ExPaNDS

Annual report on training activities, workshops held, materials published and investigations performed - YEAR 1.

Document Control Information

Settings	Value
Document Identifier:	D5.1
Project Title:	ExPaNDS
Work Package:	WP5
Document Author(s):	Thibaud Cayla
Doc. Version:	1.0
Dissemination level:	Public
Date:	31/08/2020

Abstract

This document presents initial coordination activities in the 'training' area of the ExPaNDS project. Although tasks related to training activities will only start with the second year of the project, necessary coordination between institutes has already been done. Means to mitigate the COVID-19 pandemic impact on the project and its activities are also presented.

Executive Summary

Training is an essential part of the ExPaNDS project and it will be performed in two different ways:

- Workshops will be organized by different facilities.
- An E-learning platform will be used to collect and publish training material accessible to users and staff of Photons and Neutrons facilities.

During the first year WP5 activities focused on the coordination with PaNOSC WP8 dedicated to training activities. Indeed, one of the main achievements of PaNOSC WP8 is to develop a shared e-learning service and training material platform linking PaN (Photons and Neutrons) research infrastructures. This e-learning platform and service will be used by all facilities involved in PaNOSC and ExPaNDS to provide training to staff and users.

The first FAIR workshop for ExPaNDS will be held remotely on 1st and 2nd of October 2020. Due to the Covid-19 crisis, we had to rethink the way workshops were held. This is the reason why workshops will now be done remotely, allowing attendees to stay in their facilities for safety reasons. Furthermore, these workshops can be recorded, making them re-usable, and easily findable on the E-learning platform.

A Training Task Force (TTF) was set up between ExPaNDS WP5 and PaNOSC WP8 leaders and co-leaders to follow up the development of the training platform.

Next steps of WP5 activities will be dedicated to training material content in the PaN e-learning platform. The training material (remote webinars, MOOC, documents, datasets, etc…) will be developed by WP2, WP3 and WP4 and monthly progress meetings will be organised with the "technical" ExPaNDS WP leaders and PaNOSC WP8 leader and co-leader to follow up the actions from M13.

In addition, WP5 leader is involved in the training & skills task force of the INFRAEOSC5b projects. The mission of this task force is to coordinate actions between the 5 selected projects of the INFRAEOSC 5b call, and to seek common points between the projects and develop synergies.

Report on training activities

For this report we will firstly remind the description of work per task. We will then describe the progress done in the task, and the following steps and events to come.

T5.1	Organising at national RIs' a series of staff and users training events (SOLEIL)
Status:	On-going
Description of work:	***Lead partner: SOLEIL, Contributors: HZDR, UKRI, PSI, DESY, DLS, EGI*** The purpose of T5.1 is to promote the outcomes of the catalogues and services provided by ExPaNDS for EOSC by organising a series of events. As a reminder, a total of 6 workshops will be organised by ExPaNDS partners and associates, with the following objectives: - to promote FAIR principles for PaN RIs (T5.1.1 – M12), - to develop common rules and best practices between national RIs and harmonise the provision of the EOSC services (T5.1.2 – M12), -to educate and train developers and facility staff on how to deploy and support their own workflows enabling a long term viability and sustainability of the data analysis services (T5.1.3 – M25), - to educate and train metadata catalogue services within data management and data life cycle management (T5.1.4 – M34), - to educate and train Photon and Neutron users in the use of the data analysis services (T5.1.5 – M35)
Progress:	A Training Task Force (TTF) was set between ExPaNDS WP5 and PaNOSC WP8. Here are the participants of the TTF: Thibaud Cayla (SOLEIL), Nazaré Guimard (SOLEIL), Uwe Konrad (HZDR), Oliver Knodel (HZDR), Thomas Rod (ESS), Peter Willendrup (ESS), Florian Gliksohn (ELI), Guiseppe Larocca (EGI). Monthly meetings were set to follow up common workshops to be organised by ExPaNDS and PaNOSC. Regarding T5.1.1 activities, WP2 has started to review possible content for a first 'FAIR' workshop with the FAIRsFAIR project. The workshop will be held the 1st and 2nd of October 2020 remotely (as a workshop series using Zoom, with two 1.5 hour sessions). The corresponding milestone is M5.1 (First (pilot) national training event organised and performed) is due on M24 (August 2021).
Next steps:	More generally, a new format of remote webinars accessible online is being discussed. Such remote workshops could be used as sustainable training material through videos of the workshops/webinars that will be attended by a larger number of participants and that will be shared through the PaN e-learning platform as valuable training material. Generalising remote webinars instead of traditional workshops is therefore envisioned for the whole project duration as the COVID-19 mitigation; restrictions will still be imposed and countries and institutions will have different policies regarding travels. One of the goals of ExPaNDS is to operate experiments remotely to have access to data, tools, and knowledge. Regarding training material, it will be the same for workshops, and WP6 will provide all the tools necessary to create and participate to such events. The format of these remote workshops will be adjusted following the topics and will include several speakers. The first workshop is organized with 90 minutes sessions per day, the format may change according to the feedback from speakers and attendees. Roundtables are possible with the software used for the workshops. The flexibility of remote access allows the organisation of workshops for specific attendees who usually would not travel for a training

T5.1	**Organising at national RIs' a series of staff and users training events (SOLEIL)**
	workshop (facilities staff, users…). Further discussions on the resources allocated to plan theses workshops will be discussed, as more training material may be necessary. Joint workshops between PaNOSC and ExPaNDS on common topics such as FAIR are also considered. Regarding the task 5.1.2, Diego Scardaci (EGI) has done a presentation for WP3 and WP4 of ExPaNDS regarding EOSC onborading. Slides from the presentation can be found here : https://github.com/panosc-eu/panosc/tree/master/Work%20Packages/WP6%20EOSC%20Integration/Slides/2020-07-15%20ExPaNDs%20EOSC%20Portal%20OnBoarding A face-to-face PaNOSC/ExPaNDS meeting, initially planned on March 2020 at ESS, was cancelled due to COVID-19. This common meeting will be replaced by 2 workshops that will be held as soon as possible. These workshops will focus on the possibilities offered by the PaN e-learning platform, the nature of training material to be developed, and the integration of the new content A spreadsheet was set by the WP5 leader and will be updated with all the information regarding workshop organisation and shared with WP6 for external communication. The first version is included in this annual report in Annex1.

T5.2	**Evaluation of available e-platforms and provision of a training demonstrator (HZDR)**
Status:	On-going
Description of work:	*Lead partner: HZDR, Contributors: SOLEIL, EGI* The purpose of this task is to contact the e-platforms providers (ESRF for PaNOSC and EGI for EOSC-hub) to define together the prerequisites to maximise and expand the use the platforms as appropriate.WP2, WP3 and WP4 will work closely with WP5 and WP6 to deliver tailored specification for each of the online training. The output will be a definition of the most suitable training materials in accordance with the requirements and recommendations made by the targeted e-platform providers. A demonstrator for using e-learning platforms will be developed and provided (D5.2).
Progress:	A Training Task Force (TTF) was set up between ExPaNDS WP5 and PaNOSC WP8 leaders and co-leaders. Monthly meetings were established by this task force to follow up on the actions carried out by both projects, especially on the PaN e-learning platform's development and migration by PaNOSC. E-neutrons.org domain migration to ESS has been delayed and the new domain https://pan-learning.org/ is available since April 2020. PaNOSC is refurbishing an existing neutrons e-learning platform and maintaining it. It has been migrated to ELI and renamed https://pan-learning.org/ . The migration of the server (PaNOSC task 8.1) that was initially planned to be done before ExPaNDS started, but was delayed to April 2020. The Training Task Force (TTF) mainly composed of ExPaNDS WP5 leader and co-leader and of PaNOSC WP8 leader and co-leader participate in monthly meetings to define and follow-up the interface of the platform. 6 meetings in total have been organized since the beginning of the project. The last training and skills INFRAEOSC5b task force meeting held on 30/06/2020 included the presentation of a training portal developed by ELIXIR (https://tess.elixir-europe.org/) that could be used as a model for the PaN community.

T5.2	Evaluation of available e-platforms and provision of a training demonstrator (HZDR)
Next steps:	A meeting (remote or face to face) will be held in September 2020 to clearly estimate the remaining work needed by ExPaNDS WP5 and PaNOSC WP8 to have a functional platform. HZDR has already filled a position to work on the ExPaNDS project (Oliver Knodel). SOLEIL has also resources to open a position for task 5.2 and task 5.3. Giuseppe Larocca (EGI) will participate in this task.

T5.3	Collection, Preparation and Publishing of Training Material (SOLEIL)
Status:	On-going
Description of work:	*Lead partner: SOLEIL, Contributors: HZDR, EGI, UKRI, PSI, DESY* The purpose of this task is to provide the training materials to foster the uptake of ExPaNDS services in the existing e-learning platforms. WP5 will support the collection of the material provided by the technical work packages. WP2, WP3 and WP4 and prepare and publish the training material. This will ensure training material, such as Moodles, Wiki medias, modules and so on is disseminated in a consistent form: • FAIR data guidelines, common rules and best practices for the Photon and Neutron community (Task 2.6, WP2); • Standard dataset definition (WP3) and Photon and Neutron reference data sets (WP4); • Long term viability and sustainability of the data analysis services developed by ExPaNDS (Task 4.5, WP4)
Progress:	The material to be created as training material is clearly stated in ExPaNDS proposal. These categories will be available on the e-learning platform: FAIR data guidelines for PaN, definition and reference data sets, data analyses services. A first quick survey has been sent to WP leaders and co-leaders regarding the format of the training material.
Next steps:	Monthly catch-up meetings will be organised between WP5 team and the "technical" WP leaders and co-leaders (WP2: Brian Matthews (UKRI) and Daniel Salvat (ALBA), WP3: Alun Ashton (PSI) and Silvia Ramos, WP4: Anton Barty (DESY) and Majid Ounsy (SOLEIL)) to follow the development and production of training materials to be added in the PaN e-learning platform. Several questions need to be addressed concerning the nature of the training material per WP and the target of this training material (IT only, facility staff, larger audience?). There is also a discussion regarding the resources needed for this task. A possible recruitment is considered at SOLEIL to follow this task and also to interact with PaNOSC WP8 in the collection and maintenance of the training material during the ExPaNDS project. PaNOSC has planned to organize a workshop to explain and teach how to create content for training, and how to put it in e-format for the training platform. A survey to ExPaNDS partners of technical WP (WP2, WP3, and WP4) will be sent in September 2020 to have a list of ExPaNDS participants at this workshop. A spreadsheet to follow the development of the different training material will be set up by the WP5 leader.

T5.4	**Monitoring and Measuring of training effectiveness**
Status:	Not started
Description of work:	***Lead partner: HZDR, Contributors: SOLEIL, DLS*** In connection with the various workshops and training activities WP5 will gather user feedback in the form of surveys and usage statistics. This task will be performed closely together with WP2, WP3, WP4 and WP6. The outcome will be collated and analysed in presented in the form of a final report
Progress:	The KPIs for WP5 are under discussion and definition. This includes the number of attendees per workshop, (ExPaNDS, staff, PaNOSC staff, other people), the numbers of users registered on the e-learning platform (users from ExPaNDS, users from PaNOSC, users from others facilities). A KPI regarding the training material added on the platform needs to be more accurately described.
Next steps:	WP5 will collaborate jointly with WP6 (Isabelle Boscaro-Clarke and Kat Roarty - DLS) on the preparation of a survey. The targets of this survey will be the participants attending the workshops.

Technical KPIs	Value	Previous value
Number of attendees to the workshops (ExPaNDS / PaNOSC / other)	-	- (09.2019)
Number of subscription to the e-learning platform (ExPaNDS / PaNOSC / other)	-	- (09.2019)

Annex 1

Task	Subtask	Related WP for ExPaNDS	Title	Date	Organizing institution	Workshop status	Coordinator	Type of training	Speakers	Topics	Duration of training	Language	Recorded ?	Training given at : Time /	Audience target	Link to the training location	Number of attendees PaNDS facilit	PaNOSC facilities	Other
5.1	5.1.1	WP2	FAIR for facilities	01 10 2020	UKRI	confirmed	Abigail Mcbirnie	workshop	Mark Heron - DIAMOND Joy Davidson - FAIRsFAIR Daniel Salvat - ALBA Brian Matthews - UKRI Frank von Delft/Graeme Winter- DIAMOND Andy Goetz - ESRF (or ?) or (Jean-Francois Perrin - ILL) Martin Köhler - DESY TBC - HZDR	• What is FAIR? Open versus FAIR • Relevance and benefits for PaN community • DOIs for data, data citation, and the value of linking, e.g. data to data, data to publications	1h30 session	English	TBC		instrument scientist, facility staff				
5.1	5.1.1	WP2	The FAIR experiment	02 10 2020	UKRI	confirmed	Abigail Mcbirnie	workshop	Daniel Salvat - ALBA Brian Matthews - UKRI Alejandra Gonzalez Beltran - UKRI	• How FAIR impacts data management policies – what's changed? • Experimental lifecycle and how this relates to FAIR data • Active data management planning – what this means for the facility and the user	1h30 session	English	TBC		instrument scientist, facility staff				
5.1	5.1.2	WP1 - WP2	Workshop(s) to develop common rules and best practices between national RI's which build on previous work (e.g. PaNdata) and harmonise the provision of the EOSC services			TBC													
5.1	5.1.3	WP3-WP4	Workshop/meeting(s) to educate and train developers and facility staff on how to deploy and support their own workflows enabling a long term viability and sustainability of the data analysis services			TBC													
5.1	5.1.4	WP3	Workshop to educate and train metadata catalogue services within data management and data life cycle management including Photon and Neutron Ontologies developed in WP3			TBC													
5.1	5.1.5	WP4	Workshop/meeting(s) to educate and train Photon and Neutron users in the use of the data analysis services			TBC													