



FENIX

RESEARCH INFRASTRUCTURE

D2.3

Dissemination material

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Executive Summary

The deliverable D2.3 Dissemination material provides information on any project documentation and audio-visual material produced in project month M1 (January 2018) to M24 (December 2019) for training, communication and dissemination purposes. This documentation includes technical documentation, training material (presentations and webinar recordings) and physical promotional material that has been used to communicate the ICEI project to the several dissemination target audiences, also in line with the updated *D2.2 Dissemination and Exploitation plan*.

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Acronyms

AAI	Authentication and Authorization Infrastructure
ACD	Active Data Repositories
ACL	Access Control List
API	Application Programming Interface
ARD	Archival Data Repositories
BSC	Barcelona Supercomputing Center
CapEx	Capital Expenditure
CDP	Co-design Project
CEA	Commissariat à l'énergie atomique et aux énergies alternatives
CINECA	Consorzio Interuniversitario
CLI	Command Line Interface
CSCS	Centro Svizzero di Calcolo Scientifico
DL	Data Location Service
DM	Data Mover Service
DT	Data Transfer Service
FPA	Framework Partnership Agreement
FURMS	Fenix User and Resource Management Services
GoP	Group of Procurers
GUI	Graphical User Interface
HBP	Human Brain Project
HPAC	High Performance Analytics and Computing
HPC	High Performance Computing
HPDA	High Performance Data Analytics
HPST	High-Performance Storage Tier
IaaS	Infrastructure as a Service
IAC	Interactive Computing Services
ICCP	Interactive Computing Cloud Platform
ICEI	Interactive Computing E-Infrastructure for the Human Brain Project
ICN	Interactive Computing Node
IdP	Identity Provider
IPR	Intellectual Property Rights
JP	Joint Platform
JSC	Jülich Supercomputing Centre
LCST	Large-Capacity Storage Tier
MS	Monitoring Services

NDA	Non-Disclosure Agreement
NETE	External Interconnect
NETI	Internal Interconnect
NMC	Neuromorphic Computing
NVM	Non-Volatile Memory
NVRAM	Non-Volatile Random Access Memory
OIDC	OpenID Connect
OpEx	Operational Expenditure
PaaS	Platform as a Service
PCP	Pre-Commercial Procurement
PI	Principal Investigator
PID	Persistent Identifier
PIE	Public Information Event
PRACE	Partnership for Advanced Computing in Europe
Q&A	Questions and Answers
QoS	Quality of Service
R&D	Research & Development
R&I	Research & Innovation
RBAC	Role-Based Access Control
RFI	Request For Information
SCC	Scalable Computing Services
SGA	Specific Grant Agreement
SIB	Science & Infrastructure Board
SLA	Service Level Agreement
SP	Subproject
TCO	Total Cost of Ownership
TGCC	Très Grand Centre de Calcul
UI	User Interface
US	User Support Services
VM	Virtual Machine Services

1. Introduction

This document reports on any project documentation and audio-visual material produced during the reporting period from M1 (January 2018) to M24 (December 2019). This consists of a wide range of material: from technical documents that include information useful to mainly vendors and users, to promotional and training material.

The above-mentioned material has been published on the project [website](#) and [Twitter](#) account as well as communicated through the partners' channels, such as the partners' twitter accounts and the Human Brain Project (HBP) website and social media. The purpose of producing and sharing all this data via different channels is to attract different dissemination target audiences, as defined in section 2.2 of the updated [D2.2 Dissemination and Exploitation plan](#) and to have a record of openly available material (as expected by the H2020 programme) which audiences are able to come back to when seeking relevant information about Fenix.

2. Material targeting Fenix users and other audiences

2.1 Documentation

Several technical documents were produced during the first two years of the project in order to inform mainly users about the (planned) ICEI services and Fenix infrastructure. The documents are available on the [Documentation page](#) of the Fenix website as well as the relevant subpages [Communities and users](#), [Planned resources](#), and [Development needs](#) for Suppliers.

In particular, the specific technical documentation is the following: [Documentation for RFI Meetings](#), [Overview of the Fenix Infrastructure](#) and [Fenix Virtual Machine Service Models](#).

The following table shows the total number of clicks on the three files that are hosted on the Fenix website during the period M1 (January 2018) to M24 (December 2019¹):

Document name and link	No of website visits (M1-M24)
ICEI Infrastructure /Documentation for RFI meetings	104
Overview of the Fenix infrastructure	341
Fenix Virtual Machine Service Models	71

Table 1: List of technical documents and their number (No) of clicks on the Fenix website

¹ These along with the rest of the statistics in this document are reported until 17 December 2019, rather than the end of December, due to the festive season.



Figure 1: Fenix technical documents

2.1.1 Documentation for RFI Meetings

For the realisation of the Fenix infrastructure, missing components need to be developed and existing technologies need to be enhanced. This [document](#) reflects the main concepts of the project and was targeted mainly to suppliers interested in providing relevant solutions and services. It became available on the Fenix website right after the ICEI [Public Information Event](#) (PIE) and [Request for Information Meetings](#) (RFI). The two events took place in Barcelona in March and April 2018, respectively, and their purpose was to consult the market in preparation of procurements of equipment and R&D services.

The document can be found on the [Documentation page](#) and the [Development needs page](#) on the Fenix website.

2.1.2 Overview of the Fenix Infrastructure

This [document](#) was produced in March 2019 and offers an overview of the Fenix infrastructure services and planned resources as well as a description of the ICEI resources. It is targeted to [Human Brain Project](#) (HBP) users and other potential Fenix users, such as users of the Materials, Genomics, and Physical science experiments fields, as indicated in the DoA section *1.3.1.15 Other research communities*.

Apart from the Documentation page, it is available on the [Communities and users page](#) on the Fenix website.

2.1.3 Fenix Virtual Machine Service Models

This [document](#) describes how Fenix Virtual Machine (VM) Models could be defined in a similar manner as Advanced Wireless Services (AWS1). Further, it talks about the

approach for announcing VM resources in user calls and discusses the Fenix infrastructure resources. The file is useful for future applicants to the Fenix infrastructure services.

It is available on the Documentation page and the [Planned resources](#) page.

2.2 Training and dissemination material

The training and dissemination material produced and disseminated during the reporting period consist of a Fenix flyer for HBP users, slides, videos and a poster presented by Fenix partners at numerous events, such as the HBP Summit 2018, SC18, EuroHPC Summit Week 2019, ISC and SC 2019, ICT 2018 and others, as well as webinar recordings. As explained in section 3.8 of the updated [D2.2 Dissemination and Exploitation plan](#), training and other relevant material play a key role in a successful dissemination strategy, as they can be useful for technical experts on how to use the services of the e-infrastructure, as they can potentially become e-infrastructure users.

2.2.1 Fenix flyer for HBP users

The [second flyer](#) is called “Access to Fenix IT Services for HBP Users” and is designed specifically for HBP users. It describes the available services and resources and offers details on the Fenix resource allocation model and resource requesting procedure that are in place for HBP members.

Around 1000 copies of this flyer has been printed out and distributed so far. Furthermore, there have been 341 clicks on this flyer on the Fenix website during the period M1 to M24.



Figure 2: Fenix flyer for HBP users (front and back page)

The [events](#), which Fenix partners took part in, include key events and conferences in the field of HPC, neuroscience, e-infrastructure, as well as user-oriented workshops and meetings. The presentations were aimed mainly at potential Fenix users as well as research communities and projects that may be interested in the Fenix infrastructure services and resources.



All relevant details about these presentations can be found in Table 2²:

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Event	Material type	Title and link
MaX International Conference 2018 , 29 Jan 2018, Trieste, Italy	Presentation slides	Fenix: Realising a new paradigm for collaborative supercomputing research infrastructures
SOS-22 workshop , 27 Mar 2018, Waikoloa, Hawaii	Presentation slides	Technology and Policy Requirements for Emerging Workflows: An Infrastructure Perspective
Slurm User Group meeting , 25-26 Sept 2018, Madrid, Spain	Presentation slides	Workload management requirements for an interactive computing e-infrastructure
Digital Infrastructures for Research , 9-11 Oct 2018, Lisbon, Portugal	Presentation slides	Fenix: Federated engine for information exchange
GPU Technology Conference (GTC) , 9-11 Oct 2018, Munich, Germany	Presentation slides	GPU-accelerated Computing at Scale and Interactive supercomputing at the crossroads of HPC and cloud technologies (both from slide 22 onwards)
HBP Summit 2018 , 15 Oct 2018, Maastricht, The Netherlands	Presentation slides	Fenix Research Infrastructure
SC18 , 11-16 Nov 2018, Dallas, Texas	Video	Building an infrastructure for brain research
SOS-23 workshop , 26-29 Mar 2019, Asheville, North Carolina	Presentation slides	Exascaling and federation: Using brain research as science driver
EuroHPC Summit Week 2019 , 13-17 May 2019, Poznan, Poland	Presentation slides	Federating services: AAI
ISC 2019 , 16-19 Jun 2019, Frankfurt, Germany	Poster, Presentation slides, Video	ICEI: HPC Centres Delivering Federated E-Infrastructure Services (poster) and Status of Human Brain Project Applications on Arm (slides) and ICEI project (video)
SC19 , 17-22 Nov 2019, Denver, Colorado	Video	ICEI project
EOSC Symposium , 26-28 Nov 2019, Budapest, Hungary	Presentation slides	Fenix: Integrating HPC and Cloud-like services

2nd HPAC Platform Training, 26-28 Nov 2019, Heidelberg, Germany	Presentation slides	Tools and services offered by HPAC Platform and Fenix with hands-on and How to get access to HPC and data resources
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Table 2: List of Fenix presentations and videos available on the Fenix website

2.2.3 Webinar recordings

The Fenix [webinar series](#) kicked-off in October 2019 in order to address the need of further user engagement for the ICEI project. The webinars include presentations done by different speakers from the Fenix partners and address potential Fenix users and anyone interested in Fenix infrastructure services. Branded banners were created for promotional purposes and posted on the Fenix website and Twitter account.

After each webinar has taken place, the full recording becomes available on the Fenix [Webinars page](#) as well as the dedicated playlist on the HBP [YouTube channel](#) and is also posted on the Fenix Twitter account and the partners' media channels.

Two webinars were organised during the reporting period.

2.2.3.1 1st Fenix webinar: HPC and Cloud Infrastructure for Neuroscientists



Figure 4: Promotional banner for the 1st Fenix webinar

This [webinar](#) was held on 8 October 2019. It offered an overview of ICEI/Fenix and introduced the services and available resources of the Fenix infrastructure. It also provided information for interested users on how to get access and further details on how to use the data repositories that are available in ICEI. The target audiences of this webinar were HPC infrastructure users and neuroscientists.

The webinar was attended by 35 participants. The recording has had 214 views on the HBP YouTube channel as of 17 December 2019.

2.2.3.2 2nd Fenix webinar: How to exploit ICEI scalable computing services



Figure 5: Promotional banner for the 2nd Fenix webinar

This [webinar](#) took place on 10 December 2019. The goal of this webinar was to introduce participants to the Fenix Scalable Computing Services (SCC). It also provided details on the ICEI infrastructure for SCC at the Swiss National Supercomputing Computing Centre (CSCS). This webinar was targeted to HPC infrastructure users, neuroscientists, application and platform developers and workflow engineers.

The webinar was attended by 20 participants. The recording has had 53 views on the HBP YouTube channel as of 17 December 2019³.

3. Promotional material

Several dissemination materials were produced for promotional purposes during the reporting period, including a generic Fenix flyer and booth items. This material was addressed to potential Fenix users as well as other e-infrastructures, research communities, and projects.

3.1 Flyer

The [generic Fenix flyer](#) is titled “ICEI: Delivering e-infrastructure services federated as the Fenix Infrastructure” was the first flyer created at the beginning of the project. It offers an overview of the ICEI project goals and architectural concepts as well as the Fenix communities, infrastructure services and resource allocation model. It is addressed to potential Fenix users and any institution or individual interested in the ICEI project and Fenix infrastructure.

It has been used for distribution at several events which Fenix partners attended, such as the booths at ISC 2018 and 2019, ICT 2018, and SC 2019. It can be found on the [Branding page](#) of the Fenix website.

³ The number of views is relatively low because the webinar took place just before the submission of this document.



Figure 6: Fenix generic flyer (front and back page)

Around 1000 copies of this flyer has been printed out and distributed so far. Furthermore, there have been 252 clicks on this flyer on the Fenix website during the period M1 to M24.

3.2 Other promotional material

Other promotional material concerns booth items that were created for the ISC and SC conferences in 2019, at which Fenix participated in a joint booth along with various European Exascale projects and infrastructures.

At the [ISC 2019 conference](#), Fenix participated in a shared booth named “[European Exascale Projects and Infrastructure](#)” which showcased Fenix and the following H2020-funded projects: [ASPIDe](#), [DEEP-EST](#), [EXAQUITE](#), [MAESTRO](#), [Mont-Blanc 2020](#), and [Sage-2](#). The WP2 team was responsible to produce a joint promotional item which took the form of a microfiber cloth showing all project logos and a QR code to the shared dedicated [webpage](#).



Figure 7: Microfiber cloth with project logos for the ISC 2019 joint booth

Similarly, Fenix participated in the [SC 2019 conference](#) with a shared booth along with European Exascale projects: [Aspide](#), [EVOLVE](#), [ExaQUte](#), [LEXIS](#), [MAESTRO](#), and [Mont-Blanc 2020](#). Fenix offered two prizes (a media pad and a smart watch) at the draws organised at the booth.

4. Conclusions

The WP2 team has collected and published any training and dissemination material related to Fenix during the period M1 (January 2018) to M24 (December 2019) with content contributions from the other WPs. These include [technical documentation](#), [training material](#) (Fenix presentations and videos), [webinar recordings](#) and [promotional material](#) (flyers and branded items for events). As indicated in the updated [D2.2 Dissemination and exploitation plan](#), this material has been created and made publicly available in order to significantly contribute to the ICEI project dissemination to the different target audiences – in particular, vendors at the first stage of the project, and experts and users who have or could potentially become e-infrastructure users.

WP2 will keep updating and communicating the technical documents and dissemination material already produced via the website, Twitter, as well as during partners' presentations at events and the Fenix webinar series. The team will also continue to gather any future technical and training documents and publish them on the Fenix website and Twitter and distribute them among the partners to post them on their media channels. In addition, the webinar presentations will be recorded and posted on the Fenix dedicated Webinars page as well as the HBP YouTube channel for interested users and other parties. The team will also produce additional dissemination material, when needed, such as flyers dedicated to different user communities, branded items for booths and events, and any other promotional material required to engage further with users.