



D17 – Dissemination and Outreach Mid-Term Plan and Report

ECOLE

Experience-based Computation: Learning to Optimise
766186

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Beneficiaries: Universiteit Leiden, Honda Research Institute, NEC Laboratories

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1. Introduction

ECOLE's aims for dissemination were outlined in the grant agreement in section 2 "Impact", specifically sub-section 2.3.1 "Dissemination of the research results". Work package 6 "Communication and Dissemination" focuses on the delivery of these aims and contains five deliverables, detailed in Table 1. Including this report, three deliverables have been achieved with the remaining two to be delivered at the project end date.

Table 1 - List of Deliverables for Work Package 6

Deliverable	Description	Due Date (month)	Status
D6.1	Project Website	3	Complete
D6.2	Dissemination and outreach plan	3	Complete
D6.3	Dissemination and outreach mid-term plan & report	24	Complete
D6.4	Dissemination and outreach final report	48	Pending
D6.5	Summer schools and career events	48	Pending

The topics highlighted in the grant agreement and the previous report, D6.2 will be discussed in the body of this report. It is the aim of ECOLE to disseminate project information to a vast audience; academics, stakeholders and the public, and the methods for dissemination will be tailored appropriately to each. The methods include forms of online media, publications, conferences and outreach activities.

2. Online Content

An ESR representative has been nominated for each channel (blog, Twitter and Instagram) to assist in producing content. This also serves as a practical training of ESRs in producing materials that are accessible by a broad range of audience. A code of conduct was agreed by the management team to provide guidelines for what is shared online (Appendix section 7.1). The document outlines what type of content is appropriate for each channel and reminds the group to be sensible online and conform to GDPR and IP regulations. ESRs also have access to several guides (listed Below) provided by EU and the University of Birmingham (UoB) to explain the benefits of using online media to communicate project results and the best practice to make the most of developing content online.

Social Media Guides:

- Communicating EU Research and Innovation Guidance for Project Participants
- Dissemination and Exploitation Activities in Horizon 2020
- Social Media Guide for EU funded R&I Projects
- UoB Social Media Guide

2.1. Website

One of the main communicative tools for ECOLE is the project website (<https://ecole-itn.eu/>). The website includes information regarding ECOLE partners in addition to project objectives and aims. A publication page has been added as manuscripts have been accepted for conferences with links to direct traffic to a PDF of the papers. The publications are therefore available to a wider readership via the website. The publication of meeting dates, symposia and conferences are ongoing. As outlined in work package 6, the ESRs are to create and maintain the website with content. ESR participation has been successful with the implementation of a blog.

2.1.1. Blog

The blog has been coordinated by ESR5 (Jiawen Kong) and has produced monthly articles since October 2019. The blog mainly covers two topics, experience sharing, and academic knowledge. The blog aims to share some optimization and machine learning knowledge related to the ECOLE project to junior researchers and master students in the field of computer science (see Table 2 for full list). ESRs in an ITN program greatly benefit from their experience in industry, so they also share their industry experience to help other PhD candidates to bridge the gap between academic research and real-world application. The blog is updated by one ESR every two weeks (with possible extension) and to date there are eight posts (one per student), giving the ESRs the opportunity to practice their skills in communicating with other researchers as well as the broader audience. In the future, we will keep running the blog according to the existing plan.

Table 2 - List of Published Blog Articles

Author	Date	Title
Giuseppe Serra	09.03.2020	First Year for Being an ESR in ECOLE
Gan Ruan	21.02.2020	Brief Introduction to Evolutionary Dynamic Multi-Objective Optimization
Stephen Friess	10.02.2020	First Year of ECOLE – A Review
Duc Anh Nguyen	21.01.2020	MIP-EGO4ML: A python Hyperparameter optimization library for machine learning
Sneha Saha	20.12.2019	Experience of My First Paper and Conference
Jiawen Kong	21.11.2019	Short Introduction about the Class Imbalance Classification problem
Sibghat Ullah	04.11.2019	Crucial Facets of Modern Time Series Analysis
Thiago Rios	11.10.2019	Sharing Experience of First Year in ECOLE

2.2. Twitter

The published blogs are shared on Twitter to keep content current and to publicise ECOLE results to a wider audience. Various ITN network channels are followed and posts retweeted, generating potential synergies among different ITNs. The twitter feed is published on the home page of the ECOLE website so visitors can view the feed and encourage following.

2.3. Instagram

Instagram has proven to be a challenge for the project as the group is working across Europe and don't come together often. The subject matter also presents a challenge to communicate in pictures. However, being proactive and planning in advance to take photos at conferences and project meetings will allow content to be updated in future.

3. Outreach

Objective 6.4 of work package 6 states “Maximise the project impact by disseminating results to the wider public”. One ESR has already participated in an outreach event (Z2X19 Festival, details below) while others based at the University of Birmingham have been trained in methods for public engagement, see Training sub-section 4.4.

Z2X19, Festival of Young Innovators, Berlin, Germany, 31/8/19

ESR 6 – Stephen Friess

This event was organized by the newspaper “Die Zeit” and was open to young adults of ages 20-29 from various professional backgrounds. Stephen attended to discuss the ECOLE project and presented a 10 minute talk to the audience. Stephen communicated that nature gives inspiration to innovative applications in Artificial Intelligence. The talk was well received and sparked a discussion with participants interested in following project progress online. Stephen felt that some audience members may have struggled with the technicalities however, this will provide him feedback to use more appropriate and relatable terminology and examples in future presentations to lay audiences. Z2X19 has organized a follow up skills training event on 18 April 2020 which Stephen will also attend.



Figure 1 – Title Slide of Stephen's Outreach Presentation

4. Training

Work package 6 objective 6.2 states “Increase the research and training impact through disseminating project results via tutorials, presentations and exhibitions at project meetings,

workshops, summer schools and career events”. The following subsections outline how this is being achieved.

4.1 Attendance at Schools and Meetings

There have been several Schools and project meetings (Table 3) where at each, the ESRs have been allocated a 20 minute presentation time with 10 minutes for Q&A. This allows the ESRs practice of presenting in public while also giving the supervisors in attendance the opportunity to feedback on their results and presentation style. This training has been invaluable to prepare the ESRs presenting at international conferences. The next presentation will be at the management meeting in NEC in May 2020. Invitations have been sent to the ECOLE advisory board members and therefore the ESRs work will be presented to a wider audience. At the time of finalizing this report, the COVID-19 virus has spread to most of the Europe. The ECOLE Management Committee is discussing holding the May 2020 meeting online.

Table 3 - List of Meetings Where ESRs Have Presented Their Work

Meeting Name	Location	Date
ECOLE ESR Workshop	Leiden University	30/11/18
Management Meeting and Mid-term Check	University of Birmingham	21/05/19
Summer School	Leiden University	29/07/19
Management Meeting	HRI-EU	14/10/19
Winter School	NEC	14/01/20
Management Meeting	NEC	07/05/20

4.2 HRI European Graduate Network (HRI-EGN)

As per page 14 of the grant agreement, “Role of non-academic sector in the training program”, HRI-EU states that the ESRs are explicitly embedded in the company’s organizational structure and will participate actively in scientific discussions, engineering expertise exchange and personal skill development. They will also be part of the HRI European Graduate Network (HRI-EGN) which is the organisational framework for the scientific support and supervision of all students (of all levels). This network establishes intensive scientific and personal communications between supervisors and students. The meetings occur biannually typically in Feb/March and Sep/Oct and the students are responsible for the coordination of these meetings with their supervisors. They have to provide a report and discuss this with their supervisor during a 1 hour meeting.

In addition, as part of the EGN framework the EGN symposium is held every two years. The EGN symposium is a scientific exchange meeting between all researchers listed in the EGN, i.e. PhD-students and their supervisors, giving an excellent chance for sharing current research work and stimulating lively discussions between all attendances. In a conference style, slide presentations and poster presentations are given as spark for intensive exchange. It also gives the ESRs the

opportunity to network with other researchers from University and industry. The next EGN meeting is planned for End of September 2020 and each ESR will illustrate their research to the audience as poster presentations at that occasion.

Such training provided by the industry helps ESRs to develop practical skills that are relevant to European industries. It also provides important opportunities for our ESRs to network with industrialists and other PhD students funded by the industry.

4.3 NEC training

As planned in the grant agreement “Role of non-academic sector in the training program” (page 14), NEC provided the opportunities for the ESRs to participate in cutting-edge machine learning research, and introduce the ESRs into real industrial projects collaborating with leading industrial experts. One of the results has been submitted to the 2020 International Joint Conference on Neural Networks (IJCNN 2020, Table 5). NEC has organized a winter school about Statistical Machine Learning and Deep Learning during January 13 – 14, 2020. The leading researchers were invited to introduce to the ESRs the recent advances in the machine learning community and the hands-on experience with real applications. Together with the other consortium partners, NEC organized the Workshop on Learning and Mining with Industrial Data (LMID 2019), which was held in conjunction with the 2019 IEEE International Conference on Data Mining (ICDM 2019) on November 8, 2019. This workshop introduced the ECOLE project to the machine learning community, and brought together researchers and practitioners from academia and industry to discuss challenges, emerging topics, and recent advances in learning and mining with industrial data. The works of two ESRs were selected by a triple-blind review process and reported to the community.

4.4 Public Engagement Course at UoB

The University of Birmingham public engagement team are established practitioners in communication and frequently coordinate and organise public engagement events and training. ECOLE students were involved in a college wide training event learning with ESRs from different departments in November 2019. The aim of this session, was to train researchers in delivering outreach activities and included information on how to fund an activity, tips for planning and also tips for evaluating the outcome of the event. It included sessions on what outreach was and provided information to increase confidence in delivering this sort of activity. Using the example of delivering an activity to a primary school, they demonstrated how to encourage enthusiasm and curiosity in their students about science through interactive sessions/workshops. During the session, students also participated in communication activities where they explained their research in a simplified manner to other researchers who are not related to the field of study.

5. Presentation of Publication at International Conferences

As outlined in work package 6, objective 6.1 states “Mainstay of dissemination to the research community, through scientific publications in journals and presentations at top-quality conferences”. In the first year, the ESRs have attended a major international conference with eight papers accepted for publication (now published, Table 4). The papers have been placed in the IEEE repository with the author accepted versions placed in the University of Birmingham repository and therefore are green open access. PDF versions are also available via the ECOLE website. The ESR feedback on their experience of the conference is detailed below:

Learning and Mining with Industrial Data, 8-11 November 2019

The workshop on Learning and Mining with Industrial Data was held in conjunction with the 2019 IEEE International Conference on Data Mining, Beijing, China. There were researchers and practitioner from academic and industry to discuss about challenges and recent advances in learning and mining with industrial data.

ESR2 – Sneha Saha

The aim of the research paper Sneha presented (Table 4) is to use RNN for next step design prediction for industrial design predictions.

IEEE Symposium Series on Computational Intelligence (SSCI) 2019, 6-9 December 2019

IEEE is an annual international conference on computational intelligence and aims to promote collaboration. The conference was held in Xiamen, China and organized by Xiamen University, Xi'an University of Posts and Telecommunications and Fujian Association of Artificial Intelligence Institute. It is sponsored by the IEEE Computational Intelligence Society. The audience consists of academics in addition to industrial institutes and is relevant to those working on machine learning and optimization. Our ESRs had the opportunity to present their work and participate in active Q&A sessions.



Figure 2 – Registration at IEEE, SSCI 2019

ESR1 – Thiago Rios

Thiago submitted two papers and was accepted for both at the conference. The first focuses on the feasibility of geometric deep learning architectures to abstract geometric features for engineering optimization and the next extends the autoencoder architectures to high-dimensional (engineering) geometric models and how to approach such problems (details of both in Table 4). Thiago has described his experience below:

“I really enjoyed participating in the IEEE SSCI 2019. It was a nice opportunity to collect unbiased feedback from researchers that had no contact at all with my research, to share my contributions to the machine learning community, and to start discussions on how experience plays a role in engineering optimization tasks. It is very rewarding to see that we have been working on cutting edge research topics – unknown to most of the people we have talked to – and achieved already such nice results.”

ESR2 – Sneha Saha

The aim of the research paper is to how we can use hyper-parameter tuning of optimization algorithm to mimic human user behaviours (Table 4).

“This was my first experience to present my research paper in a conference. Presenting my research in front of other researchers, helped me to structure my research and also the feedback from the audience helped to get other possible aspect I need to look in my research. Also during the conference, I attended several other presentations from other researchers which gave me lot of ideas about extending my research.”

ESR5 – Jiawen Kong

Jiawen submitted and was accepted to present a paper at one of the conference sessions (Table 4). The paper emphasizes the importance to optimize hyperparameters in both resampling techniques and machine learning classification algorithms and also points out it is necessary to learn the data complexity in the original data before optimizing the hyperparameters.

“I enjoyed the SSCI conference a lot. It is such a well-organized conference and provides me the opportunity to communicate with other researchers. After my presentation, two researchers were quite interested in my research and we discussed a bit in the Q&A section. We even exchanged our email address afterward in order to have a further discussion. This is a really nice opportunity for me to meet other excellent researchers who work closely in my field and expand my research network, which is definitely good for my future research and career.”

ESR6 – Stephen Friess

Stephen presented his paper (Table 4) on model-based transfer learning in optimization and the goal of harnessing procedural data to boost the efficiency of optimization algorithms.

“Personally, I enjoyed the conference as it was well organized and a good opportunity for scientific exchange. I particularly had valuable discussions with researchers in automatic machine learning and optimization. Further, the broad range of talks and sessions allowed me to peek into fields beyond my area of research.”

ESR7 – Gan Ruan

Gan successfully submitted a paper (Table 4) and had the opportunity to present it at the conference. The publication focuses on investigating when and how to transfer knowledge to assist the optimization of dynamic multi-objective optimization problems using evolutionary algorithms. Gan described his experience below:

“I appreciate this chance to participate in the IEEE SSCI 2019, which is my first time to take part in an international conference like this. During the conference, I really enjoyed joining the talks that were given in the research field of evolutionary computation and machine learning, getting their insights into the development of related topics. Through giving the talk regarding my presented paper, it was very beneficial for me to receive constructive comments and it potentially helps me to improve my work. Also, while participating in the talks and posters and communicating researchers from all aspects, I gained my knowledge in related topics and had an over view about what researches people are undertaking.”

22nd International Conference on Business Information Systems (BIS) “Doctoral Consortium”, 26th June 2019

BIS is attended by a multi-disciplinary audience and encourages discussions on development, implementation of ideas with intelligence methods for business computing applications.

ESR5 – Jiawen Kong

Jiawen presented her work on ‘Hyperparameter Optimization for Improving Classification under Class Imbalance’ (research ideas, the current progress, future plans). Each student had a 15 minute presentation, followed by a Q&A session to receive feedback on their work.

“Although I didn’t publish a paper here, I did present my work to my audience and enjoy the conference a lot. The Doctoral Consortium I attended is designed for fresh PhDs. We, first-year PhD students, not only communicate our research work, but also exchange the feelings about the PhD life, for example, how to deal with the research pressure and so on. In the Doctoral Consortium, a tutor who has some experience in my field was assigned to provide me some suggestions for my research. This is a unique experience for me because during my first year of my PhD, I mostly got advice from my university supervisors but didn’t have the chance to listen to the voice outside. I did enjoy these communications!”

Table 4 - List of Published Manuscripts

Reference	DOI
<u>IEEE Symposium Series on Computation Intelligence 2019, 6-9 December 2019</u>	
Rios, T., Wollstadt, P., Stein, B.V., Bäck, T., Xu, Z., Sendhoff, B., & Menzel, S., "Scalability of Learning Tasks on 3D CAE Models Using Point Cloud Autoencoders," 2019 IEEE Symposium Series on Computational Intelligence (SSCI), Xiamen, China, 2019, pp. 1367-1374.	<u>DOI:</u> 10.1109/SSCI44817.2019.9002982
Rios, T., Sendhoff, B., Menzel, S., Bäck, T., & Stein, B.V. (2019). On the Efficiency of a Point Cloud Autoencoder as a Geometric Representation for Shape Optimization. <i>2019 IEEE Symposium Series on Computational Intelligence (SSCI)</i> , 791-798.	<u>DOI:</u> 10.1109/SSCI44817.2019.9003161
Saha, S., Rios, T., Minku, L.L., Yao, X., Xu, Z., Sendhoff, B., "Optimal Evolutionary Optimization Hyper-parameters to Mimic Human User Behavior," 2019 IEEE Symposium Series on Computational Intelligence (SSCI), Xiamen, China, 2019, pp. 858-866.	<u>DOI:</u> 10.1109/SSCI44817.2019.9002958
Ruan, G., Minku, L.L., Menzel, S., Sendhoff, B., Yao, X., "When and How to Transfer Knowledge in Dynamic Multi-objective Optimization," 2019 IEEE Symposium Series on Computational Intelligence (SSCI), Xiamen, China, 2019, pp. 2034-2041.	<u>DOI:</u> 10.1109/SSCI44817.2019.9002815.
Friess, S., Tiño, P., Menzel, S., Sendhoff, B., and Yao, X., "Learning Transferable Variation Operators in a Continuous Genetic Algorithm," 2019 IEEE Symposium Series on Computational Intelligence (SSCI), Xiamen, China, 2019, pp. 2027-2033.	<u>DOI:</u> 10.1109/SSCI44817.2019.9002976
Kong, J., Kowalczyk, W., Nguyen, D.A., Bäck, T. and Menzel, S., 2019, December. Hyperparameter Optimisation for Improving Classification under Class Imbalance. In <i>2019 IEEE Symposium Series on</i>	<u>DOI:</u> 10.1109/SSCI44817.2019.9002679

Computational Intelligence (SSCI) (pp. 3072-3078). IEEE.	
S. Ullah, H. Wang, S. Menzel, B. Sendhoff and T. Back, "An Empirical Comparison of Meta-Modeling Techniques for Robust Design Optimization," 2019 IEEE Symposium Series on Computational Intelligence (SSCI), Xiamen, China, 2019, pp. 819-828.	<u>DOI:</u> 10.1109/SSCI44817.2019.9002805
<u>Workshop on Learning and Mining with Industrial Data, 8-11 November 2019</u>	
S. Saha., Rios, T.D., Sendhoff, B., Menzel, S., Bäck, T., Yao, X., Xu, Z., & Wollstadt, P., "Learning Time-Series Data of Industrial Design Optimization using Recurrent Neural Networks," 2019 International Conference on Data Mining Workshops (ICDMW), Beijing, China, 2019, pp. 785-792.	<u>DOI:</u> 10.1109/ICDMW.2019.00116

6. Future Plans

The project is working towards the deliverables stated in work package 6 (Table 1). Project results will be published in journals and conference proceedings in addition to online content as the project progresses. It is thought that the results could also create tangible results for end users such as free software tools. ESRs training and career progression will be measured by their participation in communication activities and engaging with industrial partners, both adding to their transferable skills and increasing employability.

6.1. Website

As stated in the grant agreement, a mailing list was to be created that web users can sign up to that will inform them about ECOLE results and upcoming opportunities. Although the mailing list is a feature on the website, a more targeted strategy will be established to encourage readers to sign up. It will then have to be determined the frequency of posts and the content.

6.2 Open-source software and design tools

The report D6.2 outlined the aims for software to be packages for R (www.r-project.org) for researchers and professionals to download freely and would be demonstrated at industrial events. Progress on this objective will be discussed at the management meeting in May 2020.

6.3 International career events

This is an objective of work package 6 specifically 6.3 is to “Maximise Career opportunities for ESRs”. The objective states that the partners will organise opportunities for ESRs by inviting world leading experts to deliver lectures and organize network activities. As per D6.2 these would be relevant to the automotive and ICT sectors to engage EU companies and maximise ESR career opportunities. ESR7’s placement in TATA Steel Europe is a step towards this. In addition when ESRs attend international conferences, they have excellent opportunities to meet people from both academia and industry, which provide great potential career opportunities.

6.4 Liaison and cooperation with related projects

Progress on this objective will be discussed at the management meeting in May 2020.

6.5 Social media

There is an opportunity for the ESRs to be more engaged with social media opportunities and it is thought the nominated person will be rotated to allow everyone experience at managing channels. There should be more active publication of content to ensure channels do not look out of date this will also increase following. ESRs should be actively sharing pictures to the nominated person for each channel so content can be updated regularly. An aim of the project is to share project related videos that can be shared online, now that results are being gained, the coming year would be a good time to begin this aspect.

6.6 Dissemination to the general public

Our grant proposal outlined dissemination via broadcast and the ESRs have been circulated information regarding the Academic Ideas Lab to learn skills for broadcast. At the previous management meeting in October 2019, the board discussed at length the opportunity to participate in Nacht van Kenis which is taking place in September 2020. Several ideas were discussed to create content for this event.

6.7 Presentations at Conferences and Workshops

There are several upcoming conferences that the ESRs have prepared manuscripts for. A list of those that have been accepted can be found in Table 5.

Table 5 - List of Accepted Manuscripts

Authors	Title
<u>24th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Singapore 11-14 May 2020</u>	
Jiawen Kong, Thiago Rios, Wojtek Kowalczyk, Stefan Menzel, Thomas Bäck	On the Performance of Oversampling Techniques for Class Imbalance Problems

<u>IEEE World Congress on Computational Intelligence, The International Joint Conference on Neural Networks (IJCNN), Glasgow, 19-24 July 2020</u>	
Thiago Rios, Bas van Stein, Stefan Menzel, Thomas Bäck, Bernhard Sendhoff, Patricia Wollstadt	Feature Visualisation for 3D Point Cloud Autoencoders
Stephen Friess, Peter Tino, Stefan Menzel, Bernhard Sendhoff, Xin Yao	Representing Experience in Continuous Evolutionary Optimization through Problem-tailored Search Operators.
Sibghat Ullah, Zhao Xu, Hao Wang, Stefan Menzel, Bernhard Sendhoff, Thomas Bäck	Effectiveness of Supplementary Medical Information in Variational Recurrent Models for Clinical Time Series Forecasting
<u>IEEE World Congress on Computational Intelligence, Congress on Evolutionary Computation (CEC), Glasgow, 19-24 July 2020</u>	
Gan Ruan, Leandro Minku, Stefan Menzel, Bernhard Sendhoff, Xin Yao	Computational Study on Cost and Performance of Knowledge Transfer in Dynamic Multi-Objective Optimization

6.8 Additional Publications

The next conference submission that ECOLE will be applying to is the 16th International Conference on Parallel Problem Solving from Nature in Leiden, September 5-9, 2020 and the abstract deadline is 15th April 2020. There are also several manuscripts in preparation for conferences that are upcoming see Table 6.

Table 6 - List of Manuscripts in Preparation

Authors	Title
<u>6th International Conference on Parallel Problem Solving from Nature, Leiden 5-9 September 2020</u>	
Stephen Friess, Peter Tino, Stefan Menzel, Bernhard Sendhoff, Xin Yao	Improved Stochastic Sampling in Evolutionary Search Strategies through Model-based Operators from Prior Problem Instances
Sibghat Ullah, Hao Wang, Stefan Menzel, Bernhard Sendhoff, Thomas Bäck	Variational Autoencoders for Dimensionality Reduction in Surrogate-Assisted Design Optimisation
Jiawen Kong, Wojtek Kowalczyk, Stefan Menzel and Thomas Bäck	Improve Class Imbalance Classification with Anomaly Detection Ideas
Duc Anh Nguyen, Hao Wang, Zhao Xu, Stefan Menzel,	Hybridizing Bayesian Optimization and Hyperband for Hyperparameter Optimisation

Bernhard Sendhoff, Thomas Bäck	
<u>European Conference on Machine Learning and Principles and practice of Knowledge Discovery in Databases,</u> <u>Ghent, 14-18 September 2020</u>	
Giuseppe Serra, Zhao Xu, Mathias Niepert, Carolin Lawrence, Peter Tino, Xin Yao	Exploring Interpretable Node Embedding with Text-Labeled Graphs

7 Appendix

7.1 ESR online guide



Expectations for Social Media and Outreach

This document outlines the expectation from the ECOLE Management Committee as to the type of content that is acceptable to generate on ECOLE channels. There are further EU guides on social media that are available to everyone on BearDataShare in the Project Information folder. Please also be aware of ECOLE participants preferences for use of their name and picture on the channels (copies of the GDPR agreement is in the Project Information>ECOLE GDPR folder in BearDataShare). It is expected that everyone conducts themselves appropriately and professionally online.

All-over requirements:

- The person in charge (PIC) is responsible to organize and facilitate the content, will communicate with the project manager about final content to be published
- All output has to go through the project manager at UoB (Hilary Anderson) for a final check and publication
- Ensure GDPR and IP compliance
- Ensure compliance with EU contracts and beneficiaries contracts

Website:

Requirements:

- Announcement of publications and meetings
- Accurate/up-to-date information of participants/people page
- Regular blog updates from ESRs (see below)
- Up-to-date contact information
- Imprint and legal notices

PIC: Hilary Anderson, Felix Wittleben, Nevriye Memet

Blog:

Requirements:

- ☐ 1 blog post per week (in rotation every ESR has to provide one story each 8 weeks)
- ☐ Non-confidential content only

PIC: Jiawen Kong

Twitter:**Requirements:**

- Announcement of new blog post on twitter Announcements or retweets of scientific papers etc. relevant to this field
- Announcements of accepted papers
- Announcements of conference visits of ESRs
- Announcements of invited presentations by ESRs
- Announcements of organized workshops
- Announcements of participations at training events/summer schools
- Announcements of project meetings and workshops

PIC: Gan Ruan

Instagram:**Requirements:**

- Regular updates about social aspects of ESRs within the project
- Updates from project meetings as well as scientific meetings

PIC: Stephen Friess