T8.2 EOSC DIH

Elisa Cauhe (EGI Foundation)
Prague, November 2022

EOSC Future

EOSC DIH
DIGITAL INNOVATION HUB

The Context

Strategic Research and Innovation Agenda (SRIA) of the European Open Science Cloud (EOSC)

European Commission

Version 1.0
21 June 2021

Independent Expert Report

Research and Innovation

EOSC Executive Board

> " *...EOSC extends to the public and private sector, and to society at large.*
>
> *- Preface by Karel Luyben, EOSC Executive Board Chair (2019-2020), EOSC Association President*

The Context Continued

Strategic Research and Innovation Agenda (SRIA) of the European Open Science Cloud (EOSC)

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Independent Expert Report
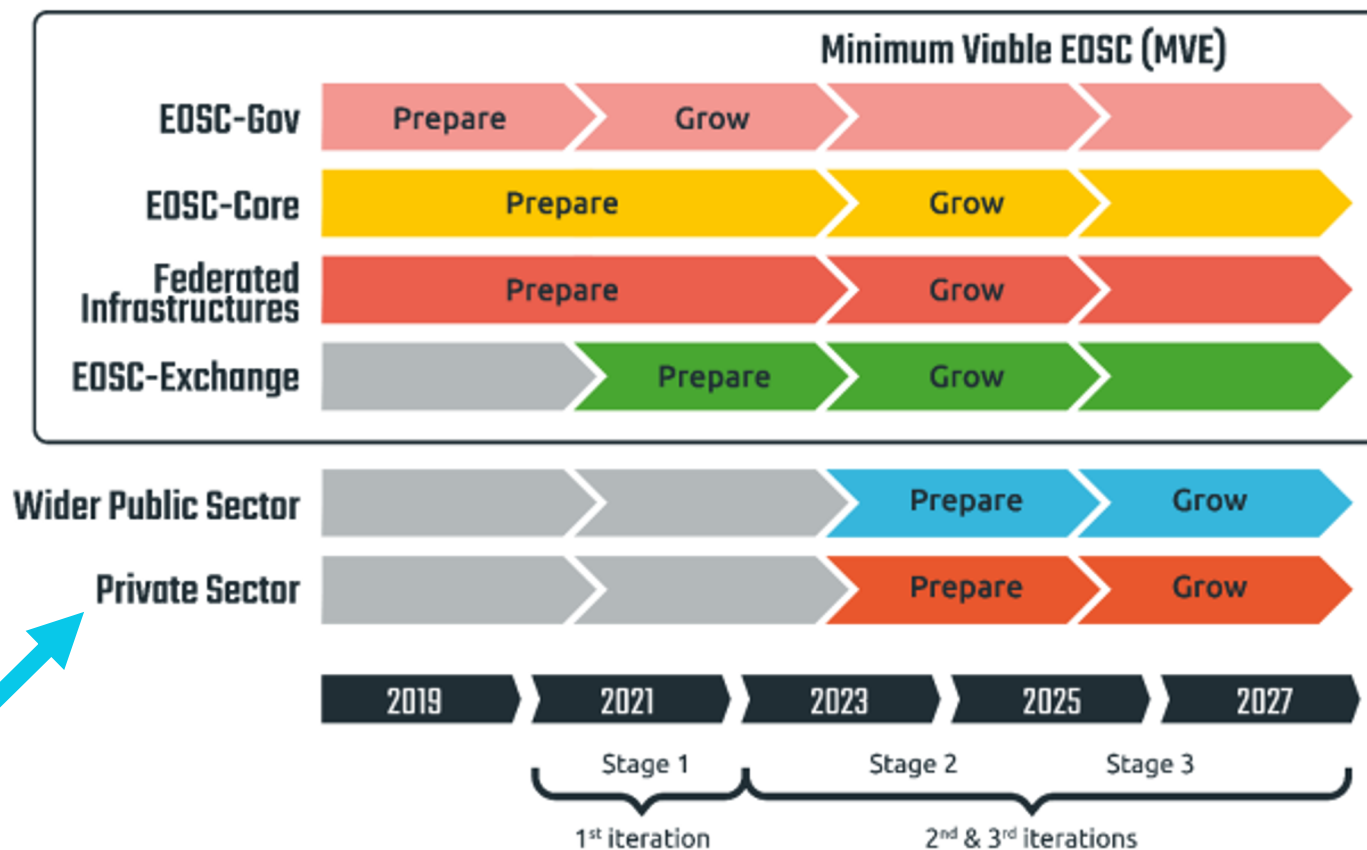
Research and Innovation

EOSC Executive Board

"*EOSC Action Area: Widening to public and private sectors and going global*

"*EOSC must demonstrate value and impact that is relevant and meaningful to the diverse groups belonging to the broader public sector and to the private sector*

"*The scope of EOSC is widened to serve the public and private sectors*

EOSC Timeline

Minimum Viable EOSC (MVE)

EOSC-Gov	Prepare	Grow		
EOSC-Core	Prepare		Grow	
Federated Infrastructures	Prepare		Grow	
EOSC-Exchange		Prepare	Grow	
Wider Public Sector			Prepare	Grow
Private Sector			Prepare	Grow

2019 — 2021 — 2023 — 2025 — 2027

Stage 1   Stage 2   Stage 3

1st iteration   2nd & 3rd iterations

EOSC Future WP8 and the EOSC DIH are actions that support stage 2 of the Widening implementation action

4

EOSC DIH

What is DIH?

EC Definition: *"One-stop shops that help companies dynamically respond to the digital challenges and become more competitive"*

What is the EOSC DIH?

A DIH that aims to stimulate joint innovation with private enterprises by leveraging **EOSC services, data and expertise**

Main Objective

Serve as an industrial engagement channel for other EC projects and initiatives for engaging with the EOSC

Target Groups

- Spin-offs; Start-ups; SMEs
- EOSC support/regional projects
- Multiplier networks
- Other DIHs/EDIHs

Digital Innovation Hubs (DIHs) in Europe

- Test before invest
- Skills and training
- Digital Innovation Hub
- Support to find investments
- Innovation ecosystem & networking
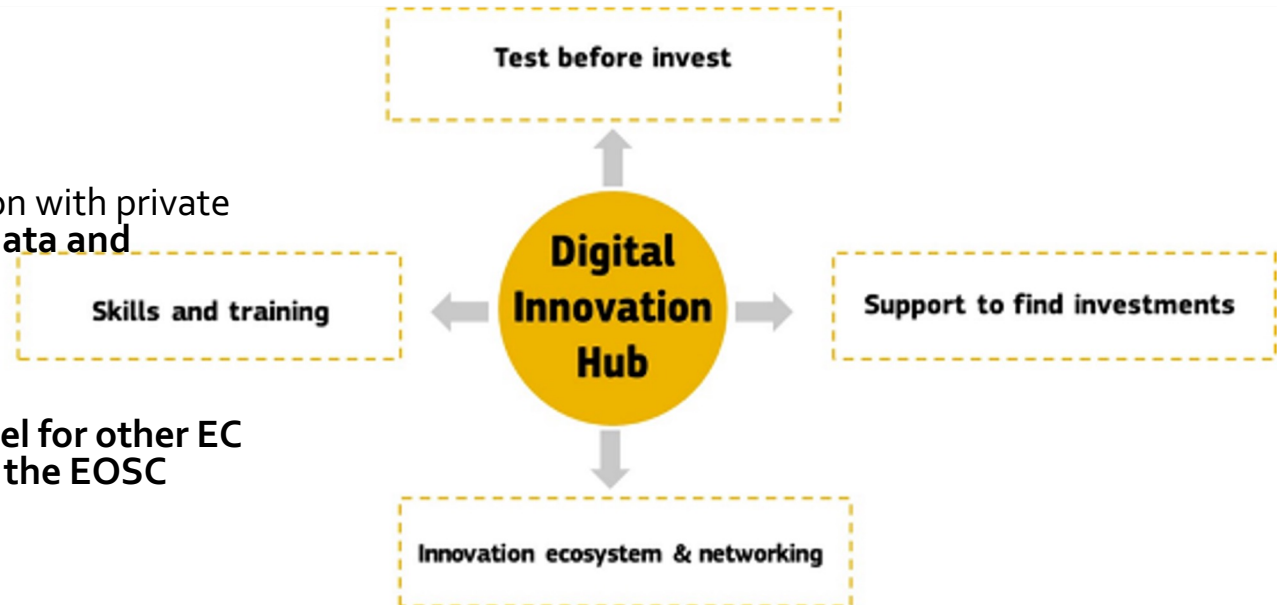
EOSC DIH Mission and Vision

MISSION

EOSC DIH supports the private sector to become major user group of EOSC

VISION

Enabling the private sector to make use of EOSC resources greatly increases the potential for innovation and economic impact of EOSC

EOSC DIH – Creation to Expansion

Creation

Expansion

EOSC-hub

EOSC FUTURE

Business pilots (as partners and in kind support)

Finance	Video	AI	Trucking	Furniture ONBOARDED	Environment
Compute Credits	FAIR data	Space	Accomodation	Security ONBOARDED	Agriculture
Health	Collaboration ONBOARDED Pilot knowco4EOSC	Manufacturing	Blockchain	Seaport	7 Sports

JNP · OpenAIRE
technopolis group · GÉANT Networks · Services · People
CSC · Jisc

EOSC Future
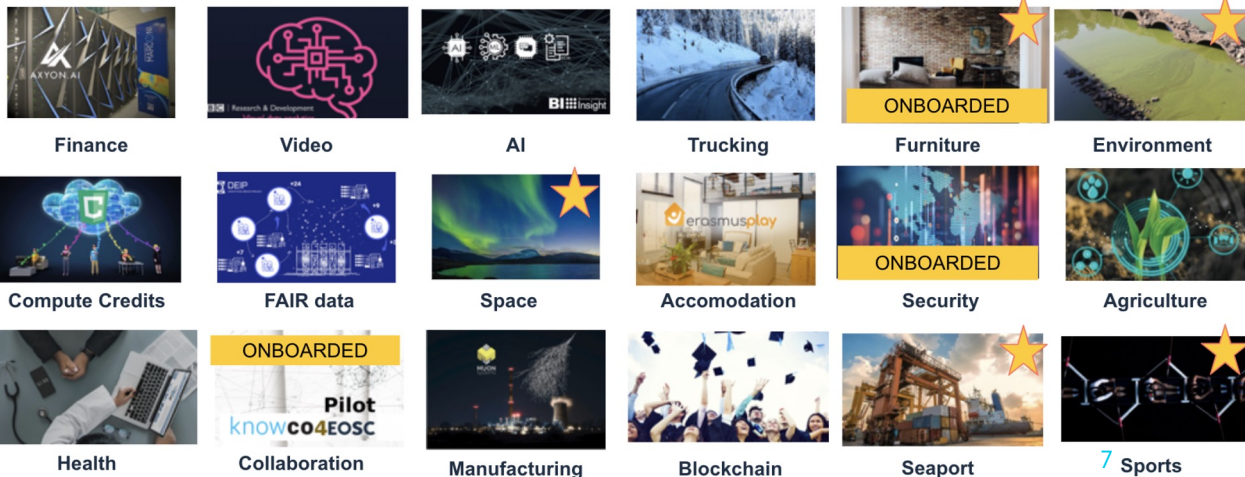
EOSC DIH Services + EOSC Project Services

Technical Assets

- Compute (HTP, HPC, Cloud)
- Storage (Online / Archive)
- Data management / analytics
- Machine Learning / AI
- Open Research Data
- Tools and Applications

Consultancy and Training

- Technical consultancy
- Service management
- Commercialization and business coaching
- Brokerage to funding opportunities

Experimentation

- Test before invest
- Pilots / Proof of concepts
- Service / Product co-design
- PaaS / SaaS Integration
- Requirements analysis

Community and Visibility

- Media Exposure
- Participation to events
- Promotional print material
- Inclusion in marketplace
- Networking
- Strategic Partnerships

EOSC FUTURE

EOSC DIH
DIGITAL INNOVATION HUB

+

deep Hybrid DataCloud · EGI-ACE · DICE Data Infrastructure Capacity for EOSC · OpenAIRE | NEXUS · C-SCALE · Reliance

EOSC DIH DIGITAL INNOVATION HUB · EOSC Future

The matchmaking

EOSC services and
Technical Support

Technical requirements

EGI-ACE

DICE
Data Infrastructure Capacity for EOSC

OpenAIRE | NEXUS

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SME
Small and Medium Enterprise

C-SCALE

Reliance

deep
Hybrid DataCloud

Business oriented service catalogue
Pilot campaigns
Consultancy
SLAs
Shepherd role
Success stories and visibility
Impact assessment
Support on EOSC onboarding

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EOSC Future

Value: Enriching and Exploiting the EOSC

Exploiting the EOSC

SMEs using services from the EOSC

SMEs bringing services / data to the EOSC

Enriching the EOSC
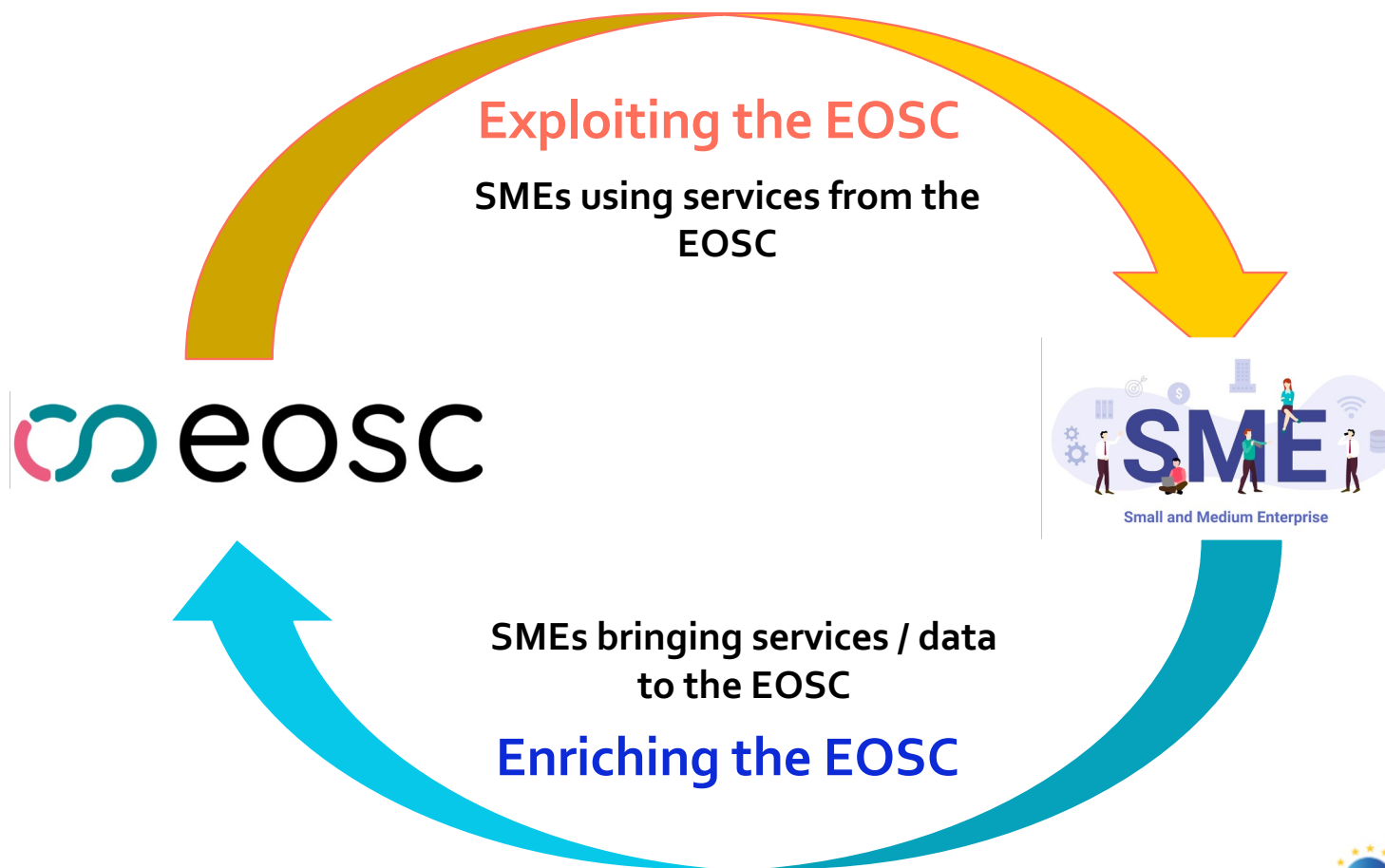
Pilots brought by the community

DigiFarm

Detecting agricultural field boundaries using deep neural network models and super-resolution Sentinel-2 EO-data

Trango. Trip and go.

Best Location for Car Sharing
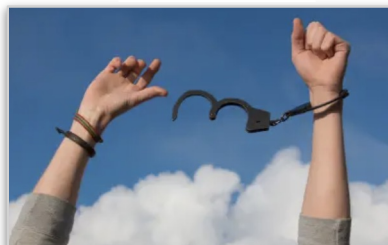
MiCADO – Cloud and Container Orchestrator

Orchestration Framework for Cloud Resources and Application Container

BIGcoldTRUCK: Big data analytics for cold chain logistics optimization in refrigerated trucks.

Data analysis to predict the demand of goods, optimise the routes in real-time and provide visualizations and descriptions.
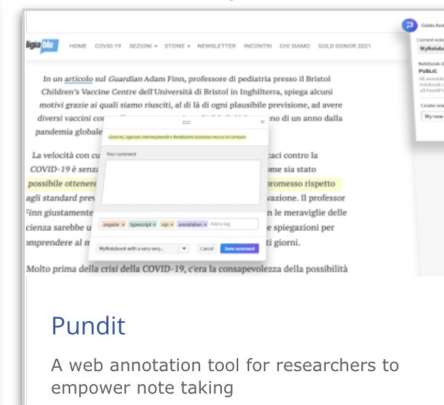
Pundit

A web annotation tool for researchers to empower note taking

Pilot from 1st pilot campaign (2021)

CITE

4SCIENCE Share your knowledge

Inteligg

BIOINVEST-AGRO INNOVATION COMPANY

OiPub

OpenScienceLens

Offering in-place access to millions of Open Science Research Products, at a glimpse.

ELD-ADVANCE

OpenAIRE ELD-Enrich Local Data via the OpenAIRE Graph – ADVANCE.

ANESYS

integrAted iNtelligent thErmostat SYStem.
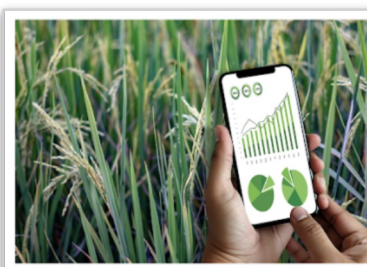
AgriFootprint

Cloud model for Carbon Footprint assessment in crop growing and agri food value chains.

OiPub

OiPub A Digital Platform for Enhanced Discovery & Discussion of Research Find & follow research in every niche! OiPub is working to make research easier to find, follow and discuss....

NEXUS EGI-ACE

NEXUS

NEXUS

NEXUS EGI-ACE

EGI-ACE
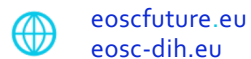
Pilots from 2nd pilot campaign (2022)

GTO HPC	blockheating — Recycling datacenter energy	eGI-ACE · C-SCALE
IRAZ	RSpace	NEXUS
LONGTERMDATA	TOP data science — A MORPHO COMPANY	DiCE
PREMACOOL	ΚΛΙΜΑΜΗΧΑΝΙΚΗ 1984 — ΟΛΙΣΤΙΚΗ ΕΝΕΡΓΕΙΑΚΗ ΔΙΑΧΕΙΡΙΣΗ	NEXUS · eGI-ACE · DiCE
REGREEN	deepblue	eGI-ACE · Reliance
SOFIA	RENVIS — RESEARCHING VISIONS	NEXUS · eGI-ACE · Reliance
YDMS	YUPPIES SERVICES	DiCE
UDOS	ubicube	C-SCALE
TWC SCUP	Tama FARM GROWN SOLUTIONS	C-SCALE

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DIGITAL INNOVATION HUB

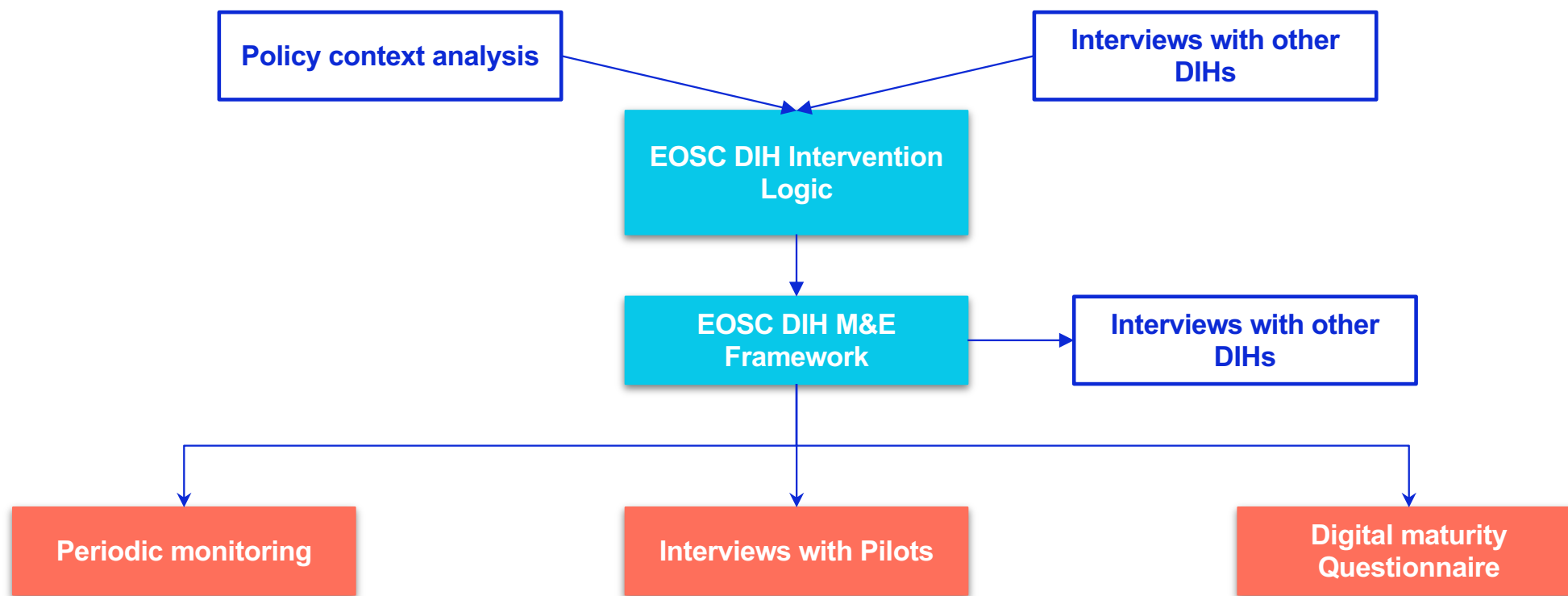# EOSC DIH Expression of Interest for Business Pilots: 4th Round

Deadline
15th December
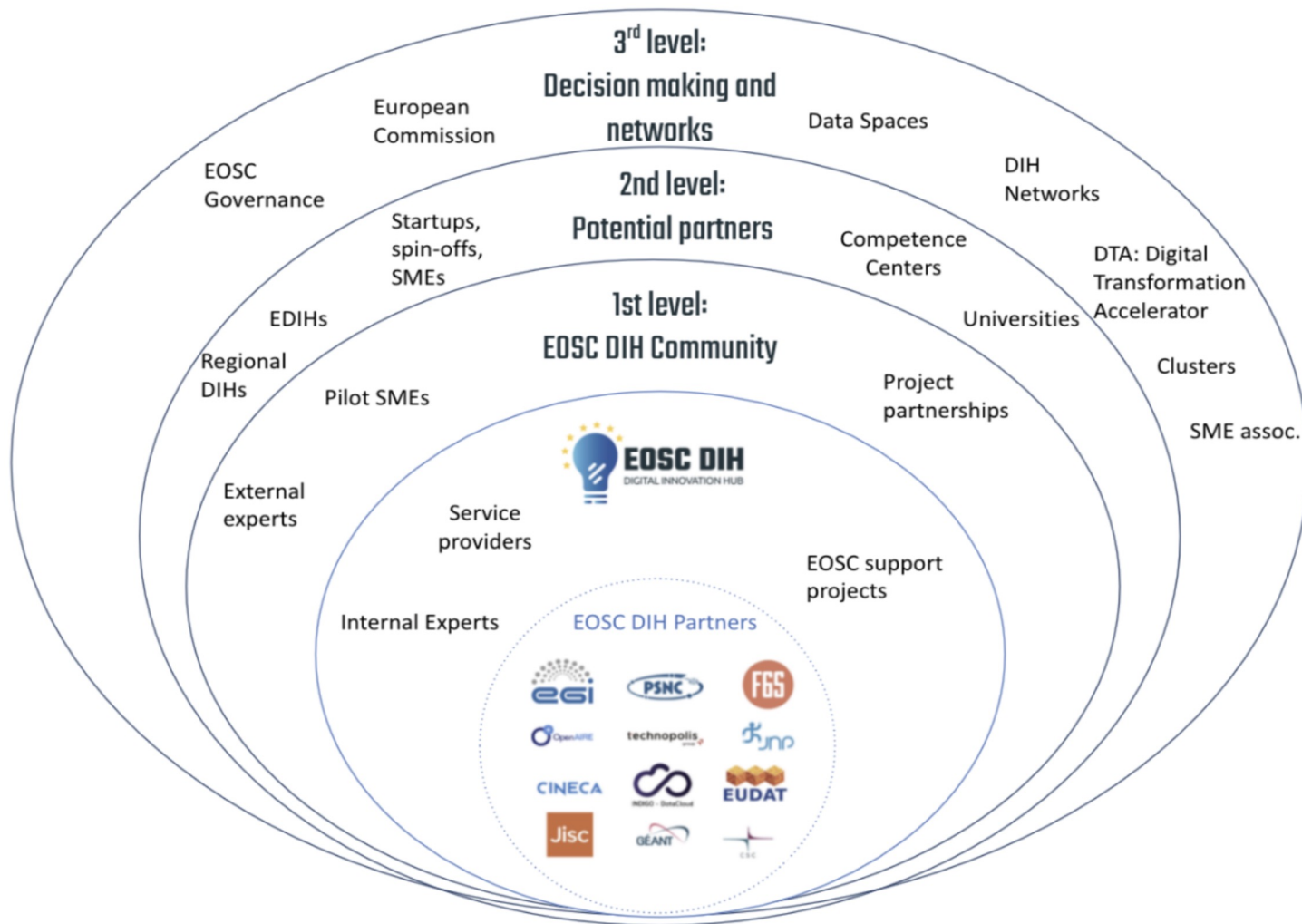
Webinar coming
soon
Stay tuned!

EOSC DIH Monitoring & Evaluation Framework

EOSC Community

Expansion and Operation in EOSC Future

Collaborations for service portfolio

- INFRAEOSC-07 projects
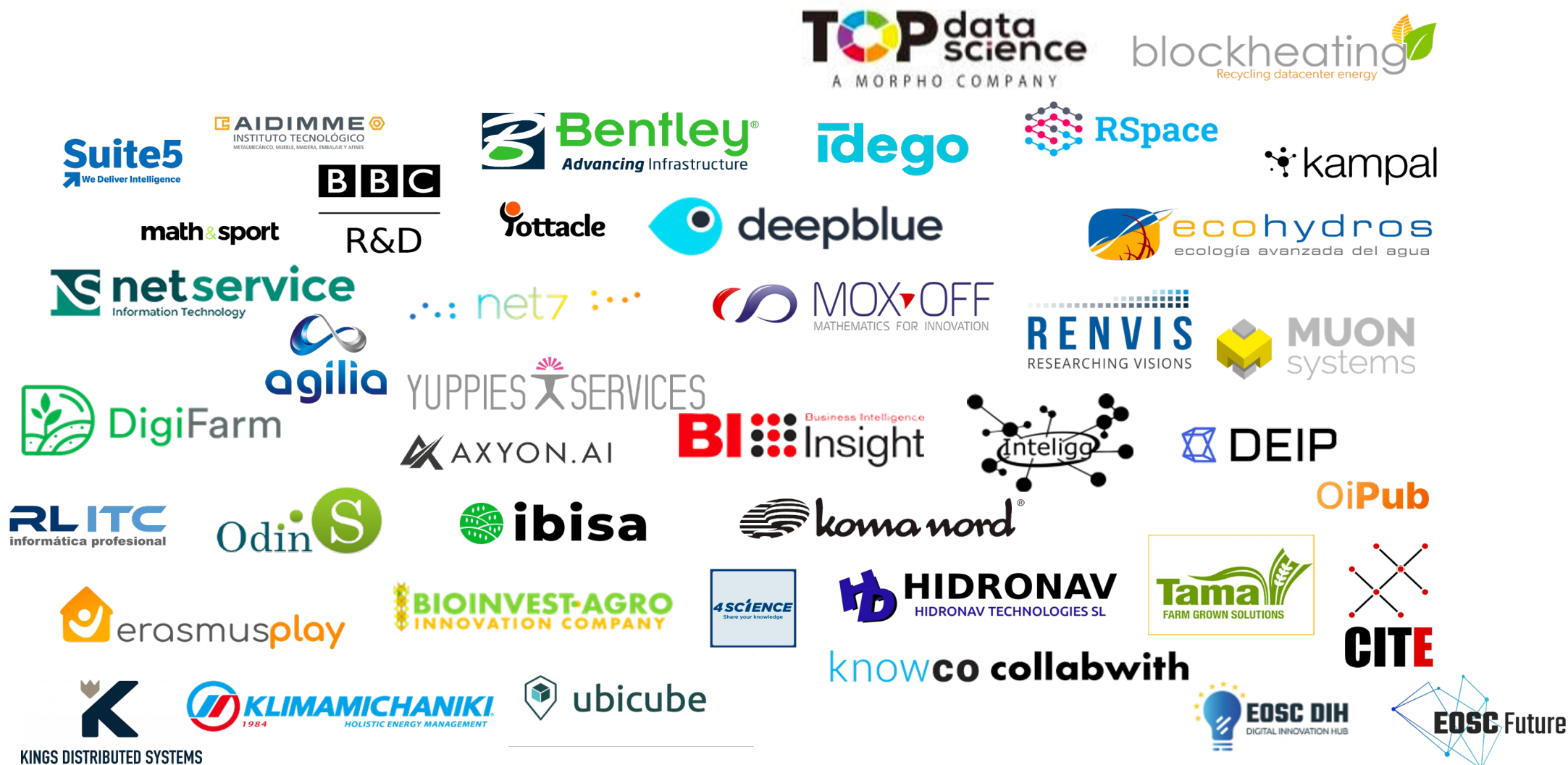
- Other projects

Partnerships with multipliers

- Regional DIHs

- Other DIH networks

- Industry support initiatives

EOSC DIH is one of the EOSC Future Key Exploitable Results (also a KER in EOSC Hub project)

Companies in the Ecosystem

EOSC DIH in numbers

218 — Informed SMEs

6 — EOSC- projects collaborations

5 — Regional DIH connected

36 — Funding opportunities

43 — SMEs supported

6 — Onboarded services in the MP

18 — Strategic partnerships

17 — Industry events attended

19

EOSC Future

How To Get Involved

Expression of Interest – co-creation
- Attract wider community
- Target specific areas

Join our community
- Establish a partnership
- Defining specific engagement areas
- Contribute expertise in a specific field/area

Ask us through webpage
- If you have a pilot idea
- If you want to kick start engagement https://eosc-dih.eu/contact/

Collaboration with other projects
- Being an exploitation channel for EOSC projects!!!!
- Defining long-term collaboration scope and agreements https://eosc-dih.eu/partnerships/

Visit our booth!

EOSC DIH — Pilot Demonstrations

Day	Time	Demo
Tuesday 15	14.00	PreMaCOOL
Tuesday 15	15.30	DBL
Wednesday 16	10.30	OiPub
Wednesday 16	13.30	CITE
Wednesday 16	14.00	YDMS
Wednesday 16	16.00	RSPACE
Thursday 17	10.30	NET7
Thursday 17	13.30	4Science

EOSC DIH DIGITAL INNOVATION HUB
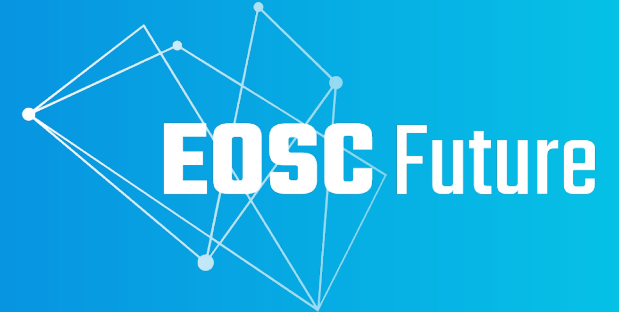
EOSC Future

Thank you for your attention