# H2020-EINFRA-2017 EINFRA-21-2017 - Platform-driven e-infrastructure innovation DARE [777413] "Delivering Agile Research Excellence on European e-Infrastructures"



# **D8.2** Dissemination and Outreach Report I

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<b>Document description</b> To provide insight on the activities and results ob course of the implementation of the related Tasks: M			

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# List of Terms and Abbreviations

Abbreviation	Definition
RPOs	Research Performing Organisations
DoA	Description of Action

#### Introduction

The focus of WP8 is to provide user support, documentation and training activities targeted to the relevant communities that will benefit from using DARE services, infrastructures and tools.

The WP8 supports and provides assistance to answer specific questions and guidance on how to use the available services and tools in order to maximize and improve the usage of and access to the infrastructure.

Training actions (events and material) are dedicated to promote visibility in the community and to maximize the impact of cross-border knowledge transfer.

Measurable objectives of the work package comprise:

- The increase of the number of Scientists making usage of the infrastructure through focused training and dissemination;
- The provision of external and internal training and dissemination events to the relevant communities;
- The outreach of project tools and services via the operation of a dedicated DARE Front Desk;
- The setup, management and promotion of a repository of training and dissemination material.

# **1.1 Purpose and Scope**

The purpose and Scope of D8.2 is reflected in Tasks 8.1 and 8.2, the objectives of which are specified in the DoA as shown below:

#### T8.1 Preparation of Dissemination Material and Services [M1-M36]

The task develops, maintains and supports:

- (a) the project website with a strong visual identity for the project
- (b) social media presence
- (c) all partners on their dissemination activities by providing the appropriate dissemination artefacts (leaflets, brochures, videos, etc.) for the targeted event or summit.

#### T8.2 Dissemination Commercialisation and Outreach Activities [M1-M36]

Work on this task aims to:

(a) identify the most suitable dissemination venues for the projects and its outcomes;

(b) propose and organise events hosted by project partners and focused or centred around DARE and the related technologies; and

(c) locating and contacting relevant communities and stakeholders for promoting DARE activities and developments.

## **1.2** Approach and Relationship with Other Work Packages and Deliverables

DARE is a new approach to creating and using data-powered methods at the frontiers of today's research and innovation. The project aims to address the needs of Research Performing Organisations

(RPOs) by working towards the design of appropriate e-science platforms with adoption that is consistent across Member States. It should include research reproducibility, the implementation of e-science virtualization services, technical infrastructures and a knowledge network for sharing and reproducing algorithms, workflows, publications, research results and other data from research and science.

Seismology and climate change researchers are collaborating in DARE to shape the initial version of the DARE platform. That platform will benefit researchers who are already engaged in reproducible research as they carry out huge data-driven experiments and rapid prototyping. They are the next target audience for DARE to support with meaningful abstractions and tools.

Research managers and administrators, and other staff involved in the research ecosystem (librarians, repository managers, IT services, data stewards, etc.), students (both undergraduate and graduate levels), policy makers, funders and institutions must be alerted to DARE's pioneered approach as they develop their methods that exploit virtualisation for their research.

DARE innovation management and dissemination activities will attempt to successfully address the following practical issues working closely with all WP Leaders:

- ✓ WHERE: where should DARE be shown?
- ✓ WHO: who is the target audience?
- ✓ HOW: how will we measure the impact DARE has?
- ✓ WHAT: what content will DARE share?
- ✓ WHEN: when is the right time to disseminate DARE's results?



Figure 1: Decision making for dissemination activities

All partners in their capacity as part of the WP8 and agile task teams have had a say in and a role in shaping T8.2.

# **1.3** Methodology and Structure of the Deliverable

This deliverable is a public report documenting the various dissemination, awareness and outreach activities and results for the respective period of the first 18 months into the project.

To reach the objectives set in the frame of this task, the partnership needed to reach a wide - but also very specific - audience, so as to maximize the impact and successfully exploit DARE's research results. In this respect, a set of communication and dissemination activities have been deployed throughout these past eighteen months and will continue until the end of the project.

Included in this dissemination report are conferences, workshops, various types of events and social media that have already provided help in raising awareness about DARE for both communication and dissemination purposes.

The M1-M18 period (inclusively up to 31 July 2019) is successfully marked with several participations in various conferences and targeted workshops to present DARE's preliminary results (*see section* <u>4.1</u>).

The seven events hosted by project partners focused on DARE and the related technologies as described in *section 4.2*.

EOSC-hub communities are amongst the most relevant communities and stakeholders in the einfrastructures and e-science arenas for promoting DARE activities and developments. Moreover, the project's own targeted communities – e-science, e-infrastructure in seismology and climate change basically, specialist audiences, groups, industry, professional organisations, and policymakers have been identified in CORDIS, LinkedIn and Twitter and are shown in <u>section 4.2</u>.

# 2 Dissemination and Communication Strategy

As outlined in the DoA (section 2.2.1), for the dissemination and communication strategy to be effective, the partnership and especially WP8 lead addressed different target audiences and adapted messages and their content accordingly. Hence the DARE dissemination and communication target groups included:

- Scientific Communities
- Research Institutions, Centres and Foundations
- Educational and Academic Institutions
- The general public, end-users
- The Media
- R&D Technology Transfer Companies
- Policy Makers, Governmental (geological) agencies
- European Commission
- International, European & National Regulators
- SMEs

## 2.1 Dissemination Levels and Phases

The dissemination and communication activities are being carried out in three main phases:

- 1. Creation of general awareness and attracting potential supporters and users of the project results. Indicative activities include:
  - <u>Before the project</u> started, the team drafted a dissemination and communication plan with expected impact; establishing how and to whom the outcomes will be disseminated to.
  - <u>During the project</u> the dissemination and communication plan is being consulted so as to ensure progress is on track.
  - <u>After the project</u> partners will continue further dissemination activities and developing ideas for future co-operations and contacting relevant stakeholders thus creating a pool of users for the prototypes created and the DARE platform.

# 2.2 Key Dissemination Channels and Communication Activities

<u>Online Dissemination</u>: The consortium has set up and will continue to maintain the project website for the duration of DARE plus at least two years. This will include a public area, through which project-related information will be disseminated (e.g. public deliverables, news, etc.).

For the non-public material, partners use Google Drive as a private area for distribution of restricted information amongst consortium members and for managing the work. The consortium also engages in the utilization of social media for further dissemination of information via LinkedIn and Twitter accounts. To reach out to the Research community a Research Gate account has been created where partners link their publications to the DARE project. These online activities are used in such a way so as to drive traffic to the DARE website by using the relevant URLs in posts.

After careful consideration the consortium decided not to hold accounts on Facebook and YouTube as initially stated in the DoA.

<u>Non-Electronic Dissemination</u>: Activities included in this group include more traditional means of knowledge transfer, such as articles in topic-specific journals, brochures, scientific publications, broadcast media, business papers and domain specific magazines. The activities focus on disseminating project results, mainly to scientific experts and professionals (Solid Earth and Climate Sciences, and the IT community). With their work, partners aim to increase awareness and engagement with the project, and to create synergies with similar initiatives and projects.

To multiply the impact of the project, assigned partners contact local, regional and international media including newspapers, radio and TV stations, as well as specialized climate, solid-Earth-related and computer science journals.

<u>Interactive Dissemination</u>: This activity offers partners with a chance for personal face-to-face interaction in academic, commercial and socio-economic conferences and workshops as well as EC-organised events and domain-related exhibitions. Face-to-face interactivity allows for high impact awareness-raising about DARE and is intended for targeted audiences with high levels of information need. The main activity in this regard is participation in events and presentations which allows partners to widen the network of DARE multipliers.

With their work, partners increase awareness and engagement amongst other relevant projects, as well as invite participation of other similar initiatives and projects to attend events organised by

DARE. Interactive dissemination is also practiced by co-organising clustering on national and international levels with other European funded projects in the climate, seismology or IT domains.

# **2.3** Dissemination and Communication Key Performance Indicators (KPIs)

To evaluate the impact of DARE's dissemination and communication strategy, a set of Key Performance Indicators (KPIs) were put in place in the DoA. The table below shows the initial estimates as well as the current numbers half way through the project.

Activity	Key Performance Indicators	Expected Results	CURRENT STATUS
DARE	No. of accesses per year	>3000 accesses	700
Dedicated website	No. of downloads	>150 downloads	70
	No. of individuals / organisations signed up to receive newsletter via email with project updates	>100 individuals	Scheduled for next reporting period
DARE in Social Media Channels	No. of Twitter followers	>500 Twitter followers	92
	No. of likes on Facebook	>500 likes on Facebook	N/A
	No. of members on LinkedIn Group	>200 members on LinkedIn	55
	No. of Project videos	>2 project videos	Scheduled for next reporting period
	No. of views on YouTube	>500 views on YouTube	N/A
	No. of social media interactions from across the EU	>10 representative groups	30
Journal publications	No. of Journal publications	≥3 in total	1
Press mentions	No. of mentions in the Press	10 in total	2
Online Mentions	No. of mentions in Online magazines, newspapers, blogs	≥10 in total	2
Participation in events	No. participation in seminars, conferences, exhibitions, workshops and other events	≥10 in total	15
Organisation of events	No. of events organised (including at least 2 training workshops and 1 Hackathon)	≥3 in total	7
DARE facilitators	No. of people as DARE facilitators trained per use case	≥5 individuals	20*
DARE videos	No. videos produced	2 generating >200 YouTube views in total	N/A
Co-operation with other initiatives	No. Co-operation with other initiatives	>2	10
Networking with communities, networks and associations	No. of contacts who show support for the project	>500 people in total	130**
Adoption of the DARE methodology, platform, tools or components	No. of individuals, projects or RIs	>4	Scheduled for next reporting period

\* During the two training sessions eleven (11) persons, external to DARE, were trained on the IS-ENES use case, whilst nine (9) INGV researchers, external to the DARE partnership, took part in the training.

\*\* The number of contacts who show support for the project are counted by taking into account the two major e-Infrastructures events that were organised by the DARE partnership in Athens and included many EU funded representatives, as well the H2020 EINFRA-21 project technical meeting and other initiatives who showed an additional interest in engaging with the partnership.

# **3** Preparation of Dissemination Material and Services

During these eighteen months into the DARE project, partners emphasized on participating in and organising events so as to maximize the impact that the project makes to the community. The prepared online and offline material, which are outlined in this section, complemented this effort. The partnership successfully organised two important e-Infrastructures events. The first one took place in July 2018 and included national e-Infrastructures projects and initiatives from Greece. The second clustering event was international and occurred in July 2019 where all related H2020 EINFRA-21 projects came together for the first time to discuss project progress, exchange know-how and engage in further collaboration. Of central importance was the participation of EOSC-hub, OpenAIRE, other related EU-funded projects, European Commission officials and stakeholders at policy level.

At a national level, DARE partners Athena Research Centre and NCSR Demokritos, have built strong collaboration towards a national policy for Open Science through the organisation of two important events: the Open Science in the Greek Research Ecosystem Symposium in November 2018 and the Open Science in Greece workshop in July 2019.

## 3.1 The DARE Logo

A logo has been created for DARE which features on the website and will accompany all produced promotional material (online or offline). A few options were prepared by NCSR Demokritos and the one below was chosen by partner voting.



#### Figure 2: DARE project logo

# **3.2** Dissemination Through the DARE Website

As described in the DoA the DARE website was launched in M3 with this URL: <u>http://project-dare.eu/</u>. The website contains information about the project, the team members and also an updated list of events, news and publications of the partnership. Within this task, partners dealt with the specification and design of the dissemination material and services to be used in the context of the project.



Figure 3: DARE Project website

#### **3.3 Dissemination Through DARE's Social Media Channels**

#### 3.3.1 Twitter

DARE's Twitter account has been set up since the project kick off and continues to be maintained by NCSR Demokritos and available under this URL: *https://twitter.com/EU\_project\_DARE* with the corresponding handle: *@EU\_project\_DARE*. So far the project has **92 Twitter followers**.



Figure 4: DARE Twitter account

#### 3.3.2 LinkedIn

The DARE partnership has set up two types of communication channels on LinkedIn. Firstly the **DARE page** has been set up since the project kick off and continues to be maintained by NCSR Demokritos and available under this URL: <u>https://www.linkedin.com/company/dare-h2020-project</u>. So far the page has **20 followers**.



Figure 5: DARE LinkedIn Page

Additionally a **LinkedIn group** is also in place to allow for discussions to take place with the community. The group is available under this URL: <u>www.linkedin.com/in/dare-project-006617158</u>. Currently the DARE group has **35 connections**.



Figure 6: DARE LinkedIn Group

#### 3.3.3 Research Gate

DARE maintains a Research Gate account as it is a more research-related channel to help more easily

share publications and reports with the research community. In March 2018 the account was created under this URL:

<u>https://www.researchgate.net/project/DARE-Delivering-Agile-Research-Excellence-on-European-e-Infrastructures</u>.

Currently the project account has **10 followers and 116 reads**.

R <sup>G</sup>	🔓 Home	Questions Jobs	Search for researchers, publications, and more	Q	
		Project		Updates	(0 new) <b>0</b>
		DARE: Delivering Agile Researc	h Excellence on European	Recommendations	() new ()
		e-Infrastructures		Followers	0 new 10
		Iraklis A. Klampanos · Malcolm Phillip Atk Show all 18 collaborators	inson · 🧶 Rosa Filgueira ·	Reads 🛈	(7 new) 116
		Goal: This project has received funding from the innovation programme under grant agreement Network	European Union's Horizon 2020 research and o 777413. Website: <u>http://project-dare.eu/</u>		
		Lab: Malcolm Phillip Atkinson's Lab			

Figure 7: DARE Research Gate account

#### **3.4 Dissemination Material Produced**

As shown below, a project leaflet has been produced in Year 1 summarizing the project objectives, and showcasing the partnership. The leaflet is also available in hard copy and online for DARE website visitors to download. This leaflet was handed out at various conferences e.g. ICRI 2018 as well as others.





Figure 8: DARE project leaflet

#### **3.5 DARE Publications**

In the first 18 months of the project, the DARE partnership has produced **7 scientific publications** in various occasions. These can be reviewed in the table below as well as online the DARE website: <a href="http://project-dare.eu/deliverables-publications/">http://project-dare.eu/deliverables-publications/</a>.

	PUBLICATIONS OF THE DARE PARTNERSHIP
	Leveraging and Easing End Users' Climate Data Access by Interfacing Infrastructures
1	Christian Pagé, Wim Som de Cerff, Alessandro Spinuso, Maarten Plieger, Iraklis Klampanos,
1	Malcolm Atkinson, Vangelis Karkaletsis, AGU Fall Meeting 2018 (AGU2018), Washington
	D.C., USA, 10-14 December 2018
	DARE to Deliver Research Agility on Cloud E-Infrastructures
2	Iraklis Klampanos, Malcolm Atkinson, Christian Pagé, Antonis Koukourikos, Federica
2	Magnoni, Andreas Rietbrock, Vangelis Karkaletsis, AGU Fall Meeting 2018 (AGU2018),
	Washington D.C., USA, 10-14 December 2018
	Establishing Core Concepts for Information-Powered Collaborations
3	Luca Trani, Malcolm P. Atkinson, Daniele Bailo, Rossana Paciello, Rosa Filgueira, FGCS vol.
	89, 421-437, Future Generation Computer Systems, Elsevier, July 2018
	Improving Climate Data Access through integration of the DARE Platform, the ENES CDI
	and EUDAT B2 Services
4	Christian Pagé, Xavier Pivan, Alessandro Spinuso, Wim Som de Cerff and Maarten Plieger,
	10th International Workshop on Science Gateways (IWSG 2018), Edinburgh, UK, 13-15
	June 2018
5	Forward and Inverse Seismic Modelling Science Gateway (a provenance-powered
5	solution)

	Alessandro Spinuso, Andre Gemünd, Rafiq Saleh, Federica Magnoni, 10th International					
	Workshop on Science Gateways (IWSG 2018), Edinburgh, UK, 13-15 June 2018					
	Using the EGI FedCloud and the ESGF CWT-API in a WPS workflow to provide data					
	analysis computations for the IS-ENES climate4impact platform					
c	Christian Pagé, Xavier Pivan, Asela Rajapakse, Wim Som de Cerff, Maarten Plieger, Ernst de					
0	Vreede, Alessandro Spinuso, Lars Bärring, Antonio Cofiño, Alessandro d'Anca, and Sandro					
	Fiore, EGU General Assembly 2018, Geophysical Research Abstracts Vol. 20, EGU2018-					
	12280-1,Vienna, Austria, 8–13 April 2018					
	EPOS-IP and DARE use case: the VERCE platform for a widely accessible forward and					
	inverse seismic modelling					
-	Rafiq Saleh, Alessandro Spinuso, Andre Gemuend, Emanuele Casarotti, Federica Magnoni,					
/	Lion Krischer, Heiner Igel, Iraklis Klampanos, Horst Schwichtenberg, Anton Frank, Alberto					
	Michelini, Jean-Pierre Vilotte, Andreas Rietbrock, EGU General Assembly 2018,					
	Geophysical Research Abstracts Vol. 20, EGU2018-19102, Vienna, Austria, 8–13 April 2018					

#### **Figure 9: DARE publications**

#### 3.5.1 DARE Accepted Papers for Future Publications

Project researchers have been accepted to present additional papers at scientific conferences in the coming months. These will be formally included in the subsequent dissemination report.

DARE will organise the workshop <u>BC2DC '19</u> on 24 September 2019, which is co-located with <u>eScience</u> 2019 in the USA. The partners have four accepted papers in that same workshop, for information purposes they are outlined below:

1. Active provenance for Data-Intensive workflows: engaging users and developers, Alessandro Spinuso, Malcolm Atkinson and Federica Magnoni

2. DARE: A Reflective Platform Designed to Enable Agile Data-Driven Research on the Cloud, Iraklis Klampanos, Athanasios Davvetas, Andre Gemund, Malcolm Atkinson, Antonis Koukourikos, Rosa Filgueira, Amrey Krause, Alessandro Spinuso, Angelos Charalambidis, Federica Magnoni, Emanuele Casarotti, Christian Page, Mike Lindner and Vangelis Karkaletsis

3. Ease access to climate simulations for researchers: IS-ENES climate4impact, Christian Page, Wim Som De Cerff, Maarten Plieger, Alessandro Spinuso and Xavier Pivan

4. Towards a computer-interpretable actionable formal model to encode data governance rules, Rui Zhao and Malcolm Atkinson

#### **3.5.2** PhD Theses Relating to DARE

The two theses outlined below are a result of a long collaboration, they are highly relevant to DARE and draw on DARE work.

1. A. Spinuso, Active provenance for data intensive research, PhD Thesis, The University of Edinburgh, 2018

2. L. Trani, A methodology to sustain common information spaces for research collaborations, Ph.D. thesis, School of Informatics, University of Edinburgh

#### **3.6 DARE Public Deliverables**

In the frame of making submitted project deliverables publicly available, the DARE partnership has dedicated a webpage on the project website where **20 of its deliverables** are available to download freely. The respective page on the DARE website: <u>http://project-dare.eu/deliverables/</u>.

#### **3.7 DARE Training Demos**

To present the first release of the DARE platform of the respective pilots (from EPOS and IS-ENES) to a selected target group of users, DARE partners have scheduled training events to take place which were organised by INGV and CERFACS (with the assistance of partner KNMI) respectively.

After the trainings which took place on June, 27 in Rome, Italy for EPOS and June, 17 in Utrecht, The Netherlands, for IS-ENES, quantitative and qualitative evaluations took place. Further discussions and analyses of user feedback through questionnaires and discussions at the end of demonstrations. The evaluations from users were quite positive and the participants were satisfied with the organisation. The feedback gained will be very useful for the next DARE development phases, and a second training is expected to be organized in the second half of the DARE project. More information about the trainings can be found in D8.4 Training and Consulting Report I.

## 4 Dissemination and Outreach Activities [M1-M18]

#### 4.1 Participation in dissemination activities

A roadmap of e-infrastructure-centric events that are relevant to DARE was compiled leading to participation and presentations at numerous conferences and other events. The list of participation for the first 18 months into the project can be viewed below.

DARE presentation and participation at events					
EVENT	Dates	Location	Partner involved	Weblink	
EUDAT Conference	23-24 January 2018	Porto, Portugal	V.Karkaletsis, NCSRD	http://project- dare.eu/2018/02/02/dare- presentation-at-eudat-conference/	
EGU General Assembly 2018	8-13 April 2018	Vienna, Austria	CERFACS, KNMI, INGV	<u>http://project-</u> <u>dare.eu/2018/04/15/dare-</u> <u>participation-egu2018-with-two-</u> <u>papers/</u>	
EOSC-hub week	16-20 April 2018	Malaga, Spain	A.Gemünd, SCAI Fraunhofer	https://www.eosc- hub.eu/events/eosc-hub-week-16- 20-april-2018-malaga-spain	
IWSG 2018 10th International Workshop on Science Gateways	13-15 June 2018	Edinburgh, Scotland, UK	All partners M.Atkinson, UEDIN	<u>https://sites.google.com/a/nd.edu/i</u> wsg2018/	
6th Hellenic Forum: The role of Research e- infrastructures in the National Research	10 July 2018	Athens, Greece	All partners V.Karkaletsis, NCSRD	http://project- dare.eu/2019/03/08/dare-organises- einfrastructures-workshop-at-6th- hellenic-forum/	

D8.2	
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Agenda				
ICRI 2018 - 4th International Conference on Research Infrastructures	12-14 September 2018	Vienna, Austria	I.Klampanos, NCSRD X.Tsilibaris, GRNET	https://www.icri2018.at/
DI4R 2018 - Digital Infrastructures for Research	9-11 October 2018	Lisbon, Portugal	C.Pagé, CERFACS A.Gemünd, SCAI Fraunhofer	https://indico.egi.eu/indico/event/39 73/session/26/contribution/147
Second EOSC Stakeholders Forum	21-22 November 2018	Vienna, Austria	A.Gemünd, SCAI Fraunhofer C.Pagé, CERFACS	https://eoscpilot.eu/events/second- eosc-stakeholders-forum
Open Science in the Greek Research Ecosystem Symposium	29 November 2018	Athens, Greece	V.Karkaletsis, NCSRD C.Pagé, CERFACS	https://www.athena- innovation.gr/en/events/open- science-symposium
2018 AGU Fall Meeting	10-14 December 2018	Washington DC, USA	C.Pagé, CERFACS	https://agu.confex.com/agu/fm18/ga teway.cgi
EOSC-hub Week 2019	9-12 April 2019	Prague, Czech Republic	C.Pagé, CERFACS I.Klampanos, NCSRD A.Gemünd, SCAI Fraunhofer R.Baxter, UEDIN	https://www.eosc- hub.eu/events/eosc-hub-week-2019
EGI Conference 2019	8 May 2019	Amsterdam, NL	A.Spinuso, KNMI	https://indico.egi.eu/indico/event/44 31/session/27/contribution/12
Jupyter meetup #03	13 June 2019	Amsterdam, NL	A.Spinuso, KNMI	https://www.meetup.com/Jupyter- Amsterdam/events/261614525/
International Supercomputing 2019	17-19 June 2019	Frankfurt, Germany	A.Gemünd, SCAI Fraunhofer	https://www.isc-hpc.com/id- 2019.html
Clustering Event: Creating platform- driven e-Infrastructure innovation on EOSC	10 July 2019	Athens, Greece	All partners M.Atkinson, UEDIN	http://project- dare.eu/2019/07/18/dare-deep-xdc- organised-clustering-event-with- great-success/
EINFRA-21 projects Technical Meeting	11 July 2019	Athens, Greece	V.Karkaletsis, NCSRD All partners	<u>N/A</u>
Open Science in Greece	22 July 2019	Athens, Greece	V.Karkaletsis, NCSRD	https://posts.hellenicdataservice.gr/ 2019/07/25/open-science-group- first-meeting/

#### Figure 10: DARE participation at events

The dissemination activities that the DARE partnership has participated in the past 18 months is available on the News webpage of the project website: <u>http://project-dare.eu/news/</u>. An indicative preview is available below.



The DARE team at DI4R 2018 -Digital Infrastructures for Research which took place from 9 to 11 October 2018 in Lisbon, Portugal.



C. Pagé, CERFACS delivered a presentation about the project during the DI4R 2018 event

Partners C. Pagé from CERFACS, I. Klampanos from NCSRD and Rosa Filgueira, UEDIN presented papers and posters at 2018 AGU Fall Meeting which took place from 10 - 14 December 2018 in Washington DC, USA

Partners C. Pagé from CERFACS, I.Klampanos from NCSR D and A. Gemund from SCAI Fraunhofer participated in EOSC-hub Week which took place from 10-12 April 2019 in Prague, Czech Republic

Figure 11: DARE participation at events

# 4.2 Organisation of dissemination activities by project partners

The activities organised by DARE partners entailed carefully selected delegates and proved to be very important for the engagement of DARE project with the community as well as other projects. More specifically the 10<sup>th</sup> International Workshop on Science Gateways (IWSG 2018) in Scotland, the national e-Infrastructures event (2018) in Greece and the workshop during the 2018 AGU Fall Meeting in USA proved highly successful.

It's worth noting that the latest events (the clustering event on July, 10, 2019) and the technical project meeting that followed the day after (on July, 11, 2019) at NCSR Demokritos campus in Athens, Greece **brought together, for the first time, all H2020 EINFRA-21 projects** who engaged in fruitful technical discussions, and exchanged know-how on critical issues.

Additional related EC-funded projects and initiatives were represented as well as EOSC-hub partners, European Commission officials and other stakeholders.

DARE organisation of events				
EVENT	Dates	Location	Partner involved	Weblink
IWSG 2018 – 10 <sup>th</sup> International Workshop on Science Gateways	13-15 June 2018	Edinburgh, Scotland, UK	UEDIN, M.Atkinson	https://sites.google.com/a/nd.edu/i wsg2018/
6 <sup>th</sup> Hellenic Forum: The role of Research e-Infrastructures in the National Research Agenda	10 July 2018	Athens, Greece	NCSRD, V.Karkaletsis	http://project- dare.eu/2019/03/08/dare- organises-einfrastructures- workshop-at-6th-hellenic-forum/
2018 AGU Fall Meeting	12 December 2018	Washington DC, USA	CERFACS, C.Pagé	http://project- dare.eu/2019/03/08/dare-at-2018- agu-fall-meeting/
Clustering Event: Creating platform-driven e-Infrastructure innovation on EOSC	10 July 2019	Athens, Greece	NCSRD + All partners	http://project- dare.eu/2019/05/24/dare-project- organises-einfrastructures-cluster- meeting-of-european-projects/
EINFRA-21 projects Technical Meeting	11 July 2019	Athens, Greece	NCSRD + All partners	N/A

#### Figure 12: DARE organisation of events

In the months to follow, the DARE partnership will be organising a co-located workshop at **IEEE eScience 2019** titled **Bridging Concepts to Data and Computation** (<u>BC2DC '19</u>) on 24 September 2019, which is co-located with <u>eScience 2019</u> in the USA. The partners have four papers in San Diego, California, USA so as to stimulate focused discussion on the R&D challenges DARE faces and to develop international collaborations.

The dissemination activities that the DARE partnership has organised in the past 18 months is available on the News webpage of the project website: <u>http://project-dare.eu/news/</u>. An indicative preview is available in the figure below for your perusal.





NCSR Demokritos organised an event bringing together all national e-Infrastructures in Greece during the 6<sup>th</sup> Hellenic Forum which took place on 10 July 2018 in Athens Greece.

Pictured above: V. Karkaletsis, DARE coordinator and G. Nounesis, Director and President of the Board of NCSR Demokritos welcome delegates.

Pictured below: M. Kyprianidou, Secretary General for Research & Technology at the Hellenic Ministry of Education, Research and Religious Affairs and Y. Ioannidis, President & General Director of Athena Research Center.





Figure 13: Photos from events that DARE organised

# 4.3 Locating and contacting relevant communities and stakeholders for promoting DARE activities and developments.

For the DARE project to be made visible to the relevant communities, partners located mainly through CORDIS and contacted stakeholders and their respective communities as well as other projects to engaging them in discussions and disseminating DARE activities and developments. A list of **36** 

**projects** that the partnership engaged with in various levels is available below. The list below covers all aspects of the technologies DARE systematically explores, i.e. *Open Science, Advanced Computing, Virtual Research Environments, Research Data, Cloud platforms* as well as several scientific disciplines, i.e. *Mathematics, Biology, Earth Sciences, Innovation, Environment, Networking, and Earth Observation*.

DARE aims to foster stronger communication with these projects once it becomes more standardized in its offerings. It is also obvious that the term "market" is not being used on a commercial context rather it refers to the research communities DARE intends to support once it reaches a functional status.

http://www.icre8.eu/bluebridge-h2020	Building Research environments for fostering Innovation, Decision making, Governance and Education to support Blue growth
https://opendreamkit.org/	Open Digital Research Environment Toolkit for the Advancement of Mathematiks
https://vi-seem.eu/	VRE for regional Interdisciplinary communities in Southeast Europe and the Eastern Mediterranean
https://www.vre4eic.eu/	A Europe-wide Interoperable Virtual Research Environment to Empower Multidisciplinary Research Communities and Accelerate Innovation and Collaboration
https://about.west-life.eu/network/we	± Virtual Research Environment for Structural Biology
https://www.epos-ip.org/	The European Plate Observing System
http://www.envriplus.eu/	Cluster of Environmental Research Infrastructures across Europe
https://paasage.ercim.eu/	An open source integrated platform to support both design and deployment of Cloud applications
http://www.switchproject.eu/	Software Workbench for Interactive, Time Critical and Highly self-adaptive Cloud applications
https://www.openaire.eu/	European Open Science Infrastructure, for open scholarly and scientific communication
http://ever-est.eu/	Virtual Research Environment for Research Lifecycle management for the Earth Science community.
http://www.prace-ri.eu/	Partnership for Advanced Computing in Europe
https://www.rd-alliance.org/rda-europ	: The European plug-in to the Research Data Alliance
http://phenomenal-h2020.eu/home/	Comprehensive and standardised e-infrastructure that supports the data processing and analysis pipelines for molecular phenotype data generated by metabolomics applications.
https://www.geant.org/	Europe's e-infrastructure, delivering the pan-European GÉANT network for scientific excellence
https://read.transkribus.eu/	Recognition and Enrichment of Archival Documents
https://project-thor.eu/	Technical and Human infrastructure for Open Research
http://openminted.eu/	An open, service-oriented e-infrastructure for Text and Data Mining (TDM) of scientific and scholarly content
https://www.eqi.eu/	EGI delivers advanced computing services to support scientists, multinational projects and research infrastructures
http://e-irqsp5.e-irq.eu/	Support to the e-Infrastructure Reflection Group
http://www.multiscalegenomics.eu/Mu	© Virtual Research Environment supports the expanding 3D/4D genomics community
http://learn-rdm.eu/en/about/	Resources to help Research Performing Institutions manage their research data
https://www.indigo-datacloud.eu/	A sustainable European PaaS-based cloud solution for e-Science
https://www.eudat.eu/	Research Data Services, Expertise & Technology Solutions
https://aarc-project.eu/	A set of turn-key solutions bringing research collaborations closer together
https://sesamenet.eu/	Facilitate access and take-up by industry and in particular SMEs of HPC services
https://www.jupyteo.com/	EO data processing, cloud-based IDE
https://cordis.europa.eu/project/rcn/2.	FREYA Connected Open Identifiers for Discovery, Access and Use of Research Resources
https://deep-hybrid-datacloud.eu/	DEEP Hybrid Data Cloud:Supporting artificial intelligence (machine learning and deep learning), parallel post-processing of very large data, and analysis of massive online data streams over distributed e-Infrastructures in the European Open Science Cloud (EC
http://www.extreme-datacloud.eu/	XDC - eXtreme DataCloud:developing scalable technologies for federating storage resources and managing data in highly distributed computing environments
https://www.rd-alliance.org/rda-europ	, RDA:the European plug-in to the Research Data Alliance (RDA)
http://www.earthserver.eu/	Earthserver: Big data at your fingerlips
http://edison-project.eu/	Edison:aims to establish the data scientist os a profession
https://cheese-coe.eu	CHEESE:a new Center of Excellence (CoE) in the domain of Solid Earth (SE) targeting the preparation of 10 Community flagship European codes for the upcoming pre-Exascale (2020) and Exascale (2022) supercomputers

#### Figure 14: Projects DARE engaged with in the past 18 months

Furthermore, the major EOSC-hub communities have been identified in order to establish peer-topeer communication with DARE as shown in the figure below.



Figure 15: Reaching out to EOSC-hub Research Communities

Moreover, it is worth mentioning the preliminary discussions with the **SOBLOO DIAS** Earth observation platform <u>https://sobloo.eu/</u> were initiated by CERFACS in Toulouse, where both entities are based, and by GRNET in Baveno, Italy on the occasion of celebrating 20 years of the EU Copernicus Programme in 2018.

As mentioned in the previous sections, DARE has established its own group in **LinkedIn**, while it follows and posts in the following groups:



뾾	DEEP Hybrid-Datacloud Standard group • 20 members
愍	Data Lineage Interest Group Standard group - 126 members
-	SWICCA, Service for Water Indicators in Climate Adaptation Standard group - 48 members
1.00 <b>2</b> /	Climate4Impact Webportal Standard group - 36 members
愍	Virtual Research Environments Standard group - 38 members
ю <u>ў</u> на	ICT AGRI Standard group - 4 members
路	Hellenic NSDI Standard group • 61 members
1	FTTH in Greece Unlisted group - 842 members
	Search other trusted communities that share and support your goals.

Figure 16: Engagement with groups on LinkedIn

In the same context, **Twitter** offers more opportunities to communicate content from DARE. Indeed, 157 accounts are being followed from Research Data to Earth Observation as shown below and various posts related to DARE's presentations in conferences and workshops have been tweeted.



Figure 17: Twitter e-Infrastructures related accounts followed

# **5** Conclusions

In this deliverable the basic dissemination and outreach activities that took place in the first 18 months of the project were presented. So far DARE has produced 7 publications with a further 4 already accepted for publication, it has organised seven events involving a total of 300 participants and has two more in the pipeline. It has participated at 17 conferences and workshops, has produced a website, maintains relevant social media accounts and distributed the DARE flyer in numerous occasions. The DARE ecosystem, consists of e-Infrastructures projects, e-Science organisations, research software entities and R&D professionals in Seismology and Climate Change in particular. Thus partners have focused their efforts to approach various stakeholders and raise awareness in these domains through event participation and organisation, robust online presence, as well as scientific publications to reach out to the relevant communities.

As the project progresses in the coming months, keeping in line with major development of its assets, such as the DARE platform, the partnership will focus on engaging even more with the relevant stakeholders of its domains so as to establish structural relations with not only the aforementioned entities but also with the industry and SMEs in particular.