



DATA INFRASTRUCTURE CAPACITY FOR EOSC

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The DICE project has received funding from the European Union's Horizon 2020 project call H2020-INFRAEOSC-2018-2020 under Grant Agreement no. 101017207

Summary



Consortium: 24 Partners
Coordinator: CINECA



Grant Agreement: 101017207
Call: INFRAEOSC-07-2020



30 months
(1 Jan 2021 – 30 Jun 2023)



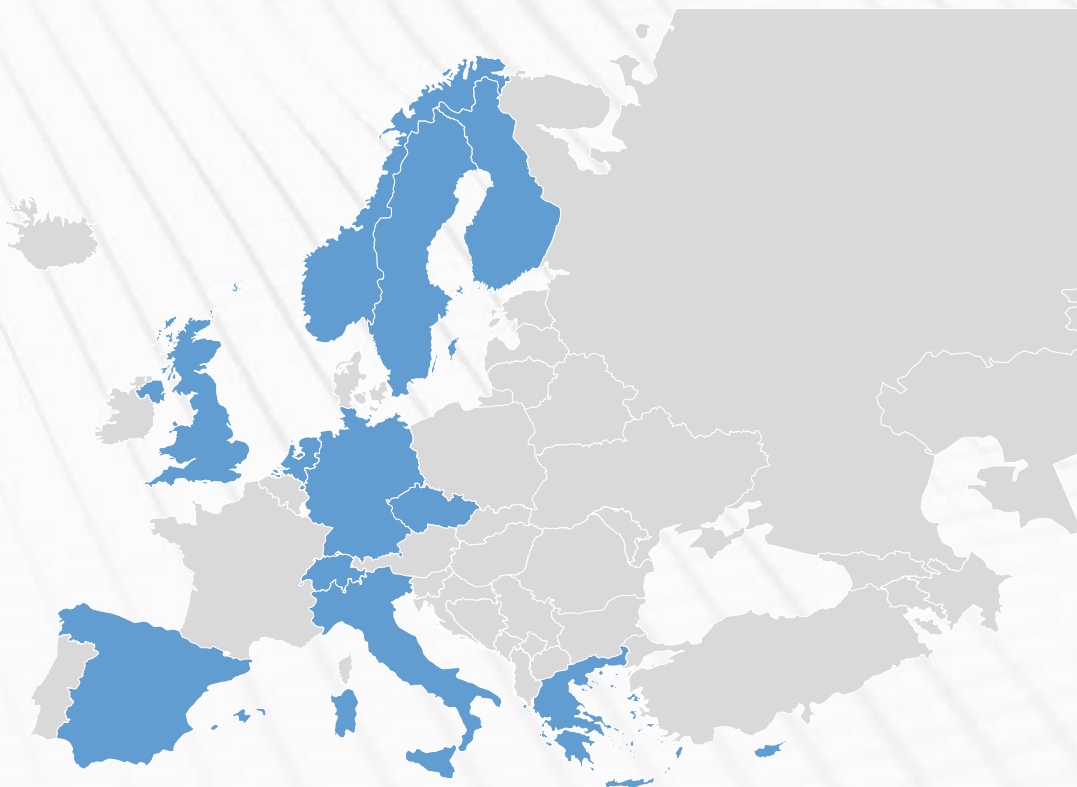
**Enable a European storage
and data management infrastructure for EOSC**
**Provide generic services to store, find, access,
and process data in a consistent and persistent way**



Budget: € 6.997.706,66



**18 providers from 11 European countries are offering
14 state-of-the-art data management services
together with more than 50 PB of storage capacity**



Service providers

CINECA

JÜLICH
Forschungszentrum

CSC

BSC
Barcelona
Supercomputing
Center
Centro Nacional de Supercomputación

MPCDF MAX PLANCK
COMPUTING &
DATA FACILITY

grnet

KIT
Karlsruhe Institute of Technology

DKRZ
DEUTSCHES
KLIMARECHENZENTRUM

ETH zürich
CSCS
Centro Svizzero di Calcolo Scientifico
Swiss National Supercomputing Centre

SURF

INFN
Istituto Nazionale di Fisica Nucleare

KNAW

DataCite
FIND, ACCESS, AND REUSE DATA

SNIC

**THE CYPRUS
INSTITUTE**
RESEARCH • TECHNOLOGY • INNOVATION

GWDG
Gesellschaft für wissenschaftliche
Datenverarbeitung mbH Göttingen

**VŠB TECHNICKÁ
UNIVERZITA
OSTRAVA** | IT4INNOVATIONS
NÁRODNÍ SUPERPOČÍTAČOVÉ
CENTRUM

cesnet

UNINETT

figma2



Users'
communities

ASTRON

ICOS | Carbon
Portal

UCL

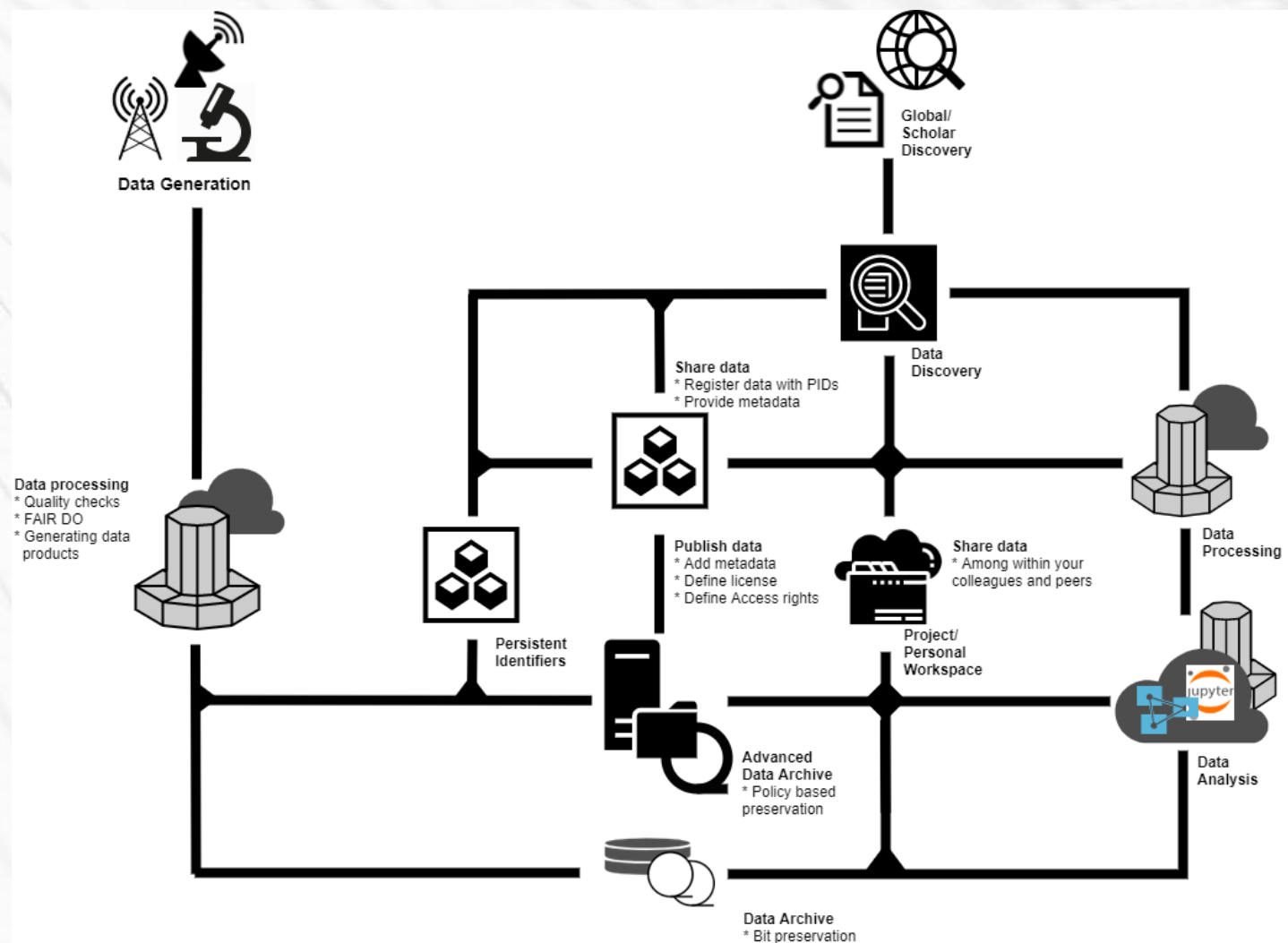


Outreach &
sustainability

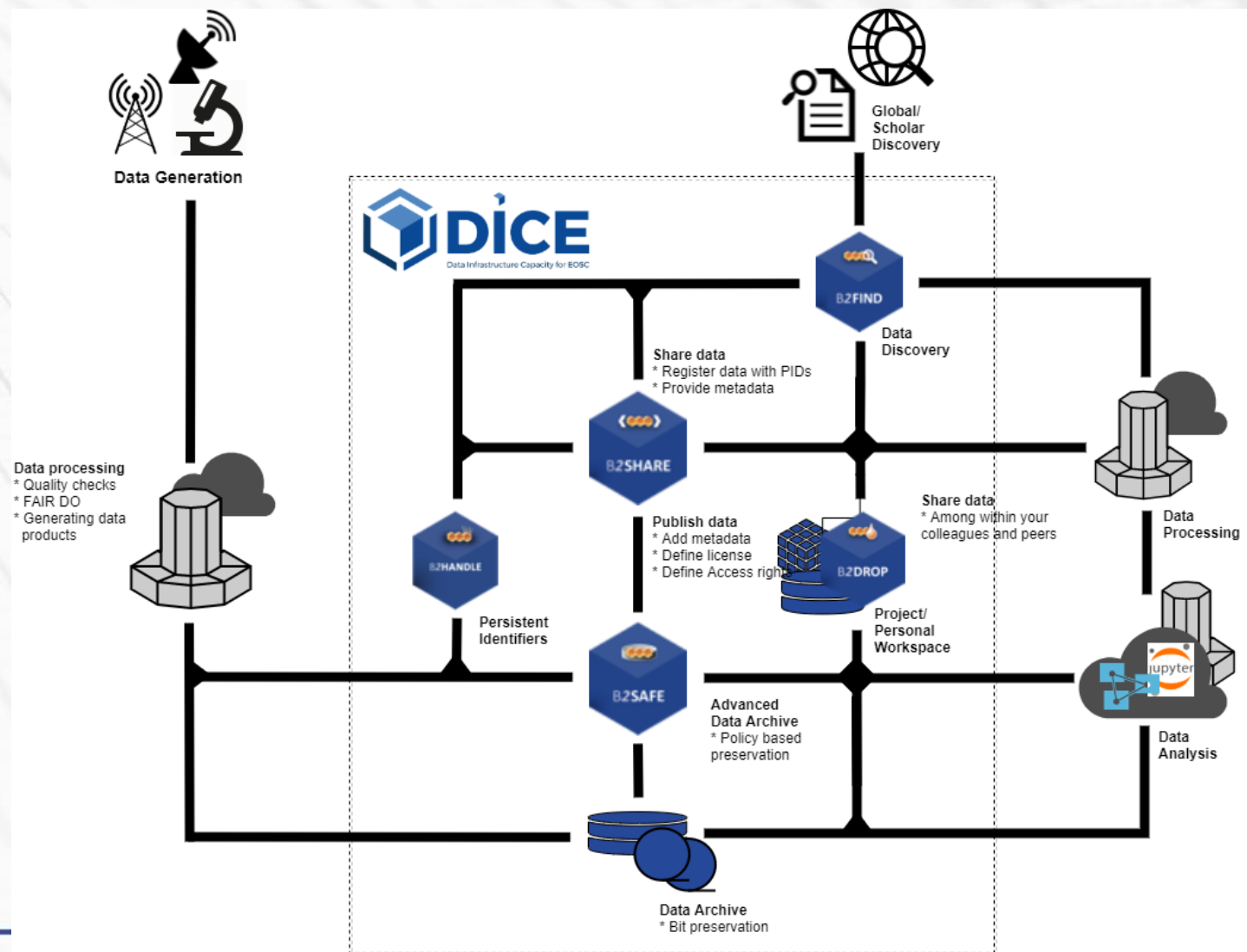
Trust-IT Services
Communicating ICT to markets

EUDAT
LTD

Research data workflow



Research data workflow - DICE



DICE offering



Data Discovery

Making research data findable
Data source harvestable and to make data widely discoverable



Data Repository

Long-term data resources preservation and sharing
To store non-active FAIR data



Policies based Data Archive

Mid-long term data resources, accessible from computing facilities to store non-active research data
Value-added services (integrity checks, replications, ..) for long-term, stable data archives.



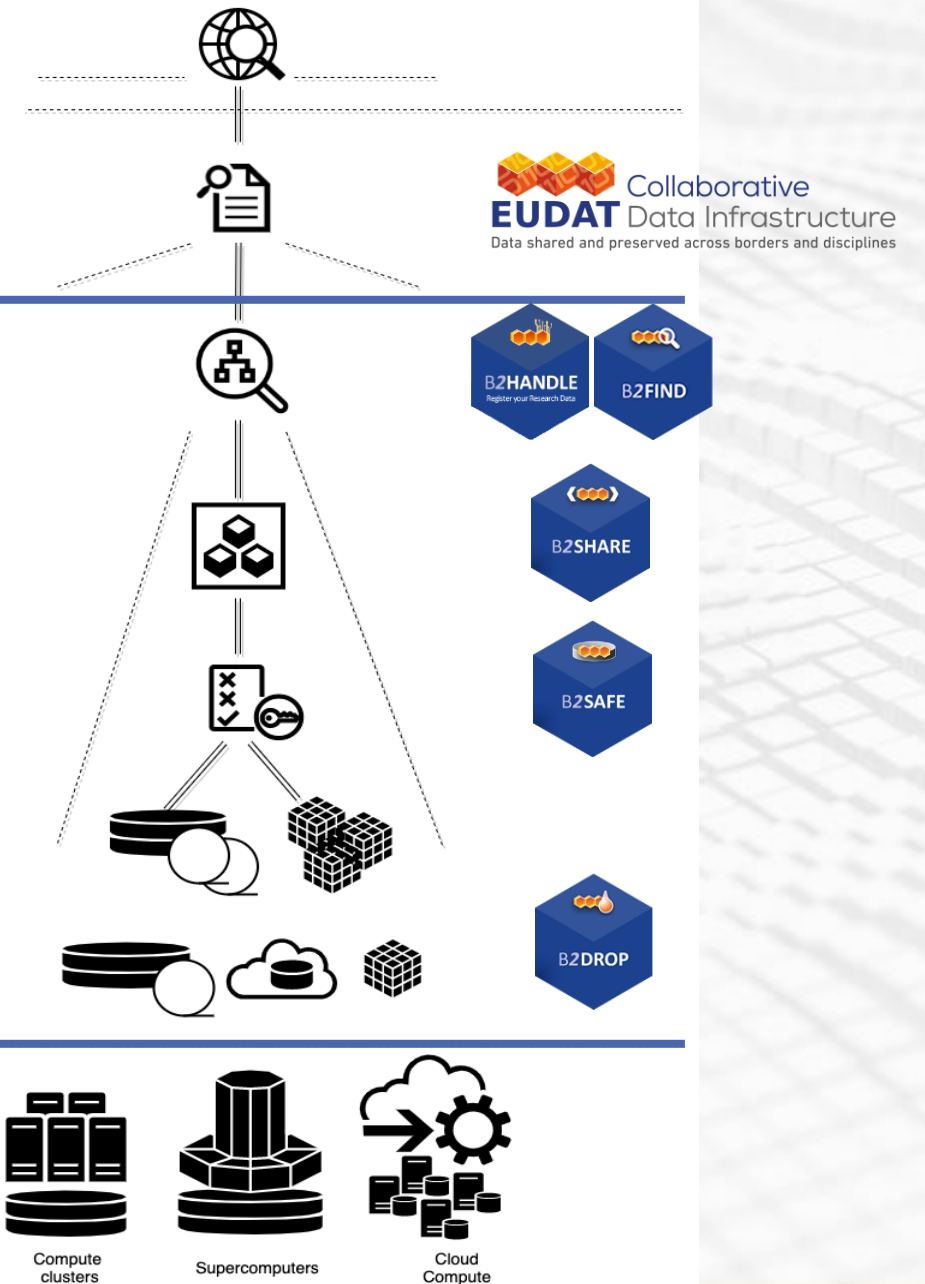
Data Archive

Mid term storage resources after/between projects,
Accessible from computing facilities to store non-active research data, bitwise preservation



Personal and/or Project workspace

Mid-term storage during project,
Good connection to computing facilities,
To store active resource data



DICE offering

	Total capacity offered
Data discovery	75 prefixes > 50 organisations
Data repository	7'900 TB
Policy based Data Archive	17'450 TB
Data archive	25'350 TB
Personal/project workspace	5'150 TB

Resources are offered free at the point of use until June 2023

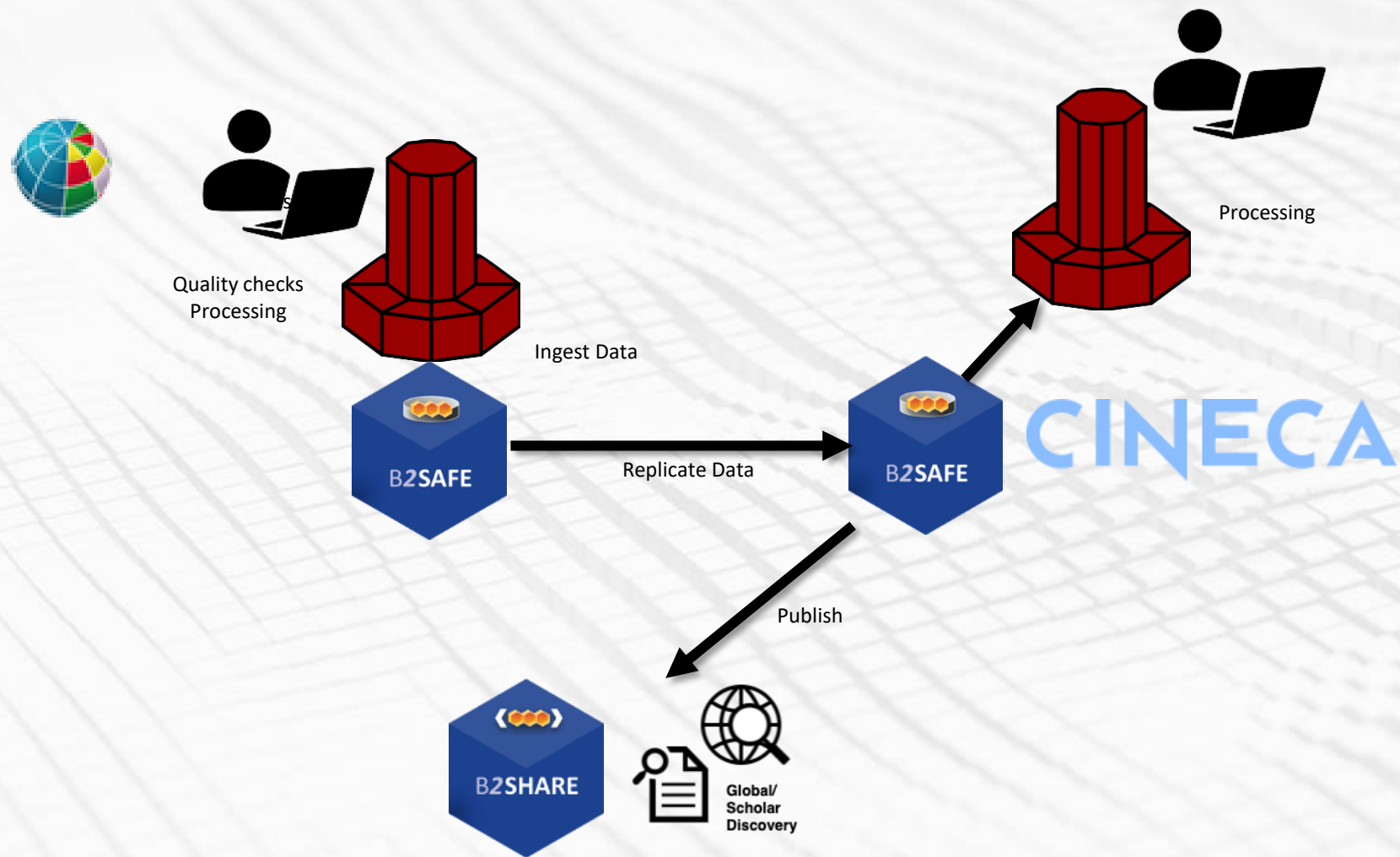
▣ In DICE CINECA offers:

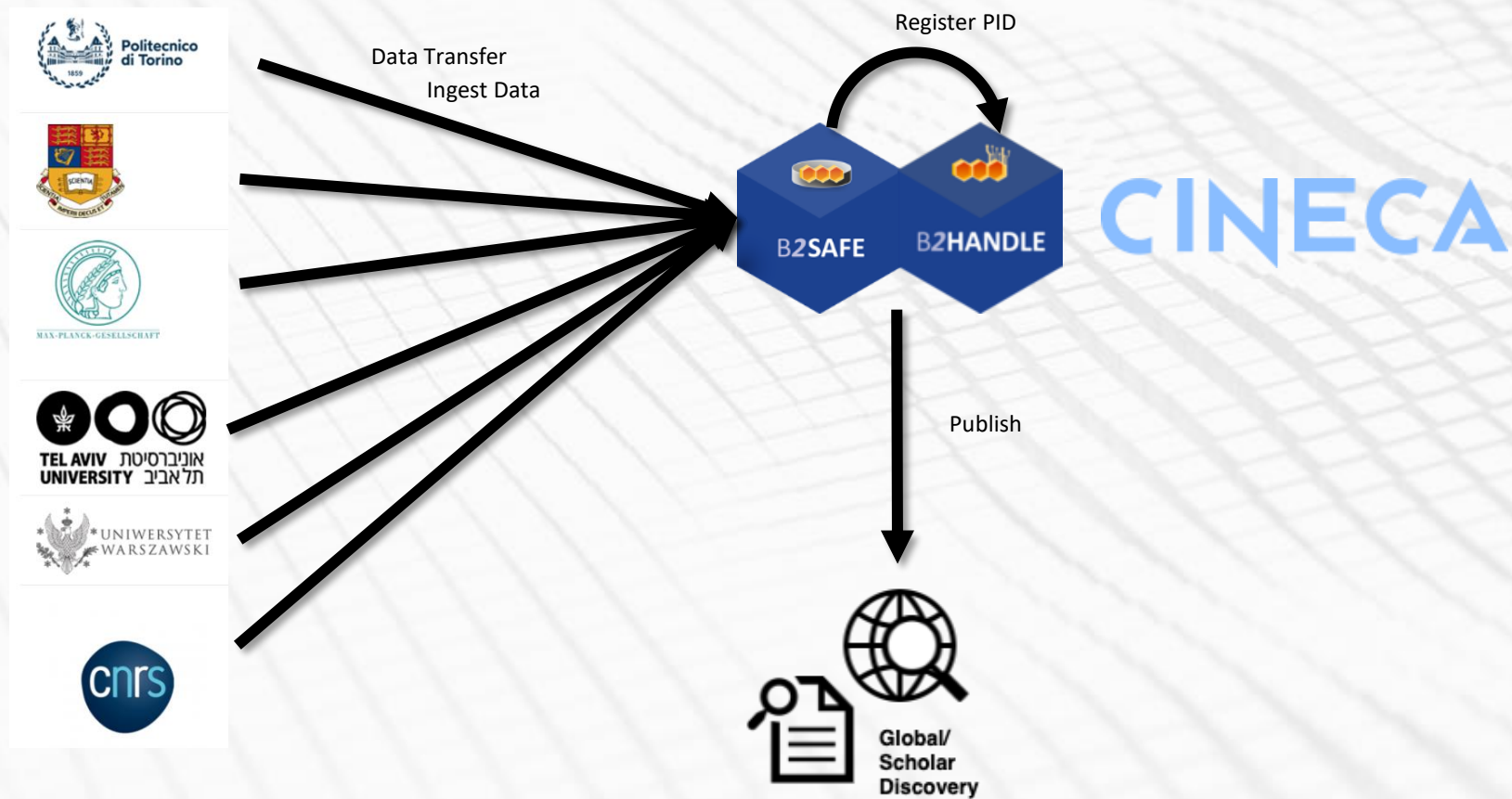
▣ B2SAFE:

- ▣ iRods based storage
- ▣ It allows to define dedicated policies like replication and to assign PIDs to data

▣ File system storage

▣ These services can be used by themselves or in combination with other DICE services and providers







Thank you!

JOIN OUR COMMUNITY



DICEosc



/company/diceosc

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