

A **WEALTH** OF DATA

can be **750 TB** for a single experiment in 5 days

0010100  
100101

Instruments generate **petabytes** of data each year

100110  
011100

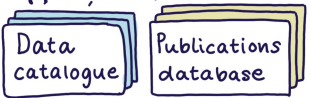
+ ENABLE EOSC SERVICES TO THE SCIENTIFIC USERS OF PHOTON AND NEUTRON FACILITIES

USE *cases* CHEMISTRY, MEDICINE, CULTURAL HERITAGE

taxonomy

MEANINGFUL SEARCHING AND FULL LINK BETWEEN PUBLISHED PAPERS AND DATA SETS

EOSC



author  
DOI  
facility  
standard meta data

instrument



National photon research institute (RI)



National neutron research institute (RI)

Making the **data**

**FAIR**

FINDABLE  
ACCESSIBLE  
INTEROPERABLE  
REUSABLE

To be **explored** and exploited by scientists and the public

accelerating new advances

Over **20400** unique **photon** related **publications** for **2014-18**

From all fields of **scientific** research



Increasingly **difficult** to get access to all **valuable** information

# ExPaNDs

European Open Science Cloud **Photon** and **Neutron** Data Services

FOR NATIONAL PHOTON AND NEUTRON RESEARCH INSTITUTES

Neutron and lightsources across **Europe** coming **together** to change how data is stored and curated

Working together with **PANOSC**

THEY LEAD THE SAME ENDEAVOUR FOR EUROPEAN RESEARCH INSTITUTES (RIS)

for standard **metadata** and standardised **interaction** with **data** across facilities

We propose to make the data accessible through the

**EOSC platform**

EUROPEAN OPEN SCIENCE CLOUD

TWITTER: @ExPaNDs\_EU

WEB: expands.eu

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