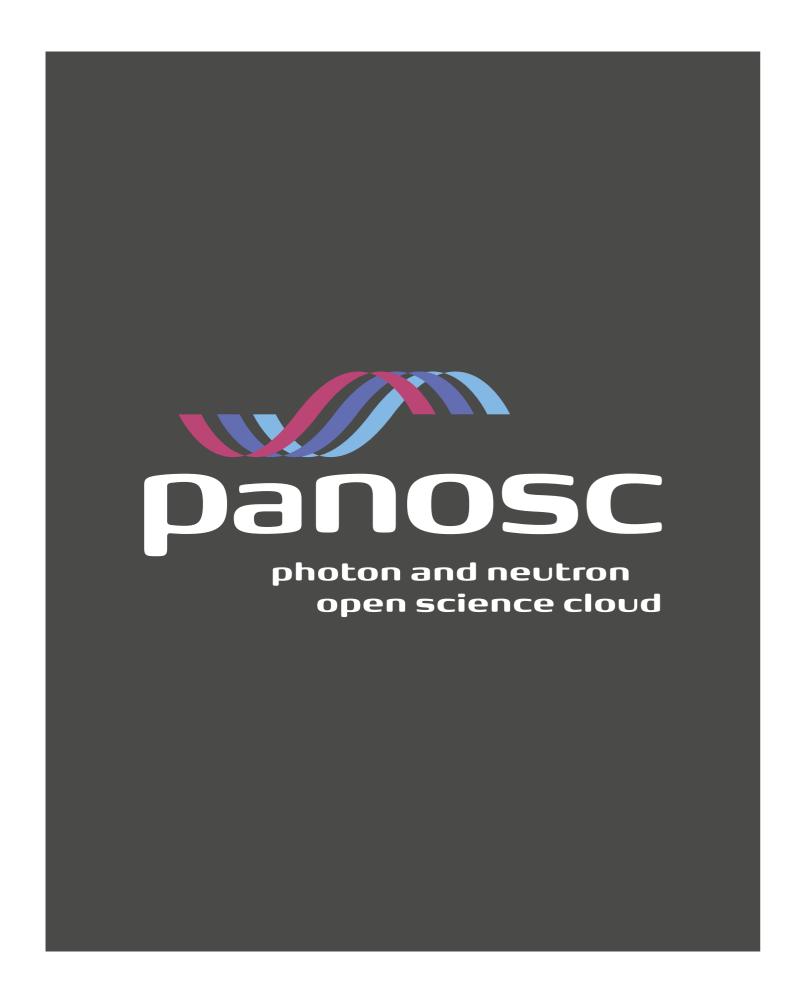
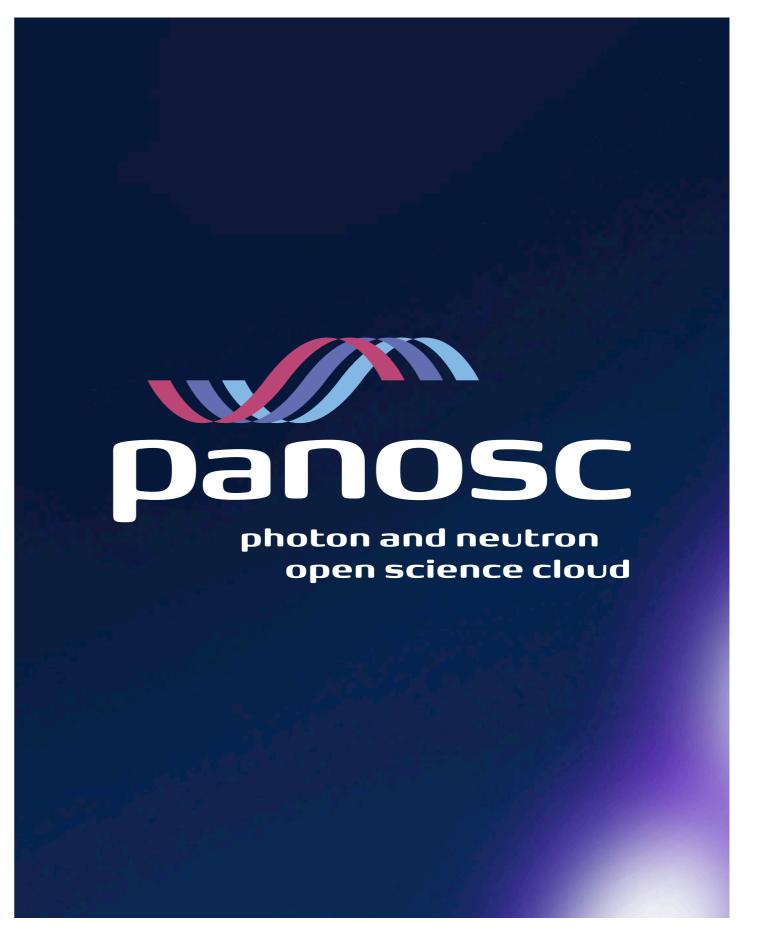


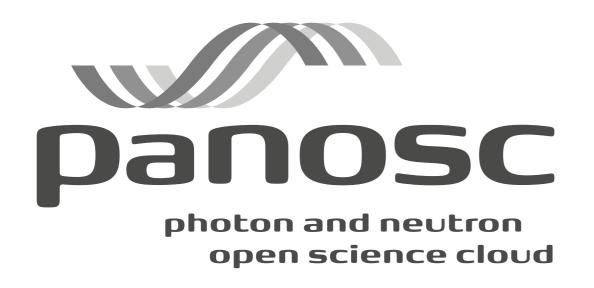


photon and neutron open science cloud



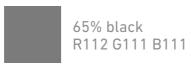
Negative trademark (symbol / logo / descriptor) on a dark background













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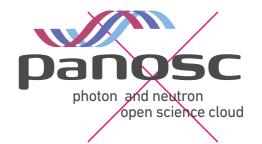


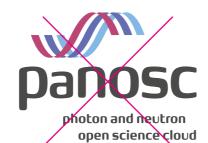






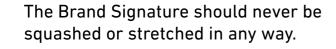




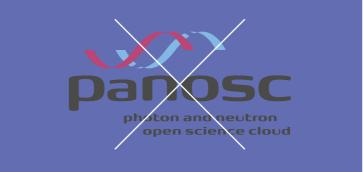




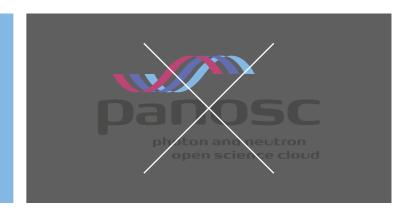


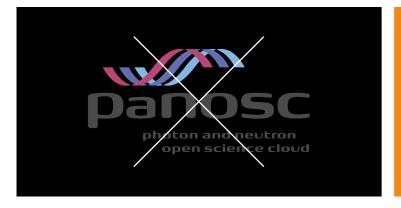




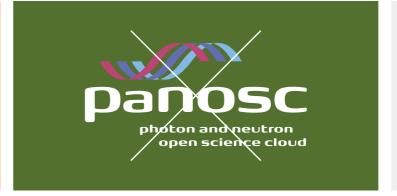


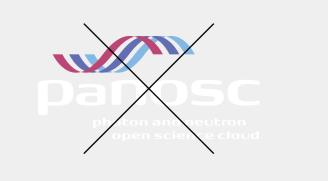






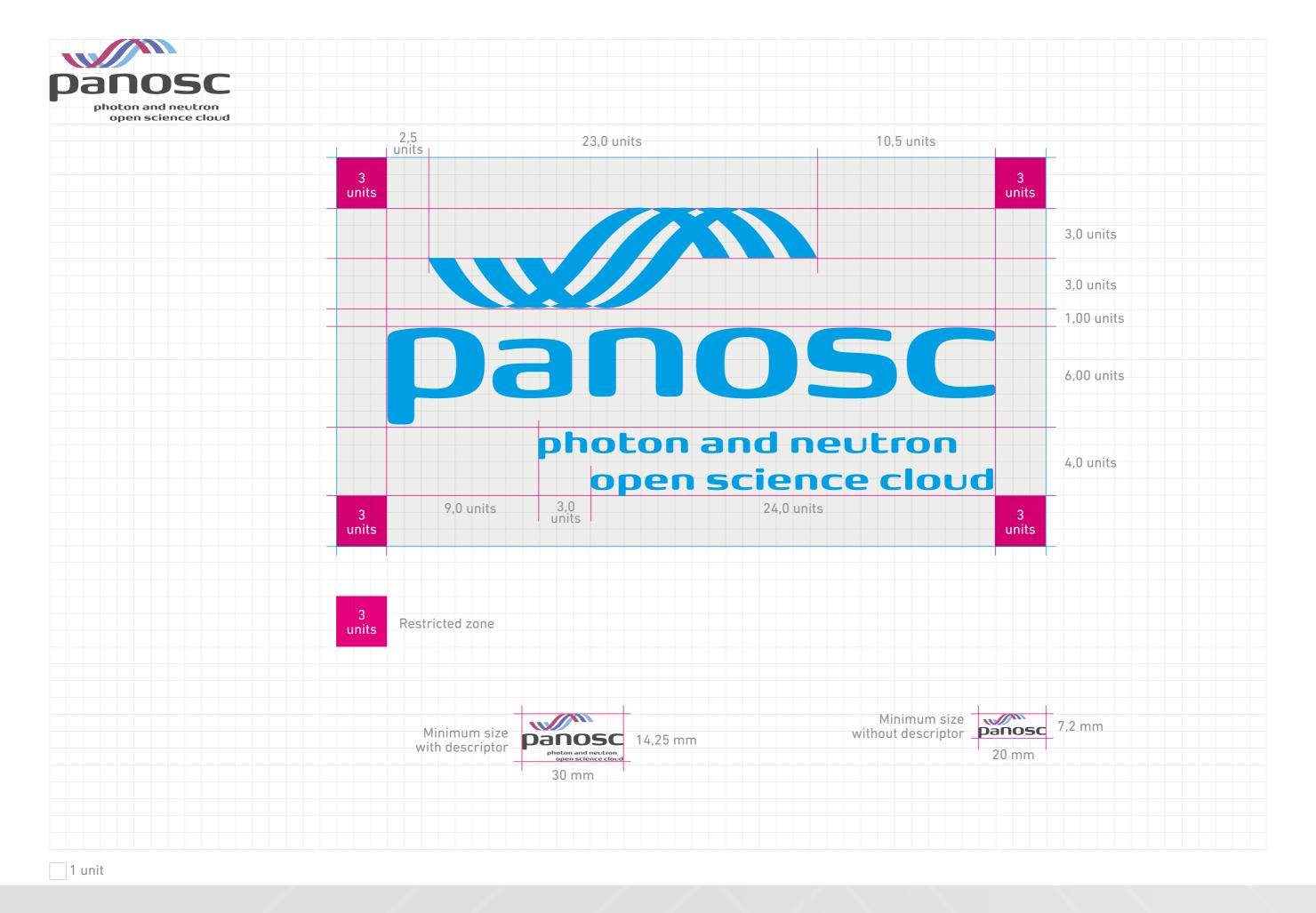






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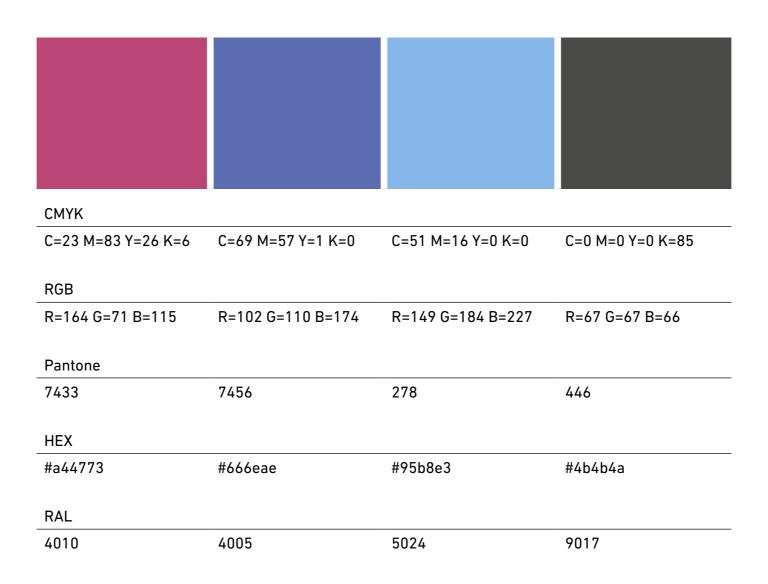
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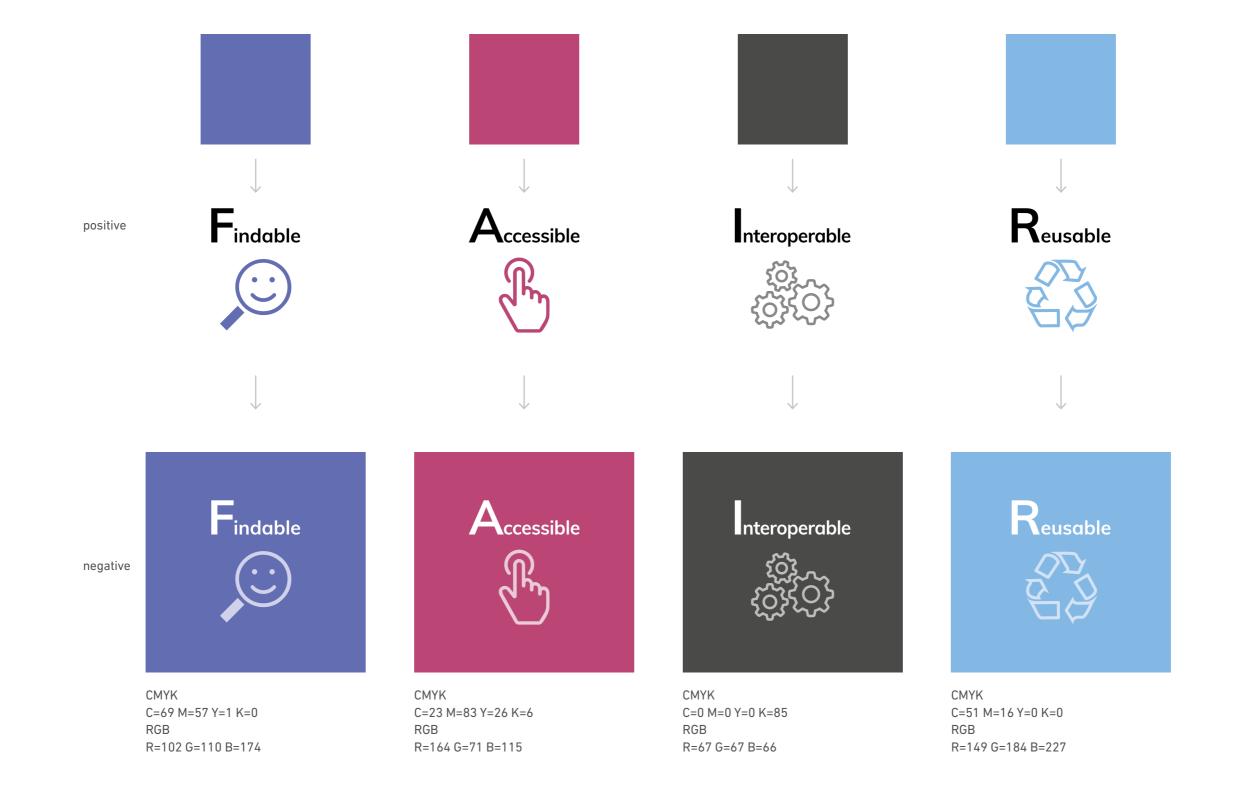








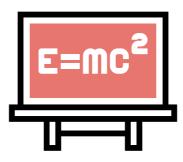








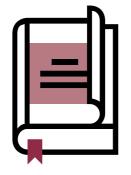
Data Catalog



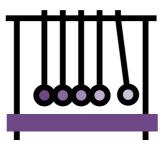
Data Storage



Data Analysis



Pan Software Catalogue

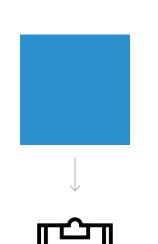


Data Analysis Simulation Data System

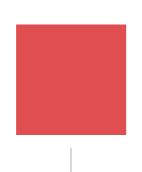


Help Desk









E=MC²







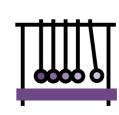
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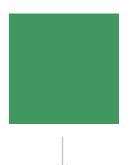


Pan Software Catalogue



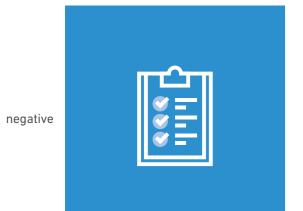


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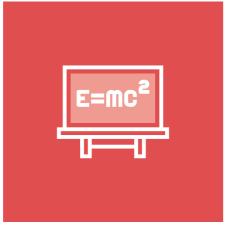


Help Desk



Data Catalog

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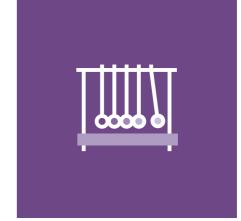
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CMYK C=60 M=75 Y=0 K=20 RGB R=101 G=73 B=132



CMYK C=70 M=0 Y=70 K=20 RGB R=99 G=151 B=100



MULI LIGHT



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Muli font is a minimalist Sans Serif. Muli is designed mainly for use as a display font but is useable as a text font too. Muli has been designed to be used freely across the internet by web browsers on desktop computers, laptops and mobile devices.

Complete typeface MULI (14 styles) is available for free. The fonts can be downloaded: https://fonts.google.com

Designer: Vernon Adams

Corporate typeface: Muli Font

11



"Wave" from the symbol



Header



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Footer

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Visual identity applications / Word template



Heading 1

Heading 2

Subhead

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Project Deliverable Information Sheet

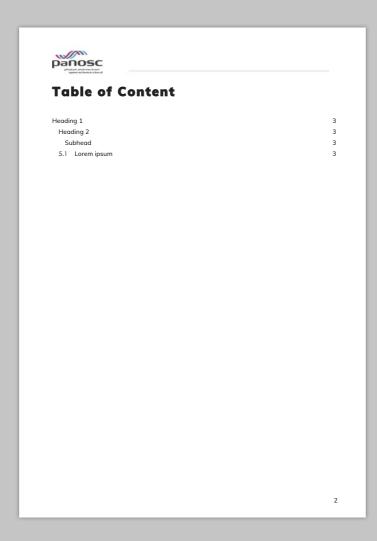
Project Reference No.	823852
Project acronym:	PaNOSC
Project full name:	Photon and Neutron Open Science Cloud
H2020 Call:	INFRAEOSC-04-2018
Project Coordinator	
Coordinating	ESRF
Organization:	
Project Website:	www.panosc.eu
Deliverable No:	
Deliverable Type:	
Dissemination Level	
Contractual Delivery Date:	
Actual Delivery Date:	
EC project Officer:	

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	Files:
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·	Contributors:
	Reviewed by:
	Approved:

List of participants

Participant No.	Participant organisation name	Country
1	European Synchrotron Radiation Facility (ESRF)	France
2	Institut Laue-Langevin (ILL)	France
3	European XFEL (XFEL.EU)	Germany
4	The European Spallation Source (ESS)	Sweden
5	Extreme Light Infrastructure Delivery Consortium (ELI-DC)	Belgium
6	Central European Research Infrastructure Consortium (CERIC-ERIC)	Italy
7	EGI Foundation (EGI.eu)	The Netherlands





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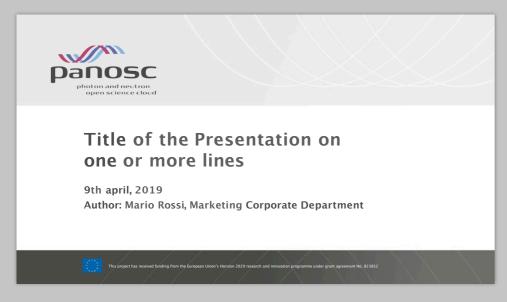
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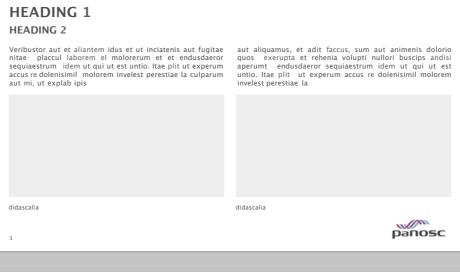
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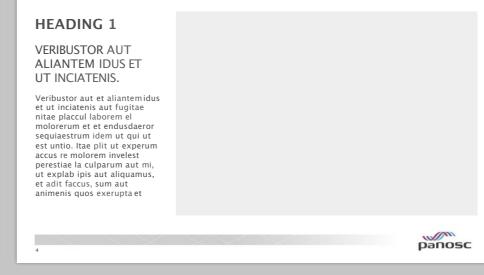
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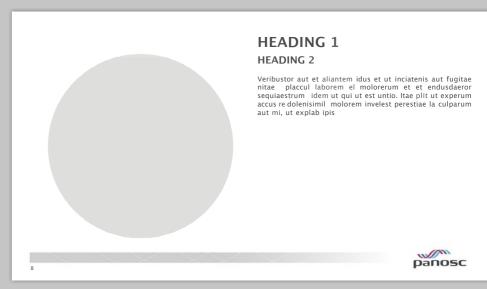




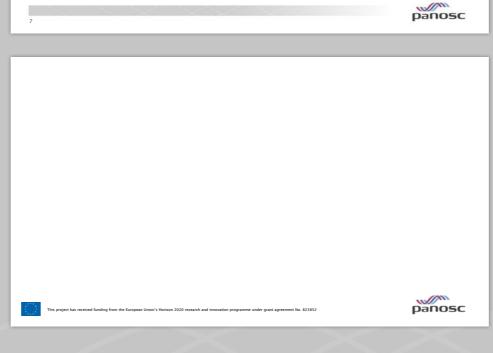














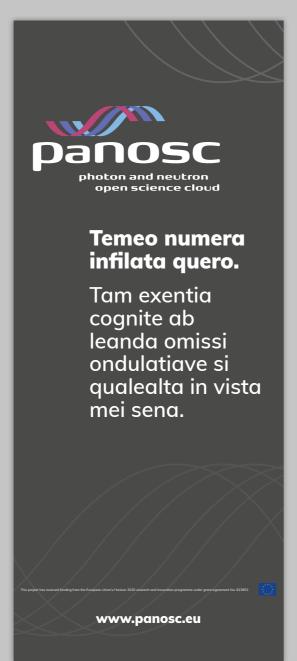




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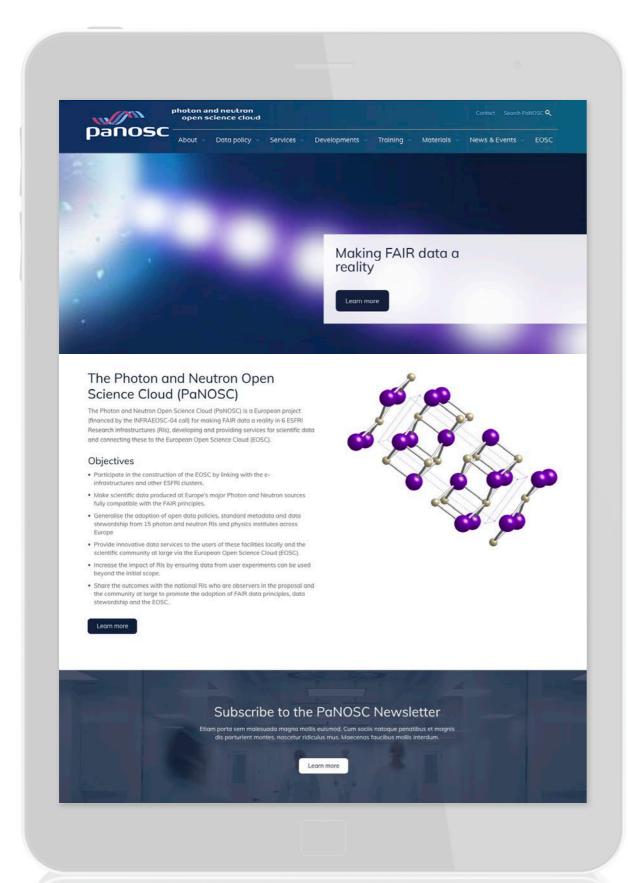




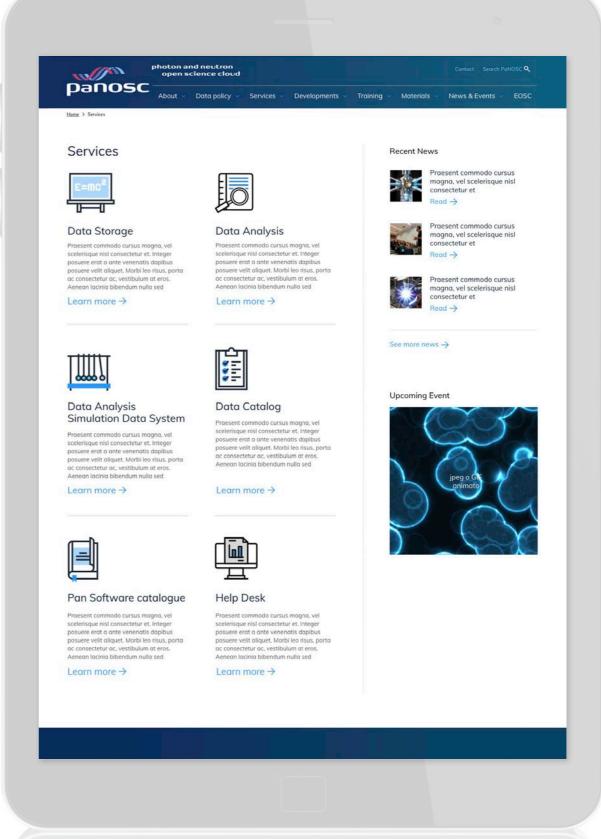




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Home page



Services

18

FAIR Principles

Findable



The first step in (re)using data is to find them. Metadata and data should be easy to find for both humans and computers. Machine-readable metadata are essential for automatic discovery of datasets and services, so this is an essential component of the FAIRification process.

Accessible



Once the user finds the required data, she/he needs to know how can they be accessed, possibly including authentication and authorisation.

nteroperable



The data usually need to be integrated with other data. In addition, the data need to interoperate with applications or workflows for analysis, storage, and processing.

Reusable



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 823852. The ultimate goal of FAIR is to optimise the reuse of data. To achieve this, metadata and data should be well-described so that they can be replicated and/or combined in different settings.









In 2016, the "FAIR Guiding Principles for scientific data management and stewardship" were published in Nature Scientific Data. The authors intended to provide guidelines to improve the findability, accessibility, interoperability, and reuse of digital assets. The principles emphasise machine-actionability (i.e., the capacity of computational systems to find, access, interoperate, and reuse data with none or minimal human intervention) because humans increasingly rely on computational support to deal with data as a result of the increase in volume, complexity, and creation speed of data.

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Leader WP8 – Staff and User Training

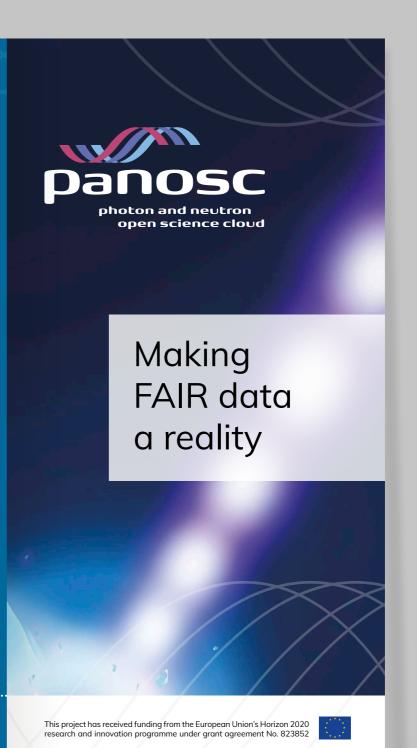
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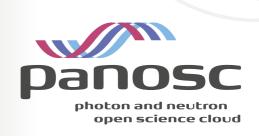
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Making FAIR data a reality

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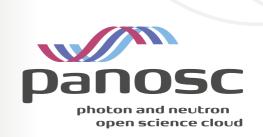
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Back 1 Cover 3

PaNOSC - photon and neutron open science cloud

About PaNOSC



Subhead

Analyse, use and re-use raw data from PaN facilities, using Jupyter notebooks based data analysis services. Get new scientific insights using technique specific notebook recipes with the advanced technology for remote and cloud access via a user-friendly interface.

Subsubhead

The PaNOSC project, Photon and Neutron Open Science Cloud, brings together six strategic European research infrastructures (ESRF, CERIC-ERIC, ELI Delivery Consortium, the European Spallation Source, European XFEL and the Institut Laue-Langevin – ILL, and the e-infrastructures EGI and GEANT, with the goal of contributing to the construction and development of the EOSC, an ecosystem allowing universal and cross-disciplinary open access to data through a single access point, for researchers in all scientific fields.

The mission is to contribute to the realization of a data commons for Neutron and Photon science, providing services and tools for data storage, analysis and simulation, for the many scientists from existing and future disciplines using data from photon and neutron sources. To achieve this aim, the exchange of know-how and experiences is crucial to driving a change in culture by embracing Open Science among the targeted scientific communities.

The main objectives of PaNOSC are:

- Participate in the construction of the EOSC by linking with the e-infrastructures and other ESFRI clusters.
- Make scientific data produced at Europe's major Photon and Neutron sources fully compatible with the FAIR principles.
- Generalise the adoption of open data policies, standard metadata and data stewardship from 15 photon and neutron RIs and physics institutes across Europe.
- Provide innovative data services to the users of these facilities locally and the scientific community at large via the European Open Science Cloud (EOSC).
- Increase the impact of RIs by ensuring data from user experiments are used beyond the initial scope.
- Share the outcomes with the national RIs who are observers in the proposal and the community at large to promote the adoption of FAIR data principles, data stewardship and the EOSC.

Services



Data Catalog

Search, find and access data from PaN sources across the federated, cross-disciplinary and cross-border data catalogues infrastructure. Get easy access to the broadest sets of data from the diverse catalogues of European photon and neutron facilities, through the PaNOSC data catalogues using the federated search engine compatible with OpenAIRE.



Data Analysis

Analyse, use and re-use raw data from PaN facilities, using Jupyter notebooks based data analysis services. Get new scientific insights using technique specific notebook recipes with the advanced technology for remote and cloud access via a user-friendly interface.



Pan Software Catalogue

Access the PaN software catalogue linked to the analysis and simulation software used in PaN facilities. Find documentation, links and complete examples of data sets and practical information about the scientific instruments used to collect them.

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Data Storage

Search, find and access data from PaN sources across the federated, cross-disciplinary and cross-border data catalogues infrastructure, and access scientific open data remotely.



Data Analysis Simulation Data System

Enter PaN cloud-based virtual facility and access the available simulation data services to rapidly prototype and execute (both experimental and simulation) data workflows from designing your beamline (using OASYS) to simulating the data to be produced to better plan your experiment and/or understand the results.



Help Desk

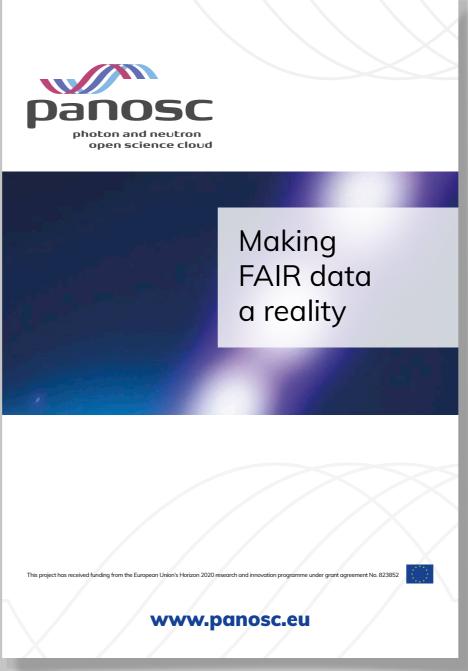
Contact us for any question or clarification about the services developed for the PaN user community.

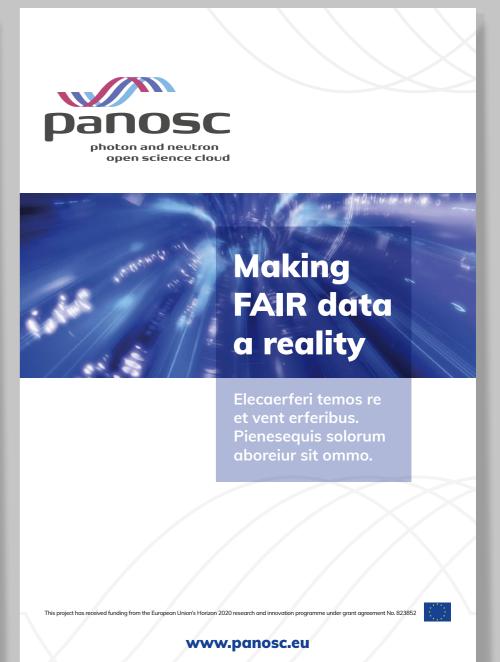
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Inside

PaNOSC - photon and neutron open science cloud Brand identity guidelines







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About PaNOSC

Subhead

Analyse, use and re-use raw data from PaN facilities, using Jupyter notebooks based data analysis services. Get new scientific insights using technique specific notebook recipes with the advanced technology for remote and cloud access via a user-friendly interface.

Subsubhead

The PaNOSC project, Photon and Neutron Open Science Cloud, brings together six strategic European research infrastructures (ESRF, CERIC-ERIC, ELI **Delivery Consortium**, the European Spallation Source, European XFEL and the Institut Laue-Langevin – ILL, and the e-infrastructures EGI and GEANT, with the goal of contributing to the construction and development of the EOSC, an ecosystem allowing universal and cross-

disciplinary open access to data through a single access point, for researchers in all scientific fields.

The mission is to contribute to the realization of a data commons for Neutron and Photon science, providing services and tools for data storage, analysis and simulation, for the many scientists from existing and future disciplines using data from photon and neutron sources. To achieve this aim, the exchange of know-how and experiences is crucial to driving a change in culture by embracing Open Science among the targeted scientific communities.

This is why the project works closely with the national photon and neutron sources in Europe to develop common policies, strategies and solutions in the area of FAIR data policy, data management and data services.



Services



Data Catalog

Search, find and access data from PaN sources across the federated, cross-disciplinary and cross-border data catalogues infrastructure. Get easy access to the broadest sets of data from the diverse catalogues of European photon and neutron facilities, through the PaNOSC data catalogues using the federated search engine compatible with OpenAIRE.



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About PaNOSC Services

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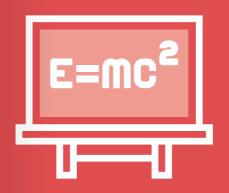
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Single Service - Data Analisys



Single Service - Data Analisys

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Data Analysis



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FAIR Principles

indable



The first step in (re) using data is to find them. Metadata and data should be easy to find for both humans and computers. Machinereadable metadata are essential for automatic discovery



Accessible

Once the user finds the required data. she/he needs to know how can they be accessed, possibly including authentication and authorisation.

nteroperable



The data usually need to be integrated with other data. In addition, the data need to interoperate with applications or workflows for analysis, storage, and processing.



This project has received funding from the Furopean Union's Horizon 2020 research and innovation programme under grant agreement No 823852. The ultimate goal of FAIR is to optimise the reuse of data. To achieve this, metadata and data should be welldescribed so that they can be replicated and/or combined in different settings.



of datasets and

services, so this is an

essential component

of the FAIRification







In 2016, the "FAIR Guiding Principles for scientific data management and stewardship" were published in Nature Scientific Data. The authors intended to provide guidelines to improve the findability, accessibility, interoperability, and reuse of digital assets. The principles emphasise machine-actionability (i.e., the capacity of computational systems to find, access, interoperate, and reuse data with none or minimal human intervention) because humans increasingly rely on computational support to deal with data as a result of the increase in volume, complexity, and creation speed of data.

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Single Service - Data Analisys

FAIR Principles

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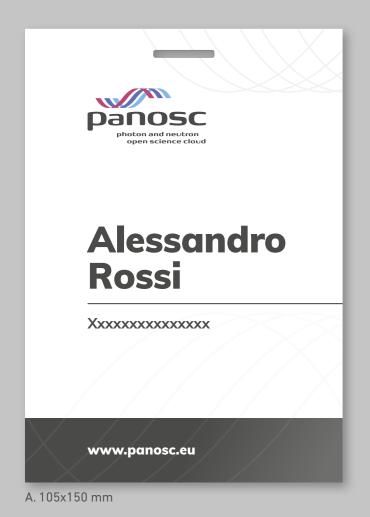
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Brand identity guidelines

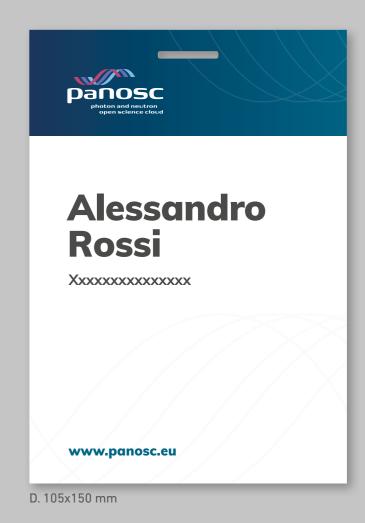












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