

PaNOSC WP 9

Outreach / Communication and Dissemination / Impact

16th June 2020

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 823852

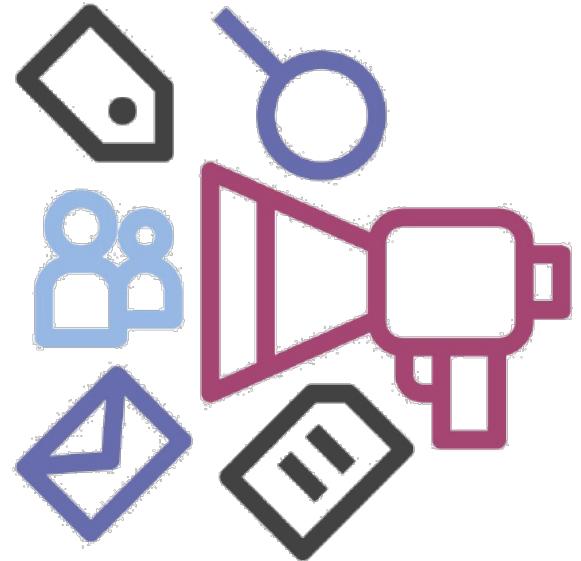
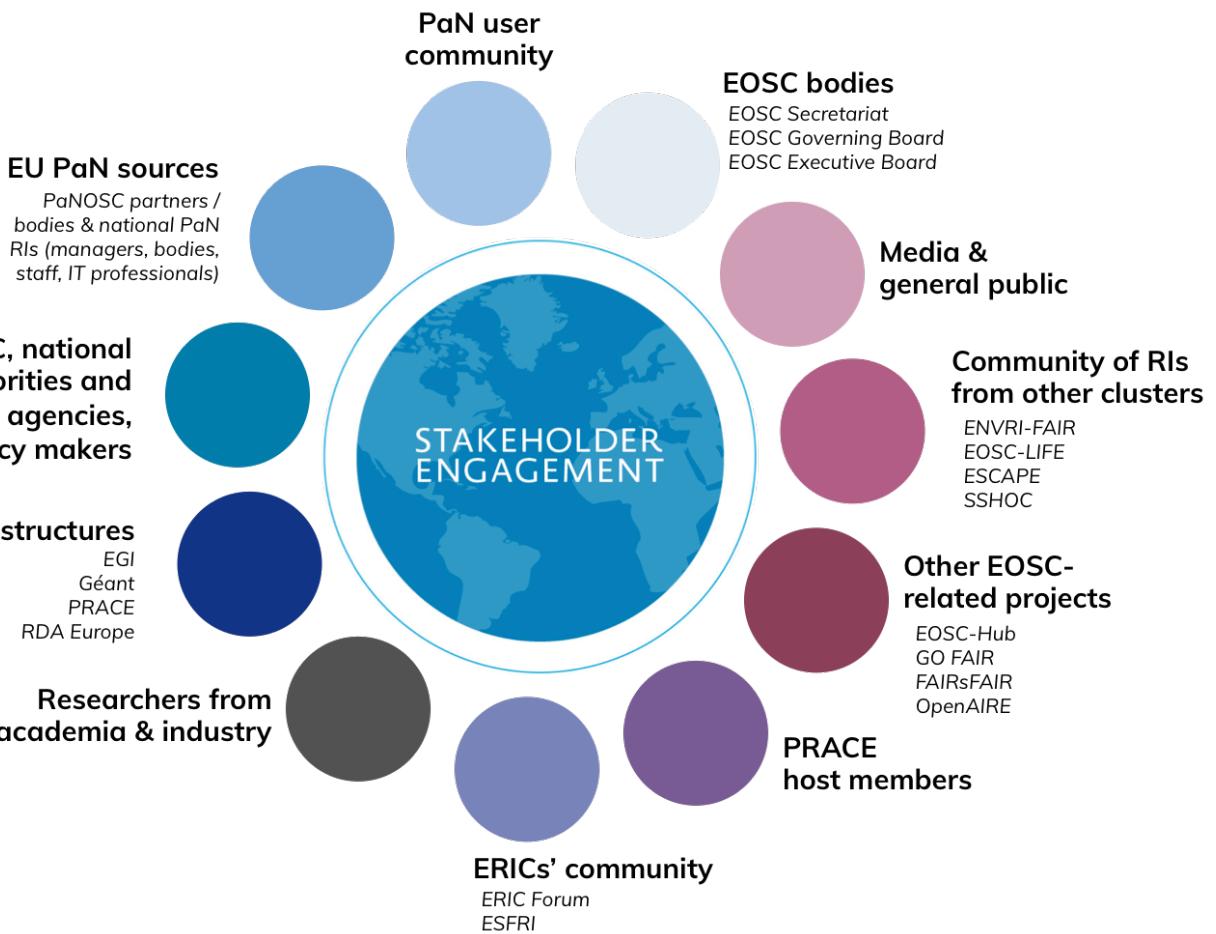


Main challenge:

Engage with the European PaN community and EOSC stakeholders to boost Open Data, Open Science, and the future use of PaNOSC's services.

Communication and Dissemination Plan

Identifies actions, tools and target groups addressed, according to the project's stage of implementation, e.g., linking the communication with the task(s) in progress.



Media MIX:

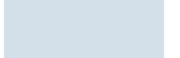
- Project's website: <https://panosc.eu> 2k users
- PaNOSC Twitter account: @panosc_eu 400 followers
- PaNOSC YouTube channel 650 views
- Partners' websites and newsletters
- PaNOSC brochure
- Media relations
- Promotional material (rollups, posters, gadgets, etc.)
- Promotional campaigns
- Reporting
- Networking and outreach events
- Training events and material

Interaction with stakeholders

LIST OF ORGANIZED EVENTS		
EVENT'S NAME	DATE	LOCATION
PaNOSC kick-off meeting	15-16 January 2019	ESRF, Grenoble - France
1 st PaNOSC OASYS School	14-16 May 2019	ESRF, Grenoble – France
WP3 kick-off meeting	May 2019	Copenhagen – Denmark
WP4 kick-off meeting	25-26 June 2019	Schenefeld – Germany
HDF5 European Workshop for Science and Industry	17-18 September 2019	ESRF, Grenoble – France
WP3 face-2-face meeting	18-19 September 2019	ILL, Grenoble – France
h5py code camp	19-20 September 2019	ESRF, Grenoble – France
Jupyter workshop @ICALEPCS2019	5 October 2019	New York - USA
PaNOSC 1 st Annual Meeting (conference)	4-5 November 2019	CERIC-ERIC, Trieste - Italy
Joint ExPaNDS and PaNOSC meeting on Data Catalog Services	11-12 February 2020	European Spallation Source Lund – Sweden
ICAT metadata catalogue online meeting	10-11 March 2020	ESRF, online
ViNYL development sprint 2020	20-30 March 2020	Online

WP9 supported the promotion of the events and the follow-up communications, with the publication and distribution of posts on the project's website, to the partners and stakeholders, and on social media.

PaNOSC organized conferences, workshops and training events, mainly involving internal stakeholders, such as data scientists and software engineers/developers at the partners, also in coordination with ExPaNDS.

 Organization of workshops (6)

 Organization of conferences (2)

 Organization of training events (2)

 Organization of WP f2f meetings

Interaction with stakeholders

List of attended events		
Event's name	Date	Location
ESFRI RIs and EOSC Workshop	30 January 2019	London – UK
ESCAPE kick-off meeting	7-8 February 2019	Paris – France
FAIRsFAIR kick-off meeting	14-15 March 2019	Amsterdam – The Netherlands
EOSC-hub week 2019	10-12 April 2019	Prague – Czech Republic
EGI Conference	6-8 May 2019	Amsterdam – The Netherlands
LEAPS-IT, CalipsoPlus + UmbrellaID	13-15 May 2019	PSI, Villigen – Switzerland
"Dashboarding with project Jupyter" workshop	3-6 June 2019	Paris – France
EOSC Jam Session	6-7 June 2020	Turin – Italy
Jupyter Community workshop	11-13 June 2019	Berkeley – USA
Challenges and Opportunities of Digital Transformation in Fundamental Research with Photons and Neutrons	13-14 June 2019	DESY, Hamburg – Germany
Building Open Science in Europe. The road ahead for the EOSC community	20 June 2019	Tallin – Estonia
European Conference for Neutron Scattering, ECNS (WP5)	20 June – 5 July 2019	St. Petersburg – Russia
CASUS Opening Symposium (SIMEX, a start-to-end simulation platform for experiments at advanced light sources – WP5)	26-28 August 2019	Görlitz – Germany
Joint EOSC project meeting	9-10 September 2019	Brussels - Belgium
ExPaNDS kick-off meeting	11-12 September 2019	Hamburg - Germany
International Conference on Advanced Neutron Sources – ICANS XXIII (Examples on using McStas Union components and Python interface – WP5)	13-18 October 2019	Chattanooga – USA
RDA Plenary side event: "EOSC services, collaboration & RDA	21 October 2019	Helsinki – Finland
2 nd LEAPS plenary meeting	18-19 November 2019	PSI, Villigen – Switzerland
FAIRsFAIR 1 st Synchronisation Workshop	25 November 2019	Budapest – Hungary
EOSC Symposium	28-29 November 2019	Budapest – Hungary
EOSC day @CNRS	22 January 2020	CNRS, Paris – France
DESY and European XFEL user meetings	29-31 January 2020	DESY / European XFEL Hamburg – Germany
ESRF user meeting	3-5 February 2020	Grenoble – France
FAIRsFAIR 2 nd Synchronisation Workshop	29 April – 11 June 2020	Online
EOSC Landscape Validation Workshop	27-28 April 2020	Online
European RIs for a smarter future (ePosters Hall)	15 May 2020	ESFRI / Croatian Presidency of the EU Council, online
EOSC-hub week 2020	18-20 May 2020	Online
ORSO Workshop	26 May 2020	Online

Staff and managers from PaNOSC partners introduced PaNOSC to different audiences (including RIs technical staff and managers, policy makers, researchers and service providers), and to discuss future plans and developments.

Workshops (10)

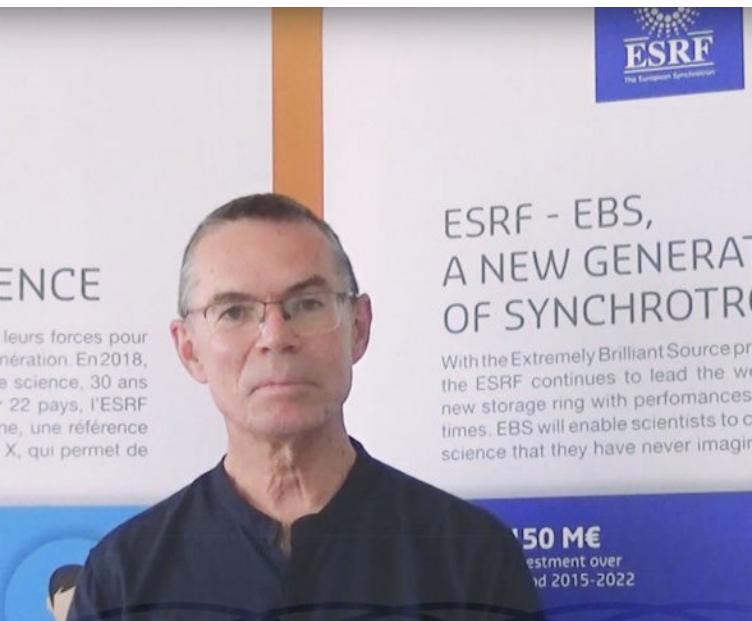
Conferences (8)

Events other than conference or workshop (11)

E-Exhibition (1)



Visions on the EOSC from the PaNOSC community



Andy Götz – PaNOSC coordinator and leader of PaNOSC WP2 - Head of data analysis group at ESRF

“In the past years we have started defining and implementing open data policies, which are now coming to fruition. EOSC comes in the right time to **make these data available to a much larger community**. EOSC would help people to link data from different research fields and to gain new insights”.

Full interview: <http://bit.ly/2M2UcF1>



Dr. Aljoša Hafner, Computational Physicist at CERIC-ERIC for PaNOSC

“The EOSC will allow combining very complicated tools in a single working environment, having data (and metadata) stored in a unified format, collected in one place and user from anywhere, while it will be possible to make computationally very expensive calculations, run on remote servers, for data analysis and experiments' simulations”.

Full interview: <http://bit.ly/2MF0I47>



Jonathan Taylor, Head of data management and software centre division at ESS

“The ability to deliver data and data services via a common portal with federated authentication would be a real benefit for RIs. This will enable **improvements in data management**. Both facilities and their users would benefit from the increase in the use of FAIR data”.

Full interview: <http://bit.ly/2TkYj2T>

Visions on the EOSC from the PaNOSC community



Dr. Alessa Gambardella, ESRF user, former post-doc scientific researcher at the Rijksmuseum Amsterdam

“The EOSC [...] connects disciplines on a level where the languages are the same – that being measured data – and this in the end shall help researchers more easily find parallels and work more closely together”

Full interview: <http://bit.ly/2BVeoTz>



Matthew Bowler, Beamline scientist at EMBL and visiting scientist at ESRF

“Having open and accessible data would give a huge boost to structural biology. We really need test data to make a difference so that we can improve things. [...] All communities would benefit from it, and structural biology in particular, especially with the revolution in electron microscopy that has been developing in the last 5 years”.

Full interview: <http://bit.ly/30v0tPx>



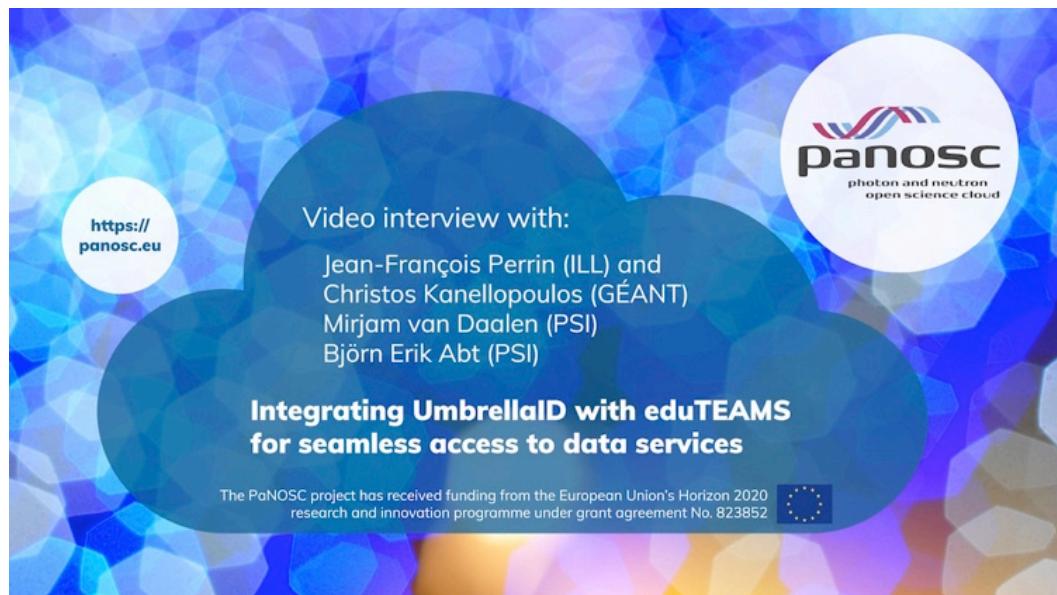
25 Sept. 2019

🎬 Released today at the **#RiDaysEU** the video by the **@EoscSecretariat**, w/ interviews to scientists & managers at **#EU_RIs**, on their vision of the **#EOSC**, and of the benefits that both the scientific community and the public could get from it
Watch it here ► bit.ly/2IEua0u



Dissemination activities on PaNOSC achievements

Interview on the work carried out in the frame of **PaNOSC WP6** – EOSC integration, towards the set-up of a federated authorization and authentication infrastructure (AAI) for the users of photon and neutron sources, which will allow a seamless access to data and data services.



Full interview: <http://bit.ly/36ghSwI>

Articles and interviews were published on the PaNOSC website and distributed to the PaNOSC network, via direct email and social media

Interview with prof. Hans Fangohr (leader of **PaNOSC WP4**) on OSCOVIDA, the Open Science COVID Analysis website (<http://oscovida.github.io>) that collects and shows analysis plots of COVID19 cases and deaths to better understand the time development of the pandemic and the measures taken in all countries worldwide.



Full interview: <https://bit.ly/2Xm07Lj>



Posters and Publications*

VINYL: the Virtual Neutron and x-raY Laboratory and its applications, J. C. E et al., Advances in Computational Methods for X-Ray Optics V(SPIE, 2020) accepted.

PaNOSC FAIR Research Data Policy framework

Götz, A.; Perrin, J.-F.; Fangohr, H.; Salvat, D.; Gliksohn, F.; Markvardsen, A.; McBirnie, A.; Gonzalez-Beltran, A.; Taylor, J.; Matthews, B., May 2020, DOI: <https://doi.org/10.5281/zenodo.3862701>

SIMEX test data, Fortmann-Grote, C., April 2020, DOI: <https://doi.org/10.5281/zenodo.3750541>

PaNOSC position paper on EOSC, Götz, A., February 2020, DOI: <https://doi.org/10.5281/zenodo.3689420>

Example Photon raytracing openPMD data, Hafner, A., November 2019
DOI: <https://doi.org/10.5281/zenodo.3532902>

Example dataset for openPMD-conform molecular dynamics data (MD domain extension), Juncheng, E., November 2019, DOI: <https://doi.org/10.5281/zenodo.3525951>

Example dataset for openPMD conform wavefront propagation data (wavefront domain extension), Fortmann-Grote, C., November 2019, DOI: <https://doi.org/10.5281/zenodo.3524710>

ESRF Data Policy, Storage, and Services, Dimper, R., Götz, A.; De Maria, A., Solé V.A., Chaillet, M., Lebayle, B., May 2019, DOI: <https://doi.org/10.1080/08940886.2019.1608119>

Data Exploration and Analysis with Jupyter Notebooks, Fangohr et al., Proceedings of ICALEPCS2019, New York, NY, USA, WECPR03 (2019)

Enabling Open Science for Photon and Neutron Sources, A. Götz, J. Bodera Sempere, A. Campbell, A. de Maria, M. del Rio, R. Dimper, J. Kieffer, A. Solé, T. Vincent, ESRF, Grenoble, France; S. Caunt, J. Hall, J. F. Perrin, ILL, Grenoble, France; N. Carboni, A. Hafner, R. Pugliese, CERIC-ERIC, Trieste, Italy; M. Bertelsen, T. H. Rod, T. S. Richter, J. Taylor, ESS, Copenhagen, Denmark; J. C. E. H. Fangohr, C. Fortmann-Grote, T. Kluyver, R. Rosca, EuXFEL, Schenefeld, Germany; F. Gliksohn, L. Schrettner, ELI-DC, Brussels, Belgium, Proceedings of ICALEPCS2019, New York, NY, USA, 2019

*Most PaNOSC publications are available in the project's community on Zenodo:

<https://zenodo.org/communities/panosc/>

As at May 30th, they reached 941 views and 801 downloads

PaNOSC poster for the joint EOSC project meeting (Brussels, 9-10.9.2019)

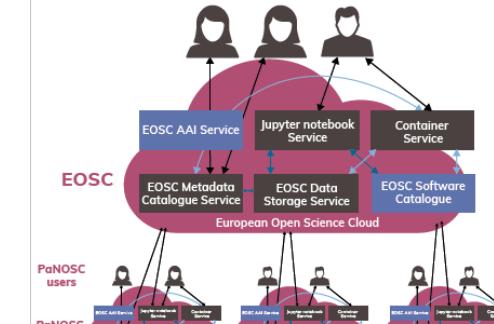


PaNOSC is a European project financed by the INFRAEOSC-04 call for making FAIR data a reality in 6 European Research Infrastructures (RIs), developing and providing services for scientific data and connecting these to the European Open Science Cloud (EOSC).

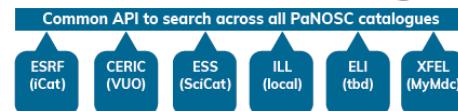
PaNOSC Developments

Common data API:	ALL partners
Jupyter notebooks:	ALL partners
Data Analysis Portal:	ALL partners
Software catalogue:	ALL partners
AAI:	ALL partners (with PaNs + GÉANT)
Data catalogues:	ICAT (ESRF), SciCat (ESS), MDC (EuXFEL, ILL), VUO (CERIC)
Data transfer + Computation:	ALL + STFC, Desy, CESNET
Simulation:	Simex (EuXFEL), OASYS (ESRF, CERIC), McStas (ESS, ILL)
E-logbook:	ICAT+ (ESRF, EuXFEL)
e-Training platform:	ESS, ELI, ESRF (with Hercules)
All the above are interoperable with EOSC. We are seeking collaboration and standards.	

EOSC + PaNOSC Clouds



Common APIs for 6 catalogues



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1. Image by Sonoya Pandit - https://commons.wikimedia.org/w/index.php?title=File:FAIR_data_principles.jpg (Creative Commons Attribution - Share Alike 4.0 International)

PaNOSC partners - ESFRI projects



ESFRI
European Strategy Forum on Research Infrastructures



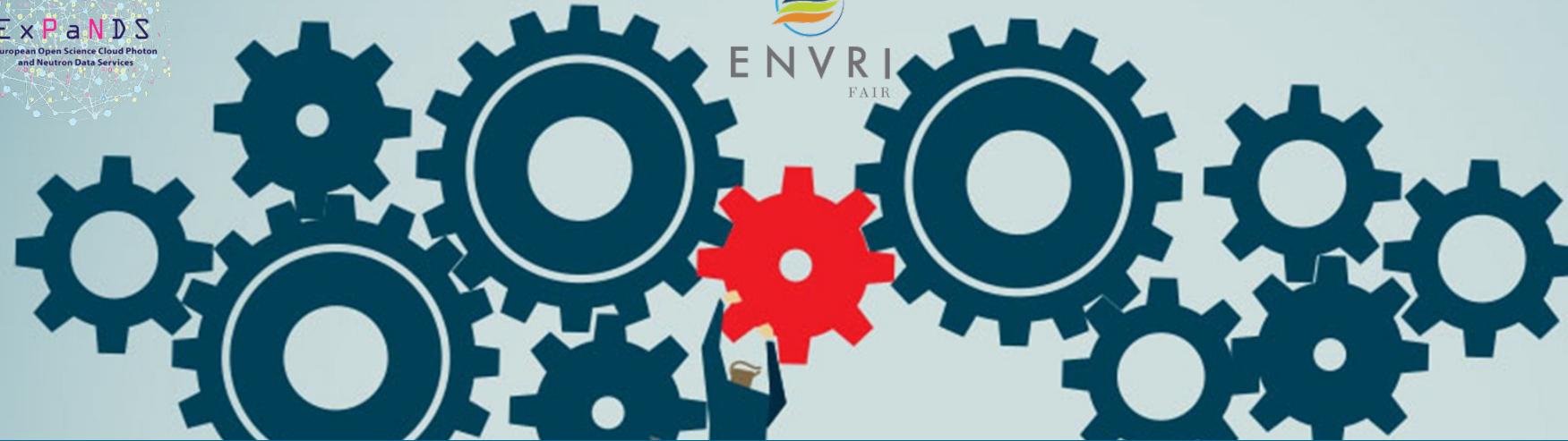
PaNOSC Objectives

- Participate in the construction of the EOSC
- Make scientific data from ESFRI Photon and Neutron sources fully compatible with FAIR principles
- Generalise the adoption of open data policies + standard metadata
- Provide innovative data services to the users via the EOSC
- Increase the impact of RIs by ensuring re-use of data
- Share outcomes with national RIs



<https://panosc.eu>

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Collaboration with other EOSC projects and clusters



PaNOSC / ExPaNDS Communication & Outreach

What joint actions?

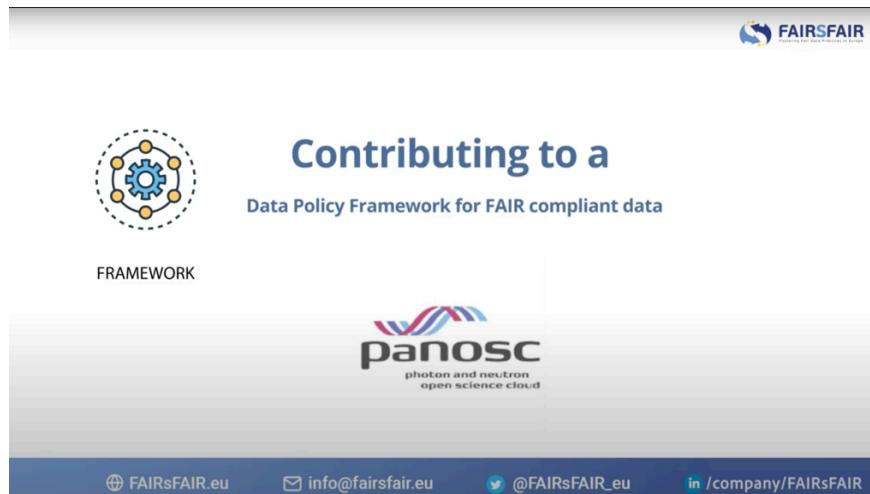
- Share of deliverables and useful resources for comms/outreach
- Common mailing list, with all comms/press officers from PaNOSC and ExPaNDS partners, to exchange news, info about events and projects' advancements, useful resources, etc.
- Use of a joint common events' calendar
- Mutual support on social media
- Mutual promotion of results, events and activities of both projects
- Joint use of the e-learning platform developed in PaNOSC WP8
- Joint planning of similar events (e.g., Jupyter workshops or similar)
- Joint attendance of user meetings to raise awareness about the projects and FAIR data benefits for research, collect users' feedback, and to involve and engage potential/future users of tools/technologies/services developed in the frame of the two projects.



Video productions of related projects

FAIRsFAIR video on the
Synchronization Force enhancing
collaboration between different EOSC
projects and initiatives

Full video: https://www.youtube.com/watch?v=7JwO_tXXqKc



ExPaNDS video series about PaNOSC, ExPaNDS and the benefits of open data for the PaN community:



Full video: <https://www.youtube.com/watch?v=f3HUzTabqus>



Full video: <https://www.youtube.com/watch?v=MflGW9Kk0YI>



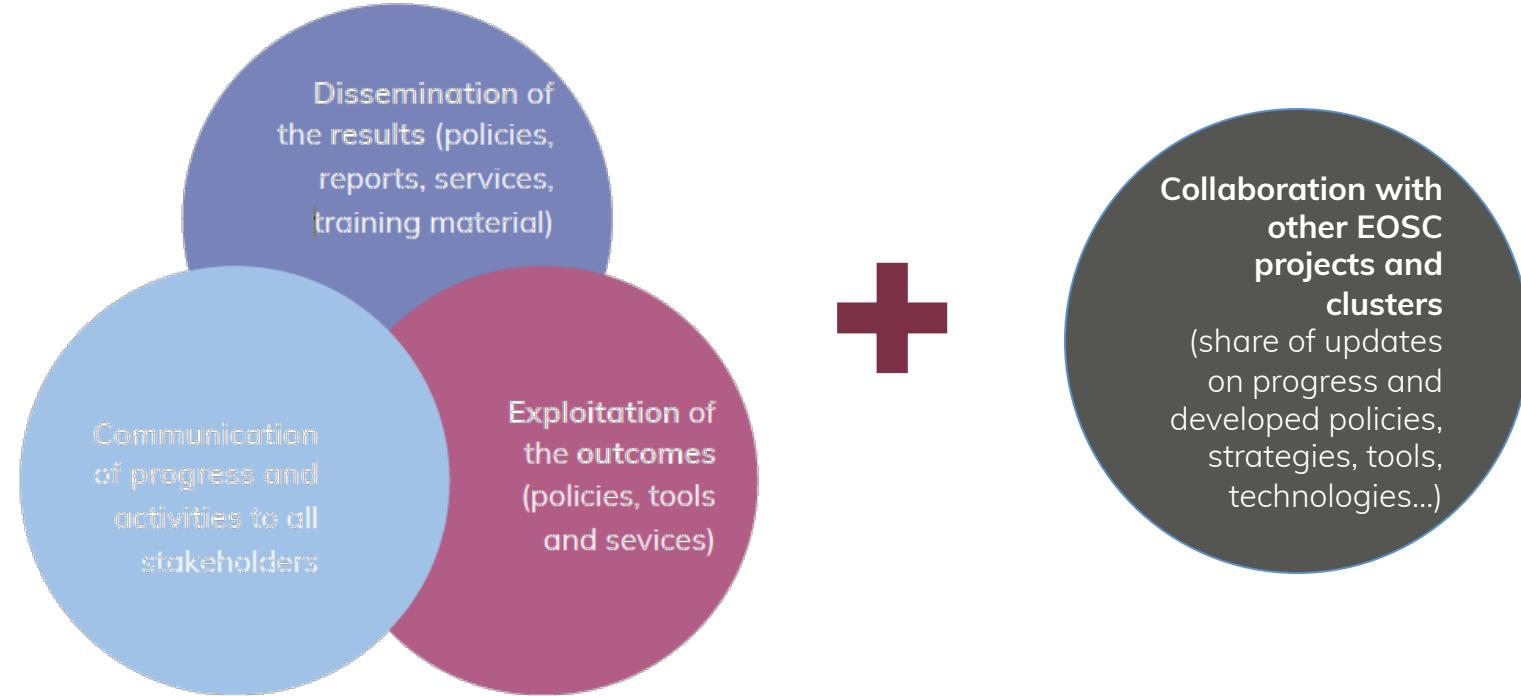
Other joint actions

- Regular meetings with **EOSC cluster projects** and **FAIRsFAIR** to:
 - Share knowledge and tools;
 - Identify common challenges and actions to better target the user communities;
 - Take part in joint events: in May 2020, a joint application was submitted for the “ICT 2020: Leading the digital age” exhibition (1-3 December 2020 – Cologne, Germany).
- Joint actions ongoing with **FILL2030 H2020 project** (involving also the H2020 ExPaNDS project, and the LEAPS and LENS initiatives):
 - Update and publication of a video on the use of data DOI, which target users and showcases the benefits given by DOIs assigned to the datasets of their experiments. Release expected by June 2020.
 - Contact scientific journals to advocate the addition of data DOIs to published papers.

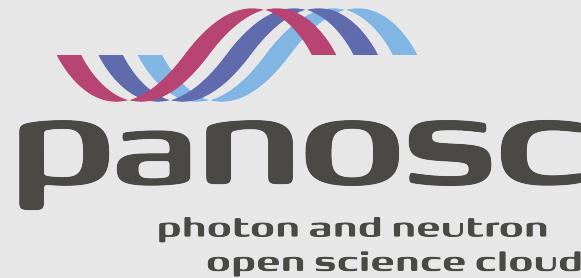
Internal communications

- Periodical video conferences w/ Project Management Committee and WP leaders
- Annual Meeting w/ Executive Board members, Project Management Committee, WP leaders & observers
- Storage on GitHub of policies, white papers, reports, minutes, templates, etc.
 - ◆ PaNOSC repository – <https://github.com/panosc-eu/panosc> on common issues and general info about the project
 - ◆ Issues (<https://github.com/panosc-eu/panosc/issues>), for discussion on all PaNOSC issues.
 - ◆ WP-related repositories (WP3, WP4, common API and FAIR data API).
- Google Drive and Docs for joint edition of working docs
- Use of a repository (**CERIC drive**) for the storage of confidential docs
- WPs' meetings organized by WP leaders
- Confluence and Slack for internal communications within technical WPs
- Mailing lists for different audiences:
 - executive@panosc.eu - Executive Board
 - management@panosc.eu - Project Management Committee members + Project coordinator + Project Manager + WP leaders
 - wp1@panosc.eu ... wp9@panosc.eu - WP specific lists
 - info@panosc.eu - for observers and stakeholders
 - contact@panosc.eu - for administrative issues

PaNOSC WP9 Goals & Deliverables



N.	Deliverable	Lead Partner	Type	Dissemination Level	Due date (month)
D.9.1	PaNOSC Communication and Dissemination Plan	CERIC	Report	Confidential	M7
D.9.2	PaNOSC website	CERIC	Website	Public	M6
D.9.3	PaNOSC repository for internal communications	CERIC	Online repository	Confidential	M3
D.9.4	Dissemination and outreach activities	CERIC	Websites, press & media actions, videos, etc.	Public	M48



Thank you for your attention

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