

D3.2: Detailed Plan for Training Activities in Months 13 – 36

Author(s)	Marjan Grootveld (DANS), Sara Garavelli (TRUST-IT), René van Horik (DANS)
Status	Final
Version	v1.0
Date	16/03/2016

Abstract: This document outlines the EUDAT training plan for the second and third year of EUDAT2020 (March 2016 – Feb 2018), including a description of the various target audiences for training the training formats, as well a reflection on EUDAT training events in the first year of the project (March 2015 – Feb 2016).

Document identifier: EUDAT2020-DEL-WP3-D3.1	
Deliverable lead	DANS
Related work package	WP3
Author(s)	Marjan Grootveld (DANS), Sara Garavelli (TRUST-IT), René van Horik (DANS)
Contributor(s)	Shaun de Witt (STFC), Genet Edmondson (SNIC), Hilary Hanahoe (Trust-IT)
Due date	2016/02/29
Actual submission date	2016/03/16
Reviewed by	Leon Charl du Toit (SIGMA) and Shaun de Witt (STFC)
Approved by	PMO
Dissemination level	PUBLIC
Website	www.eudat.eu
Call	H2020-EINFRA-2014-2
Project Number	654065
Start date of Project	01/03/2015
Duration	36 months
License	Creative Commons CC-BY 4.0
Keywords	EUDAT stakeholders, researcher, research community & research infrastructure engagement, communication and outreach, EUDAT and B2 service training, data lifecycle, KPIs and metrics

Copyright notice: This work is licensed under the Creative Commons CC-BY 4.0 licence. To view a copy of this licence, visit <https://creativecommons.org/licenses/by/4.0>.



Disclaimer: The content of the document herein is the sole responsibility of the publishers and it does not necessarily represent the views expressed by the European Commission or its services.

While the information contained in the document is believed to be accurate, the author(s) or any other participant in the EUDAT Consortium make no warranty of any kind with regard to this material including, but not limited to the implied warranties of merchantability and fitness for a particular purpose.

Neither the EUDAT Consortium nor any of its members, their officers, employees or agents shall be responsible or liable in negligence or otherwise howsoever in respect of any inaccuracy or omission herein.

Without derogating from the generality of the foregoing neither the EUDAT Consortium nor any of its members, their officers, employees or agents shall be liable for any direct or indirect or consequential loss or damage caused by or arising from any information advice or inaccuracy or omission herein.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	4
1. EUDAT TRAINING STRATEGY OVERVIEW.....	5
1.1. Relate the EUDAT services to the research data life cycle	5
1.2. Overview of the target groups for EUDAT Training.....	6
1.3. Outline of the document	6
2. MATCHING TRAINING DEMAND AND SUPPLY	7
3. THE EUDAT TRAINING OFFER: FORMATS AND TOOLS.....	11
3.1. Face-to-face training events	11
3.2. Webinars.....	11
3.3. eTraining	11
3.4. Online training components	11
4. TRAINING EVENTS SO FAR.....	12
4.1. Persistent Identifier training for the ICOS Community, 28 September 2015	12
4.2. Workshop “The EUDAT infrastructure: Foundation, utilisation and implementation”, EGI Community Forum, 1 December 2015	12
4.3. B2SAFE workshop for the CLARIN community, 7 December 2015	12
4.4. EUDAT Fundamentals training at the EUDAT User Forum, 5 February 2016.....	13
4.5. Workshop “Data Curation & the EUDAT Collaborative Data Infrastructure”, iDCC 2016, 22 February 2016	13
5. DETAILED PLAN OF ACTIVITIES FROM M13 TO M36	14
6. KEY PERFORMANCE INDICATORS	17
6.1. Performance Indicators	17

LIST OF FIGURES

Figure 1: Training Activities and their Relation with Other EUDAT WPs.....	4
Figure 2: Research Data Life Cycle - UK Data Archive	5
Figure 3: EUDAT B2 Service Suite	6

LIST OF TABLES

Table 1: Currently Available Training Components	8
Table 2: Planned Training Events	15

EXECUTIVE SUMMARY

The aim of the EUDAT training programme is to promote and explain the EUDAT services in order to improve the uptake of the EUDAT collaborative data infrastructure (CDI) for research data management. The training programme strategy, design, planning, logistics and coordination, as well as the on-line tools and packaging, are managed by EUDAT WP3 (“Communication, Training, and Outreach”), in close collaboration with other work packages, as illustrated in Figure 1.

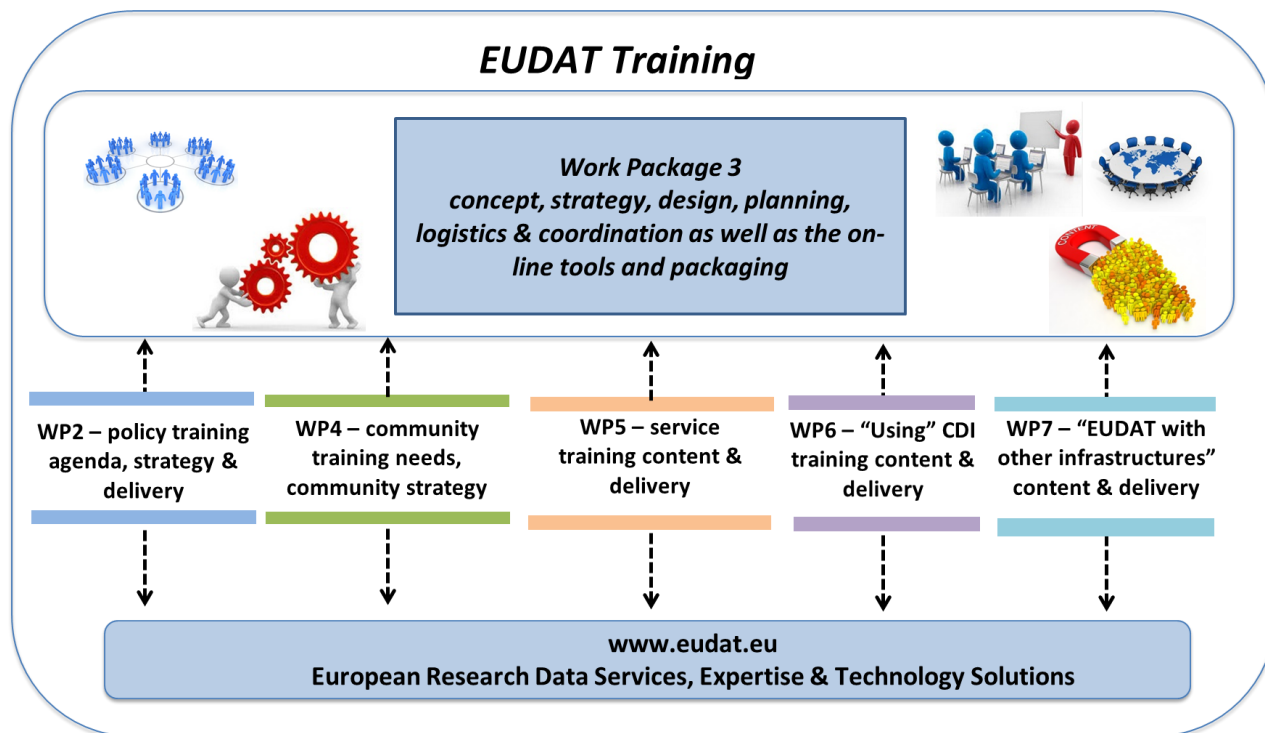


Figure 1: Training Activities and their Relation with Other EUDAT WPs

Information on the EUDAT training strategy can be found in the EUDAT deliverable D3.1, “Stakeholder Analysis & Communication and Training Strategy”. The current deliverable builds on this strategy and describes the training plan for Months 13-36 of this phase of EUDAT.

The EUDAT2020 training programme is aimed at three target groups (researchers, research communities, and research infrastructures), each divided into two learning levels (beginner and advanced). A distinction is made between training for using the EUDAT services and training for joining and implementing the EUDAT services. Clearly not all target groups need to acquire the same knowledge about the various EUDAT services in the collaborative data infrastructure. The table in Section 3 indicates which training components fit particular target groups and particular services. From the feedback on previous training events one can conclude there is a common need for practical use cases and hands-on learning. Hands-on sessions, however, are costly in terms of the small group size and intense coaching. Therefore the programme consists of events in a range of formats. The table in Section 5 lists the training events that are planned for months 13 to 36 of the EUDAT2020 project.

1. EUDAT TRAINING STRATEGY OVERVIEW

1.1. Relate the EUDAT services to the research data life cycle

The aim of the EUDAT training programme is to promote and explain the EUDAT services in order to improve the uptake of the EUDAT collaborative data infrastructure (CDI) for research data management. This uptake of EUDAT services can occur in different forms: for instance, research communities can choose to use one or more services, or a community could also choose to collaborate more closely by actually joining EUDAT. This distinction between “using” and “joining” involves different levels of intimacy with the services, and this is therefore reflected in the training strategy.

To highlight the value of particular EUDAT services, and to make researchers and research communities aware of how the EUDAT services meet many of their data management needs and simplify the research process, the EUDAT training programme will relate the research data life cycle (Figure 2) and the EUDAT B2 service suite (Figure 3).

EUDAT offers a suite of research data management services (known as the B2Service Suite) to support researchers in their daily work and with their ever increasing data management challenges. [B2ACCESS](#) is an easy-to-use and secure Authentication and Authorization platform, the entry point to all EUDAT services. [B2DROP](#) is a secure and trusted data exchange service for researchers and scientists to keep their research data synchronized and up-to-date and to exchange with other researchers (suitable for all stages of the lifecycle for data exchange). [B2STAGE](#) is a reliable, efficient, light-weight and easy-to-use service to transfer research data sets between EUDAT storage resources and high-performance computing (HPC) workspaces, this service is particularly important in the processing & analysing phases of the lifecycle. [B2SAFE](#) is a robust, safe and highly available service which allows community and departmental repositories to implement data management policies on their research data across multiple administrative domains in a trustworthy manner, therefore imperative for preservation of research data. [B2FIND](#), EUDAT’s simple, user friendly metadata catalogue allowing users to discover metadata from a wide range of scientific communities and [B2SHARE](#), a user-friendly, reliable and trustworthy way for researchers, scientific communities and scientists to store and share small-scale research data from diverse contexts are positioned in the “Giving Access and Reusing” phases of the lifecycle.

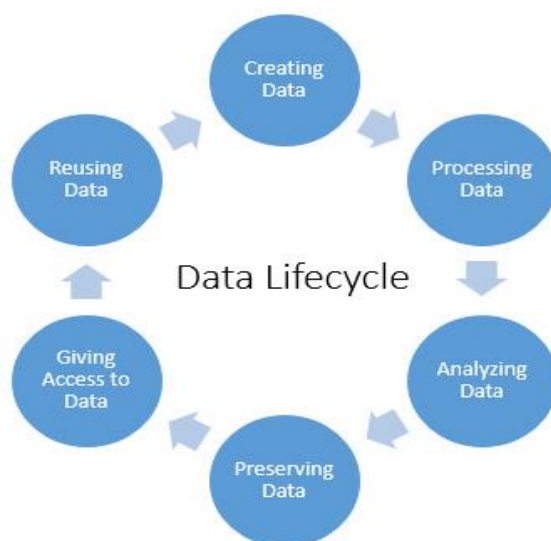


Figure 2: Research Data Life Cycle - UK Data Archive

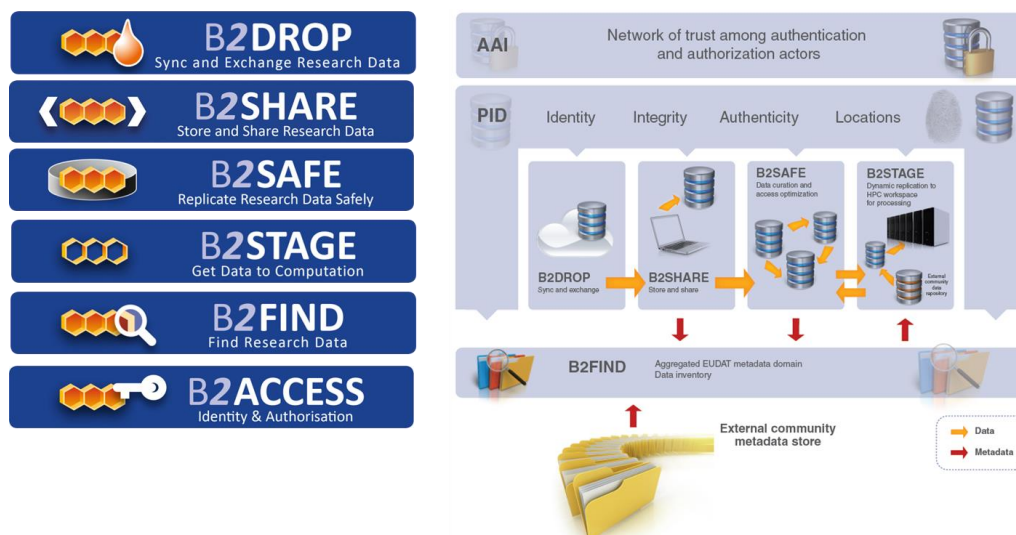


Figure 3: EUDAT B2 Service Suite

1.2. Overview of the target groups for EUDAT Training

The EUDAT training programme is aimed at three target groups:

1. individual researchers (from academia and industry) who can stage, store, share, discover and reuse data via the EUDAT CDI services,
2. research communities that produce and use (very) large data sets for research purposes and need to ensure that the data is managed and stored in a secure, professional and persistent manner, and
3. research infrastructures, data centres, and service providers that provide resources for data management.

1.3. Outline of the document

The remainder of this document is structured as follows. Section 2 provides more details on the target groups for training as well as an overview of the available training components for each of these groups. Section 3 describes the training formats and tools used in EUDAT. The training events that were held in the first year of EUDAT2020 are summarised in Section 4; these are relevant for this plan because the trainers have used the feedback from these events to improve EUDAT's future training plan. Finally, a timeline for training activities in the second and third years of this stage of the project is available in Section 5. Internal EUDAT trainings, such as training between work packages, are outside the scope of this document.

2. MATCHING TRAINING DEMAND AND SUPPLY

The EUDAT training programme is aimed at the following three target groups.

1. **Individual researchers** (both from academia and from industrial partners that are involved in EUDAT Data Pilots) who could stage, store, share, discover and reuse data via the EUDAT CDI services are a primary focus for training. Research data management, related to the research steps shown in Figure 2, is an important training topic in the EUDAT training portfolio.
2. **Research communities** that produce and use (very) large data sets for research purposes and need to ensure that the data is managed and stored in a secure, professional and persistent manner are another group that can benefit significantly from EUDAT's services. Managers and/or data managers from research communities are considered to be part of this group.
3. **Research infrastructures, data centres and service providers** form the third group that can benefit from EUDAT training. EUDAT provides support to help them offer valuable insights and services to their users, which includes ensuring that their users can easily share their data with their peers in other countries and likewise be able to easily access data provided elsewhere. The common policies and services provided by EUDAT are a perfect tool for ensuring that a data centre's infrastructure is compatible with other research data infrastructures.

There are significant differences in what people need to know about the EUDAT services depending on whether they will be using or joining an EUDAT service. To address this, the training components target either users (those who use the service to assist with handling their research data) or so-called "implementers" of the service (the organisations that join EUDAT and provide the service for others to use). The training strategy therefore makes a distinction between training for "users" and training for "implementers" in Table 1. When planning and offering training, it is also important to take the level of expertise of the participants into consideration so that each training component is designed to be appropriate for a given level of prior knowledge. The EUDAT training offers training components at beginner and advanced level as shown in Table 1. For beginners the training is more generic, whereas for participants at the advanced level, the training components contain more specific details about the service that is the main topic of that component.

The overarching strategy is to develop easily accessible and reusable training components that have a specific training goal, and that are aimed at a specific target group. These components are being developed as self-contained slide presentations or videos. The training matrix below contains a list of the training components that are currently available (Month 12). During the EUDAT2020 project, a total of 40 training components will be produced. These training components will be updated when a new version of the relevant service is released (which will be done in close collaboration with EUDAT Task 5.5, "User documentation and Training Materials") or based on feedback from training events. Please refer to the EUDAT deliverable D3.1, "Stakeholder Analysis & Communication and Training Strategy", for a description of the workflow for developing, evaluating, and updating training components.

The following training components are currently available. The 'X' indicates the primary target group or groups; when a cell is empty, no training component is foreseen for that particular target group. Whereas all components are obviously available to the EUDAT trainers, the components with the green titles are also publicly available on the EUDAT Training webpage¹. An updated version of the table of training components will be part of the EUDAT deliverable D3.5, "Business Plan for Training Activities".

¹ See <http://eudat.eu/training>

Table 1: Currently Available Training Components

Training On	Description	Individual Researcher		Research Community/ Community Data Manager				Data Infrastructures / Data Centres / Service Provider			
		Users		Users		Implementers		Users		Implementers	
		Beginner	Advanced	Beginner	Advanced	Beginner	Advanced	Beginner	Advanced	Beginner	Advanced
EUDAT	Overview of EUDAT and the research life cycle	X		X				X			
B2Service Suite	Overview of B2Service Suite	X		X		X		X			
B2DROP	Introduction to the service	X		X				X			
B2DROP	How to use it?		X		X				X		
B2DROP	B2DROP in a nutshell		X		X				X		
B2SHARE	Introduction	X		X				X			
B2SHARE	How to use it?		X		X				X		
B2FIND	Overview	X		X				X			
B2FIND	How to use it?	X		X				X			
B2FIND	How to publish metadata in B2FIND catalogue?		X		X				X		
B2SAFE	Overview	X		X				X			
B2SAFE	How to use it?				X				X		
B2SAFE	How to join?					X				X	
B2SAFE	iRODS training				X				X		
B2STAGE	What is B2STAGE and how to use it?	X			X				X		
B2STAGE	How to deploy the service?										

Training On	Description	Individual Researcher		Research Community/ Community Data Manager				Data Infrastructures / Data Centres / Service Provider			
B2ACCESS	Introduction to the service	X				X				X	
B2ACCESS	How to use the B2ACCESS service?	X				X				X	
Research Data Management	Introduction on RDM: Why is it important?	X		X				X			
Research Data Management	Data Management Planning	X		X				X			
Metadata	Introduction to metadata. Why is it important and how to address this in research projects?	X		X				X			
EUDAT Legal Guide	Learn basic issues concerning copyright, "sui generis" database and personal data	X		X				X			
Persistent identifiers	Introduction in PIDs and the Handle system (Aimed at ICOS RI)	X		X				X			
Persistent identifiers	Role of PIDs in B2 Service Suite				X				X		
Persistent identifiers	Introduction to the EPIC API				X				X		
B2SHARE API	How to store and share data with the B2SHARE API?				X				X		

Training On	Description	Individual Researcher		Research Community/ Community Data Manager				Data Infrastructures / Data Centres / Service Provider			
	(Contains Python Script)										
Persistent identifiers and the B2Handle Service	Presentation of the EPIC API and demo				X				X		
B2SAFE	Introduction to iRODS					X				X	
B2SAFE	iRODS, iCommands and hands on (+ exercise)					X	X			X	X
B2SAFE	How to join and how to use			X				X			
B2SAFE	B2SAFE hands-on. Using EUDAT: iCommands					X	X			X	X
B2SAFE	Examples of joining B2SAFE			X		X		X		X	
B2SAFE	B2SAFE hands-on. Using EUDAT: GridFtp					X	X			X	X

3. THE EUDAT TRAINING OFFER: FORMATS AND TOOLS

The EUDAT training programme consists of a number of training events that can have different appearances, such as webinars, presentations, tutorials or (conference) workshops. The formats differ in that they can be tailored to the specific needs of the intended audience: a webinar is, for instance, relatively generic, whereas the audience in a hands-on session about one of the EUDAT services has more room to explore the details of that service. While the latter may seem preferable, it is also more costly in terms of the small group size and intense coaching. Therefore the programme consists of events in a range of formats. The events that have actually been planned to date are listed in Section 5.

3.1. Face-to-face training events

Group training opportunities are offered during EUDAT events like the EUDAT User Forum and ad-hoc sessions for the core communities (e.g. CLARIN / B2SAFE). The training team actively seeks opportunities to collaborate with research communities and European projects (such as PRACE, EGI & EDISON) and offer training sessions during their events. Face-to-face training meetings allow hands-on sessions, which are particularly useful for training implementers on how to integrate the EUDAT services into their research data management infrastructure. Participants are asked to fill out the EUDAT evaluation form; this way EUDAT trainers learn how relevant the training was and what other topics or training formats may be beneficial.

3.2. Webinars

EUDAT will offer one-hour webinars on different topics for different target audiences. They are an efficient way to transfer knowledge to a larger group and make it possible for participants to ask questions and receive answers, for instance via a chat function. The webinar screencast and the presentation slides will be made available on the EUDAT website for other people to view later on. For appropriate webinar topics, such as research data management, EUDAT will look into the possibility of collaborating with the OpenAIRE project, in particular with the Research Data Management team (OpenAIRE task T4.3), to increase both outreach and efficiency.

3.3. eTraining

Depending on the needs of research communities, the training team can arrange for remote learning sessions by making slides, scripts and virtual machines available with distance coaching. However, in specific cases EUDAT may send training staff and experts to a research community, if there is sufficient interest. Such cases are not listed in the detailed plan of future events in Section 5, as these types of training are arranged on an “as needed” basis.

3.4. Online training components

Presentations, documents and introductory videos about all the EUDAT services are available at <http://eudat.eu/training>, clustered by topic. These online training components are included in the matrix of available training components given in Section 2.

4. TRAINING EVENTS SO FAR

An overview of previous EUDAT training events can be found on the project website². EUDAT trainers and other project members – often EUDAT service developers – have organised and run the following face-to-face training events during the first year of EUDAT2020. Across the board the feedback from participants, typically collected via evaluation forms, reveals a clear interest in hands-on exploration of individual EUDAT services. Furthermore, there is demand for practical use cases from those involved in the data pilots.

4.1. Persistent Identifier training for the ICOS Community³, 28 September 2015

The ICOS (Integrated Carbon Observation System) European research infrastructure is one of the research communities involved with EUDAT. They deal with large volumes of observational data that is shared widely, so persistent identification of data is important for their work. They requested that EUDAT deliver training about persistent identifiers (PIDs), particularly as an EUDAT service. EUDAT ran a training day for ICOS personnel that covered both general and more specific technical issues, including a discussion about how ICOS could use PIDs. Part of the 15 attendants participated via a conference call. ***The feedback from participants was positive and included the suggestion to also offer webinars on more general topics.***

4.2. Workshop “The EUDAT infrastructure: Foundation, utilisation and implementation”⁴, EGI Community Forum, 1 December 2015

This training event targeted data scientists, researchers (individuals and members of research communities), managers of research infrastructures and data centres, and EGI FedCloud users. The half-day session, with about 35 participants, included tutorials about the research data life cycle, an interoperability use case between EUDAT and EGI, information about storing and sharing data using the B2SHARE API, and overviews about PIDs and the B2HANDLE service. ***The feedback from participants was mixed: while the overview of EUDAT services was received well, there was a request for more use cases and hands-on training.***

4.3. B2SAFE workshop for the CLARIN community⁵, 7 December 2015

CLARIN (Common Language Resources and Technology Infrastructure) is one of the core research communities associated with EUDAT. The service that CLARIN has been most involved with, so far, is B2SAFE. The workshop primarily targeted so-called implementers (as explained in Section 2) at both beginner and advanced level, and was a combination of presentations and hands-on sessions, for example, using iCommands, the 15 participants could practise implementing an example replication of a file system to an EUDAT node using B2SAFE. ***Feedback suggests that more of these specific community training sessions should be organised over the next two years.***

² See <http://eudat.eu/events/trainings>

³ See <https://docs.icos-cp.eu/share/s/IWkskYnKS56nCxfOW-cXg>

⁴ See <http://eudat.eu/events/trainings/workshop-data-infrastructure-data-management> and for tutorials see also <https://indico.egi.eu/indico/event/2544/session/55/>

⁵ See <https://www.clarin.eu/event/2015/clarin-b2safe-workshop>

4.4. EUDAT Fundamentals training at the EUDAT User Forum⁶, 5 February 2016

The two-day EUDAT User Forum was extended with a training day focusing on EUDAT “Fundamentals” – all the services in the B2 suite were on the agenda. Different sessions targeted people interested in gaining a general overview of the EUDAT CDI, people facilitating the implementation of EUDAT services, and, in collaboration with the EDISON project⁷, policy makers, funders, and project leaders. Over 30 participants attended the event. ***The feedback from participants was very positive – probably because the services were presented by the key developers themselves, and thus participants were getting information directly from the experts.***

4.5. Workshop “Data Curation & the EUDAT Collaborative Data Infrastructure”⁸, iDCC 2016, 22 February 2016

The theme of the 11th International Digital Curation Conference was 'Visible data, invisible infrastructure'; it was a perfect place to showcase how EUDAT supports the curation of research data throughout the research data life cycle. Many participants at this conference were data librarians or work in data preservation and curation; this was reflected in the workshop, with hardly any software developers being present – and hence this was quite different from the other training events summarised in this section. After a presentation of the B2 Suite, the EPOS (European Plate Observing System) community described their B2SAFE use case. Next, the 30 participants were asked to map the EUDAT services on the (abstracted) data life cycle model, which triggered a valuable discussion about the position of the services. A presentation on research data management concluded the half-day meeting. ***The feedback indicated that the positioning of the B2 services in the research data management lifecycle can be improved with a stronger demand-driven approach and practical information from organisations that use or have implemented a particular service.***

⁶ See <http://eudat.eu/events/trainings/eudat-fundamentals-training>

⁷ See <http://www.edison-project.eu/>

⁸ See <http://eudat.eu/events/trainings/data-curation-the-eudat-collaborative-data-infrastructure-workshop-at-the-idcc16>

5. DETAILED PLAN OF ACTIVITIES FROM M13 TO M36

The following table lists the training events that are planned for months 13 to 36 of the EUDAT2020 project. The focus is on meetings and webinars (which are described in more detail in Section 3).

One of things that are new in EUDAT2020 is the development of an EUDAT summer school which is being planned for the summer of 2017. The summer school will be a dedicated EUDAT-branded event which enables people from our three training target groups to undertake more extensive training and also provides an opportunity for them to share knowledge and experiences among the research communities. Looking to the future, this multiple day training event could evolve into a cost effective service that EUDAT could offer in the longer term, with the costs being covered by the fees paid by the participants (plus of course additional sources of funding, such as sponsorships). The EUDAT2020 project experience with the 2017 summer school should help to make clear whether it is beneficial and feasible for EUDAT to organize similar summer schools in the future. This is important input for a “Business Plan for Training Activities”, which will be covered in EUDAT deliverable D3.5.

We are well aware that organising a summer school requires thorough preparation and commitment from both the project’s experts and the research communities, and that there can be issues that arise unexpectedly. Therefore our plans include a Go/No Go moment in October 2016 when a firm decision will be taken as to whether EUDAT will proceed with the summer school. (This time point is not included in the table).

Table 2: Planned Training Events

TRAINING EVENT	DATE & LOCATION	AIM & BENEFITS	FORMAT & FOCUS	KPIs
WEBINAR 1: EUDAT and Trustworthy Repositories	Mid April 2016	Insights in standards, guidelines and practices that support the trustworthiness of repositories and how they are applied in the EUDAT initiative.	Audience: Research data repository managers (organised in collaboration with WP2)	At least 20 attendees & 200+ VIEWS post live broadcast
WEBINAR 2: Research data management	Mid May 2016	Insights on research data management with respect to the re-use of research data and the replication of research and positioning of EUDAT services in research data management lifecycle.	Audience: Researchers, research managers, research funders and policy makers	At least 20 attendees & 200+ VIEWS post live broadcast
EUDAT USER FORUM	Jun 2016, Toulouse	Training on EUDAT B2Service Suite, specifically aimed at core communities & data pilots	Training sessions both for “users” and for “implementers”	At least 20 attendees
WEBINAR 3: Dedicated to User Forum participants	Late Jun 2016	Clarify open questions and feedback received from User Forum participants	Highlights and unanswered questions from the EUDAT conference	Cover all requests and further Qs
Digital Infrastructures for Research 2016 (co-organised by EUDAT, EGI, GEANT, RDA, OpenAIRE)	28-30 Sept 2016, Krakow, Poland	Technical training on joining the EUDAT Collaborative Data Infrastructure with hands on training (similar to B2SAFE / CLARIN format)	For community & infrastructure managers and service providers	At least 20 attendees & 1 new “joiner”
WEBINAR 4: EUDAT use cases: How EUDAT services can be used	Oct 2016	practical implementations of the EUDAT CDI are illustrated by representatives of diverse scientific communities on how they apply EUDAT services.	(organised in collaboration with WP6)	At least 20 attendees & 200+ VIEWS post live broadcast
WEBINAR 5: The EUDAT Collaborative Data Infrastructure	Nov 2016	Presentation of the EUDAT CDI and overview of how the EUDAT services can cover the research data management cycle	High level, overview	At least 2 new communities
EUDAT 3 RD USER FORUM	Feb 2017	Training on EUDAT B2Service Suite, specifically aimed at data pilots	Focus on “Call for data pilots”	At least 20 attendees

TRAINING EVENT	DATE & LOCATION	AIM & BENEFITS	FORMAT & FOCUS	KPIs
WEBINAR 6: Semantic annotation and the B2NOTE service	March 2017			At least 20 attendees & 200+ VIEWS post live broadcast
EUDAT CONFERENCE	Jun 2017, Berlin, Germany	Training on EUDAT B2Service Suite, specifically aimed at data pilots	Training sessions both for “users” and for “implementers”	At least 20 attendees
EUDAT TRAINING SUMMER SCHOOL	Jul 2017	Enabling EUDAT training stakeholders to participate in more extensive training	1 week	At least 50 attendees
WEBINAR 7: EUDAT in practice: A Research infrastructure reports on how it uses EUDAT services	Sep 2017	A Research infrastructure reports on how it uses EUDAT services	Training session fbor “implementers”	At least 2 new communities
EUDAT 5 TH USER FORUM	Feb 2018	Training on EUDAT B2Service Suite	Training sessions both for “users” and for “implementers”	At least 20 attendees

6. KEY PERFORMANCE INDICATORS

6.1. Performance Indicators

The aim is to achieve the following results within the training task.

- Training register with 40 training components (about 50% developed by EUDAT)
- 10 training events organised and evaluated (each attended by at least 20 people), including:
 - 1 Summer school in 2017 (multi-day, tracks for different target groups, attendance 50 people)
 - 2 internal workshops/training events
 - 6 webinars