



KER 6: EOSC Digital Innovation Hub

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eosc-hub.eu



@EOSC_eu

Dissemination level: Public

Disclosing Party: Project consortium

Recipient Party: European Commission





Enterprise: Boost innovation

Digital Innovation Hub:
Platform for industrial collaborations with EOSC

EOSC Portal and Marketplace

EOSC-hub Key Exploitable Results



EOSC Hub Operators: Develop the EOSC landscape

Service Providers: Provide services for Researchers

Rules of Participation

Internal services in the Hub portfolio

Educate, inform and support my team and community

Service Management System

Business and sustainability models for services and the Hub

Training courses and Materials

Interoperability & Integration Guidelines

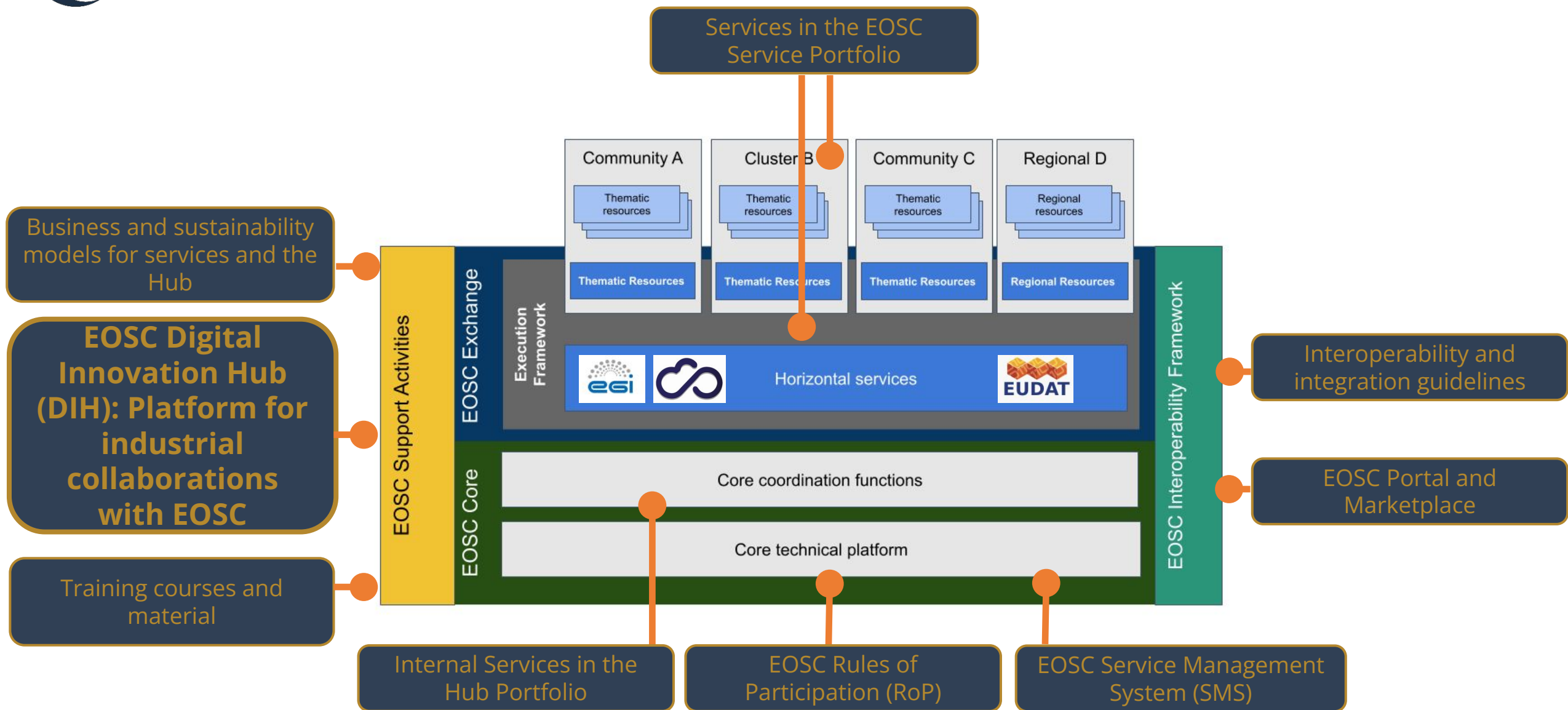
Services in the EOSC Service Portfolio

Researchers and research communities: Empower my research



Description	<p>EOSC DIH is a multi-partner cooperation that aims to increase innovation and competitiveness of companies by providing easy access to digital technologies, services and expertise offered by the EOSC. The EOSC DIH service offer is grouped into 4 main pillars: Piloting and co-design, Technical Assets, Consultancy & Training, Community & Visibility</p>
Type	<p>Business models, software and services</p>
Key innovation	<ul style="list-style-type: none"> ● Created a single contact point for industry representatives to engage with the EOSC with flexible engagement ● Enabled business pilots to increase TRLs ● Facilitated new services into the EOSC Portal ● Developed agreements, terms of reference, processes and procedures for operating the DIH outside of any single project ● Gained experience in running open calls ● Established a visual identity and branding
Related Information	<ul style="list-style-type: none"> ● Aligned with the EC DIH strategy as part of the DSM ● EOSC DIH is registered in the EC S3platform ● Output included in EOSC Future project







Innovation

EOSC-hub New or Improved? Visual Identity and Online Presence

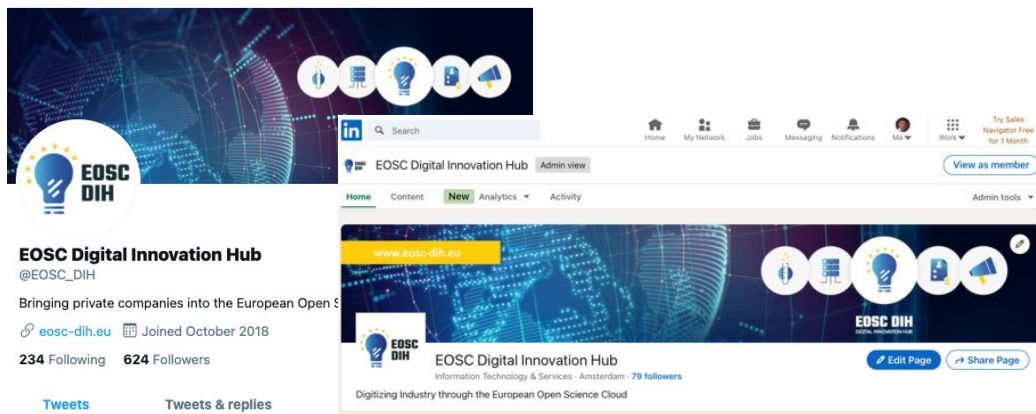
Logo/Branding

- Better alignment with EOSC
- Retains independent identity of any single project



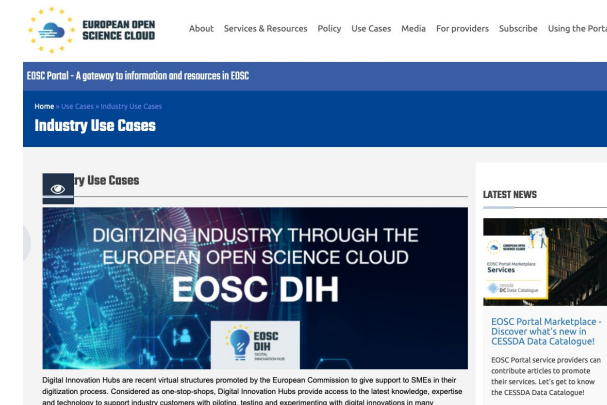
Social Media

EOSC Digital Innovation Hub
181 Tweets

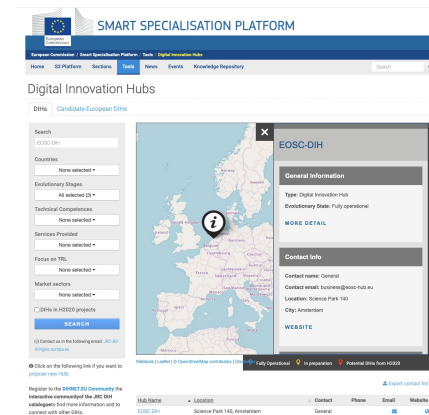


Website

- Set up persistent website (launched April 2020)
- EOSC Portal inclusion



EC DIH Catalogue



EOSC-hub New or Improved? Business Pilots (18!)



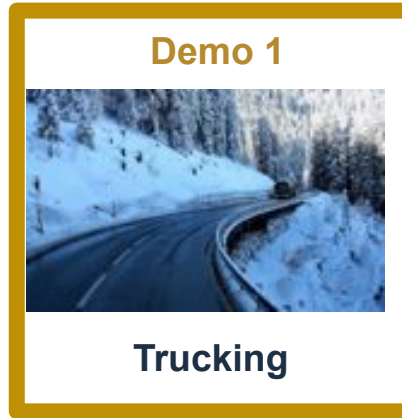
Finance



Video



AI



Furniture



Compute Credits



FAIR data



Space



Accommodation



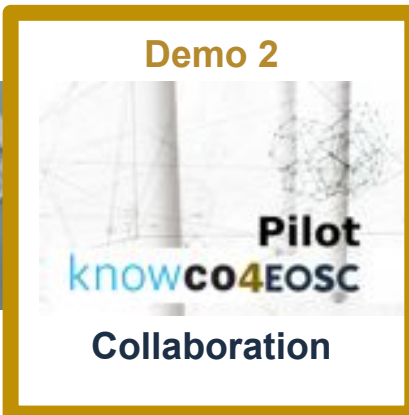
Security



Agriculture



Health



Manufacturing



Blockchain



Seaport



Sports

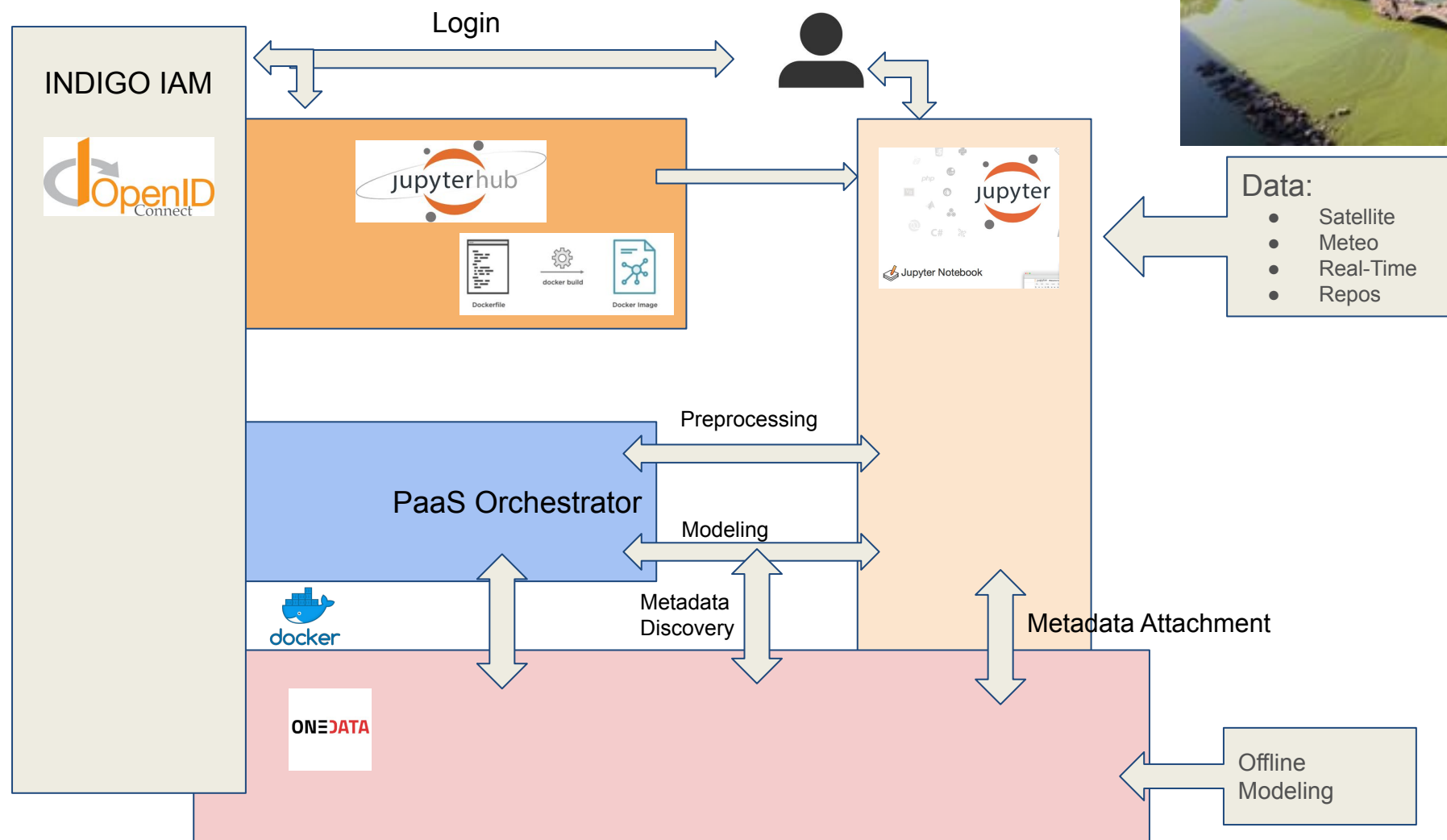
***6 business pilots at 1st review**



- Addressing proliferation of toxic microalgae
 - Red tides at sea
 - Cyanobacterial HABs (Harmful Algal Blooms) inland waters

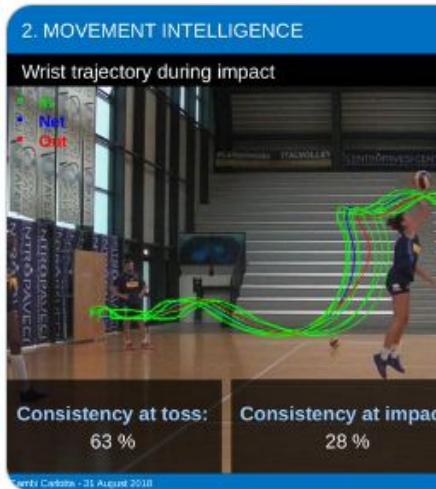
- Serious and costly environmental and socioeconomic impacts.

- Cloud technologies support management
 - Use of Big Data
 - Computational Modeling
 - Data Lifecycle management



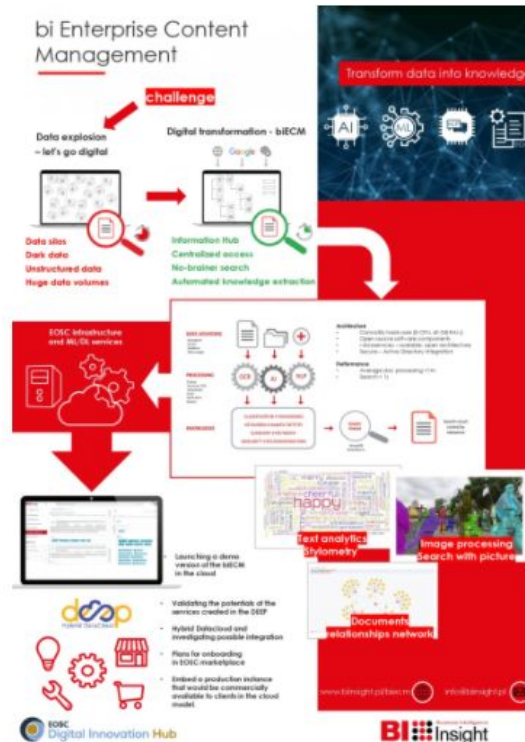
EOSC-hub Week
Apr 2019 - Prague

Best Demo



EOSC-hub Week
May 2020 - Online

Best Poster



EOSC-hub/SSHOC/FREYA
Nov 2020 - Online

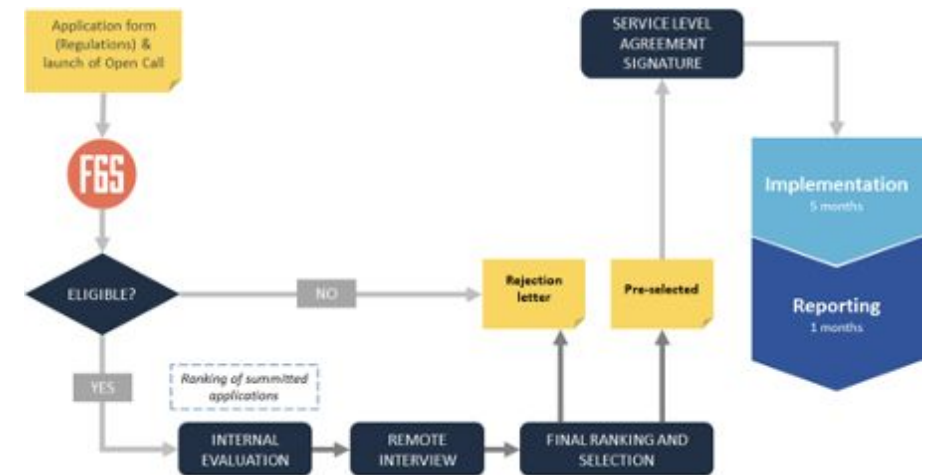
Best Expo - 1st Runner-up



- **Initial pilots helped to define the DIH, and its operation**
 - Focus of new pilots was diversifying from IaaS

- **Pilots are now a mix between**
 - Resources: Computing/storage support
 - e.g. DataFurn, Muon, BBC R&D
 - Providing technological expertise
 - e.g. Knowco4EOSC, IBISA, Erasmus Play
 - Co-design using EOSC-hub services
 - e.g. Cyberhab, DCP
 - Support and co-development with other projects
 - e.g. BI Insight, BIGcoldTRUCK, DEIPDASFD

- **Requested Expertise**
 - ML/DL/AI
 - Security
 - AAI
 - BigData technologies
 - Domain services e.g. Geo, Agri





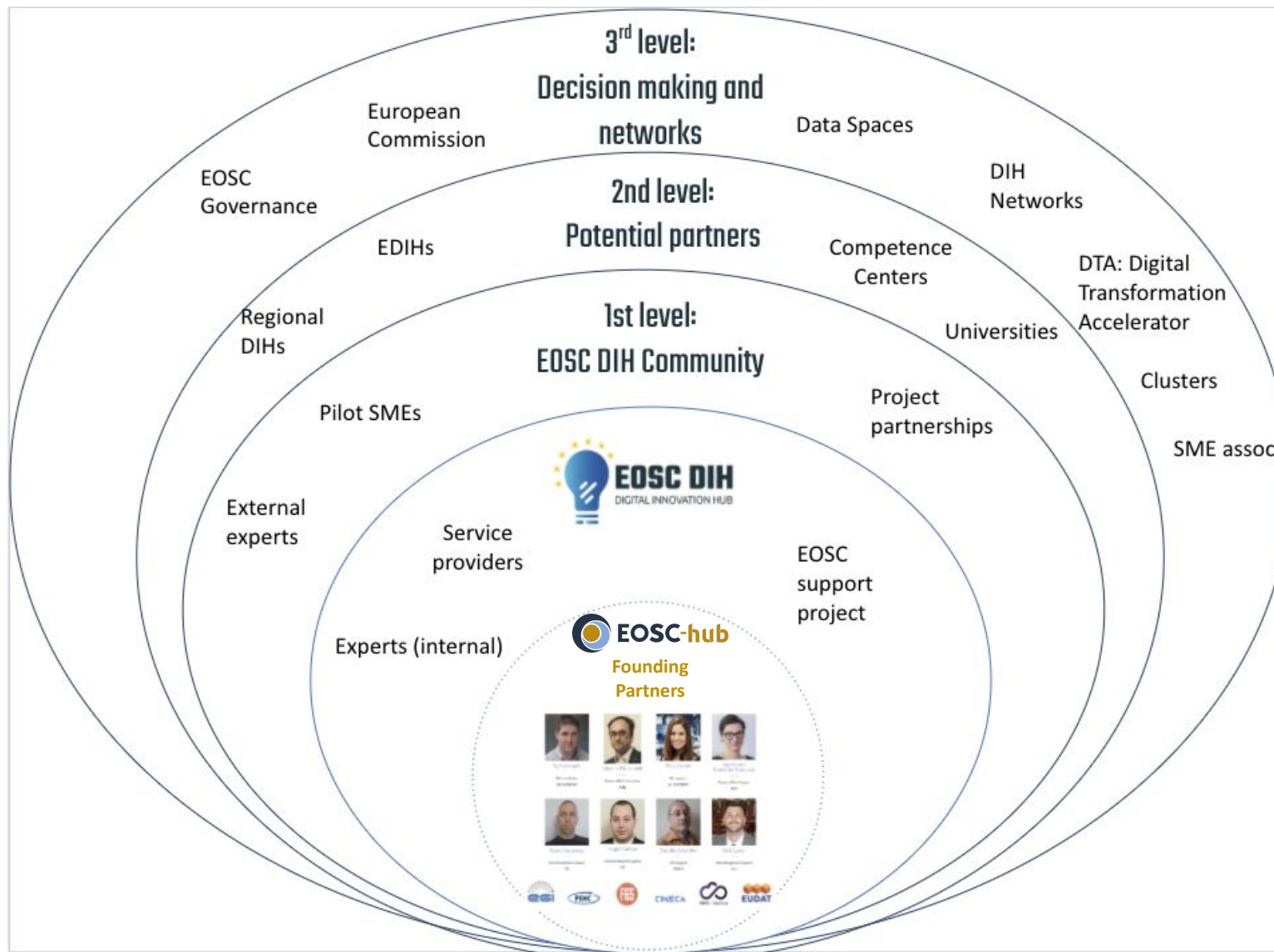
2019 Edition




2021 Edition



Exploitation



- **People:** Who is involved and doing what?
- **Engagement:** How are our people engaged? How will we communicate?
- **Interaction:** How does we facilitate interaction between the members and externally?
- **Value:** How does the <community share knowledge and support each other? How do we ensure value for partners?
- **Impact:** How do we measure and monitor impact? How do we facilitate the innovation management process?

 EOSC DIH DIGITAL INNOVATION HUB	EOSC DIH	1 st level: EOSC DIH Community	2nd level: Potential partners	3 rd level: Governance
People Our community has to be full of people, not empty	Define clear roles and responsibilities. Visibility of members (web and social media)	Join pilots through Open calls. Start partnerships. Make community visible (website and social media).	Create EOSC DIH awareness (Social Media, partnerships)	Create EOSC DIH awareness (Social Media) and EC catalogues, events.
Engagement Our community has to read our emails, comment in our messages and follow us in different social networks	Regular meetings Delegation of tasks Annual F2F meetings	Newsletter Mailing list Social media	Fairs and Conferences Mailing Social media	Fairs and conferences Participation in Project proposals
Interaction Our community has to network among members and create collaborations and activities together.	Promote joint participation on tasks Shared workspace	Share the Code of conduct Make SMEs visible and share contact details Forum (fail)	Joint participation in Open Calls and proposals Mailing Social media Events	Share news and outputs (Mailing and Social Media) Participation in Events
Value Our community has to share the knowledge, share news and support each other.	Sharing of knowledge Active participation on events	Webinars /demos sessions led by SMEs Services included in the EOSC Marketplace	Participate in common spaces, platforms. Share funding and collaboration opportunities Share services Share news and main results.	Participation on Conferences. Share of success stories, lessons learnt and collaborations. Participation on DIH Policy roadmaps. Participation in proposals
Impact Our community needs to create innovations through collaborations and bring ideas onto the market.	Open for feedback and continuous internal Improvement mechanism	Running pilots and share of outputs through EOSC channels	Share the Success stories in sectors Bring new projects and pilots to run	Share the Success stories in sectors Include services in EU catalogues Share our KPIs


Exploitation audience	Benefits
Enterprise	<ul style="list-style-type: none"> ● Test before invest approach: Lowers initial investment (time and effort) for identifying/accessing services and developing/testing new products and services ● Increasing visibility and networking opportunities on a European level
Service Providers	<ul style="list-style-type: none"> ● Increase exploitation of services; co-design new or improved services and solutions ● Experience working with industry; identification of service improvements; potential new future customers
EOSC Support Projects and other initiatives	<ul style="list-style-type: none"> ● Avoid duplication (reinventing the wheel); increase scalability through multiplier; complementary services and expertise required to support the diverse needs of startups/SMEs. ● Increased results for own project; expand partner network for future opportunities
EDIH Network	<ul style="list-style-type: none"> ● Contributed to clarity of definition of EOSC and pointed to functions providing greater value-add ● Increased ability to identify and re-use resources through EOSC
EOSC Governance, Policy makers and funding agencies	<ul style="list-style-type: none"> ● Clarified value-add required of EOSC ● Increased sustainability of EOSC

- **Organisational**

- Multi-partner cooperation
- Shared agreement: Memorandum of Understanding with Terms of Reference
 - Purpose, Partner Rights and Expected Contributions, Reporting, Meetings, Decision making, resolution of conflicts, etc.

- **Financial**

- Short-to-medium-term
 - EC funding
 - EOSC Future (Main immediate funding source)
 - In-kind contribution
 - From participating partners
 - Via Strategic Partnerships
 - EC funded projects
 - EDIH network in Digital Europe Programme (potential funding source)
- Medium-to-long-term (to be analysed)
 - Business model implementation
 - Membership fees, Paid consultancy/services, EC project participation
 - ...
 - Legal entity



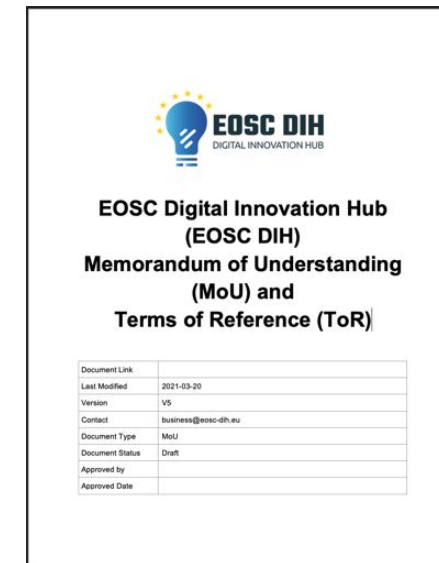
EOSC Digital Innovation Hub (EOSC DIH)
Memorandum of Understanding (MoU) and Terms of Reference (ToR)

Document Link	
Last Modified	2021-03-20
Version	V5
Contact	business@eosc-dih.eu
Document Type	MoU
Document Status	Draft
Approved by	
Approved Date	





- Each of the business pilot contacts retain the ownership of their own background IPR and the adaptations made to the proprietary code with the support of DIH.
- The EOSC services provided follow the policies associated to the individual service and the provider.
- IP is managed on a case by case based and defined as part of the pilot agreement (i.e. SLA)



- EOSC DIH considered foreground of the EOSC-hub WP9 partners (incl. branding, web presence).
- WP9 partners are acknowledged as founding partners and the initial signatories of the 1st EOSC DIH MoU and ToR.
- As explicitly written, the ToR does not affect the rights and/or obligations of Partners or Community Members with respect to ownership of any patent, copyright, trade secret or any other intellectual property rights.

Events

Online Material

Webinar Series



EOSC Websites	<ul style="list-style-type: none"> • https://www.eosc-hub.eu/key-exploitable-results/eosc-digital-innovation-hub-dih-platform-industrial-collaborations-eosc • https://eosc-dih.eu/ • https://eosc-portal.eu/industry-use-cases • https://marketplace.eosc-portal.eu/providers/eosc-dih • https://www.youtube.com/results?search_query=eosc+dih
Publications	<ul style="list-style-type: none"> • https://eosc-dih.eu/wp-content/uploads/2020/03/eosc-dih_business-pilot-success-stories-2019_v.electronic-final.pdf • https://eosc-dih.eu/wp-content/uploads/2021/04/EOSC_DIH_Business_Success_Stories_WEB_Mar2021.pdf
Magazine	<ul style="list-style-type: none"> • Issue 1: https://www.eosc-hub.eu/news/digitizing-industry-through-european-open-science-cloud • Issue 5: https://www.eosc-hub.eu/success-stories-eosc-digital-innovation-hub
Selected presentations at events	<ul style="list-style-type: none"> • 20 Mar 2018: ICTFOOTPRINT.eu Workshop on “Green ICT – in practice” • 11 Oct 2018: DI4R • 15 Oct 2018: Elixir SME Forum • 04 Dec 2018: ICT 2018 • 03 Apr 2019: 6th EC DIH WG • 23 May 2019: HPC for Industry 4.0 • 30 May 2019: SmartAgriHubs Regional Cluster Workshop - North East Europe • 11 Jun 2019: Smart City Expo 2019 • 27 Jun 2019: BDV PPP Summit • 15 Oct 2019: European Big Data Value Forum (EBDVF'19) • 15 Nov 2019: Digitising European Industry Stakeholder Forum • 26 Mar 2021: Shaping the future of the EOSC DIH: industry showcase and path forward



WPs in leading roles	<p>WP9</p> 
WPs providing contributions	<p>WP2: Inclusion of DIH within strategy WP3: Support for dissemination and communication (vIDEOS, graphics, material) and innovation management WP7/8: Participation in webinars and knowledge exchange activities WP10: Service and technical expert coordination support</p>
Other information	<p>D9.1 Initial Business Pilots Overview & Work Plans D9.2 Joint Digital Innovation Hub Intro and Strategy D9.3 Business Pilots Results D9.4 Joint Digital Innovation Hub Final Results and Sustainability Plan M9.1 Business Pilot Success Stories</p>



- EOSC offerings for collaboration with the private sector should be clear with precise information about the access and usage
- Tighter integration with onboarding procedure from the EOSC portal for industry related cases, which should be initially validated by DIH partners
- Accessing explicit data required by pilots should be an area of improvement moving forward e.g. data provider agreements
- Increase industry feeding back into the research space (i.e. industry data)
- The EOSC DIH is being consolidated and should be considered the **main interface between EOSC and industry**
- The EOSC DIH should be widely disseminated as an **exploitation channel** in new initiatives and projects – we are open for new partners and partnerships



Mission

Help companies and SMEs to integrate EOSC services and become more competitive by providing a single access point with technical support and consultancy provided by entities committed to remove the barriers between the Open Science and Industry.

Vision

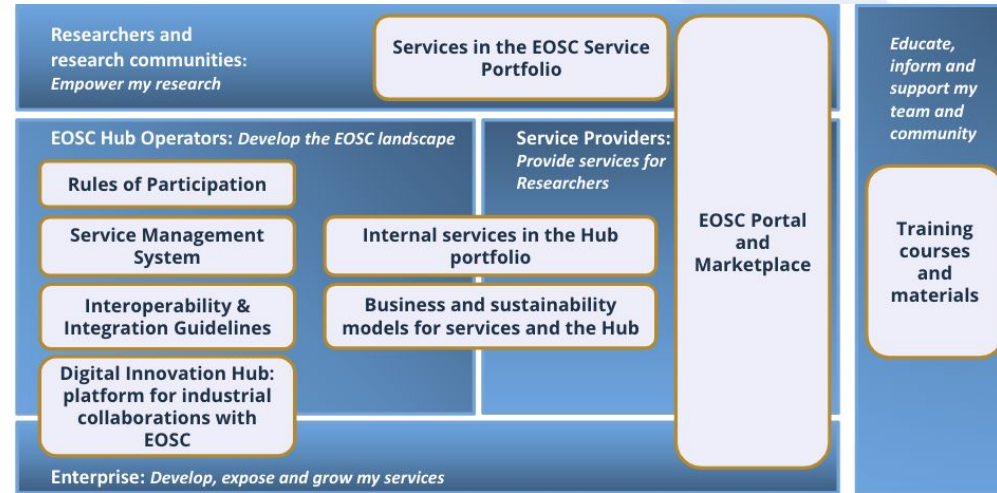
EU companies are increasingly more competitive and digitised and EOSC is seen as a catalyst for more innovative and disruptive solutions with economic and societal impact.

Value

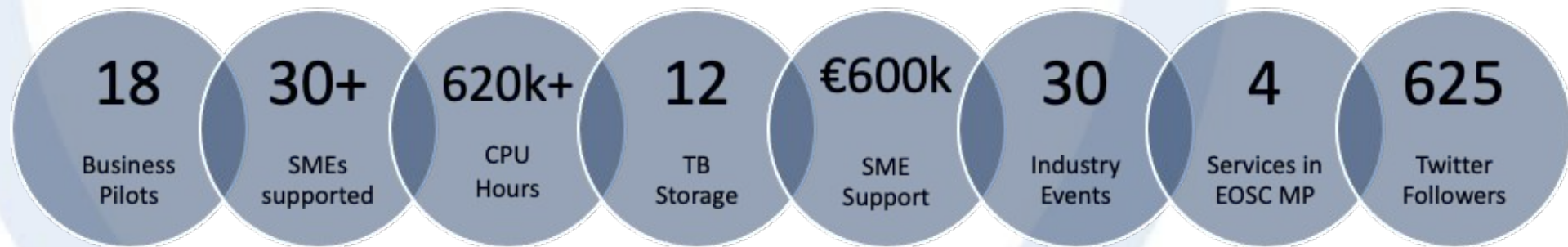
Dedicated access point for industry to leverage the IT services, research data, and expertise available across the EOSC and stimulate innovation

Summary

EOSC-hub Key Exploitable Result



EOSC DIH in Numbers



Thank you for your attention!

Questions?





EOOSC-hub

EOOSC DIH Team

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- Elisa Cauhe (EGI Foundation)
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- Hugo Cantão (F6S)
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