CERN

Increasing interoperability for research clouds

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CERN IT-ST

4th November, CHEP 2019, Adelaide

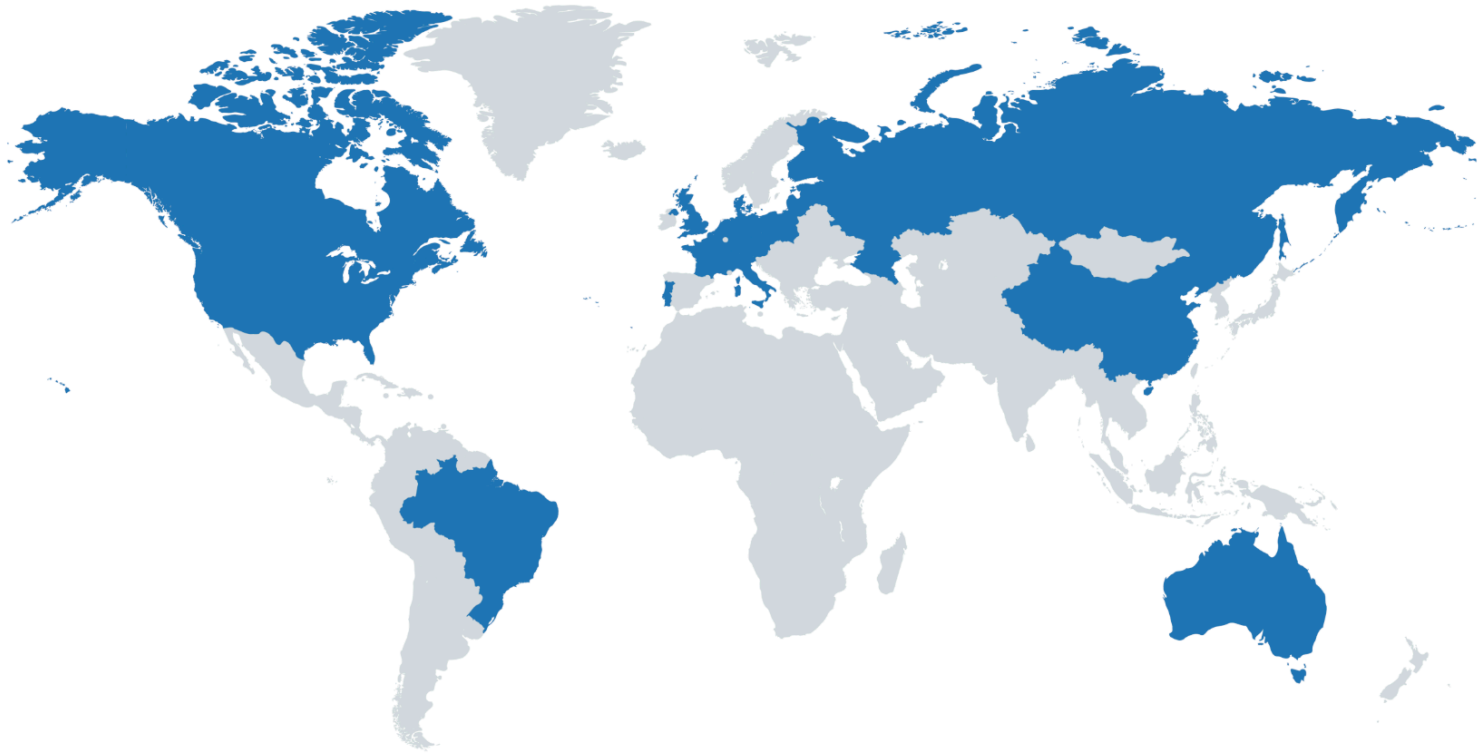
Cloud Services for Sync and Share

CS3

70 institutions

25 countries

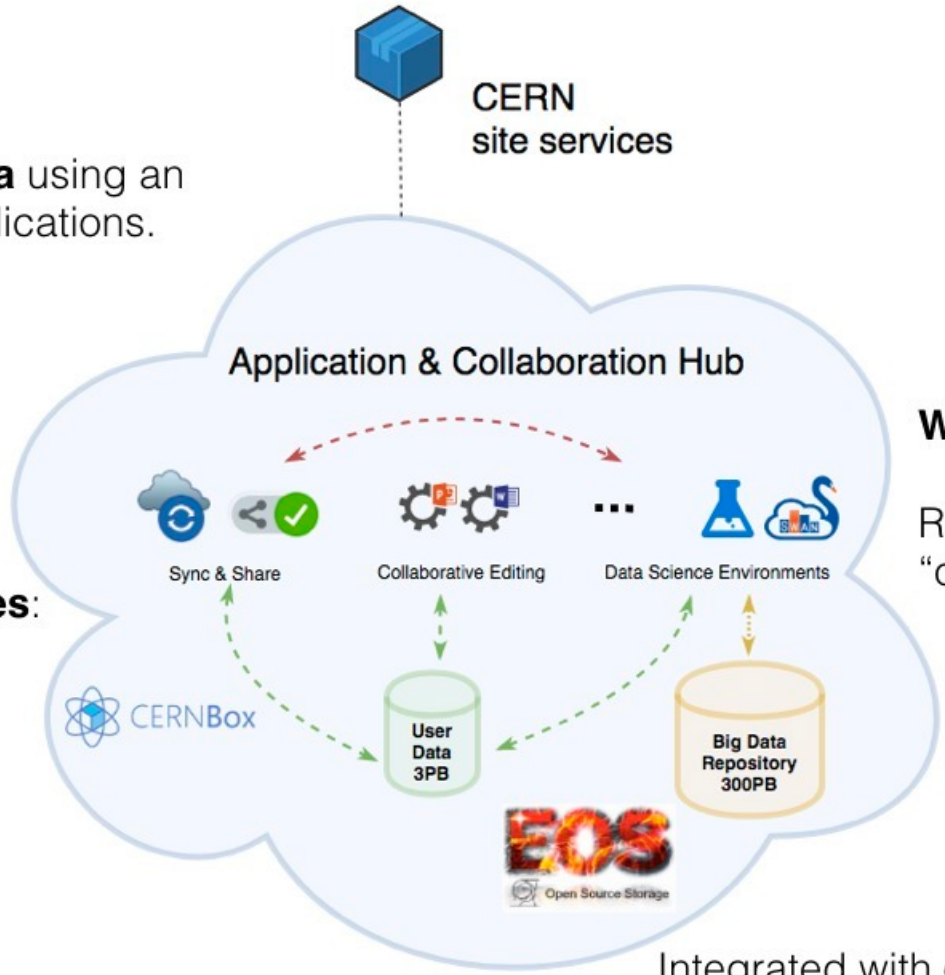
Participation from 2018



+400 K
USERS

+11 PB
DATA

Integrated Service for Data Science



Users **collaborate on data** using an increasing number of applications.

Concurrent editing

Web-based Analysis

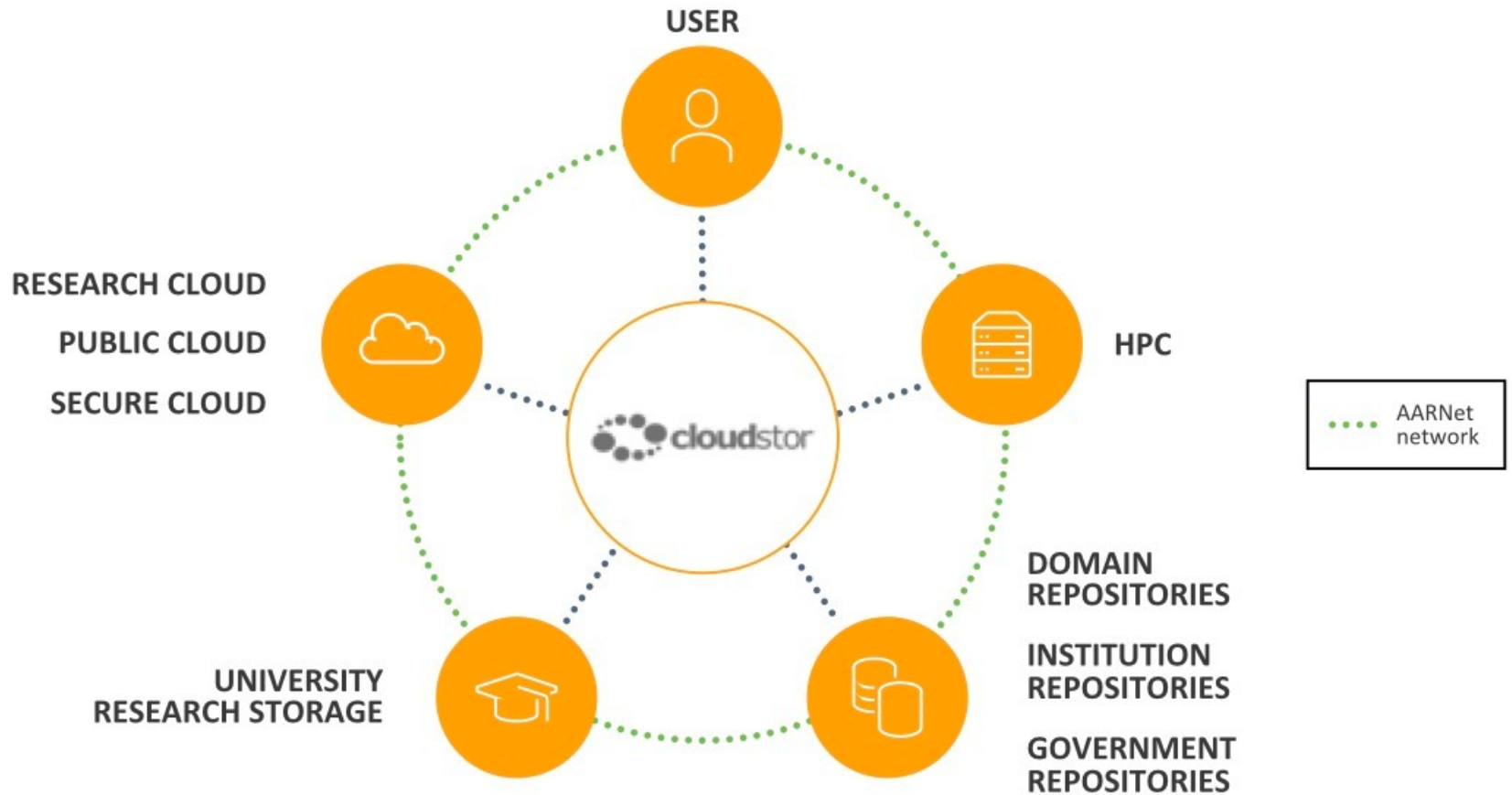
Ready-to-go environmen
"one click away"

Data available on **all devices**:
mobile, laptops, desktops

Data easily **sharable** with individuals and groups

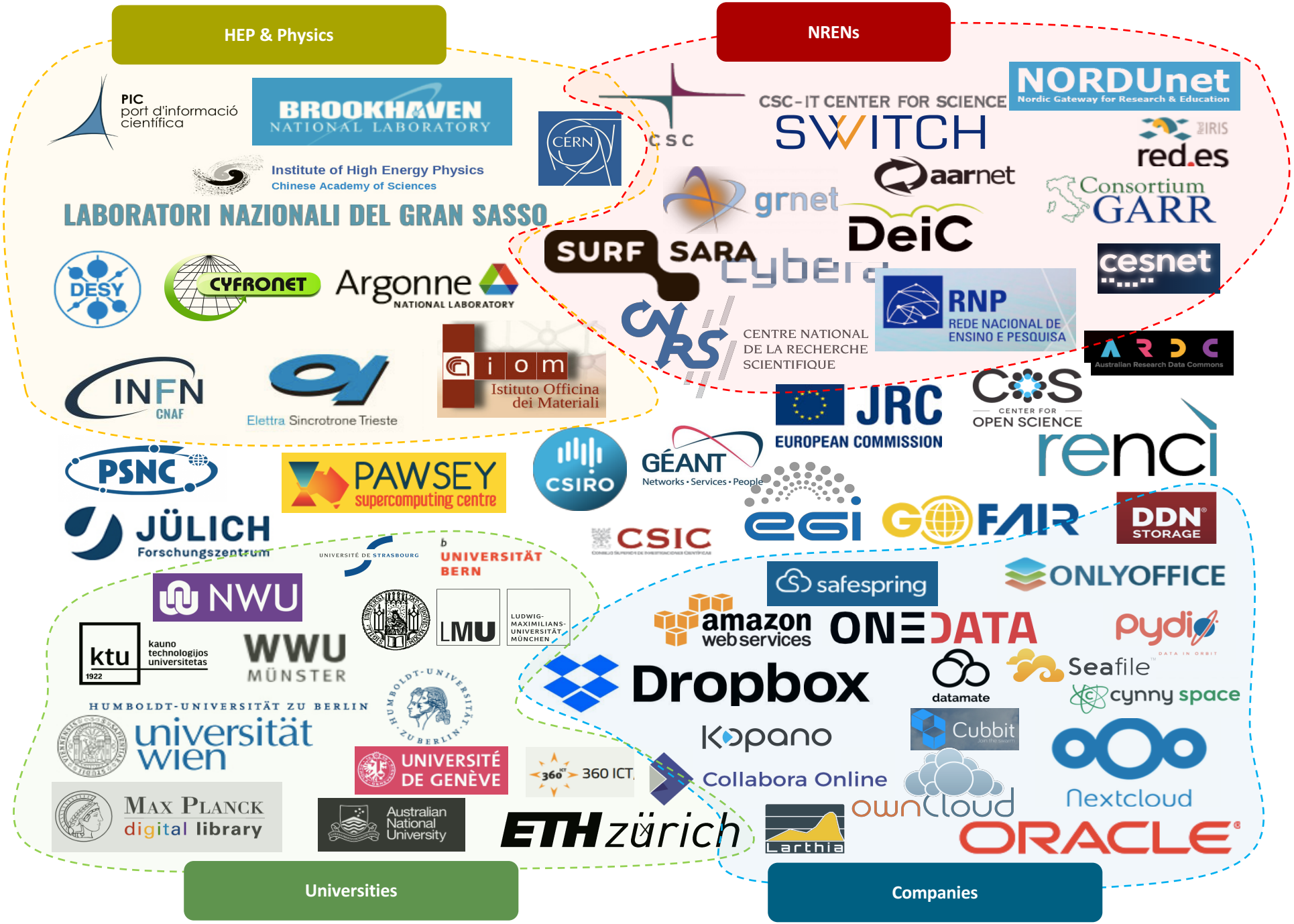
Integrated with **entire data repository**

CLOUDSTOR IS A RESEARCH DATA AND APPLICATION INTEGRATOR



aarnet
Australia's Academic and Research Network

Courtesy of G.Kennedy (AARNet)


HEP & Physics
NRENs
PIC
port d'informació científica
BROOKHAVEN
NATIONAL LABORATORY
CERN
Institute of High Energy Physics
Chinese Academy of Sciences
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DESY
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iom
Istituto Officina dei Materiali
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SWITCH
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CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
ARDC
Australian Research Data Commons
JRC
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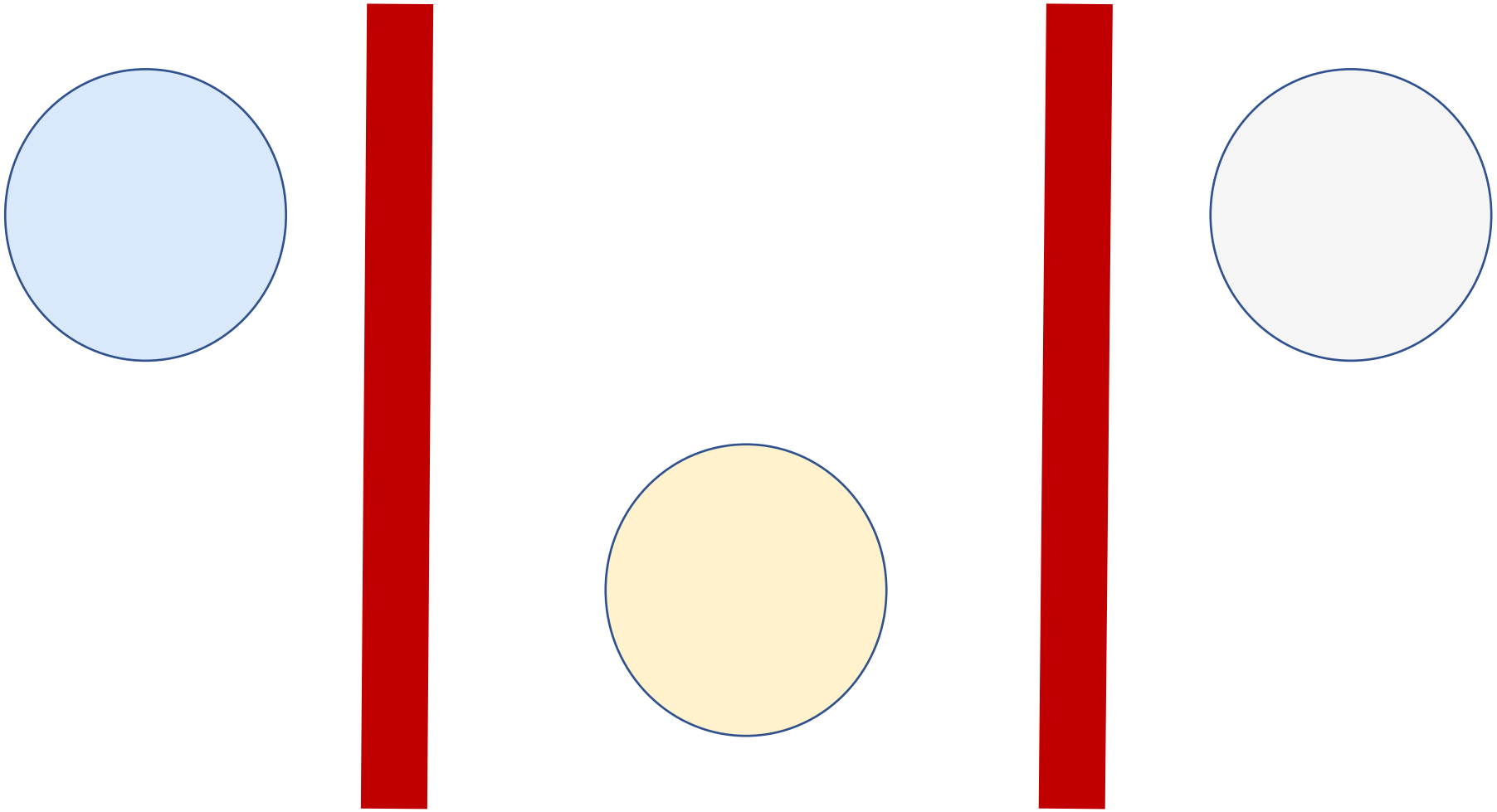
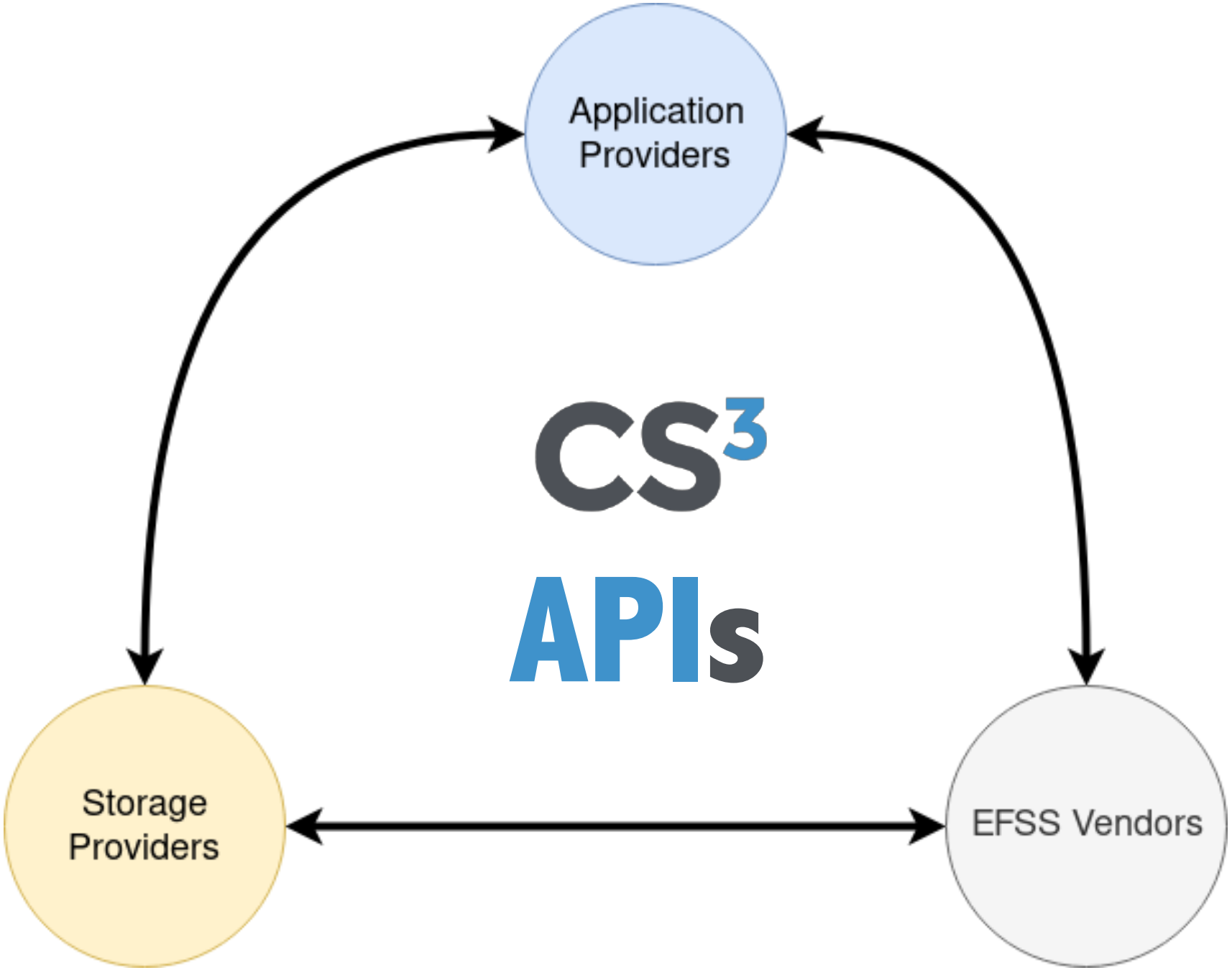
Universities
Companies

Fragmentation



What is the challenge?


Application Providers
CS3
APIs
Storage Providers
EFSS Vendors

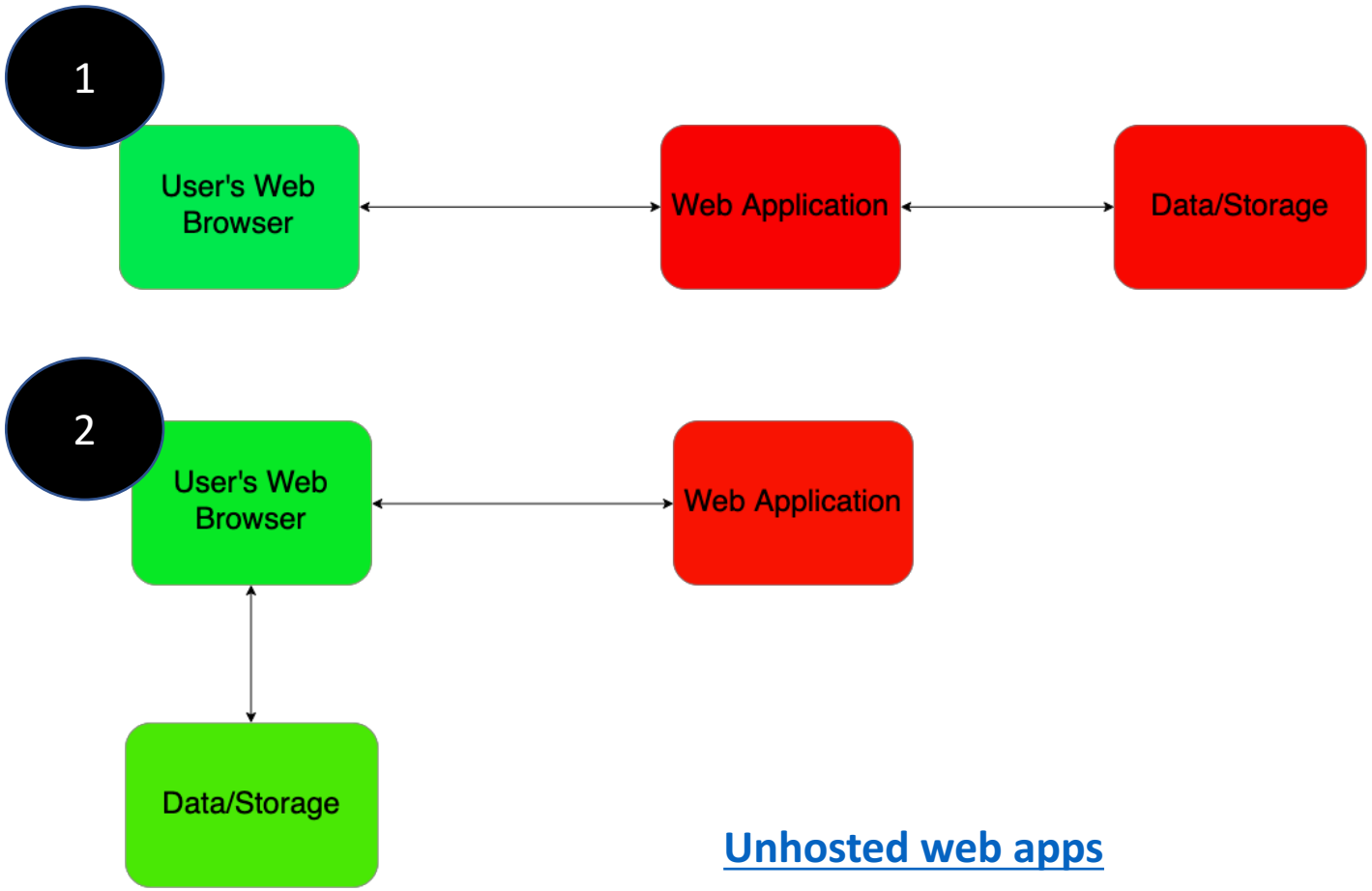
CS3APIs: Key technology

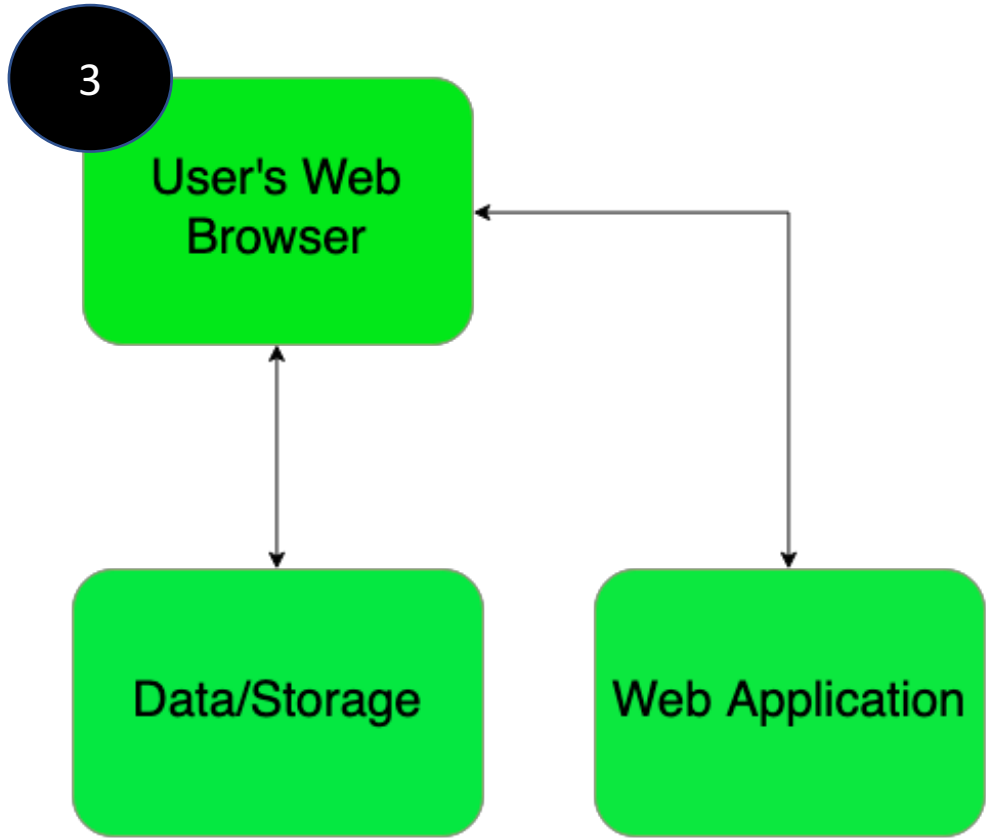
EUROPEAN OPEN SCIENCE CLOUD

[Open Data Science Mesh: friction-free collaboration for researchers bridging High-Energy Physics and European Open Science Cloud]

J. Moscicki
5 Nov 2019, 14:30
Riverbank R1 (Adelaide Convention Centre)

Bring your own application





[Unhosted web apps]

[SOLID]: led by Tim Berners-Lee

Mattermost®

CS3 Organization

https://gitter.im/cs3org/ http://www.cs3community.org contact@cs3community.org

Repositories Packages People Teams Project

Pinned repositories

reva

IOP (Inter Operability Platform)

Go 35 12

cs3apis

Connect Storage and Application

Go 10 4

2020

27-29 January

Copenhagen, DK
Conference Organized by
DEIC

https://cs3.deic.dk/

Thank you