in different contexts”** given by Sabrina Reinhardt from FRIEDERBARTH. This soft-skill training was composed of two main topics, namely “Authentic and unerring appearance at industrial clients”, and “How to present and reach goals confidently in scientific conferences”. In the evening, the ESRs ended this first day with an online social activity where they could compete with each other through a “Home Office Duel – Online Quiz”.

Day 2 of this online NWE, Wednesday November 18, started with the SAS Project Coordinator who welcomed all the ESRs, the supervisors and their colleagues, the representatives of the partner organizations, and the management support team to this online NWE (list of the participants can be found on page 7). The Project Coordinator gave an overall view and state of play of the SAS project, which was followed by the ESRs 1-5 presentations regarding their S/T progress. Those ESR presentations were presented to the consortium through pre-recorded presentations. During these video presentations, the ESRs were able to answer questions coming in through the chat function of Microsoft Team, followed by a more elaborate oral Q&A session after the five videos were shown. After the lunch break, the Supervisory Board meeting took place between consortium members and the ESR representative Luca Vittorio Sartori. This was followed by the four ESR presentations from WP2, again through pre-recorded presentations and followed by a Q&A session. Day 2 of this NWE concluded with three work-package parallel sessions where technical aspects and practicalities were discussed, and further fine-tuned regarding the three SAS Scientific Work Packages.

At the beginning of Day 3, Thursday November 19, the ESRs 9-15 within WP3 presented their research progress to everyone, once again through pre-recorded presentations and followed by a Q&A session. This session was followed by a session regarding the conclusions of this SAS Project Meeting and the SAS Project’s next steps. In the afternoon, interested consortium members and ESRs were able to follow a “Virtual Factory Tour @ AUDI Ingolstadt”. Afterwards, the first Scientific/Technical Training at this online NWE3 took place, more specific the training on **“Safety and Reliability of Embedded Systems”** given by Mario Trapp from Fraunhofer IKS.

On the last day, Friday November 20, the ESRs and those interested attended one more soft-skill training and two more scientific/technical trainings: soft-skill training **“NewWork in Science: agile – what does it means?”** given by Claudia Ricci from Fraunhofer IAO, S/T training **“Brief introduction to AI/ML”** given by Stephan Günnemann from TUM, and S/T training **“Industry 4.0 – what does it actually mean?”** presented by Michael Stiller from Fraunhofer IKS. To close this online NWE3, an interactive workshop took place between the ESRs and the management team (S/T Coordinator, Project Manager, and Communication Manager) where the ESRs were able to evaluate the NWE3, and review the communication strategy, and the intermediate technical meetings among the ESRs.

The online training sessions on November 19-20 were attended by both the SAS ESRs and consortium members interested as well as ESRs from other (ETN & ITN) projects, such as PETER¹, and ETOPIA² as indicated in the following table.

Training Session	SAS participants	Participants outside the SAS Project	Total participants
Safety and Reliability of Embedded Systems	22	13	35
NewWork in Science: agile – what does it means?	18	5	23
Brief introduction to AI/ML	20	6	26
Industry 4.0 – what does it actually mean?	20	7	27

The detailed agenda of this online SAS Network Wide Event III can be found in **Annex 1**.

¹ ETN PETER: <https://etn-peter.eu/>

² ITN ETOPIA: <http://www.etopia-itn.org/>

List of SAS NWE III participants:

[MSCA ETN SAS] NWE III November 17-20, 2020				
Attendance list November 18-19, 2020 - Online plenary meetings through Teams				
First Name	Last Name	Affiliation	November 18	November 19
Ahmad	Adee	Bosch - ESR8	√	√
Haris	Aftab	University of York - ESR13	√	√
Magnus	Albert	SICK AG	√	√
Rob	Alexander	University of York	√	√
Joan	Andreu	Naïo Technologies	-	-
Natalie	Bertels	KU Leuven	-	-
Jeroen	Boydens	KU Leuven	√	√
Richard	Bridgeman	Lloyd's Register EMEA	-	-
Luis-Pedro	Cobos	HORIBA MIRA - ESR14	√	√
Johan	de Jong	MARIN	-	-
Orian	Dheu	KU Leuven - ESR15	√	√
Ehab	el Amam	RH Marine Netherlands BV	√	√
Ivo	Emanuilov	KU Leuven	-	-
Jean-Charles	Fabre	LAAS-CNRS	-	-
Raul Sena	Ferreira	LAAS-CNRS - ESR1	√	√
Simon	Foster	University of York	-	√
Roman	Gansch	Robert Bosch GmbH	-	-
Vibhu	Gautam	University of York - ESR11	√	√
Jérémie	Guiochet	LAAS-CNRS	√	√
Ibrahim	Habli	University of York	√	√
Richard	Hawkins	University of York	-	-
Harita	Joshi	Jaguar Land Rover	-	-
Ralf	Kirchner	Fraunhofer IKS	√	√
Einar	Landre	Equinor	-	-
Lukas	Lanneau	KU Leuven	-	-
Yuan	Liao	Fraunhofer IKS - ESR2	√	√
John	Mcdermid	University of York	-	-
Tianlei	Miao	RH Marine - ESR12	√	√
Peter	Munk	Robert Bosch GmbH	√	√
Eoin	O Carroll	Portable Medical Technology	-	-
Aleksandr	Ovehkin	KU Leuven - ESR5	√	√
Davy	Pissoort	KU Leuven	√	√
Patrick	Ringear	Airbus Operations SAS	-	-
Alastair	Ruddle	HORIBA MIRA	√	√
Luca	Sartori	LAAS-CNRS - ESR6	√	√
Sanjiv	Sharma	Airbus Operations SAS	-	-
Paul	Snauwaert	CNH Industrial	-	-
Stephane	Stroobant	KU Leuven	√	√
Zaid	Tahir	University of York - ESR7	√	√
Hassan	Tirmizi	KU Leuven - ESR9	√	√
Mario	Trapp	Fraunhofer IKS	√	√
Dejana	Ugrenovic	KU Leuven - ESR4	√	√
Peggy	Valcke	KU Leuven	√	√
Jens	Vankeirsbilck	KU Leuven	√	√
Dries	Vanoost	KU Leuven	√	√
Marcel	Verhoeven	CNH Industrial	-	-
Hélène	Waeselynck	LAAS-CNRS	√	√
David	Ward	HORIBA MIRA	√	√
Fang	Yan	University of York - ESR10	√	√
Joao Vitor	Zacchi	Fraunhofer IKS - ESR3	√	√
			32	33

2. Soft-skill Trainings (Tuesday, November 17, 2020)

The first day of this online Network-Wide Event consisted of 2 soft-skill trainings for the ESRs. After a brief welcome and introduction (this PPT presentation can be found in [Annex 2](#)) given by the Project Manager, the ESRs attended the 2 following online soft-skill trainings:

- “*Slidewriting – how to win your audience*” given by Markus Burger (SLIDEWRITING)
- “*Presenting in different contexts*” given by Sabrina Reinhardt (FRIEDERBARTH)

3. ESRs Council (Tuesday, November 17, 2020: 10:00 – 11:00 CET)

All 15 ESRs present at this online Network-Wide Event were able to discuss project-related topics in order to facilitate interaction between them during their ESRs Council which took place on Tuesday, November 17 from 10:00 – 11:00 (CET). They were able to share experiences in their research, as well as discuss specific items regarding training, secondments, and SAS communication.

A president (ESR5 Aleksandr Ovechkin) and secretary (ESR7 Luca Sartori) were appointed to moderate this ESRs Council and to prepare a short report as a basis for communicating to the Supervisory Board that took place on Wednesday, November 18. The report of this ESRs Council can be found in [Annex 3](#).

In the evening on November 17, the ESRs ended the first day of this online Network-Wide Event with an online social activity. There were able to compete with each other through a “Home Office Duel – Online Quiz”.

4. Welcome by Project Coordinator + Progress Report (Wednesday, November 18, 2020: 9:00 – 9:45 CET)

The SAS Project Coordinator officially welcomed all the participants to this online SAS Network-Wide Event III and presented an overall view of the SAS Progress Report. The PPT presentation of this Agenda Item can be found in [Annex 4](#).

Among other practical things, the following aspects regarding the SAS Project implementation were highlighted and aligned with the consortium members and ESRs:

- Overview of the SAS Supervisory Board
- Overview of the recruited and started ESRs
- Overview of the SAS Supervisory Committees
- Update on the ESR Personal Career Development Plan
- Overview of the Training Sessions
- SAS WP1-3 Intermediate Discussions
- Overview of the (planned) first Secondments 2020-2021
- Overview and Update regarding the SAS Communication and Dissemination Outreach
- Overview and Update regarding the SAS Deliverables and Milestones
- Overview of the SAS Technical Report

5. Individual ESRs presentations + Q&A Sessions (November 18-19, 2020)

During 3 sessions at this online NWE, each ESR gave a dedicated presentation of about 15 minutes regarding their current research progress and specific role within the SAS project. Each ESR presentation was a pre-recorded presentation. During each video presentation, there was the opportunity to ask questions through the online chat. The ESRs were monitoring those questions and were able to answer to those questions in a proper way during a Q&A Session (moderated by the Project Coordinator) that was scheduled after each presentation session.

Those 3 “ESR presentation and Q&A” Sessions took place on:

- Wednesday, November 18 from 9:45 – 12:00: ESR 1-5 presentations + Q&A Session
- Wednesday, November 18 from 14:00 – 16:00: ESR 6-9 presentations + Q&A Session
- Thursday, November 19 from 9:00 – 11:45: ESR 10-15 presentations + Q&A Session

All presentations were highly appreciated by the attendees and there was a substantial amount of interaction and questioning during each Q&A Session. The PPT Template regarding the individual ESRs presentations can be found in **Annex 5**.

6. Supervisory Board Meeting

(Wednesday, November 18, 2020: 13:00 – 14:00 CET)

During this part of the online NWE, all SAS Supervisory Board members present, the ESR representative Luca Sartori included, joint together. 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. Impact of COVID-19 crisis on the SAS Project?

- The impact of the COVID-19 crisis on the SAS Project implementation was discussed in-depth during this Supervisory Board Meeting.
- Most ESRs are still working remotely, no full access yet to universities/companies.
- Some ESRs are already able to return to their workplace in a limited occupation.
- Remote supervision still going on.
- Some ESRs: possible delay in PhD progress (> 3 years) due to COVID-19 crisis.

Secondments 2020-2021

- Most of the planned/foreseen secondments in 2020 had to be postponed due to COVID-19 crisis.
- Some ESRs continue to investigate how they can carry out their secondment in the best and most appropriate way, given the fact that there are still many travel restrictions within Europe and the UK, and taking into account the need and added value of their secondment(s) for their further research progress.
Remote, and a combination of remote with physical, secondments are being further investigated between the ESRs, their supervisors and the respective secondment host supervisor(s).
- Each ESR has written his/her Secondments overview and mitigation plan 2020-2021 version 1. This has been submitted to the EC REA at the end of September 2020.
- An updated Secondment Mitigation Plan for each ESR is requested and has to be sent to the Management Team before **the end of January 2021** because this needs to be justified regularly towards the EC REA.

Request for extension of the SAS Project:

With respect to the fact that the COVID-19 crisis is affecting the secondments planning for most of the ESRs and consequently might cause possible delays in research progress in the near future, a request for an extension of the SAS Project has been raised within the SAS Consortium.

The SAS Coordinator explains in detail the consequences and the possible impact of an extension of the SAS Project. One has to point out here that a proper reasoning/mitigation, and a mitigation plan with scientific assessment for every ESR will be required when the SAS Management Team decides to request an extension of the SAS Project towards the EC REA if this should be necessary.

Furthermore, a possible request for extension of the SAS Project needs to be a joint consortium request, which means that every beneficiary will have to support and approve this request.

2. M24 Periodic Report

- SAS Periodic Report 1: **Deadline** for submission is M24 (October 31, 2020) + 60 days = **December 31, 2020**.
- This Periodic Report 1 consists of the 3 following items:
 - Financial Statements (automatically generated)
 - Publishable Summary
 - **Technical Report**

The Technical Report is a narrative report with respect to the SAS Objectives, an Explanation of the work carried out by each WP / ESR, Dissemination & communication, Management, Deviations in Deliverables, Milestones and Secondments, and the possible impact regarding section 2.1 in the SAS Grant Agreement DoA Annex 1 Part B.

The SAS Coordinator explains in detail what input is expected from every ESR and supervisor regarding this **Technical Report**.

Deadline for sending all necessary input regarding the Technical Report to the Management Team has been set on **November 27, 2020**.

After this deadline, additional input/information/feedback from ESRs and supervisors will be requested, if applicable.

3. Exploitation plan

- The SAS Deliverable Exploitation Plan has been submitted on October 30, 2020.
- This Deliverable has been submitted based on the input received from the ESRs with respect to:
 - Which Exploitation steps have you already taken?
 - Which Exploitation steps are planned?
- **This Exploitation Plan will be updated accordingly during the lifetime of the SAS Project.**

4. Feedback ESR Council

- Luca, the ESR representative, pointed out the specific things that were discussed between the ESRs at the ESR Council on November 17, 2020, see also **Annex 3**.

5. Any other business:

Project Deliverables and Milestones:

- An overview was given and discussed regarding the upcoming SAS Deliverables in 2020 and who is the lead beneficiary for each specific Deliverable.
- Special attention was dedicated to the Project Deliverables regarding SAS Special Sessions, Workshops and Tutorials. The outcome regarding these Deliverables is the following:
 - Deliverable 4.14: Tutorial at SAFECOMP 2021
 - Responsible: I. Habli and Z. Tahir (University of York)
 - Deliverable 4.15: Special Session at DSN 2021
 - Responsible: H. Waeselynck, L. Sartori and R. Ferreira (LAAS-CNRS)
 - Deliverable 4.16: Panel Discussion at SAFECOMP 2022
 - Responsible: M. Trapp and J. Zacchi (Fraunhofer)

Update PCDPs: recurring Deliverable

- D4.10 Progress report II of PCDP to Supervisory Board Meeting has been discussed and aligned with SAS consortium members.
- Delivery due date of this Deliverable to be submitted to the EC REA has been set on **November 30, 2020**.

Ethical self-assessment:

- Voluntary Ethics self-assessment by every ESR was written by the NWE2, end of June 2020, except by ESR14 Luis-Pedro.
- Role of the SAS Ethical Board was explained once more.

Next Network-Wide Events:

- **SAS NWE 4 in Wageningen (NL) @ MARIN** is scheduled from **May 3 to 7, 2021**.
- This event will be organized physically (until further notice).
- More information regarding this **SAS NWE4** will be aligned at the SAS Conference Call in February 2021.

- **SAS NWE 5 in Nuneaton (UK) @ HORIBA-MIRA:**
- Proposed period: October/November, 2021.
- Dates will be aligned with the NWE host.

7. WP Parallel Sessions + Overview

(Wednesday, November 18, 2020: 16:00 – 17:30 CET)

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 was put on the specific tasks, scientific deliverables, milestones, and the impact of the COVID-19 outbreak for each ESR and within each WP. The PPT presentation and outcome regarding these WP parallel sessions can be found in [Annex 7](#).

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

8. Conclusions of the meeting + project next steps

(Thursday, November 19, 2020: 12:00 – 12:30 CET)

During this last session of the plenary meetings of this online Network-Wide Event 3, a presentation was given by the SAS Project coordinator regarding the conclusions of this SAS Project Meeting and SAS Project next steps. This PPT presentation can be found in [Annex 8](#).

9. Virtual Factory Tour AUDI Ingolstadt + S/T Training

(Thursday, November 19, 2020: 14:00 – 17:00 CET)

In the afternoon on November 19, interested consortium members and ESRs were able to follow a “Virtual Factory Tour @ AUDI Ingolstadt”, which started at 14:00 (CET).

From 15:00 (CET) on, the first Scientific/Technical Training at this online NWE3 took place, more specific the training on “**Safety and Reliability of Embedded Systems**” given by Mario Trapp from Fraunhofer IKS.

10. Soft-Skill and S/T Trainings + SAS Communication strategy

(Friday, November 20, 2020: 9:30 – 17:00 CET)

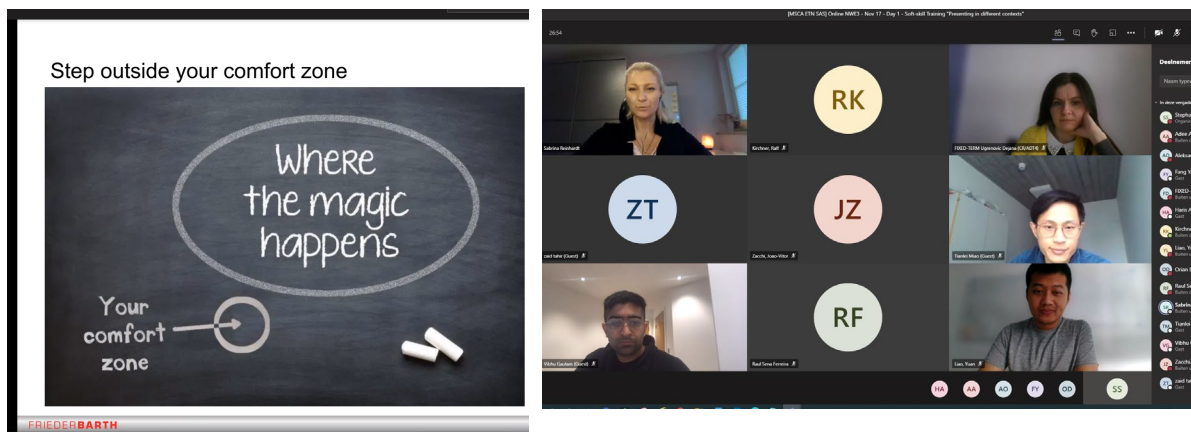
On Friday, November 20, the ESRs and those interested attended the following online Soft-Skill and S/T Trainings on the last day of this online Network-Wide Event 3:

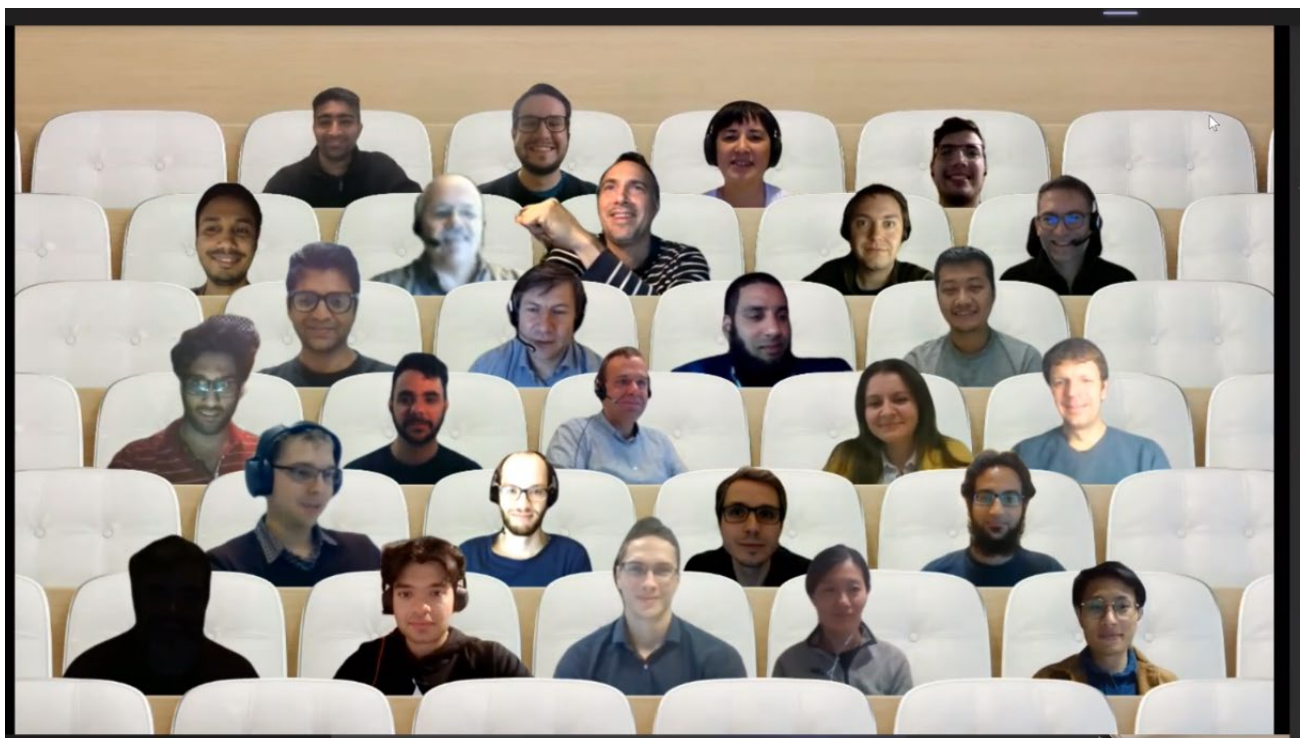
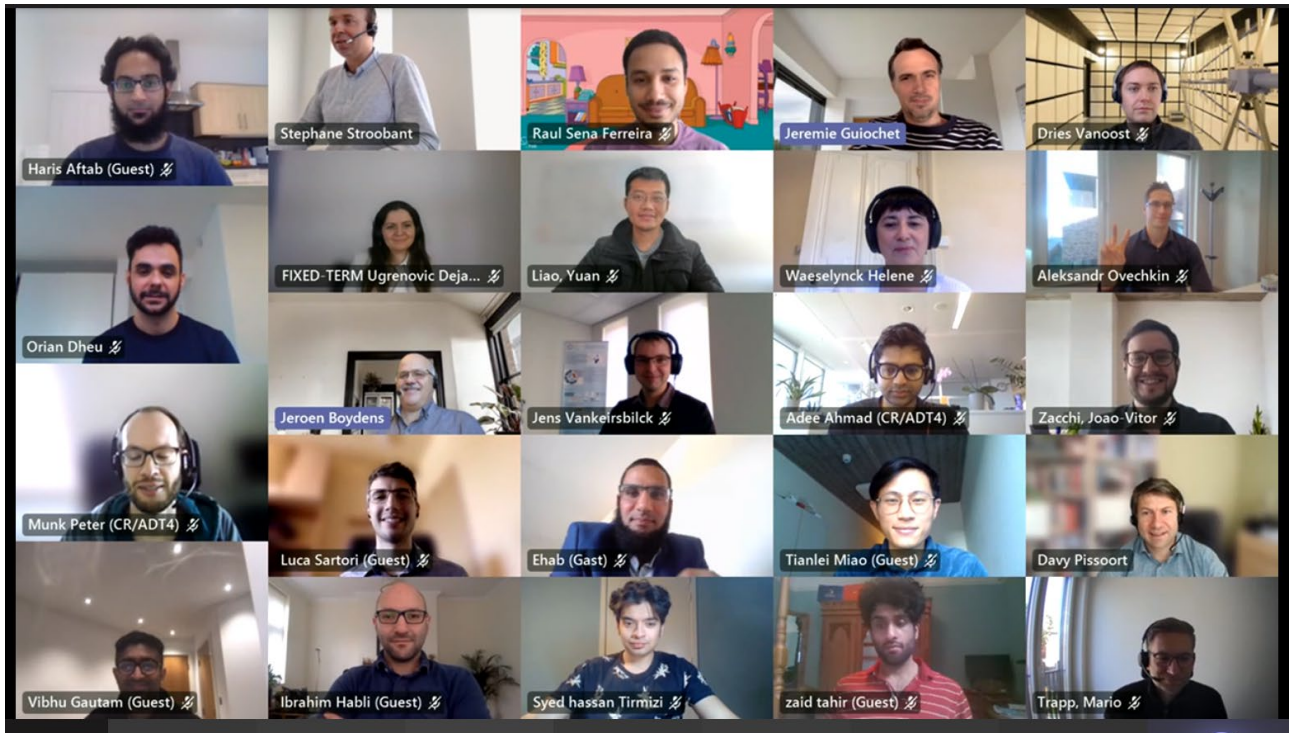
- Soft-skill training: **“NewWork in Science: agile – what does it means?”** given by Claudia Ricci from Fraunhofer IAO
- S/T training: **“Brief introduction to AI/ML”** given by Stephan Günnemann from TUM
- S/T training: **“Industry 4.0 – what does it actually mean?”** given by Michael Stiller from Fraunhofer IKS

To close this online NWE3, an interactive workshop of 1h15 took place between the ESRs and the management team (S/T Coordinator, Project Manager, and Communication Manager) where the ESRs were able to evaluate this NWE3, and review the communication strategy, and the intermediate technical meetings among the ESRs. The PPT Presentation of this interactive workshop can be found in [Annex 9](#).

11. Photos online MSCA ETN SAS Network-Wide Event III

November 17-20, 2020



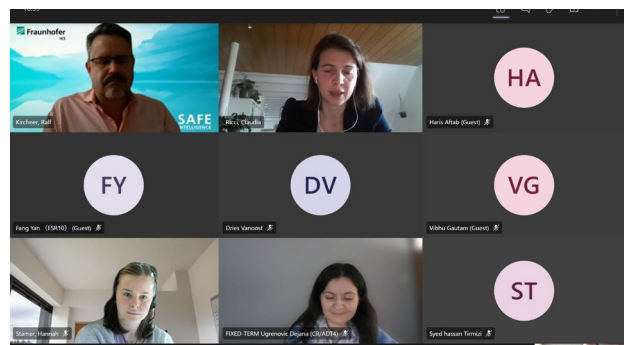
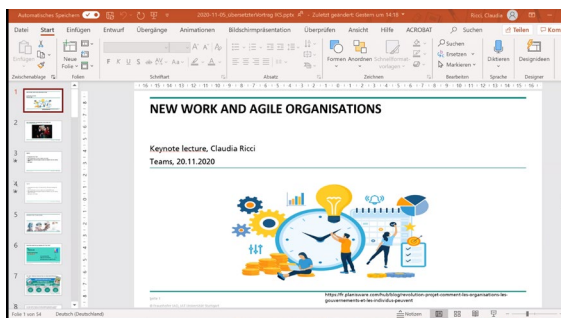


SAFETY OF EMBEDDED SYSTEMS

AN INTRODUCTION TO MODEL-BASED SAFETY ASSURANCE

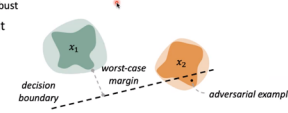
MARIO TRAPP

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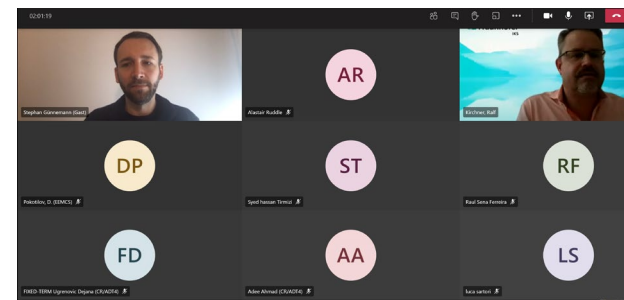
Summary

- ML models, specifically deep neural networks, are extremely powerful
 - However, standard models are not robust
- Robustness** is a crucial requirement to enable the **safe** application of ML in the real world



- Certification strategies provide guarantees
- Different strategies for improving robustness

S. Günemann Introduction to Machine Learning and Robustness 32



Industry 4.0 – what does it actually mean?

Michael Stiller
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SAFE
INTELLIGENCE

Michael

12. Survey SAS NWE III, November 17-20 2020, Microsoft Teams Online Meetings

After the SAS NWE III, two short online surveys have 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 one survey can be found in **Annex 10**.

Survey results (1 to 5 scale with 1 = Poor and 5 = Excellent)

Plenary Sessions (8 Beneficiaries and Partner Organisations (out of 17); 12 ESRs (out of 15))

Subject	Item	Average "Beneficiaries and Partner Organisations"	Average "ESRs"	Overall Average
Content	Progress Report Presentation	4.63	4.67	4.65
	Supervisory Board Meeting	4.5		
	ESR council		4	
	Work Package Parallel Sessions	4.5	4.42	4.46
	ESR Presentations	4.13	4.42	4.28
	Q&A sessions	4.13	4.42	4.28
	Format: ESR Presentation + Q&A sessions	4.38	4.75	4.57
Online Experience	Microsoft Teams as platform	4.75		
	Organization	4.75		
Social Events	Virtual Factory Tour Audi	3.43	2.25	2.84
	Home Office Duel		4.58	

Online Training Sessions (12 ESRs (out of 15))

The online training sessions were open to the SAS ESRs and consortium members interested as well as ESRs from other (ETN & ITN) projects, such as PETER³, and ETOPIA⁴.

Training	Average
Soft-skill training: <i>Slidewriting – how to win your audience</i>	4
Soft-skill training: <i>Presenting in different contexts</i>	4.25
Soft-skill training: <i>New Work in science: agile – what does it mean?</i>	3.83
S/T training: <i>Safety and Reliability of Embedded Systems</i>	4.83
S/T training: <i>Brief introduction to AI/ML</i>	4.75
S/T training: <i>Industry 4.0 – what does it actually mean?</i>	3.58
Overall rating	4.21

Survey comments:

- More time for the supervisory board meeting
- Excellent organization of this online event - very structured, very informative and very professional!
- ESR's were kind of silent during Q&A, really surprises me that this Q&A had to be moderated, you would expect maturity of ESRs. Moderation is good when only one ESR is trying to take control of everything, stating his comments on each and every ESR.
- I found it easier to pay attention to the ESR pitch presentations in this format. I really enjoyed the Q&A sessions.
- Maybe it would be worthwhile to split up the discussion not along the work packages but to group 2-3 talks to have more intense discussions on the individual topics.
- The duration of the ESR Council can be increased.
- I think it is a good idea, people can pose questions in the chat, others could participate into the discussion. It is also good for taking notes.
- The quiz was very fun activity :-)
- I loved this social event idea it was great fun and required team skills which were also why I enjoyed it a lot. Hopefully, we can have a physical NWE to enjoy it more.
- Excellent soft and technical trainings!
- It was good, some things were openly discussed and lot of things have been clarified. Also, it is good idea to have ESR's meeting in between the NWE.

³ ETN PETER: <https://etn-peter.eu/>

⁴ ITN ETOPIA: <http://www.etopia-itn.org/>

13. Table overview with Annexes + Annexes

Annex 1	Detailed Agenda SAS NWE III November 17-20, 2020
Annex 2	PPT Presentation "Welcome" November 17, 2020
Annex 3	Report ESR Council SAS NWE III November 17, 2020
Annex 4	PPT Presentation "Welcome and Progress Report" November 18, 2020
Annex 5	PPT Template "ESR Presentation" November 18-19, 2020
Annex 6	Agenda "Supervisory Board Meeting" November 18, 2020
Annex 7	PPT Presentation "WP1-3 Parallel Sessions + outcome" November 18, 2020
Annex 8	PPT Presentation "Conclusions of the NWE + next steps" November 18, 2020
Annex 9	PPT Presentation "Communication strategy and Intranet PODIO evaluation" November 20, 2020
Annex 10	SAS NWE III Survey Form

Annex 1

Detailed Agenda SAS NWE III November 17-20, 2020

MSCA ETN SAS Network Wide Event 3

November 17 – 20, 2020

Detailed Agenda - Online Meetings

Background: Due to the actual COVID-19 crisis, it is impossible to have a Face2Face Network-Wide Event @Fraunhofer in Munich.

The Agenda on the next 4 pages is to overcome this restriction by shifting to online meetings through **Microsoft Teams** for this Network-Wide Event.

Please note that the timings for the meetings are mentioned in **CET!**



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TUESDAY 17.11.2020 – Day 1

ESRs

Time (CET)	Agenda Item	Participants	Teams-Link
9:30 - 10:00	Welcome by Project Manager	ESRs, PM	Meeting link
10:00 - 11:00	ESR Council	ESRs	Separate link
11:00 - 12:30	Soft-skill Training: <i>“Slidewriting – how to win your audience”</i> (Dr. Markus Burger, SLIDEWRITING) 1h training + 30 min. questions & discussion	ESRs	Meeting link
12:30 - 13:30	Lunch break		
13:30 - 15:00	Soft-skill Training: <i>“Presenting in different contexts”</i> Part 1: Authentic and unerring appearance at industrial clients (Sabrina Reinhardt, FRIEDERBATH)	ESRs	Meeting link
15:00 - 15:30	Practical exercise: short pitch presentation	ESRs	
15:30 - 17:00	Soft-Skill Training: <i>“Presenting in different contexts”</i> Part 2: How to present and reach goals confidently in scientific conferences (Sabrina Reinhardt, FRIEDERBATH)	ESRs	
17:30 - 18:30	ESR Social Activity: Home Office Duell (engl.): Online - Quiz	ESRs	Will be sent per mail by Lisa Heinick (Eventflotte)

WEDNESDAY 18.11.2020 – Day 2

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:00 - 9:45	Welcome and Progress Report by Project Coordinator	All	Meeting link
9:45 - 11:00	ESR1-5 presentations (15 min. each)	All	
11:00 - 11:15	Break		
11:15 - 12:00	Q&A Session ESR1-5 presentations	All	
12:00 - 13:00	Lunch break		
13:00 - 14:00	Supervisory Board Meeting	Consortium + Luca	Separate link
14:00 - 15:00	ESR6-9 presentations (15 min. each)	All	Meeting link
15:00 - 15:15	Break		
15:15 - 16:00	Q&A Session ESR6-9 presentations	All	
16:00 - 17:00	WP Parallel Sessions: 3 S/T Work Packages (one meeting/WP)		
	WP1	ESRs + (co-) supervisors WP1	Meeting link WP1
	WP2	ESRs + (co-) supervisors WP2	Meeting link WP2
	WP3	ESRs + (co-) supervisors WP3	Meeting link WP3
17:00 - 17:30	WP Overview Parallel Sessions: Summary	All	Meeting link

THURSDAY 19.11.2020 – Day 3

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:00 - 10:30	ESR10-15 presentations (15 min. each)	All	Meeting link
10:30 - 10:45	Break		
10:45 - 11:45	Q&A Session ESR10-15 presentations	All	
12:00 - 12:30	Conclusions of the meeting + project next steps	All	
12:30 - 14:00	Lunch break		
14:00 - 14:45	“Live at the factory – live & chat” Virtual Factory Tour AUDI Ingolstadt	ESRs and those interested	Link sent per mail by AUDI
14:45 - 15:00	Break		
15:00 - 17:00	S/T Training: “Safety and Reliability of Embedded Systems” (apl. Prof. Dr. habil. Mario Trapp, Fraunhofer IKS)	ESRs and those interested	Meeting link

FRIDAY 20.11.2020 – Day 4

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:30 - 11:00	Soft-skill Training: <i>“NewWork in Science: agile – what does it mean?”</i> (Claudia Ricci, Fraunhofer IAO) 1h training + 30 min. questions & discussion	ESRs and those interested	Meeting link
11:00 - 11:15	Break		
11:15 - 12:45	S/T Training: <i>“Brief introduction to AI/ML”</i> (Prof. Dr. Stephan Günnemann, TUM) 1h training + 30 min. questions & discussion	ESRs and those interested	
12:45 - 13:45	Lunch break		
13:45 - 15:15	S/T Training: <i>“Industry 4.0 – what does it actually mean?”</i> (Michael Stiller, Fraunhofer IKS) 1h training + 30 min. questions & discussion	ESRs and those interested	
15:15 - 15:45	Break		
15:45 - 17:00	Closing session with ESRs: communication strategy, PODIO and Network-Wide Event 3 evaluation	ESRs, CM and PM	

Annex 2

PPT Presentation “Welcome by Project Manager” November 17, 2020



Safer Autonomous Systems



EU H2020 MSCA-ETN SAS
ONLINE NETWORK-WIDE EVENT 3
NOVEMBER 17-20, 2020

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

Tuesday, November 17, 2020: Day 1

1



Safer Autonomous Systems

2

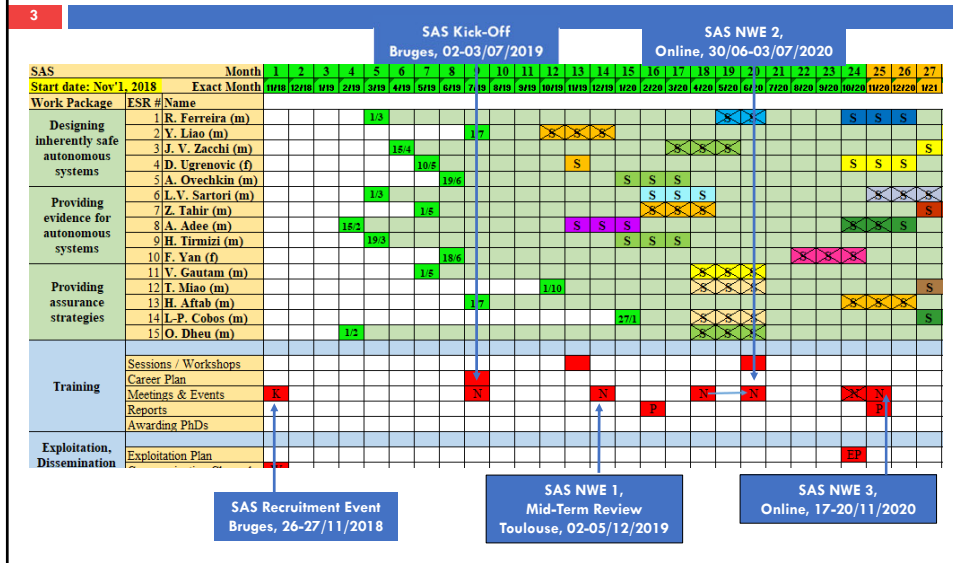
Welcome by Project Manager

9:30-10:00 (CET)

2

SAS Gantt Chart

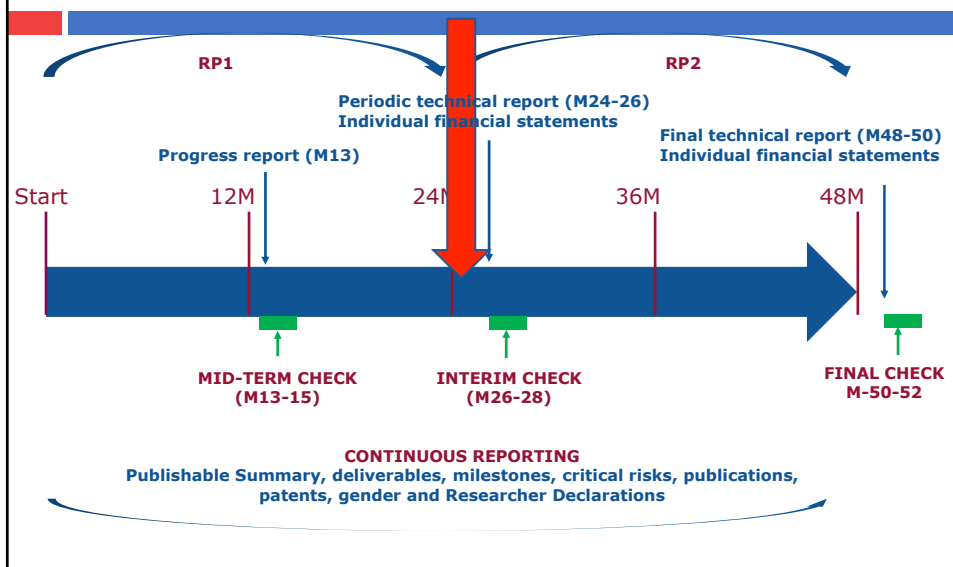
(M1 = Nov 2018) – currently M25/48



3

SAS Project Timeline

November 2020 = Month 25



4

SAS Network-Wide Event 3

Agenda (1) – Online Meetings

5

TUESDAY 17.11.2020 – Day 1
ESRs

Time (CET)	Agenda Item	Participants	Teams-Link
9:30 - 10:00	Welcome by Project Manager	ESRs, PM	Meeting link
10:00 - 11:00	ESR Council	ESRs	Separate link
11:00 - 12:30	Soft-skill Training: <i>"Slidewriting – how to win your audience"</i> (Dr. Markus Burger, SLIDEWRITING) 1h training + 30 min. questions & discussion	ESRs	Meeting link
12:30 - 13:30	Lunch break		
13:30 - 15:00	Soft-skill Training: <i>"Presenting in different contexts"</i> Part 1: Authentic and unerring appearance at industrial clients (Sabrina Reinhardt, FRIEDERBATH)	ESRs	Meeting link
15:00 - 15:30	Practical exercise: short pitch presentation	ESRs	
15:30 - 17:00	Soft-Skill Training: <i>"Presenting in different contexts"</i> Part 2: How to present and reach goals confidently in scientific conferences (Sabrina Reinhardt, FRIEDERBATH)	ESRs	
17:30 - 18:30	ESR Social Activity: Home Office Duell (engl.): Online - Quiz	ESRs	Will be sent per mail by Lisa Heinick (Eventflotte)

MSCA-ETN SAS NWE 3

November 17-20, 2020

5

SAS Network-Wide Event 3

Agenda (2) – Online Meetings

6

WEDNESDAY 18.11.2020 – Day 2
ESRs + Supervisors & their colleagues + representatives of the Partner Organizations + Management Support Team

Time (CET)	Agenda Item	Participants	Teams-Link
9:00 - 9:45	Welcome and Progress Report by Project Coordinator	All	Meeting link
9:45 - 11:00	ESR1-5 presentations (15 min. each)	All	
11:00 - 11:15	Break		
11:15 - 12:00	Q&A Session ESR1-5 presentations	All	
12:00 - 13:00	Lunch break		
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15:00 - 15:15	Break		
15:15 - 16:00	Q&A Session ESR6-9 presentations	All	
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		WP1 ESRs + (co-) supervisors WP1	Meeting link WP1
		WP2 ESRs + (co-) supervisors WP2	Meeting link WP2
		WP3 ESRs + (co-) supervisors WP3	Meeting link WP3
17:00 - 17:30	WP Overview Parallel Sessions: Summary	All	Meeting link

MSCA-ETN SAS NWE 3

November 17-20, 2020

6

SAS Network-Wide Event 3

Agenda (3) – Online Meetings



7

THURSDAY 19.11.2020 – Day 3

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:00 - 10:30	ESR10-15 presentations (15 min. each)	All	Meeting link
10:30 - 10:45	Break		
10:45 - 11:45	Q&A Session ESR10-15 presentations	All	
12:00 - 12:30	Conclusions of the meeting + project next steps	All	
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15:00 - 17:00	S/T Training: <i>"Safety and Reliability of Embedded Systems"</i> (apl. Prof. Dr. habil. Mario Trapp, Fraunhofer IKS)	ESRs and those interested	Meeting link

MSCA-ETN SAS NWE 3

November 17-20, 2020

7

SAS Network-Wide Event 3

Agenda (4) – Online Meetings



8

FRIDAY 20.11.2020 – Day 4

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:30 - 11:00	Soft-skill Training: <i>"NewWork in Science: agile – what does it mean?"</i> (Claudia Ricci, Fraunhofer IAO) 1h training + 30 min. questions & discussion	ESRs and those interested	Meeting link
11:00 - 11:15	Break		
11:15 - 12:45	S/T Training: <i>"Brief Introduction to AI/ML"</i> (Prof. Dr. Stephan Günemann, TUM) 1h training + 30 min. questions & discussion	ESRs and those interested	
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15:15 - 15:45	Break		
15:45 - 17:00	Closing session with ESRs: communication strategy, PODIO and Network-Wide Event 3 evaluation	ESRs, CM and PM	

MSCA-ETN SAS NWE 3

November 17-20, 2020

8

SAS NWE 3 – Online Meetings

9

- **All the timings for the meetings are mentioned in CET.**
- The online meetings are through **Microsoft Teams**.
- Please foresee a good internet connection for yourself and also turn on your webcam.
 - “direct contact” between all consortium members and ESRs despite the online set-up.

9

SAS NWE 3 – ESR presentations

10

- About **15** mins/ESR
- At this Online NWE3 – Video recorded ESR presentations.
- **Please keep your own presentation in hand and monitor questions/remarks mentioned in the chat during your presentation.**
- After the presentations within each WP, a Q&A Session is foreseen:
 - Interaction with the respective ESRs and other consortium members regarding the ESR presentations and research progress.

10

SAS NWE 3 – ESR council

11

- **Tuesday, November 17 > 10:00 – 11:00 (CET)**
- Instructions + Template have been sent out:
 - ▣ Facilitate Interaction between ESRs.
 - ▣ Discuss Project related topics, secondment issues.
 - ▣ Experiences related to training and communication.
 - ▣ ESR Council is held at each SAS NWE.
 - ▣ President is the ESR representative for each council.
 - ▣ One Secretary appointed for each council.
 - ▣ ESR representative reports to the Supervisory Board.

MSCA-ETN SAS NWE 3

November 17-20, 2020

11

SAS WP1-3 Parallel Sessions – Intermediate Discussion

12

- Intermediate SAS WP Discussions IV and V through short Skype Meeting to discuss:
 - ▣ Progress in research
 - ▣ Deliverables and milestones
 - ▣ Possible collaboration
- WP1: **September 10, and October 15**
- WP2: **September 24, and October 22**
- WP3: **September 16, and November 5**

MSCA-ETN SAS NWE 3

November 17-20, 2020

12

(First) Secondments (1)

13

- **SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021:**
 - Planned/foreseen secondments for 2020-2021
 - Proposed changes and corresponding justification for the changes with mitigation plan
 - **Version 1** has been submitted to the EC REA, see next 2 slides.

MSCA-ETN SAS NWE 3

November 17-20, 2020

13

(First) Secondments (2)

14

SAS ESRs 1-8 - Secondments Plan 2020-2021 – Proposed Timings - Version 1

ESR	Secondment 1 (2020-2021)			Secondment 2 (2020-2021)		
	Location	Timing	Status/Remarks	Location	Timing	Status/Remarks
ESR1 Raul S. Ferreira	Fraunhofer (GE)	July 2020 + Nov'20 - Jan/'21	Still pending, partially remotely/physical	Jaguar Land Rover (UK)	May - July 2021	Pending, partially remotely/physical
ESR2 Yuan Liao	LAAS-CNRS (FR)	Q1 2021	Specific timing still uncertain at the moment	---	---	---
ESR3 João V. Zacchi	UoY (UK)	Q1 2021	Physical secondment uncertain at the moment	---	---	---
ESR4 Dejana Ugrenovic	Bosch (GE)	Oct - Dec 2020	Foreseen as planned	---	---	---
ESR5 Aleksandr Ovechkin	UoY (UK)	Jan - March 2020	Interrupted due to COVID-19, no further impact	CNHi (BE)	May - July 2021	Foreseen as planned
ESR6 Luca V. Sartori	Naïo (FR)	Feb - April 2020	Half of the secondment was done in smart-working/home-office	SICK AG (GE)	Jan '21 - April '21	Foreseen as planned, in case of lockdown, secondment in smart working/home-office
ESR7 Zaid Tahir	LAAS-CNRS (FR)	Apr - July 2021	If physical presence not possible, then virtually	Horiba-MIRA (UK)	Winter of 2021	Specific timing still to be decided
ESR8 Ahmad Adeeb	RH Marine (NL)	Nov - Dec 2020	Still feasible at the moment	---	---	---

14

(First) Secondments (3)

15

SAS ESRs 9-15 - Secondments Plan 2020-2021 – Proposed Timings - Version 1

ESR	Secondment 1 (2020-2021)			Secondment 2 (2020-2021)		
	Location	Timing	Status/Remarks	Location	Timing	Status/Remarks
ESR9 Hassan Tirmizi	UoY (UK)	Jan - March 2020	Interrupted due to COVID-19, possible restart	RH Marine	June - August 2021	Foreseen as planned
ESR10 Fang Yan	Equinor (NO)	Early 2021	Specific timing still uncertain at the moment	---	---	---
ESR11 Vibhu Gautam	Bosch (GE)	???	Still uncertain at the moment due to COVID-19 and also visa restrictions	---	---	---
ESR12 Tianlei Miao	KU Leuven (BE)	Sep - Dec 2020	Foreseen as planned	MARIN (NL)	Summer 2021	Specific timing still to be decided
ESR13 Harris Afrab	LAAS-CNRS (FR)	Feb - April 2021	If physical presence not possible, then virtually	PMT (IE)	Sep - Dec 2021	Specific timing still to be decided
ESR14 Luis P. Cobos	KU Leuven (BE)	April - July 2021	New secondment timing feasible	---	---	---
ESR15 Orlan Dheu	UoY (UK)	???	Still uncertain at the moment due to COVID-19 and travel restrictions	---	---	---

15

(First) Secondments (4)

16

- **Update SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021 – version 1:**
 - Updated secondments plan
 - Modified secondment timings with reasoning + mitigation
 - Alignment with (co-)supervisors + respective secondment host supervisor(s).
- **Version 2** of this secondments overview and mitigation plan: **January 31, 2021.**

16

(First) Secondments (5)

17

- After each Secondment a Secondment Report needs to be written by the ESR, and signed by the ESR and the Secondment Hosting Supervisor. Template is available via Podio.
- **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 NWE 3

November 17-20, 2020

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SAS Paper Archiving System

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- **ALL SAS related published papers must be uploaded through ETN SAS Papers !!!**
(Open Access: via OpenAIRE, other repositories,...)
- <http://papers.etn-sas.eu/user/login>
- Link with **SAS Website:**

HOME PROJECT WORK PACKAGES TEAM CONSORTIUM EVENTS NEWS COMMUNICATIONS

Home / Communications / Publications

Publications

ETN SAS Journal papers

- O. Dheu, C. Ducuing, P. Valke, The Emperor's new clothes: a roadmap for conceptualizing the New Vehicle, *Revue Transfert*, n°75, 2020, 12-19, [download](#)

ETN SAS Conference papers

- L. V. Sartori, Simulation-Based Testing to Improve Safety of Autonomous Robots, *2019 IEEE International Symposium on Software Reliability Engineering Workshops (SISREW)*, 2019, DOI:10.1109/ISSREW.2019.00053, [download](#)
- Roman Gansch, Ahmad Ade, System Theoretic View on Uncertainties, *Design, Automation and Test in Europe Conference and Exhibition, 2020*, DOI:10.23919/DAT4885-2020.9116472, [download](#)
- Zaid Tahir, Rob Alexander, Coverage based testing for V&V and Safety Assurance of Self-driving Autonomous Vehicles: A Systematic Literature Review, *2020 IEEE International Conference on Artificial Intelligence Testing (AITest)*, 3-6 Aug. 2020, 2020, DOI:10.1109/ATTEST49225.2020.00011, [download](#)

MSCA-ETN SAS NWE 3

November 17-20, 2020

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**Safer
Autonomous
Systems**

19

Periodic Report

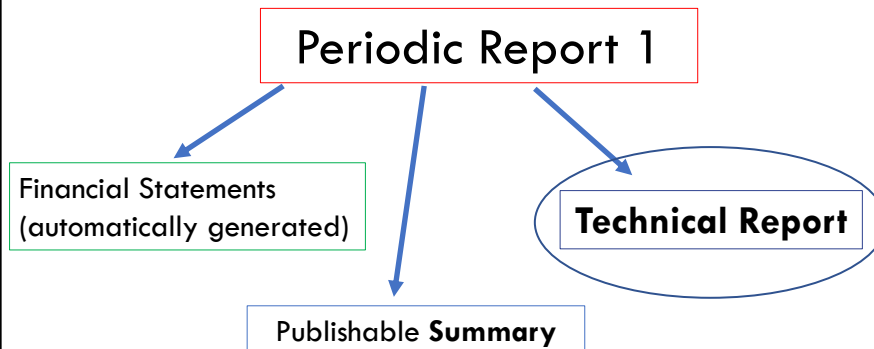
19



SAS Periodic Report 1

20

- **Deadline:** M24 (October 31, 2020) + 60 days = **December 31, 2020.**



MSCA-ETN SAS NWE 3

November 17-20, 2020

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SAS Technical Report

21

- Reporting period covers till M24 = 31/10/2020

Technical Report (first 24 months)

Narrative report:

1. Objectives
2. Explanation of the work by each WP/ESR
3. Dissemination & communication
4. Management
5. Deliverables-Secondments/Deviations
6. Impact

Continuous reporting on
Tabs in the EC Portal

November 17-20, 2020

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SAS Technical Report

22

- **Narrative report:** All necessary information and respective templates have been sent to ESRs + (co-)supervisors.
- Please follow-up adequately and consequently regarding the input that we are expecting from all of you.
- **Deadline for sending all necessary input to Stéphane: November 27, 2020.**
- **After November 27: additional input/information/feedback, if applicable.**

MSCA-ETN SAS NWE 3

November 17-20, 2020

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Safer Autonomous Systems

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ESR Council

10:00-11:00 (CET)

23



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24

**Soft-skill Training:
Slidewriting – how to win your audience**

11:00-12:30 (CET)

24



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25

**Soft-skill Training:
Presenting in different contexts**

13:30-17:00 (CET)

25



Safer Autonomous Systems

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ESR Social Activity

17:30-18:30 (CET)

26

Annex 3

Report ESR Council SAS NWE III November 17, 2020

MSCA ETN SAS**NWE3****November 17, 2020, 10:00 – 11:00 (CET)****Online Meeting through Microsoft Teams****REPORT of ESR Researcher Council MSCA ETN SAS NWE3**

President (1 ESR): Aleksandr Ovechkin

Secretary (1 ESR): Luca Vittorio Sartori

Discussion topics

- 1) **The report from the previous ESR Council** on June 30, 2020, has been **approved** without objections.
- 2) **Elections: Raul** (ESR1) is the new ESR representative.
- 3) **The biggest issue** that we have encountered: staying in the bubble of your topic. During COVID-19 we stayed more isolated. To get out of the bubble, start talking to other researchers, even outside your field. Be open-minded to accept critics and to the possibility that maybe you committed some mistakes, because everybody commits mistakes and all research work is always incomplete.
- 4) Training proposal: training about “Main tips to get your paper accepted”. Note: Publishing paper is an art. We need to train about how to write a good paper and how to do good research.
- 5) We should have a **public GitHub** where we will put the papers and the code. GitHub is not so relevant for Aleksandr, Luis, and Hassan. It could be useful for grouping guides and examples about the software that we are using, e.g., CARLA simulator. Bosch does not want GitHub, so an alternative could be GitLab or SVN. **Raul** is in charge of GitHub/GitLab/SVN.

Check if KU Leuven has a paying GitHub/GitLab/SVN account, then we can create a poll and vote the best service. If it is GitHub, we cannot have code from Ahmad or Bosch. We must also send papers just when it is possible to put them in open access.



- 6) **SAS ResearchGate:** Luis Pedro Cobos is in charge. A ResearchGate group will be created, and then an invitation will be sent to all the ESRs. This document should contain ESRs' papers, embargo dates.
- 7) **Blog.** The people in charge of the blog have to be changed (João Vitor Zacchi, Ahmad Adeo, Orian Dheu). We will run a vote in the next days. Remind ESRs to propose more blogs on the blog board. We must write more technical posts.
A blog regarding the NWE III online will be written by ESR3 (João Vitor Zacchi).
- 8) **Ask Management Team** to change **SAS LinkedIn** from person to page. At this moment it is created as if it was a real person "SAS", while it should be changed to a group.
- 9) **FB/Twitter** have low reach because their target audience is not the same as the SAS audience. Suggestions to reach more audience and a FB/Twitter communication plan will be worked out within 1 month after NWE.
- 10) Most **secondments** will be subjected to change regarding the starting date and in place/home-office. Some could also change the company if it is not feasible. Vibhu, Orian, and Joao are the ones with more issues. Try to maintain physical secondments if applicable.
Vibhu has to go to Bosch, but he needs to receive the state-of-the-art ML techniques, so he is seeing IP issues. Bosch needs to provide use cases and case studies. They are collaborating with York, but they are not sharing with him.
- 11) **WPs:** Each WP should be managed differently. Have brainstorming sessions in WP1 and WP3 too. WP should have less frequency for some WPs, maybe? Use some WP to do core code-based training (Vibhu)? Some ESRs disagree and think that the WP the same month of the NWE is not useful.
WP suggestions will be discussed during the "Closing session with ESRs".
- 12) **Collaboration** between ESRs are still being investigated, we will arrange more meetings to discuss the common topics (outside the WPs meetings).



Annex 4

PPT Presentation “Welcome and Progress Report” November 18, 2020



Safer Autonomous Systems



EU H2020 MSCA-ETN SAS
ONLINE NETWORK-WIDE EVENT 3
NOVEMBER 17-20, 2020

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

Wednesday, November 18, 2020: Day 2

1



Safer Autonomous Systems

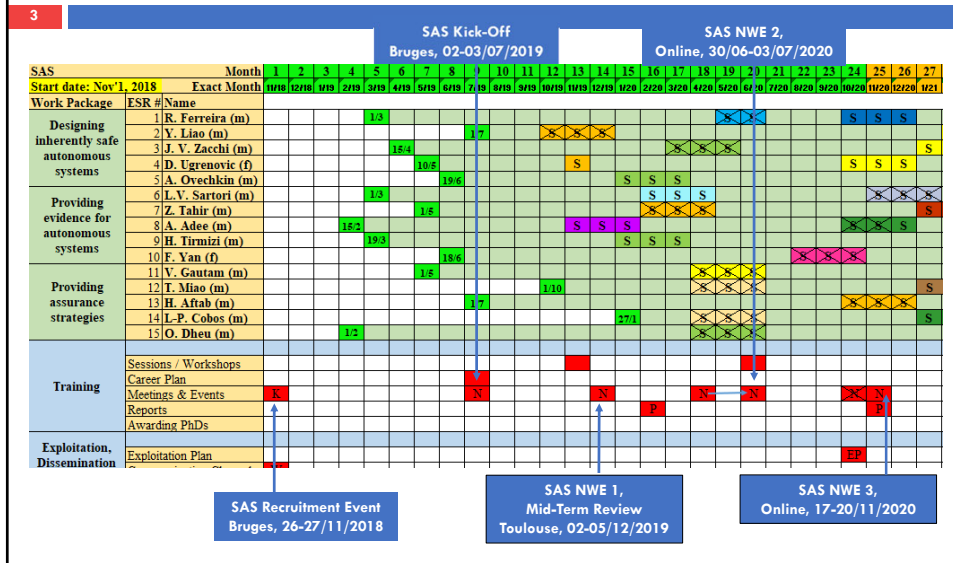
2

Welcome and Progress Report by Project Coordinator

9:00-9:45 (CET)

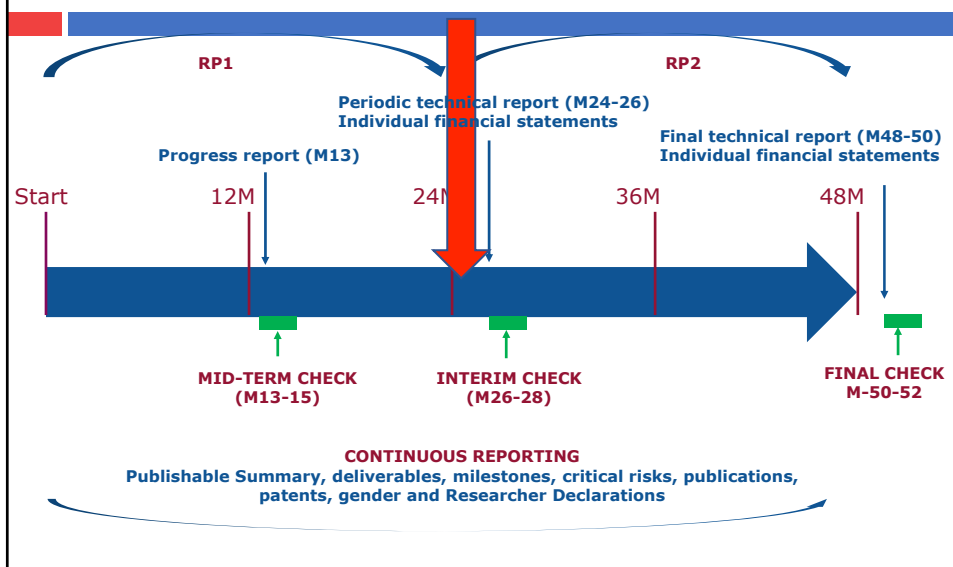
2

SAS Gantt Chart (M1 = Nov 2018) – currently M25/48



3

SAS Project Timeline November 2020 = Month 25



4

SAS Network-Wide Event 3

Agenda (1) – Online Meetings



5

TUESDAY 17.11.2020 – Day 1
ESRs

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12:30 - 13:30	Lunch break		
13:30 - 15:00	Soft-skill Training: <i>"Presenting in different contexts"</i> Part 1: Authentic and unerring appearance at industrial clients (Sabrina Reinhardt, FRIEDERBATH)	ESRs	Meeting link
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15:30 - 17:00	Soft-Skill Training: <i>"Presenting in different contexts"</i> Part 2: How to present and reach goals confidently in scientific conferences (Sabrina Reinhardt, FRIEDERBATH)	ESRs	
17:30 - 18:30	ESR Social Activity: Home Office Duell (engl.): Online - Quiz	ESRs	Will be sent per mail by Lisa Heinick (Eventflotte)

MSCA-ETN SAS NWE 3

November 17-20, 2020

5

SAS Network-Wide Event 3

Agenda (2) – Online Meetings



6

WEDNESDAY 18.11.2020 – Day 2
ESRs + Supervisors & their colleagues + representatives of the Partner Organizations + Management Support Team

Time (CET)	Agenda Item	Participants	Teams-Link
9:00 - 9:45	Welcome and Progress Report by Project Coordinator	All	Meeting link
9:45 - 11:00	ESR1-5 presentations (15 min. each)	All	
11:00 - 11:15	Break		
11:15 - 12:00	Q&A Session ESR1-5 presentations	All	
12:00 - 13:00	Lunch break		
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17:00 - 17:30	WP Overview Parallel Sessions: Summary	All	Meeting link

MSCA-ETN SAS NWE 3

November 17-20, 2020

6

SAS Network-Wide Event 3

Agenda (3) – Online Meetings

7

THURSDAY 19.11.2020 – Day 3

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:00 - 10:30	ESR10-15 presentations (15 min. each)	All	Meeting link
10:30 - 10:45	Break		
10:45 - 11:45	Q&A Session ESR10-15 presentations	All	
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15:00 - 17:00	S/T Training: <i>"Safety and Reliability of Embedded Systems"</i> (apl. Prof. Dr. habil. Mario Trapp, Fraunhofer IKS)	ESRs and those interested	Meeting link

MSCA-ETN SAS NWE 3

November 17-20, 2020

7

SAS Network-Wide Event 3

Agenda (4) – Online Meetings

8

FRIDAY 20.11.2020 – Day 4

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:30 - 11:00	Soft-skill Training: <i>"NewWork in Science: agile – what does it mean?"</i> (Claudia Ricci, Fraunhofer IAO) 1h training + 30 min. questions & discussion	ESRs and those interested	Meeting link
11:00 - 11:15	Break		
11:15 - 12:45	S/T Training: <i>"Brief introduction to AI/ML"</i> (Prof. Dr. Stephan Günemann, TUM) 1h training + 30 min. questions & discussion	ESRs and those interested	
12:45 - 13:45	Lunch break		
13:45 - 15:15	S/T Training: <i>"Industry 4.0 – what does it actually mean?"</i> (Michael Stiller, Fraunhofer IKS) 1h training + 30 min. questions & discussion	ESRs and those interested	
15:15 - 15:45	Break		
15:45 - 17:00	Closing session with ESRs: communication strategy, PODIO and Network-Wide Event 3 evaluation	ESRs, CM and PM	

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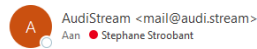
8

Virtual Factory Tour AUDI Ingolstadt

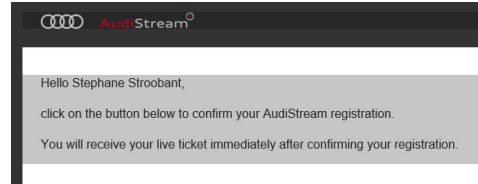
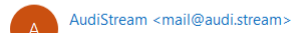
9

- **Thursday, November 19: 14:00-14:45 (CET)**
- Registration link received from mail@audi.stream

Please confirm your registration with AudiStream



Your AudiStream live ticket



- **Please check that you have received the registration link and the AudiStream live ticket after your registration.**

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SAS NWE 3 – Online Meetings

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- **All the timings for the meetings are mentioned in CET.**
- The online meetings are through **Microsoft Teams**.
- Please foresee a good internet connection for yourself and also turn on your webcam.
 - “direct contact” between all consortium members and ESRs despite the online set-up.

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SAS NWE 3 – ESR presentations

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- About **15** mins/ESR
- At this Online NWE3 – Video recorded ESR presentations.
- Questions/remarks can be asked in the chat during the video presentations.
- After the presentations within each WP, a Q&A Session is foreseen:
 - ▣ Interaction with the respective ESRs and other consortium members regarding the ESR presentations and research progress.
- PPT Template and instructions have been sent to ESRs.
 - ▣ In-depth presentation regarding research/scientific progress.
 - ▣ Update regarding scientific dissemination, deliverable and milestone.

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SAS Supervisory Board

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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 IKS)
 - 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. Segueineau (Naïo)
 - P. Ringeard (Airbus)
 - J.H. de Jong (Marin)
 - E. O'Carroll (PMT)
- **Luca Sartori** as the ESR representative

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Recruited and started ESRs (15/15)

13



Raul Sena Ferreira
ESR1 (LAAS-CNRS)
[more about Raul](#)



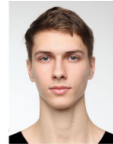
Yuan Liao
ESR2 (Fraunhofer)
[more about Yuan](#)



Joao Vitor Zacchi
ESR3 (Fraunhofer)
[more about Joao](#)



Dejana Ugrenovic
ESR4 (KU Leuven)
[more about Dejana](#)



Aleksandr Ovechkin
ESR5 (KU Leuven)
[more about Aleksandr](#)



Luca Vittorio Sartori
ESR6 (LAAS-CNRS)
[more about Luca](#)



Zaid Tahir
ESR7 (University of York)
[more about Zaid](#)



Ahmad Adeeb
ESR8 (Bosch)
[more about Ahmad](#)

13

Recruited and started ESRs (15/15)

14



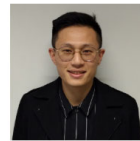
Hassan Tirmizi
ESR9 (KU Leuven)
[more about Hassan](#)



Fang Yan
ESR10 (University of York)
[more about Fang](#)



Vibhu Gautam
ESR11 (University of York)
[more about Vibhu](#)



Tianlei Miao
ESR12 (RH Marine)
[more about Tianlei](#)



Haris Aftab
ESR13 (University of York)
[more about Haris](#)



Luis Pedro Cobos Yelavives
ESR14 (Horiba-Mira)
[more about Luis](#)



Orian Dheu
ESR15 (KU Leuven)
[more about Orian](#)

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Personal Career Development Plan

PCDP



15

- All recruited ESRs developed, in dialogue with their supervisors, a Personal Career Development Plan (PCDP).
- 15 signed updated PCDPs have been uploaded to the participants portal (D4.9 PCDP Report I) on **August 31, 2020**.
- **Progress reports of the PCDPs** to Supervisory Board are a 6 monthly recurring Deliverable.
- D4.10 Progress Report II of PCDP to Supervisory Board Meeting: **Delivery Due Date: November 30, 2020**.
- **So far 10 updated PCDPs have been sent to the Management Team.**

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Training



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- 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 project
- Network-wide trainings scheduled during the NWE3 (M25):
 - ▣ **Soft-skill Training I: Slidewriting – how to win your audience**
 - ▣ **Soft-skill Training II: Presenting in different contexts**
 - ▣ **Soft-skill Training III: NewWork in Science: agile – what does it mean?**
 - ▣ **S/T Training: Safety and Reliability of Embedded Systems (M. Trapp, Fraunhofer IKS)**
 - ▣ **S/T Training: Brief introduction to AI/ML (S. Günemann, TUM)**
 - ▣ **S/T Training: Industry 4.0 – what does it actually mean? (M. Stiller, Fraunhofer IKS)**

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SAS WP1-3 Parallel Sessions – Intermediate Discussion



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- Intermediate SAS WP Discussions IV and V through short Skype Meeting to discuss:
 - ▣ Progress in research
 - ▣ Deliverables and milestones
 - ▣ Possible collaboration
- WP1: **September 10, and October 15**
- WP2: **September 24, and October 22**
- WP3: **September 16, and November 5**

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(First) Secondments (1)



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- **SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021:**
 - ▣ Planned/foreseen secondments for 2020-2021
 - ▣ Proposed changes and corresponding justification for the changes with mitigation plan
 - ▣ **Version 1** has been submitted to the EC REA, see next 2 slides.

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(First) Secondments (2)

19

SAS ESRs 1-8 - Secondments Plan 2020-2021 – Proposed Timings - Version 1

ESR	Secondment 1 (2020-2021)			Secondment 2 (2020-2021)		
	Location	Timing	Status/Remarks	Location	Timing	Status/Remarks
ESR1 Raul S. Ferreira (GE)	Fraunhofer (GE)	July 2020 + Nov'20 - Jan/'21	Still pending, partially remotely/physical	Jaguar Land Rover (UK)	May - July 2021	Pending, partially remotely/physical
ESR2 Yuan Liao	LAAS-CNRS (FR)	Q1 2021	Specific timing still uncertain at the moment	---	---	---
ESR3 João V. Zacchi	UoY (UK)	Q1 2021	Physical secondment uncertain at the moment	---	---	---
ESR4 Dejana Ugrenovic	Bosch (GE)	Oct - Dec 2020	Foreseen as planned	---	---	---
ESR5 Aleksandr Ovechkin	UoY (UK)	Jan - March 2020	Interrupted due to COVID-19, no further impact	CNHi (BE)	May - July 2021	Foreseen as planned
ESR6 Luca V. Sartori	Naiio (FR)	Feb - April 2020	Half of the secondment was done in smart- working/home-office	SICK AG (GE)	Jan '21 - April '21	Foreseen as planned, in case of lockdown, secondment in smart working/home-office
ESR7 Zaid Tahir	LAAS-CNRS (FR)	Apr - July 2021	If physical presence not possible, then virtually	Horiba-MIRA (UK)	Winter of 2021	Specific timing still to be decided
ESR8 Ahmad Adee	RH Marine (NL)	Nov - Dec 2020	Still feasible at the moment	---	---	---

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(First) Secondments (3)

20

SAS ESRs 9-15 - Secondments Plan 2020-2021 – Proposed Timings - Version 1

ESR	Secondment 1 (2020-2021)			Secondment 2 (2020-2021)		
	Location	Timing	Status/Remarks	Location	Timing	Status/Remarks
ESR9 Hassan Tirmizi	UoY (UK)	Jan - March 2020	Interrupted due to COVID-19, possible restart	RH Marine	June - August 2021	Foreseen as planned
ESR10 Fang Yan	Equinor (NO)	Early 2021	Specific timing still uncertain at the moment	---	---	---
ESR11 Vibhu Gautam	Bosch (GE)	???	Still uncertain at the moment due to COVID- 19 and also visa restrictions	---	---	---
ESR12 Tianlei Miao	KU Leuven (BE)	Sep - Dec 2020	Foreseen as planned	MARIN (NL)	Summer 2021	Specific timing still to be decided
ESR13 Harris Aftab	LAAS-CNRS (FR)	Feb - April 2021	If physical presence not possible, then virtually	PMT (IE)	Sep - Dec 2021	Specific timing still to be decided
ESR14 Luis P. Cobos	KU Leuven (BE)	April - July 2021	New secondment timing feasible	---	---	---
ESR15 Orlan Dheu	UoY (UK)	???	Still uncertain at the moment due to COVID- 19 and travel restrictions	---	---	---

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(First) Secondments (4)

21

- **Update SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021 – version 1:**
 - Updated secondments plan
 - Modified secondment timings with reasoning + mitigation
 - Alignment with (co-)supervisors + respective secondment host supervisor(s).
- **Version 2** of this secondments overview and mitigation plan: **January 31, 2021.**

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(First) Secondments (5)

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- After each Secondment a Secondment Report needs to be written by the ESR, and signed by the ESR and the Secondment Hosting Supervisor.
Template is available via Podio.
- **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!

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Ethical self-assessment

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- 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, and submitted to the EC REA.
- **Voluntary ethical self-assessment by every ESR was written by the NWE 2.**
- Ethical Board:
 - ▣ KU Leuven: Prof. A. Vedder, Dr. D. Vanoost
 - ▣ UoY: Dr. I. Habli

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Communication and Dissemination Outreach

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SAS Project Visual Identity (1/3)

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To achieve the best dissemination and communication results, the following visual identifications and tools need to be used:

SAS Project Logo



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SAS Project Visual Identity (2/3)

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SAS Project Templates (for PPT, scientific conference presentations, newsletters, project reporting and deliverables)



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

MSCA-ETN SAS NWE 3

Crowne Plaza, Bruges - BELGIUM

November 17-20, 2020

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SAS Project Visual Identity (3/3)

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EU funding acknowledgement



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

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Post

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Scientific dissemination (peer-review publications) – Specific paragraph to be added in acknowledgement section – Publication procedure to be followed

“The research leading to these results has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 812.788 (MSCA-ETN SAS). This publication reflects only the authors' view, exempting the European Union from any liability. Project website: <http://etn-sas.eu/>.”

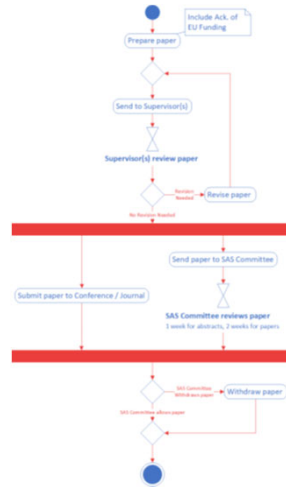
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Paper Presubmission Procedure

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SAS Blogs, Social Media,...

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- ESRs are involved in communication and dissemination activities.
- So far, the ESRs have written and published **24** blog posts presenting their work for the general public.
- They have published several posts on Social Media (on SAS Facebook, Twitter & LinkedIn channels)
- **Leadership, Self-Organisation and creative ideas are needed here.**
- ESR Researcher Council and informal moments during network-wide events ideal place/ moments to discuss these items and come up with new ideas.

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SAS Blogs and Social Media (e.g. Facebook, LinkedIn, Twitter, etc.)



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MSCA Safer Autonomous Systems (SAS)
Ensuring trustworthiness of autonomous systems

When building an Assurance Case, an important task is to generate the evidence supporting the claims put forward. In our latest blog, **Fang YAN** (ESR10), discusses several techniques to assist the generation of such evidence:
<https://lnkd.in/d/Wib-Y>
#MSCA #ETN #SAS #autonomoussystem #assurancecase #evidencegeneration

facebook

ETN SAS
@SaferAutonomousSystems

Startpage

Members

Photos

Info

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The Techniques for Assurance Case Evidence Generation

To close the development loop of Assurance Case (AC), the final task is the generation of evidence to support the claims. The techniques for evidence generation vary with different system development solutions.

Part-of-Speech Tagging using Hidden Markov Models

Parts of Speech (POS) tagging is a text processing technique to correctly understand the meaning of a text. POS tagging is the process of assigning the correct POS marker (noun, pronoun, adverb, etc.) to each word in an input text. We discuss POS tagging using Hidden Markov Models (HMMs) which are probabilistic sequence models.

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SAS Shared repository OneDrive



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- Shared repository for Consortium members.
- Access to all SAS related and relevant documents.

5 > MSCA-ETN-SAS μ R

Name ∇

- Communication_Dissemination_Outreach
- Conference Calls
- Deliverables
- Milestones
- Network-Wide Events
- Official documents
- Publications
- WP Intermediate Discussions

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SAS Video

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- The first SAS Promo Video has been made in collaboration with Storyrunner, and thanks to Dejana and Orian for explaining the project goals, and presenting the team and the collaborating partners.
- SAS Video:
<https://www.youtube.com/watch?v=L1jEceW29NQ>
- The Video has been launched on **Monday, May 4, 2020** through our SAS Social Media.
- Please share the video on your social media.

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Deliverables & Milestones

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Project Deliverables

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Submitted Deliverables in 2020	Submission Date
□ D4.4 SAS Network-Wide Event I	March 2, 2020
□ D6.6 Supervisory Board of the Network: Update	March 11, 2020
□ D6.2 Employment contracts with ESRs: Update	March 16, 2020
□ D4.2 15 PCDPs: Update	March 16, 2020
□ D2.1 Report on first experiment of the virtual worlds generation on a robotic simulator (LAAS-CNRS, ESR 6 Luca)	June 9, 2020
□ D3.1 Literature review of safety challenges associated with the use of intelligent conversational bots (UoY, ESR 13 Haris)	July 22, 2020
□ D4.13 SAS Special Session/Workshop I	August 17, 2020
□ D4.9 Progress report I PCDPs	August 31, 2020
□ D4.3 SAS Network-Wide Event II	September 2, 2020
□ D5.4 Exploitation plan	October 30, 2020

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Project Deliverables

Upcoming Deliverables in 2020 (GA DoA)

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Deliverable	Lead Beneficiary	Delivery Due Date
D1.1 Report on first version of the language for the expression of safety constraints and synthesis of safety rules	LAAS-CNRS, ESR1 Raul	October 31, 2020 November 30, 2020
D4.5 SAS Network-Wide Event III (Fraunhofer)	KU Leuven, Management Team	October 31, 2020 November 30, 2020
D4.10 Progress Report II of PCDP to Supervisory Board Meeting	KU Leuven, Management Team	October 31, 2020 November 30, 2020

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Project Deliverables: Special Sessions, Workshops, Tutorials,...

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Deliverable	Event	Type	Responsible	Timing	Location
D4.13	GPS Week 2020 DATE ASD 2020	Special Session	P. Munk + A. Adee (Bosch)	To be checked	To be checked
D4.14	SAFECOMP 2021	Workshop	I. Habli + Z. Tahir (UoY)	September 2021	To be checked
D4.15	DSN 2021	Special Session	H. Waeselynck + L. Sartori and R. Ferreira (LAAS)	To be checked	To be checked
D4.16	SAFECOMP 2022	Panel Discussion	M. Trapp + J. Zacchi (FHG)	To be checked	To be checked

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Project Milestones

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Milestones

Number	Name	Lead beneficiary	Delivery Date (Annex I)	Achieved	Delivery Date (actual)
23	Statistical V&V framework for EMI analysis c	KU Leuven	31 Aug 2020	<input checked="" type="checkbox"/>	15 Jul 2020
13	SAS Network Wide Event III	Fraunhofer	31 Oct 2020	<input type="checkbox"/>	
24	One scientific publication per ESR	CNRS	31 Oct 2020	<input type="checkbox"/>	
25	Exploitation Plan	MIRA	31 Oct 2020	<input checked="" type="checkbox"/>	30 okt 2020
8	2nd Annual SB meeting	KU Leuven	31 Oct 2020	<input type="checkbox"/>	
26	Safety concept and architectural strategies	UIY	30 Nov 2020	<input type="checkbox"/>	
27	Complete prototype tooling for situation co	UIY	31 Dec 2020	<input type="checkbox"/>	
28	Initial implementation of run-time safety cc	Fraunhofer	31 Jan 2021	<input type="checkbox"/>	
29	Situational and collision avoidance algorithm	RHM	28 Feb 2021	<input type="checkbox"/>	

Project Deliverables & Milestones will be furthermore discussed at the NWE 3 during the Supervisory Board Meeting and the WP Discussions.

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SAS Deliverables and Milestones

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- Deviation of the due dates of Deliverables and milestones: detailed information is needed why delayed, specify due dates, clarification why and how. “Deviation Template”
MITIGATION PLAN >>> ACTION PLAN
- Formal notifications regarding these changes are necessary through the EC Participant Portal in order to further align with the Description of the Action as stated in the SAS Grant Agreement Annex 1.

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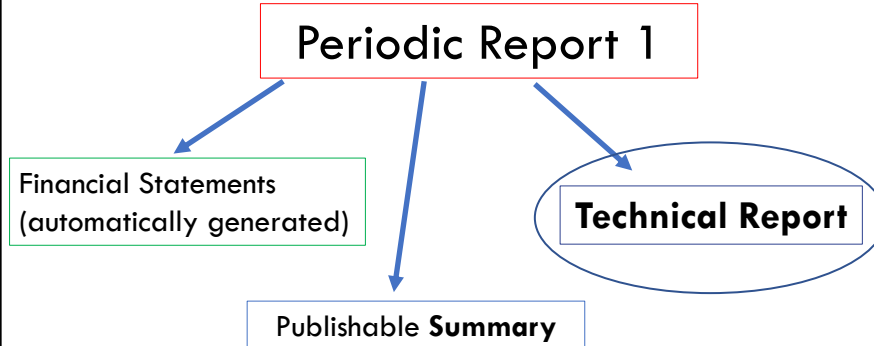
Periodic Report

40

SAS Periodic Report 1

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- **Deadline:** M24 (October 31, 2020) + 60 days = **December 31, 2020.**



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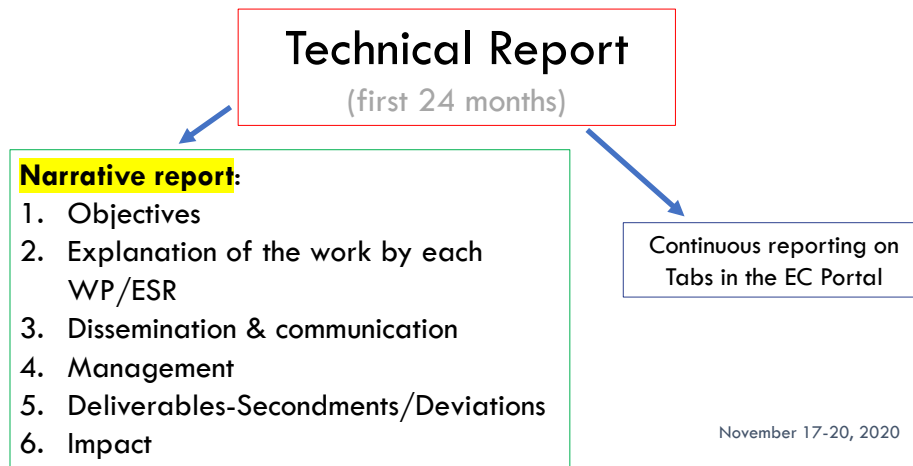
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SAS Technical Report

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- **Reporting period covers till M24 = 31/10/2020**



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SAS Technical Report

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- **Narrative report:** All necessary information and respective templates have been sent to ESRs + (co-)supervisors.
- Please follow-up adequately and consequently regarding the input that we are expecting from all of you.
- **Deadline for sending all necessary input to Stéphane: November 27, 2020.**
- After November 27: additional input/information/feedback, if applicable.

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ESR1-5 presentations + Q&A session

9:45-11:00 (CET): ESR Presentations

11:15-12:00 (CET): Q&A Session ESR1-5 presentations

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ESR1-5 presentations (WP1)

45

[MSCA ETN SAS] ONLINE Network-Wide Event - ESRs Presentations – November 18-19, 2020

ESR	First Name	Last Name	Affiliation	Presentation (CEST)
1	Raul Sena	Ferreira	LAAS-CNRS	9:45 – 10:00
2	Yuan	Liao	Fraunhofer IKS	10:00 – 10:15
3	Joao Vitor	Zacchi	Fraunhofer IKS	10:15 – 10:30
4	Dejana	Ugrenovic	KU Leuven	10:45 – 11:00
5	Aleksandr	Ovechkin	KU Leuven	11:00 – 11:15

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**Supervisory Board Meeting
Consortium members + Luca Vittorio Sartori (ESR6)**

13:00-14:00 (CET)

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ESR6-9 presentations + Q&A session

14:00-15:00 (CET): ESR Presentations

15:15-16:00 (CET): Q&A Session ESR6-9 presentations

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ESR6-9 presentations (WP2)

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[MSCA ETN SAS] ONLINE Network-Wide Event - ESRs Presentations – November 18-19, 2020				
ESR	First Name	Last Name	Affiliation	Presentation (CEST)
6	Luca Vittorio	Sartori	LAAS-CNRS	14:00 – 14:15
7	Zaid	Tahir	University of York	14:15 – 14:30
8	Ahmad	Adee	Bosch	14:30 – 14:45
9	Hassan	Tirmizi	KU Leuven	14:45 – 15:00

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Safer Autonomous Systems

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WP Parallel Sessions: 3 S/T Work Packages

16:00-17:00 (CET)

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WP Parallel Sessions: Summary

17:00-17:30 (CET)

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Annex 5

PPT Template "ESR Presentation" SAS NWE III November 18-19, 2020



Safer Autonomous Systems

EU H2020 MSCA-ETN SAS
ONLINE NETWORK-WIDE EVENT 3
NOVEMBER 17-20, 2020



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

ESR Presentation

1



2

2

1

Annex 6

Agenda "Supervisory Board Meeting" November 18, 2020



Safer Autonomous Systems



SUPERVISORY BOARD MEETING
NOVEMBER 18, 2020 ONLINE MEETING
13:00-14:00 (CET)

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

MSCA-ETN SAS Network-Wide Event 3
November 17-20, 2020

1



Agenda

2

- Impact of COVID-19 crisis on the SAS Project? **25'**
 - ▣ Secondments 2020-2021
 - ▣ Request for extension of the SAS Project?
- M24 Periodic Report **15'**
- Exploitation plan **5'**
- Feedback ESR Council **10'**
- Any other business: **5'**
 - ▣ Project Deliverables and Milestones
 - ▣ Update PCDPs: recurring deliverable
 - ▣ Ethical self-assessment
 - ▣ Next Network-Wide Event(s)
 - ▣ ...

MSCA-ETN SAS NWE 3

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2

Impact of COVID-19 crisis on the SAS Project?

3

- KU Leuven is, as coordinator and beneficiary, responsible for putting in place contingency measures to minimize the impact of the coronavirus outbreak on the implementation of the SAS Project.
- Let's go over every ESR position with respect to:
 - ▣ Current Research progress – 'daily work alternative'
 - ▣ Remote Supervision
 - ▣ Any delays in trainings/secondments/...?
 - ▣ Other issues/difficulties encountering at this moment or maybe in the near future ?

MSCA-ETN SAS NWE 3

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3

Overview SAS ESRs – Impact COVID-19

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ESR	Candidate	Host	Supervisor
ESR1	Raul Sena Ferreira	LAAS-CNRS	J. Guiochet
ESR2	Yuan Liao	Fraunhofer	M. Trapp
ESR3	João Vitor Zacchi	Fraunhofer	M. Trapp
ESR4	Dejana Ugrenovic	KU Leuven	J. Boydens
ESR5	Aleksandr Ovechkin	KU Leuven	D. Pissoort
ESR6	Luca Vittorio Sartori	LAAS-CNRS	H. Waeselynck
ESR7	Zaid Tahir	UoY	R. Alexander
ESR8	Ahmad Adeed	Bosch	P. Munk

MSCA-ETN SAS NWE 3

November 17-20, 2020

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Overview SAS ESRs – Impact COVID-19

5

ESR	Candidate	Host	Supervisor
ESR9	Hassan Tirmizi	KU Leuven	D. Pissoort
ESR10	Fang Yan	UoY	S. Foster
ESR11	Vibhu Gautam	UoY	R. Alexander
ESR12	Tianlei Miao	RH Marine	E. El Amam
ESR13	Haris Aftab	UoY	I. Habli
ESR14	Luis-Pedro Cobos	Horiba-Mira	A. Ruddle
ESR15	Orian Dheu	KU Leuven	P. Valcke

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5

Impact of COVID-19 crisis on the SAS Project?

6

- **SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021:**
 - Planned/foreseen secondments for 2020-2021
 - Proposed changes and corresponding justification for the changes with mitigation plan
 - **Version 1** has been submitted to the EC REA, see next 2 slides.

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6

(First) Secondments (1)

7

SAS ESRs 1-8 - Secondments Plan 2020-2021 – Proposed Timings - Version 1

ESR	Secondment 1 (2020-2021)			Secondment 2 (2020-2021)		
	Location	Timing	Status/Remarks	Location	Timing	Status/Remarks
ESR1 Raul S. Ferreira (GE)	Fraunhofer	July 2020 + Nov'20 - Jan/'21	Still pending, partially remotely/physical	Jaguar Land Rover (UK)	May - July 2021	Pending, partially remotely/physical
ESR2 Yuan Liao	LAAS-CNRS (FR)	Q1 2021	Specific timing still uncertain at the moment	---	---	---
ESR3 João V. Zacchi	UoY (UK)	Q1 2021	Physical secondment uncertain at the moment	---	---	---
ESR4 Dejana Ugrenovic	Bosch (GE)	Oct - Dec 2020	Foreseen as planned	---	---	---
ESR5 Aleksandr Ovechkin	UoY (UK)	Jan - March 2020	Interrupted due to COVID-19, no further impact	CNHi (BE)	May - July 2021	Foreseen as planned
ESR6 Luca V. Sartori	Nasio (FR)	Feb - April 2020	Half of the secondment was done in smart- working/home-office	SICK AG (GE)	Jan '21 - April '21	Foreseen as planned, in case of lockdown, secondment in smart working/home-office
ESR7 Zaid Tahir	LAAS-CNRS (FR)	Apr - July 2021	If physical presence not possible, then virtually	Horiba-MIRA (UK)	Winter of 2021	Specific timing still to be decided
ESR8 Ahmad Adeeb	RH Marine (NL)	Nov - Dec 2020	Still feasible at the moment	---	---	---

7

(First) Secondments (2)

8

SAS ESRs 9-15 - Secondments Plan 2020-2021 – Proposed Timings - Version 1

ESR	Secondment 1 (2020-2021)			Secondment 2 (2020-2021)		
	Location	Timing	Status/Remarks	Location	Timing	Status/Remarks
ESR9 Hassan Tirmizi	UoY (UK)	Jan - March 2020	Interrupted due to COVID-19, possible restart	RH Marine	June - August 2021	Foreseen as planned
ESR10 Fang Yan	Equinor (NO)	Early 2021	Specific timing still uncertain at the moment	---	---	---
ESR11 Vibhu Gautam	Bosch (GE)	???	Still uncertain at the moment due to COVID- 19 and also visa restrictions	---	---	---
ESR12 Tianlei Miao	KU Leuven (BE)	Sep - Dec 2020	Foreseen as planned	MARIN (NL)	Summer 2021	Specific timing still to be decided
ESR13 Harris Aftab	LAAS-CNRS (FR)	Feb - April 2021	If physical presence not possible, then virtually	PMT (IE)	Sep - Dec 2021	Specific timing still to be decided
ESR14 Luis P. Cobos	KU Leuven (BE)	April - July 2021	New secondment timing feasible	---	---	---
ESR15 Orlan Dheu	UoY (UK)	???	Still uncertain at the moment due to COVID- 19 and travel restrictions	---	---	---

8

(First) Secondments (3)

9

- **Update SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021 – version 1:**
 - Updated secondments plan
 - Modified secondment timings with reasoning + mitigation
 - Alignment with (co-)supervisors + respective secondment host supervisor(s).
- **Version 2** of this secondments overview and mitigation plan: **January 31, 2021.**
- **Comments/remarks regarding the secondments?**

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Request for extension of the SAS Project?

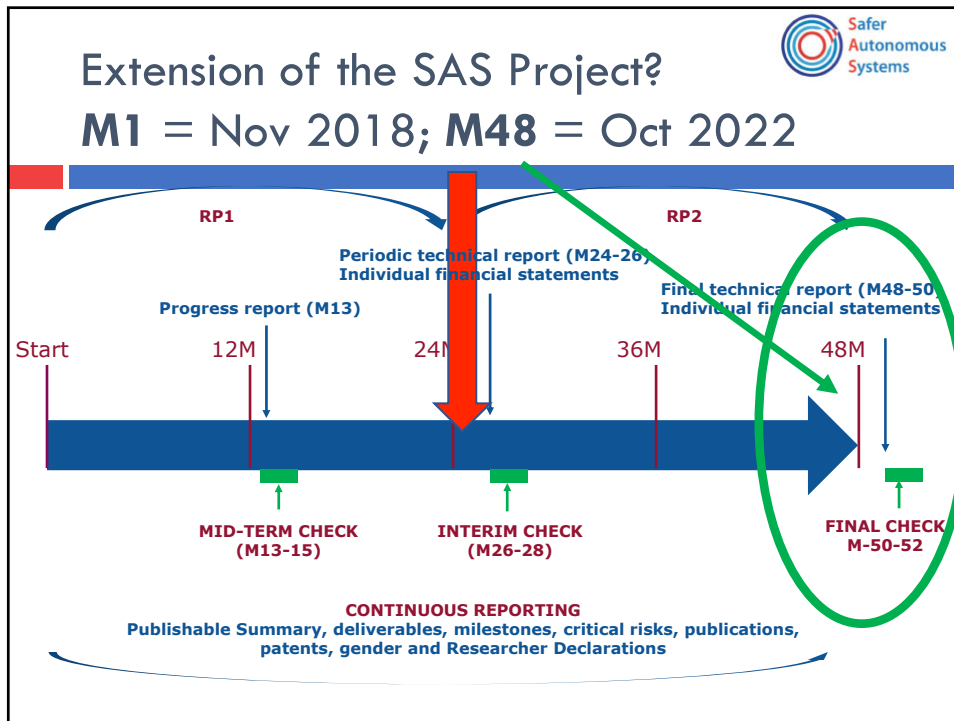
10

- Due to COVID-19 pandemic, postponed secondments, possible delays in research progress,... request for extension of the SAS project?

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Request for extension of the SAS Project?

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- Due dates of Deliverables/Milestones can be postponed after M48
- Final technical report (M48-50) will be postponed
- Final Check EC REA will be postponed
- Final Payment will be postponed
- **No increase of the maximum grant amount as stated in Article 5.1 of the SAS Grant Agreement.**
- Proper reasoning/motivation + mitigation plan + scientific assessment for every ESR needed when request for extension, a joint consortium request!!

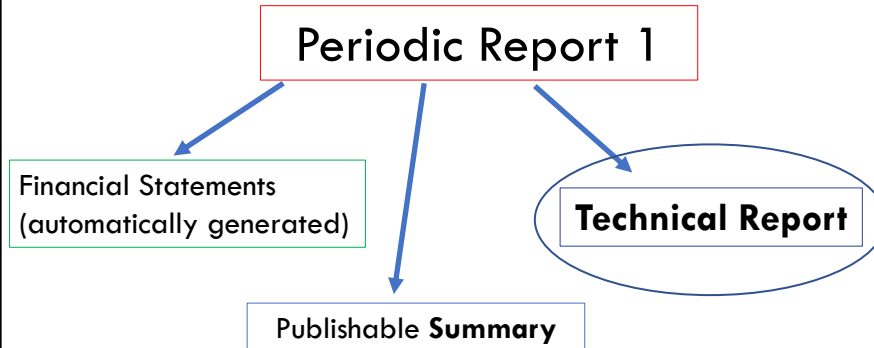
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SAS Periodic Report 1

13

- **Deadline:** M24 (October 31, 2020) + 60 days = **December 31, 2020.**



MSCA-ETN SAS NWE 3

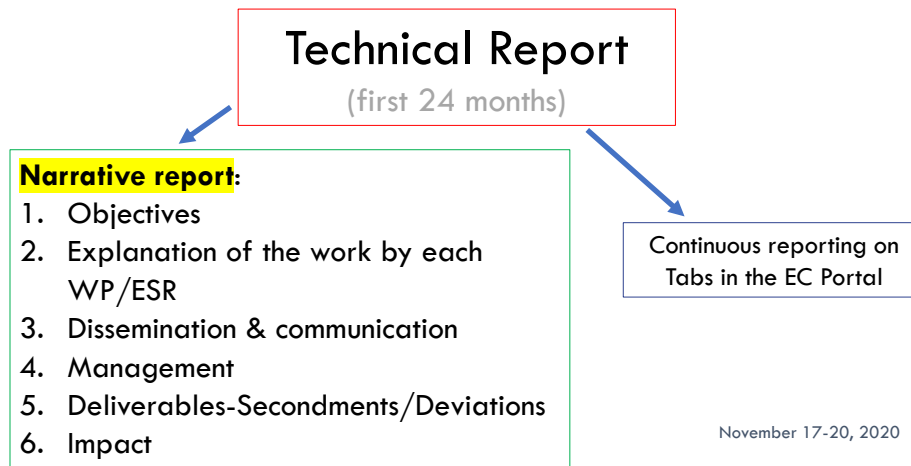
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SAS Technical Report

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- **Reporting period covers till M24 = 31/10/2020**



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SAS Technical Report

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□ Update Continuous Reporting EC Portal

812778 (SAS)	MSCA-ITN...	Summary for publication	Deliverables, Ethics, DMP, Other Reports	Milestones	Publications	Disseminat...	Patents (PP)	Open Data	Gender	Researchers	Training Activities	ABS Regulation
	Call: H2020-MSCA-ITN-2018 Topic: MSCA-ITN-2018 Unit: REA/A/01											

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SAS Technical Report

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□ **Narrative report:** All necessary information and respective templates have been sent to ESRs + (co-)supervisors:

□ **OneDrive: Template SAS Technical Report**

□ **OneDrive: Template SAS RTD report ESRs**

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SAS Technical Report

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- Please follow-up adequately and consequently regarding the input that we are expecting from all of you.
- **Deadline for sending all necessary input to Stéphane: November 27, 2020.**
- **After November 27: additional input/information/feedback, if applicable.**
- The technical report will be written with collaboration of a science writer, these costs are paid by KU Leuven.

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Feedback ESR Council (Nov 17, 2020)

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- **Input/feedback from the ESR Council...**

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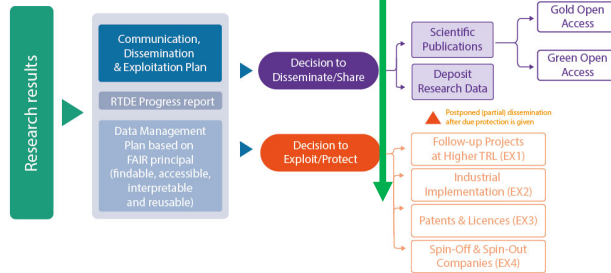
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Exploitation plan

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- SAS Deliverable **Exploitation plan** has been submitted on Oct. 30, 2020.
- SAS Exploitation plan is based on **four exploitations routes** defined in the SAS GA DoA Annex 1 Part B:



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Exploitation plan

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- Deliverable submitted based on the input received from the ESRs with respect to:
 - ▣ Which Exploitation steps have you already taken?
 - ▣ Which Exploitation steps are planned?
- **Follow-up regarding SAS Exploitation Plan?**

Table 2 Exploitation Routes for the 15 ESRs in MSCA ETN SAS (as determined in the middle of the project = M24).

ESR	Name ESR	Host Beneficiary	Follow-up projects	Main Exploitation Routes		
				Industrial implementation	Patents & Licensing	Start-up
1	Raul Sena Ferreira	LAAS-CNRS	-	-	-	-
2	Yuan Liao	Fraunhofer	M	M	L	L
3	João Vitor Zacchi	Fraunhofer	H	H	L	L
4	Dejana Ugrenovic	KU Leuven	H	M	L	L
5	Aleksandr Ovechkin	KU Leuven	H	M	M	L
6	Luca Vittorio Sartori	LAAS-CNRS	H	H	L	L
7	Zaid Tahir	University of York	L	L	L	L
8	Ahmad Adee	Bosch	L	H	H	L
9	Hassan Tirmizi	KU Leuven	H	M	L	L
10	Fang Yan	University of York	-	-	-	-
11	Vibhu Gautam	University of York	-	-	-	-
12	Tianlei Miao	RH Marine	M	H	H	L
13	Haris Aftab	University of York	-	-	-	-
14	Luis Pedro Cobos Yelavives	HORIBA MIRA	-	-	-	-
15	Orian Dheu	KU Leuven	N.A.	N.A.	N.A.	N.A.

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Project Deliverables

Upcoming Deliverables in 2020 (GA DoA)

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Deliverable	Lead Beneficiary	Delivery Due Date
D1.1 Report on first version of the language for the expression of safety constraints and synthesis of safety rules	LAAS-CNRS, ESR1 Raul	October 31, 2020
D4.5 SAS Network-Wide Event III (Fraunhofer)	KU Leuven, Management Team	October 31, 2020 November 30, 2020
D4.10 Progress Report II of PCDP to Supervisory Board Meeting	KU Leuven, Management Team	October 31, 2020 November 30, 2020

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Project Deliverables:

Special Sessions, Workshops, Tutorials,...

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Deliverable	Event	Type	Responsible	Timing	Location
D4.13	CPS Week 2020 DATE ASD 2020	Special Session	P. Munk + A. Adee (Bosch)	To be checked	To be checked
D4.14	SAFECOMP 2021	Workshop	I. Habli + Z. Tahir (UoY)	To be checked	To be checked
D4.15	DSN 2021	Special Session	H. Waeselynck + L. Sartori and R. Ferreira (LAAS)	To be checked	To be checked
D4.16	SAFECOMP 2022	Panel Discussion	M. Trapp + J. Zacchi (FHG)	To be checked	To be checked

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Update PCDPs: recurring Deliverable

23

- All recruited ESRs developed, in dialogue with their supervisors, a Personal Career Development Plan (PCDP).
- 15 signed updated PCDPs have been uploaded to the participants portal (D4.9 PCDP Report I) on **August 31, 2020**.
- **Progress reports of the PCDPs** to Supervisory Board are a 6 monthly recurring Deliverable.
- D4.10 Progress Report II of PCDP to Supervisory Board Meeting: **Delivery Due Date: November 30, 2020**.
- **So far 10 updated PCDPs have been sent to the Management Team.**

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Ethical self-assessment

24

- 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, and submitted to the EC REA.
- **Voluntary ethical self-assessment by every ESR was written by the NWE 2.**
- Ethical Board:
 - KU Leuven: Prof. A. Vedder, Dr. D. Vanoost
 - UoY: Dr. I. Habli

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Next Network-Wide Events

25

- **SAS NWE 4 in Wageningen (NL) @ MARIN:**
5 days
 - **GA DoA Annex I: February 2021**
 - Postponed until April/May.
 - **Proposed date: May, 3-7, 2021.**
 - **Plenary meetings on?**
- **SAS NWE 5 in Nuneaton (UK) @ HORIBA-MIRA:**
4 days
 - **GA DoA Annex I: August 2021 (M36)**
 - **Proposed month: October/November 2021?**
 - **Dates will be aligned with the NWE host**

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AoB

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Annex 7

PPT Presentation “WP1-3 Parallel Sessions + outcome” November 18, 2020



Safer Autonomous Systems



SCIENTIFIC WP 1-3 PARALLEL SESSIONS +
SUMMARY
NOVEMBER 18, 2020
16:00-17:30 (CET)

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

MSCA-ETN SAS Network-Wide Event 3
November 17-20, 2020

1



Safer Autonomous Systems

2

WP Parallel Sessions: 3 S/T Work Packages

16:00-17:00 (CET)

2

S/T Work Packages Parallel Sessions

3

□ SAS Scientific Work Packages 1-3

- Interaction between ESRs, Supervisors and the representatives of the Partner Organisations regarding the specific WP
 - Current research progress
 - Tasks within each WP
 - Scientific deliverables within each WP
 - Milestones within each WP
 - Secondment(s) for each ESR
 - **COVID-19 outbreak and impact for each ESR**
 - **Data management plan**
 - **Exploitation plan**
 - **Periodic report**
 - Q&A session to clarify technical aspects and practicalities

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3

S/T Work Packages Parallel Sessions

4

□ SAS Scientific/Technical Coordinator

Dries Vanoost



□ Some task of the S/T Coordinator

- Follow up Scientific and Technical progress
- Encouragement and support to the ESRs
- Setup the bi-monthly teleconference meetings
- Ensure continuous monitoring and communication with all the network Participants
- ...

MSCA-ETN SAS NWE 3

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WP1: Designing inherently safe autonomous systems

5

ESRs

- ESR1: Raul Sena Ferreira (LAAS)
- ESR2: Yuan Liao (Fraunhofer)
- ESR3: João Vitor Zacchi (Fraunhofer)
- ESR4: Dejana Ugrenovic (KU Leuven)
- ESR5: Aleksandr Ovechkin (KU Leuven)

Supervisors

- **Mario Trapp - Fraunhofer**
- Ralf Kirchner - Fraunhofer
- Jérémie Guiochet - LAAS
- Jeroen Boydens - KU Leuven
- Tim Claeys - KU Leuven
- Jens Vankeirsbilck - KU Leuven
- Representatives of JLR and CNHi

5

WP1: Designing inherently safe autonomous systems

6

Tasks

No.	Title	ESR
T1.1	Development of a generic framework to monitor and handle safety of autonomous systems during run-time	Raul Sena Ferreira
T1.2	Development of an adaptive platform for resilient autonomous systems based on a MAPE-K cycle	Yuan Liao
T1.3	Dynamic safety handling of autonomous systems-of-systems with run-time safety contracts	João Vitor Zacchi
T1.4	Creating Software Design Guidelines and Testing Specifications for Non-Functional Requirements in Safety-critical Autonomous Systems	Dejana Ugrenovic
T1.5	Making Connectivity Work Reliably in a diverse Range of Environments	Aleksandr Ovechkin

6

WP1: Designing inherently safe autonomous systems

7

Deliverables

No.	Title	Lead	Type	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 25 (Nov. 20) M 24 (Oct. 20)
D1.2	Publication on initial implementation of run-time safety contracts and according monitoring architectures	Fraunhofer (João)	Report	public	March 21 M 27 (Jan. 21)
D1.3	Publication on the effectiveness of EM-diverse redundancy to harden wireless interconnectivity	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)

7

WP1: Designing inherently safe autonomous systems

8

Milestones

No.	Title	Lead	Means of verific.	Due Date
MS1.1	Different safety assurance frameworks compared on simplified, virtual autonomous system	LAAS (Raul)	Report available	M 13 (Nov. 19)
MS1.2	Decision on which wireless communication protocols to be considered for study on EMI-aware design techniques and measures	KU Leuven (Aleksandr)	Overview list available	M 13 (Nov. 19)
MS1.3	Initial implementation of run-time safety contracts and according monitoring architectures	Fraunhofer (João)	Report available	March 21 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)

8

WP1: Designing inherently safe autonomous systems

9

Actions/Summary + AOB

- ESR1 Raul (PhD 3 years): no secondment done so far (one was foreseen in May 2020). Will start secondment in January 2021. Remote work + physical move, + 3 months prolongation PhD.
- ESR2 Yuan: 1st secondment in fall 2020 is postponed until further notice.
- ESR3 João (PhD target 3 years): secondment at York has been cancelled → completely remotely?!
 - ▣ **Due dates Deliverable and Milestone 1.3 will be extended with 2 months, March 2021.**
- ESR4 Dejana (PhD 4 years): is currently doing physical secondment at Bosch (Germany)
- ESR5 Aleksandr: 1st secondment done in Jan-Mar 2020 in York. No impact on second secondment foreseen at CNHi.

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WP2: Providing evidence for autonomous systems

10

ESRs

- ESR6: Luca V. Sartori (LAAS)
- ESR7: Zaid Tahir (University of York)
- ESR8: Ahmed Adeeb (Bosch)
- ESR9: Hassan Tirmizi (KU Leuven)

Supervisors

- H el ene Waeselynck - LAAS
- Rob Alexander - UoY
- **Peter Munk - Bosch**
- Dries Vanoost - KU Leuven
- Representatives of Na io, SICK and TUK

MSCA-ETN SAS NWE 3

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WP2: Providing evidence for autonomous systems

11

Tasks

No.	Title	ESR
T2.1	Virtual worlds generation for testing autonomous robots in simulation	Luca Vittorio Sartori
T2.2	Rigorous Design and Evaluation of Situation Coverage Testing for Autonomous Vehicles	Zaid Tahir
T2.3	Model-based System Analysis Techniques to determine propagation paths of functional insufficiencies in software-intensive systems	Ahmad Adeeb
T2.4	Model-based System Analysis of the Robustness of Autonomous Systems against ElectroMagnetic Interference	Hassan Tirmizi

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WP2: Providing evidence for autonomous systems

12

Deliverables

No.	Title	Lead	Type	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	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)

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WP2: Providing evidence for autonomous systems

13

Milestones

No.	Title	Lead	Means of verific.	Due Date
MS2.1	Decision on which model-based system analysis suits are fitted best to cope with functional insufficiencies +3 months: rationale > before this decision can be taken, a clear definition of the terms has to be developed by the ESR	Bosch (Ahmad)	Overview on advantages and disadvantages of the model-based system analysis suits available	M 16 (Feb. 20) M 13 (Nov. 19)
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 (July 20)
MS2.4	Complete prototype tooling for situation coverage testing available and working for a small example +6 months: rationale > program logic	University of York (Zaid)	Description of tools available	M 32 (June 21) M 26 (Dec. 20)

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WP2: Providing evidence for autonomous systems

14

Actions/Summary + AOB

□ ESR6 Luca

- ▣ Still working on NAI0 case study.
- ▣ Focusing on Pairwise testing for now.
- ▣ Case study from SICK upcoming.

□ ESR7 Zaid

- ▣ Idea is solid now.
- ▣ Implementation is to do, started search for best frameworks (ML, Carmaker, CARLA, Julia package)

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WP2: Providing evidence for autonomous systems

15

Actions/Summary + AOB

- **ESR8 Ahmad**
 - ▣ Define sensor & processing capabilities (design- & run-time).
- **ESR9 Hassan**
 - ▣ Exploring time-diversity techniques for single / multiple freq.

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WP2: Providing evidence for autonomous systems

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AOB

1. Collaboration
 1. Zaid & Ahmad had some exchange regarding simulators
 2. Further exchange planned after NWE
 3. WP2 & Vibhu exchange also planned
2. COVID-19 pandemic and impact
 1. Secondment @ RH Marine for Ahmad postponed to May / June 2021; Ahmad submitted paper, but conference was cancelled,
 2. Zaid secondment to LAAS postponed to April 2021 (maybe virtual); Zaid conference delayed and virtual
 3. Hassan secondment to York was shortened to 2 months, maybe have the remaining 1 month later. RH Marine secondment still to be planned (maybe virtual)
 4. Hassan mitigation: journal instead of conference
 5. Luca (in Aachen) secondment to SICK is moved to Jan and virtual (IT access difficult without physical presence)
 6. Dissemination events wit industry (e.g., at LAAS) could be cancelled
3. Exploitation plan – All have submitted their plans!
 1. Hassan collaborating with PETER candidates and wrote valuation plan – can be reused
4. WP Sessions?
 1. Keep Format? Brainstorming +4
 2. Keep frequency (2 times between NWEs)? Ok +4 => Additional discussions (collaboration) with ESRs only on demand

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WP3: Providing Assurance Strategies

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ESRs

- ESR10: Fang Yan (University of York)
- ESR11: Vibhu Gautam (University of York)
- ESR12: Tianlei Miao (RH Marine)
- ESR13: Haris Aftab (University of York)
- ESR14: Luis-Pedro Cobos (HORIBA MIRA)
- ESR15: Orian Dheu (KU Leuven)

Supervisors

- Simon Foster - UoY
- (Rob Alexander – UoY)
- Ehab el Amam - RH Marine
- Ibrahim Habli - UoY
- **Alastair Ruddle - Horiba-MIRA**
- Davy Pissoort - KU Leuven
- Peggy Valcke - KU Leuven
- Representatives of LR, Equinor, Airbus and PMT

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WP3: Providing Assurance Strategies

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Tasks

No.	Title	ESR
T3.1	From static assurance cases at design-time to executable assurance cases at run-time	Fang Yan
T3.2	Assurance case structures for machine learning in the decision making of highly autonomous systems	Vibhu Gautam
T3.3	Assuring autonomous sailing from A tot B while minimizing operational costs	Tianlei Miao
T3.4	Safety assurance for Clinical Conversational Bots	Haris Aftab
T3.5	Dependability Assurance for Vehicle Autonomy	Luis Pedro Cobos
T3.6	Between Safety and Liability: Towards a Liability Allocation Framework for Safe Autonomous Systems	Orian Dheu

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WP3: Providing Assurance Strategies

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Deliverables D3.1 – 3.2 – 3.3

No.	Title	Lead	Type	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)

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WP3: Providing Assurance Strategies

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Deliverables D3.4 – 3.5 – 3.6

No.	Title	Lead	Type	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 (Luis-Pedro)	Report	public	M48 (Okt. 22) M 40 (Feb. 22)

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WP3: Providing Assurance Strategies

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Milestones MS3.1 – 3.2 – 3.3

No.	Title	Lead	Means of verific.	Due Date
MS3.1	Documented set of vehicle use cases for assurance case structures incorporating machine learning +18 months: rationale > depends on secondment timing at Bosch for ESR11	University of York (Vibhu)	Report available	M 30 (April 21) M 12 (Okt. 19)
MS3.2	Review of relevant techniques from functional safety, cyber security, dependability, etc. +12 months: rationale > recruitment delays (Horiba-Mira)	HORIBA MIRA (Luis-Pedro)	Overview list available	M 24 (Oct 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)

MSCA-ETN SAS NWE 3

November 17-20, 2020

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WP3: Providing Assurance Strategies

22

Milestones MS3.4 – 3.5 – 3.6

No.	Title	Lead	Means of verific.	Due 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)

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November 17-20, 2020

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WP3: Providing Assurance Strategies

23

Actions/Summary + AOB

- No immediate significant concerns were raised by the ESRs regarding the progress of the work.
- Physical interaction and secondments are universally an issue due to Covid, but many are progressing with virtual alternatives as best they can, although it is recognised that these virtual approaches can never be quite as effective.
- To date 1 deliverable (D3.1) and 1 milestone (MS3.2) have been completed.
- No further delays beyond the previously reported status are expected for other WP3 deliverables and milestones at this point.
- Orian did not realise virtual arrangements were possible, and therefore needs to organise such secondments fairly urgently as he was first to start and will therefore be first to finish.
- Issues with arranging Vihbu's secondment to Bosch are now on the point of becoming critical to provide inputs required for the completion of his deliverable (D3.3, August 2021) and milestone (MS3.1, April 2021). Potential alternatives such as public domain test cases or synthetic examples developed in collaboration with Bosch were also suggested as a back-up in case access to Bosch data is not feasible

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November 17-20, 2020

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WP3: Providing Assurance Strategies

24

Actions/Summary + AOB

- University support for Luis had been somewhat weaker than desired (due to the supervisor's wider commitments and responsibilities) but a newly joined member of the supervisory team has already had a positive impact which is expected to continue.
- The ESRs feel that their collaboration has been too limited so far and they, therefore, wish to amend to the format of the intermediate meetings to a more interactive format in order to remedy this.
- All have received the periodic report template and are aware of their obligations with respect to this.
- Davy mentioned that a more long-term view should be taken in assessing exploitation opportunities.

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November 17-20, 2020

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Annex 8

PPT Presentation “Conclusions of the NWE III + next steps” November 19, 2020



Safer Autonomous Systems

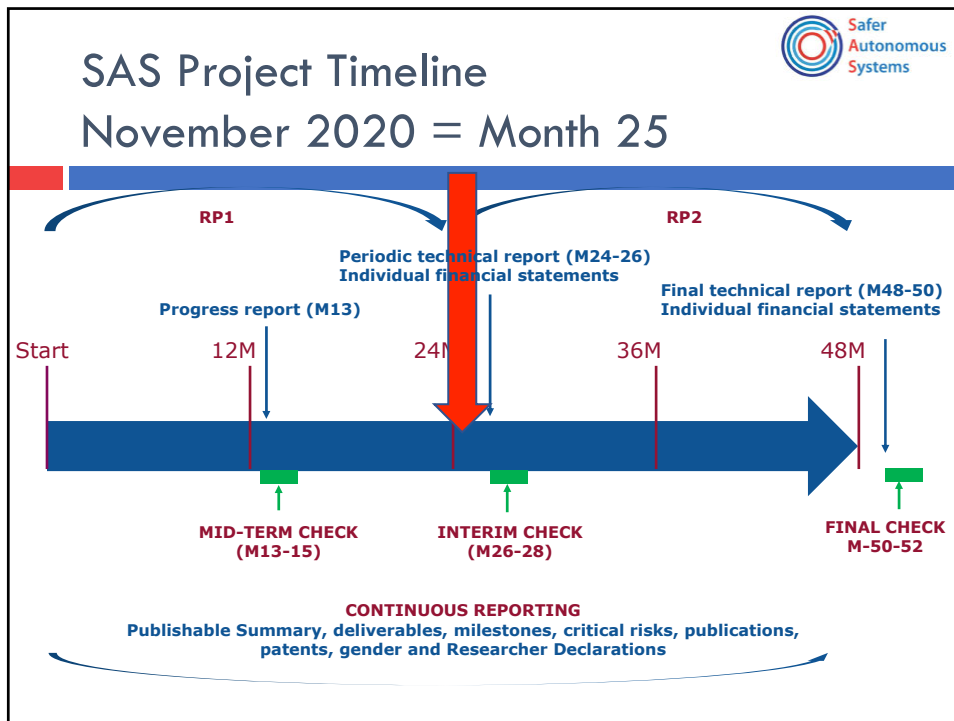


EU H2020 MSCA-ETN SAS
ONLINE NETWORK-WIDE EVENT 3
NOVEMBER 17-20, 2020

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

Thursday, November 19, 2020: Day 3

1



2



Safer Autonomous Systems

3

Conclusions of the meeting + project next steps

12:00-12:30 (CET)

3

SAS Network-Wide Event 3 Agenda (1) – Online Meetings



4

THURSDAY 19.11.2020 – Day 3

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:00 - 10:30	ESR10-15 presentations (15 min. each)	All	Meeting link
10:30 - 10:45	Break		
10:45 - 11:45	Q&A Session ESR10-15 presentations	All	
12:00 - 12:30	Conclusions of the meeting + project next steps	All	
12:30 - 14:00	Lunch break		
14:00 - 14:45	"Live at the factory – live & chat" Virtual Factory Tour AUDI Ingolstadt	ESRs and those interested	Link sent per mail by AUDI
14:45 - 15:00	Break		
15:00 - 17:00	S/T Training: "Safety and Reliability of Embedded Systems" (apl. Prof. Dr. habil. Mario Trapp, Fraunhofer IKS)	ESRs and those interested	Meeting link

MSCA-ETN SAS NWE 3

November 17-20, 2020

4

SAS Network-Wide Event 3 Agenda (2) – Online Meetings

5

FRIDAY 20.11.2020 – Day 4
ESRs + Optional: Management Support Team + Supervisors & their colleagues

Time (CET)	Agenda Item	Participants	Teams-Link
9:30 - 11:00	Soft-skill Training: <i>"NewWork in Science: agile – what does it mean?"</i> (Claudia Ricci, Fraunhofer IAO) 1h training + 30 min. questions & discussion	ESRs and those interested	Meeting link
11:00 - 11:15	Break		
11:15 - 12:45	S/T Training: <i>"Brief introduction to AI/ML"</i> (Prof. Dr. Stephan Günemann, TUM) 1h training + 30 min. questions & discussion	ESRs and those interested	
12:45 - 13:45	Lunch break		
13:45 - 15:15	S/T Training: <i>"Industry 4.0 – what does it actually mean?"</i> (Michael Stiller, Fraunhofer IKS) 1h training + 30 min. questions & discussion	ESRs and those interested	
15:15 - 15:45	Break		
15:45 - 17:00	Closing session with ESRs: communication strategy, PODIO and Network-Wide Event 3 evaluation	ESRs, CM and PM	

MSCA-ETN SAS NWE 3

November 17-20, 2020

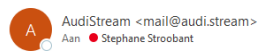
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Virtual Factory Tour AUDI Ingolstadt

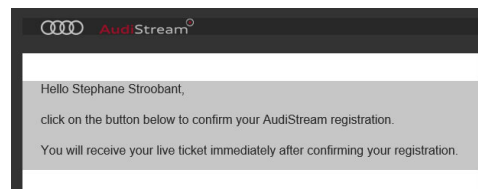
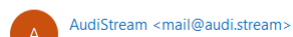
6

- **Thursday, November 19: 14:00-14:45 (CET)**
- Registration link received from mail@audi.stream

Please confirm your registration with AudiStream



Your AudiStream live ticket



- **Please check that you have received the registration link and the AudiStream live ticket after your registration.**

MSCA-ETN SAS NWE 3

November 17-20, 2020

6

WP1-3 Parallel Sessions

7

- **Actions + outcome of the sessions:** send to the PM
- S/T Coordinator Dries Vanoost will follow up
 - Through short Microsoft Teams meetings:
 - Progress in research
 - Deliverables and milestones
 - Possible collaboration,
 - Dates will be set by a doodle to the ESRs
 - (Co-)Supervisor will be kindly invited
- **Meetings through Microsoft Teams will be continued from January/February 2021: all ESRs within each WP + the WP leader**

7

(First) Secondments (1)

8

- **SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021:**
 - Planned/foreseen secondments for 2020-2021
 - Proposed changes and corresponding justification for the changes with mitigation plan
 - **Version 1** has been submitted to the EC REA.

8

(First) Secondments

9

- **Update SECONDMENTS OVERVIEW and MITIGATION PLAN 2020-2021 – version 1:**
 - Updated secondments plan
 - Modified secondment timings with reasoning + mitigation
 - Alignment with (co-)supervisors + respective secondment host supervisor(s).
- **Version 2 of this secondments overview and mitigation plan: January 31, 2021.**

MSCA-ETN SAS NWE 3

November 17-20, 2020

9

Some Important Homework... SAS Technical Report

10

- Beneficiaries/supervisors:
 - Please follow up regarding the requirements for the **Financial Statements**
 - Please follow up regarding the **specific tabs in the EC Portal**
 - Requested input from you will be further aligned with the Management Team (Impact, Exploitation,...)
- Please follow-up adequately and consequently regarding the input that we are expecting from all the ESRs.
- **Deadline for the ESRs for sending all necessary input to Stéphane: November 27, 2020.**
- **After November 27: additional input/information/feedback, if applicable.**

MSCA-ETN SAS NWE 3

November 17-20, 2020

10

Update PCDPs: recurring Deliverable

11

- All recruited ESRs developed, in dialogue with their supervisors, a Personal Career Development Plan (PCDP).
- **Progress reports of the PCDPs** to Supervisory Board are a 6 monthly recurring Deliverable.
- **Deadline for sending signed version updated PDCP to Stéphane: November 27, 2020.**

11

Impact of COVID-19 crisis

12

- Please keep the SAS Management Team informed regarding any issues/difficulties that might occur so we can take contingency measures and align everything with the Project Officer.

12

ESR Video presentations NWE3 ?

13

- Will be available through OneDrive
- YouTube?

13

SAS Project Visual Identity

14

EU funding acknowledgement

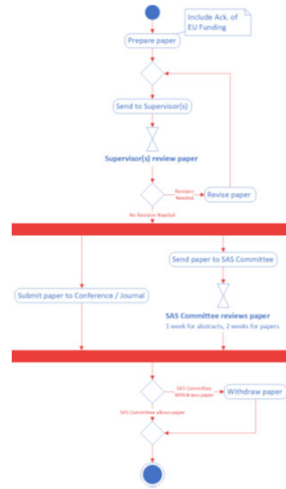


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14

Paper Presubmission Procedure

15



MSCA-ETN SAS NWE 3

November 17-20, 2020

15

Conference Call Feb/March 2021 Next Network-Wide Event

16

- **Conference Call with SAS Consortium:**
 - ▣ **February/March 2021**
 - ▣ Doodle will be sent out to set the exact date.
- **SAS NWE 4 in Wageningen (NL) @ MARIN:**
5 days
 - ▣ **Final dates: May, 3-7, 2021.**
 - ▣ Physical or online Event: will be decided at the Conference Call
 - ▣ **Plenary meetings: Doodle will be sent out to set those exact dates.**

MSCA-ETN SAS NWE 3

November 17-20, 2020

16

REPORT NWE + ACTION ITEMS

17

- Network-Wide Event 3 Report + Action items will be sent out to all SAS Consortium members
- Please follow up the action items

17

18

Special thanks to the ESRs for their
Video Presentations

18

Also special thanks to the people from Fraunhofer for helping to organize this Network-Wide Event with the Soft-Skill and S/T Training Sessions, the ESR social activity, the Virtual Factory Tour @ AUDI, **and for taking care of the Bavarian package for the ESRs**

Thank you all for attending this third Network-Wide Event and looking forward to seeing you all (hopefully) at Wageningen at our next Network-Wide Event in May 2021.

Annex 9

PPT Presentation “Communication strategy and Intranet PODIO evaluation”
November 19, 2020



Safer Autonomous Systems



EU H2020 MSCA-ETN SAS
ONLINE NETWORK-WIDE EVENT 3
NOVEMBER 17-20, 2020

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

Friday, November 20, 2020: Day 4

1

SAS Network-Wide Event 3 Agenda (2) – Online Meetings



2

FRIDAY 20.11.2020 – Day 4

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

Time (CET)	Agenda Item	Participants	Teams-Link
9:30 - 11:00	Soft-skill Training: <i>"NewWork in Science: agile – what does it mean?"</i> (Claudia Ricci, Fraunhofer IAO) 1h training + 30 min. questions & discussion	ESRs and those interested	Meeting link
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15:15 - 15:45	Break		
15:45 - 17:00	Closing session with ESRs: communication strategy, PODIO and Network-Wide Event 3 evaluation	ESRs, CM and PM	

MSCA-ETN SAS NWE 3

November 17-20, 2020

2



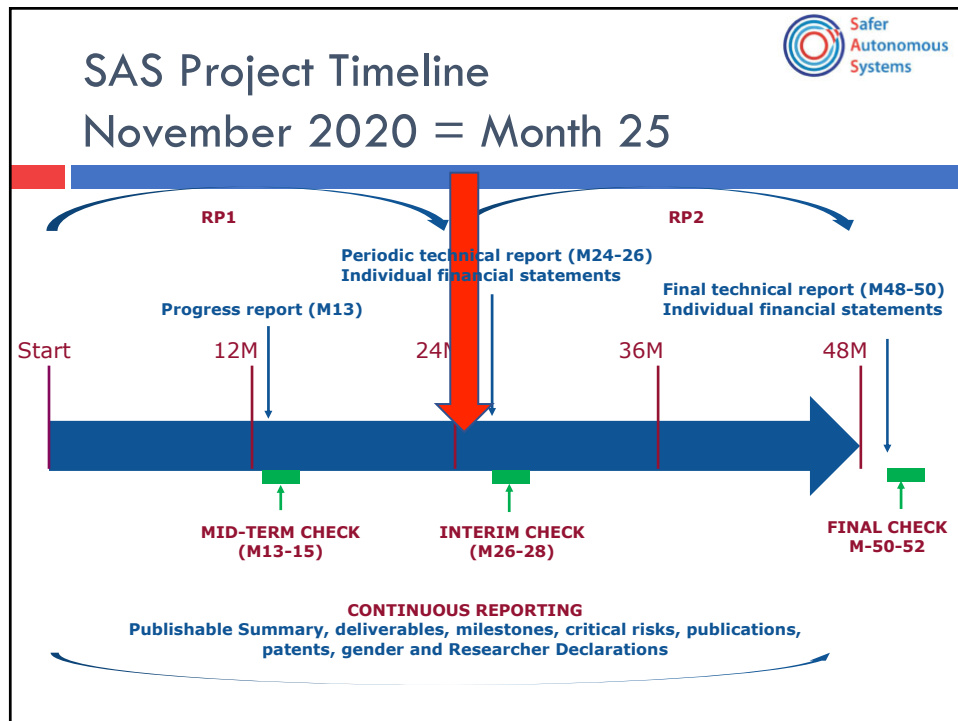
Safer Autonomous Systems

3

Closing session with ESRs, S/T Coordinator, CM, and PM

15:45-17:00 (CET)

3



4

Agenda

5

- Administrative items **10'**
- ESR Council NWE3: output/report **15'**
- WP Intermediate Discussions **15'**
- SAS Communication flow and strategy **15'**
- Network-Wide Event 3 **15'**
- AoB **5'**
 - ▣ Next Network-Wide Event
 - ▣ ...

MSCA-ETN SAS NWE 3

November 17-20, 2020

5

Administrative items

6

- ESR presentations Online NWE3: PPT and video presentations > final version...
- NWE3: Training Sessions Presentations will be available through PODIO.

MSCA-ETN SAS NWE 3

November 17-20, 2020

6

Administrative items

7

- Updated and signed PCDPs:
 - ▣ please send to me before November 27, 2020
- **Periodic technical report – your RTD-report**
 - ▣ please send to me before November 27, 2020
- **PCDP and RTD(E):** what is the difference?
- Deliverable 1.1 (Raul): due date November 30, 2020.
 - ▣ please send to me before November 27, 2020.
- Update Secondments Plan – **version 2:**
 - ▣ please send to me before January 31, 2021.

MSCA-ETN SAS NWE 3

November 17-20, 2020

7

Administrative items

8

- **Is everything clear regarding the requested information for SAS related reporting duties?**
 - ▣ Periodic Report
 - ▣ Deliverables/Milestones
 - ▣ [Secondments](#)
 - ▣ ...
- Please respect the guidelines and information that has been sent out. **If something is not clear, please ASK !!!**
- **Respecting the deadlines is...**

MSCA-ETN SAS NWE 3

November 17-20, 2020

8

SAS Project Visual Identity

9

EU funding acknowledgement



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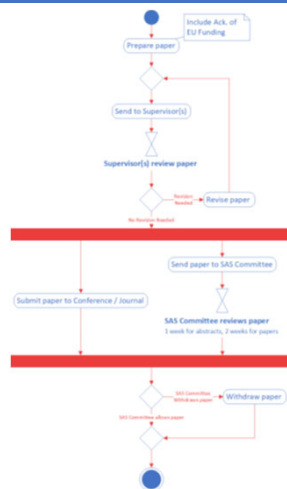
MSCA-ETN SAS NWE 3

November 17-20, 2020

9

Paper Pre-submission Procedure

10



MSCA-ETN SAS NWE 3

November 17-20, 2020

10

Paper Presubmission Procedure: Open Access



11

Each beneficiary of the EC must ensure Open Access to all peer-reviewed scientific publications relating to the results of the funding at the latest 6 to 12 months after publication (Art. 29.2 of the Model Grant Agreement).

**For more specific information:
presentation from Hannelore
Vanhaverbeke
(KU Leuven) on PODIO**

11

Paper Presubmission Procedure



12

- Is this up-to-date and okay with every ESR?

12

ESR Council Online NWE3

13

- Let's have a look at the report + improvements for future ESR Councils (Luca/Aleksandr)

13

WP1-3 Intermediate Discussions

14

- S/T Coordinator Dries Vanoost will follow up
 - ▣ Through short Microsoft Teams meetings:
 - Progress in research
 - Deliverables and milestones
 - Possible collaboration,
 - ▣ Dates will be set by a doodle to the ESRs
 - ▣ (Co-)Supervisor will be kindly invited
- Meetings through Microsoft Teams will be continued from January/February 2021: all ESRs within each WP + the WP leader

14

WP1-3 Intermediate Discussions

15

- Let's evaluate the Parallel Sessions since the last NWE.
 - **Breakout room/WP for 10'**
 - What did you think about the setup?
 - Same timeframes from January/February 2021 on?
 - Suggestions/ideas for the next presentations (time to present/flow of the intermediate sessions?)

 - **See/hear you all back within 10'**

MSCA-ETN SAS NWE 3

November 17-20, 2020

15

WP1-3 Intermediate Discussions

16

- Output from the breakout session
 - WP1:
 - Technical Presentation of 10'/ESR: foresee more time for Q&A?
 - Frequency of 2 Intermediate Meetings between each NWE
 - Possible collaboration within the WP?
 - Focus on (technical) research issues/problems?

MSCA-ETN SAS NWE 3

November 17-20, 2020

16

WP1-3 Intermediate Discussions

17

- Output from the breakout session
 - WP2:
 - Same format as the previous meetings?
 - WP3:
 - Technical presentation of 10'/ESR
 - Focus on more interaction/discussion: structure and lead in this?
 - Frequency of 2 Intermediate Meetings between each NWE

MSCA-ETN SAS NWE 3

November 17-20, 2020

17

SAS Communication Flow and Strategy

18

- Let's evaluate the **overall Communication Flow** within the SAS Project
 - **Breakout room/WP for 10'**
 - **How do you experience the communication that is been sending out from the Management Team regarding SAS related and required reporting duties?**
 - How do you think SAS Social Media is going so far?
 - How much are you involved in SAS Social Media?
 - How can we achieve more SAS Visibility?
 - What do you think about PODIO?
 - Suggestions for improvement of PODIO?
 - **See/hear you all back within 10'**

MSCA-ETN SAS NWE 3

November 17-20, 2020

18

SAS Communication Flow and Strategy

19

- Output from the breakout session
 - ▣ WP1
 - ▣ WP2
 - ▣ WP3

19

Network-Wide Event 3

20

- Let's evaluate this Online Network-Wide Event:
 - ▣ **Breakout room/WP for 10'**
 - What did you **really** think of this Online NWE?
 - What did you think about the specific Online Training Sessions?
 - Suggestions for future (online) NWE trainings?
 - How was the Social Activity?
 - **ESR Video presentations >> possible outreach and further dissemination?**
 - ▣ **See/hear you all back within 10'**

20

Network-Wide Event 3

21

- Output from the breakout session
 - WP1
 - WP2
 - WP3

21

AOB: Next Network-Wide Event

22

- **SAS NWE 4 in Wageningen (NL) @ MARIN:**
 - 5 days
 - **Final Dates: May 3-7, 2021**
 - Physical or online Event: will be decided at the Conference Call with SAS Consortium (Feb 2021)
 - @ESRs: if visa required for attending this NWE, please apply as soon as possible.

22

Impact of COVID-19 crisis

23

- Please keep the SAS Management Team informed regarding any issues/difficulties that might occur so we can take contingency measures and align everything with the Project Officer.

23

AoB

24

24

Thank you all for attending this third
Network-Wide Event and looking
forward to seeing you all (hopefully)
at Wageningen at our next Network-
Wide Event in May 2021.

Annex 10

SAS NWE III Survey Form

MSCA ETN SAS NWE 3 – Survey Form – ESRs

Please fill in the Survey Form to provide us your feedback on MSCA ETN SAS network-wide event III, which took place online through Teams on November 17 – 20, 2020.

Regarding the scores: 1 = Poor, 5 = Excellent

Project Meetings

How satisfied were you with the ESR council? *

1 2 3 4 5

How satisfied were you with the provided progress report? *

1 2 3 4 5

How satisfied were you with the Work Package parallel sessions? *

1 2 3 4 5

General comments or Notes regarding the project meetings?

If you want to provide feedback on the ESR council, make sure no private information or discussions are leaked and the feedback is thus properly anonymized or made generic.

ESR Pitch presentations

How satisfied were you with the individual ESR presentations? *

1 2 3 4 5

How satisfied were you with the Q&A sessions after the pitch presentations? *

1 2 3 4 5

How satisfied were you with the format (Videos + Q&A sessions) of the ESR Pitch presentations? *

1 2 3 4 5

General comments or Notes regarding the ESR pitch presentations



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 Network-Wide Event III, once again remotely
5 days ago



SAS NWE III 17/11 – 20/11 @ Teams by Fraunhofer IKS and KU Leuven
20 days ago



The Techniques for Assurance Case Evidence Generation
October 13, 2020



Part-of-Speech Tagging using Hidden Markov Models
September 23, 2020



SAS participation in ET 2020
September 17, 2020

SAS PROMO VIDEO



ETN-SAS Newsletter

First Name

Please enter your first name.

Last Name

Please enter your last name.

Email *

Please enter your email.

