



Institut national de physique nucléaire et de physique des particules

www.in2p3.fr

A composite image showing particle tracks on the left and a colorful nebula on the right, set against a starry background. The tracks are thin lines of various colors (yellow, orange, red, blue) radiating from a central point. The nebula is a large, diffuse cloud of gas and dust in shades of purple, pink, and blue.

Sonder les infinis : des particules au cosmos

EOSC et France Grilles: prochaines étapes

[Volker BECKMANN](#)

CNRS / IN2P3 Directeur Adjoint Scientifique (DAS) Calcul & Données

Chargé de mission CNRS-EOSC



**EUROPEAN OPEN
SCIENCE CLOUD**

Nouvelles: EOSC & France Grilles

- EOSC Work Plan 2019-2020
- [EOSC Working Groups](#)
- [EOSC-Pillar](#)
- Appel d'offre: [INFRAEOSC-03/07](#)
- Nouvelles France Grilles
- Convention GIS France Grilles



Nouvelles de EOSC



Table of Contents

1	EXECUTIVE SUMMARY
2	A FIRST EOSC ITERATION BY END 2020
2.1	RULES OF PARTICIPATION
2.2	LANDSCAPING EXERCISE
2.3	STRATEGIC AND FINANCING OPTIONS
2.4	FEDERATED CORE SERVICES AND CATALOGUES OF DATA AND SERVICES
2.5	EOSC INTEROPERABILITY FRAMEWORK.....
2.6	PERSISTENT IDENTIFIER POLICY
2.7	METRICS FOR FAIR DATA AND CERTIFIED SERVICES.....
3	TIMELINE
4	PROCEDURES AND REQUIRED INPUTS
4.1	LIAISON WITH H2020 PROJECTS, NATIONAL INITIATIVES, DISCIPLINARY SERVICES
4.2	LIAISON WITH GOVERNANCE BOARD.....
4.3	ITERATION AND TESTING
4.4	THE ROLE OF THE STAKEHOLDER COMMUNITY

Should appear soon here: [EC Documents](#)
See also « [EOSC Strategic Implementation Plan](#) »

EOSC Webinaire

Wednesday 16th October at 15:00 - 16:15 CEST

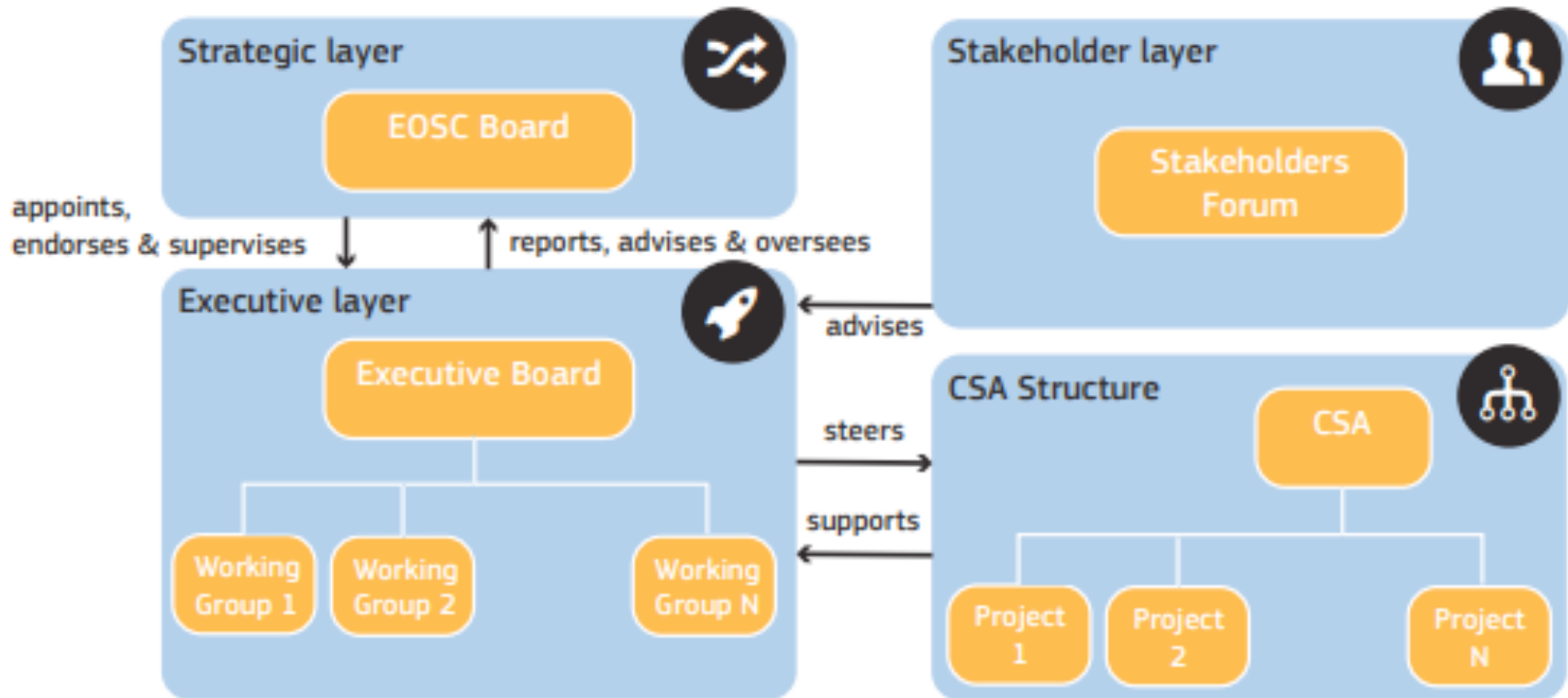
Webinar: Working together for the European Open Science Cloud

<https://www.eoscsecretariat.eu/events/webinar-working-together-european-open-science-cloud>



Nouvelles de EOSC

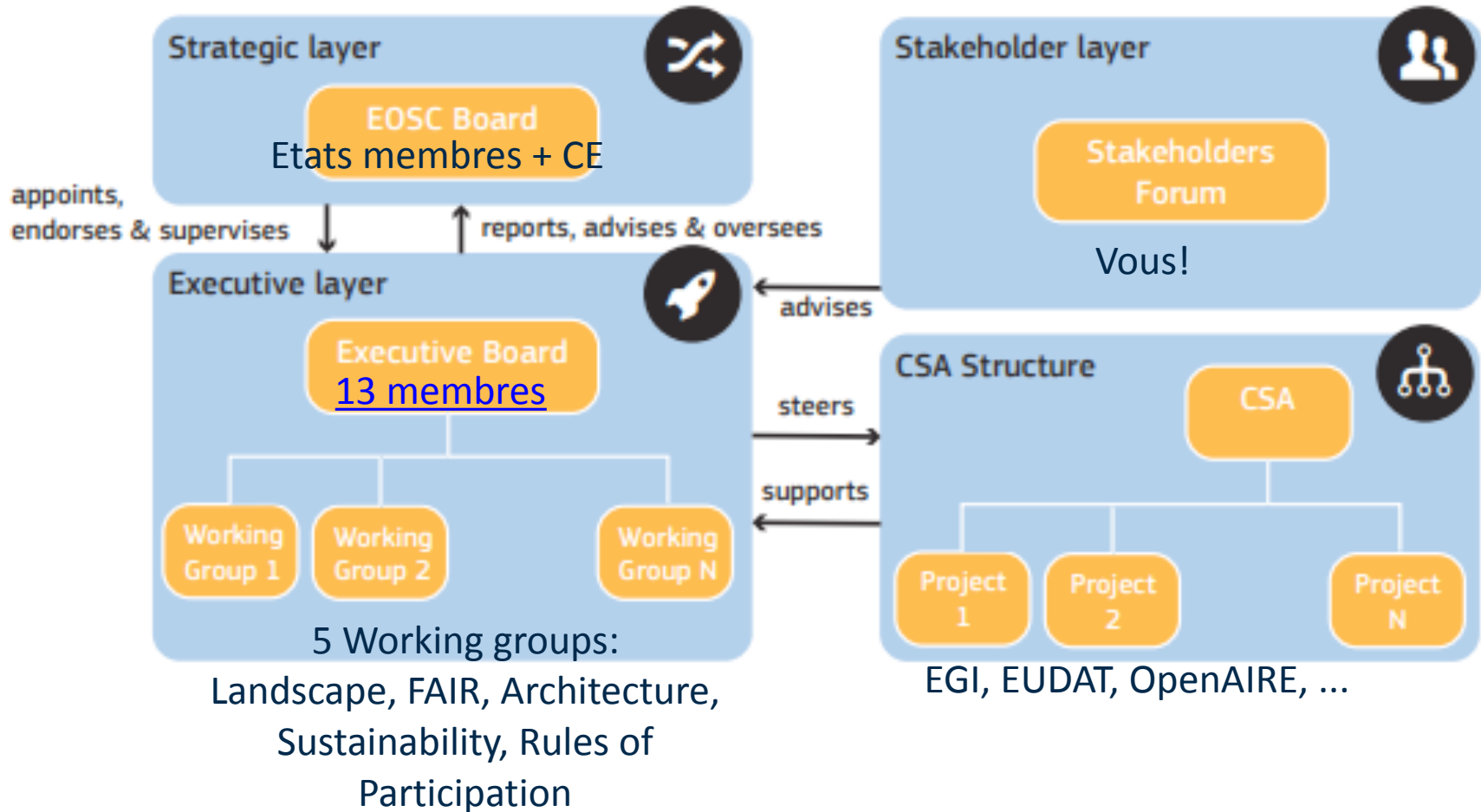
EOSC portal: <https://www.eoscsecretariat.eu>



Executive board: propose a working model for EOSC by end of 2021

Nouvelles de EOSC

EOSC secretariat: <https://www.eoscsecretariat.eu>



Nouvelles de EOSC

EOSC portal: <https://www.eosc-portal.eu/>

EOSC secretariat: <https://www.eoscsecretariat.eu>

EOSC Working Groups

<https://www.eosc-portal.eu/eosc-working-groups>

- [Landscape](#): mapping of existing infrastructure for future EOSC. Lead: [Jan Hrusak](#), France: Volker Beckmann (CNRS / IN2P3)
- [FAIR](#): requirements for the development. Lead: Sarah Jones, France: Françoise Genova (CNRS / INSU, RDA)
- [Architecture](#): technical framework required for the EOSC. Lead: Jean-François Abramatic, France: Jérôme Pansanel (CNRS / IN2P3)
- [Rules of participation](#): define the rights, obligations governing EOSC transactions between EOSC users, providers and operators. Lead: Juan Bicarregui, France: Odile Hologne (INRA)
- [Sustainability](#): implementation of an operational, scalable and sustainable EOSC federation after 2020. Lead: Rupert Lueck & Lidia Borrell-Damián, France: Jean-Yves Berthou (INRIA)



EOSC Landscape Working Group

Landscape:

- Mapping of the existing research infrastructures in Europe which are candidates to be part of the EOSC federation
- Enquête sur les infrastructures / initiatives pertinentes existantes Q3/2019
- Document finale: fin 2019
- Input: membres du groupe (pas le temps pour une enquête appropriée)
- Q3 2020: présentation rapport pour [EOSC Executive Board](#)
- long terme: s'appuyer sur des enquêtes projets INFRAEOSC-5b



[Jan Hrusak](#)

EOSC-Pillar, INFRAEOSC-5B

<https://www.eosc-pillar.eu/>

- *Leveraging national initiatives of EU member states to build an Open Science and FAIR data-based EOSC*
- Lancement: Juillet 2019
- Durée: 3 ans
- **France, Italie, Allemagne, Autriche, Belgique**
- Université Vienne, Université de Gand, DKRZ, Fraunhofer, GFZ, KIT, CINECA, CMCC, CNR, INFN, Trust IT
- **CNRS, CINES, IFREMER, INRA, INRIA, INSERM**



Première étape: [landscape survey](#)

- qui est déjà engagé? mécanismes de financement, coordination, attentes, perspectives
- adressé à: 2000 *stakeholders* (France, Italie, Allemagne, Autriche, Belgique)
- *Funding bodies, universities, research infrastructures, e-infrastructures*
- Questions adaptées, points de contact identifiés, durée: ~20 minutes
- lancé en octobre 2019 (date limite 31.10.2019)
- Premiers résultats: fin 2019
- Première analyse terminée: février 2020

Enquêtes similaires dans d'autres projets 5b

coordonner les résultats -> secrétariat de l'EOSC -> EOSC WG Landscape

Webinar sur INFRAEOSC-5b landscape surveys: <https://youtu.be/i8Mly99V0-g>

Prochaines étapes: FAIR data, use cases, implementation

- WP5: establishing FAIR data services. Lead: [Fraunhofer IWM](#)
- WP6: use cases and community driven pilots. Lead: [Frédéric Huynh](#) (Système Terre)
- WP7: infrastructure layer (what works, what's needed, how to fill the gaps).
Lead: Volker / Jos van Wezel (KIT)

courte vidéo publicitaire sur les WPs: https://youtu.be/2SCsaA4g_No

INFRAEOSC Funding Opportunities

Opening: 19.11.2019, Deadline: 22.4.2020

[INFRAEOSC-03-2020](#) (RIA): Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the [EOSC Portal](#)

1 proposal, *EUR 40.9 million*

[INFRAEOSC-07-2020](#) (RIA): Increasing the service offer of the EOSC Portal, 6 service areas, at least one funded project per area

(a1) Distributed and cloud computing resources, *EUR 8 million* [[EGI](#)]

(a2) Data services, *EUR 7 million* [[EUDAT](#)]

(a3) Services supporting scholarly communication and open access, *EUR 4 million* [[OpenAIRE](#)]

(a4) Above the net services, *EUR 2 million*

(a5) Services and resources from non-research public sector data providers, *EUR 1 million*

(a6) Additional research enabling services, *EUR 2 million*

Nouveau: les coûts opérationnels sont éligibles au financement

Consolidate and scale up the [EOSC Portal](#) and its underlying service platform in order to:

1. Strengthen the [EOSC Portal](#) so that it continues to provide an increasing portfolio of high quality standard compliant and interoperable services of proven user interest and scientific relevance from a wide range of national, regional and institutional public research infrastructures in Europe as well as from commercial service providers in its catalogue
2. Reinforce the role of the marketplace as the access channel to integrated, composable and reliable services
3. Attract more users, within the research community and beyond, by enhancing the user experience and seamlessly accommodating their needs
4. Ensure its long-term sustainability taking into account all the relevant governance and business frameworks

Leveraging developments of [EOSC-hub](#) and other EU funded projects: INFRAEOSC-06-2019 (a), INFRAEOSC-05-2018 (a), INFRAEOSC-04-2018 and other relevant EU funded projects and initiatives

INFRAEOSC-03 Scope

- (A) Operation, maintenance and enhancement of the [EOSC Portal](#) (the website, the catalogue of services and the marketplace)
- (B) Fostering and enabling secure service composability
- (C) User enhanced experience using Artificial Intelligence (AI) techniques
- (D) Widening the EOSC user base
- (E) Widening the service offer with commercial services
- (F) Support Activities



INFRAEOSC-07: “Increasing the service offer of the EOSC portal”

“provide a catalogue that increasingly meets the researchers’ needs covering the full research life cycle”

1. long term provisioning of infrastructure capacity available in an on-demand
2. EGI IaaS, PaaS and SaaS services
3. Integration of EGI external portfolio with EOSC national projects-support capabilities
4. Integration with other e-Infrastructure services

(a1) Distributed and cloud computing resources enabling researchers and other users to process and analyse data in a distributed computing environment. The services should include, but not be limited to, running virtual machines on demand with complete control over computing services, executing compute and data-intensive workloads, analysing large datasets and executing parallel computing tasks, utilizing large amount of processing capacity over long periods of time, sharing resources and enabling collaborative research.



[Jean-Claude Burgelman](#) (DG-RTD):

Phase 1, until end of 2020:

- Commission will invest **EUR 300 million to support the core functions** of the EOSC as per milestones
- Member States would flag the **national initiatives that they want to federate into the EOSC** (e.g. the work of the [Helmholtz Data Alliance](#)); and the **resources they are willing to provide in kind**
- Research funders would start making **costs eligible for FAIR* data only**

Phase 2, after 2020:

- To explore a mix of funding including possibly deposit fees from national funders
- Based on a full cost estimate for the running of the EOSC, conducted by the EOSC governance framework in Phase 1



(presentation at the [EOSCpilot Stakeholder Forum](#), Vienna, November 21, 2018)

*FAIR: Findable, Accessible, Interoperable, Reusable

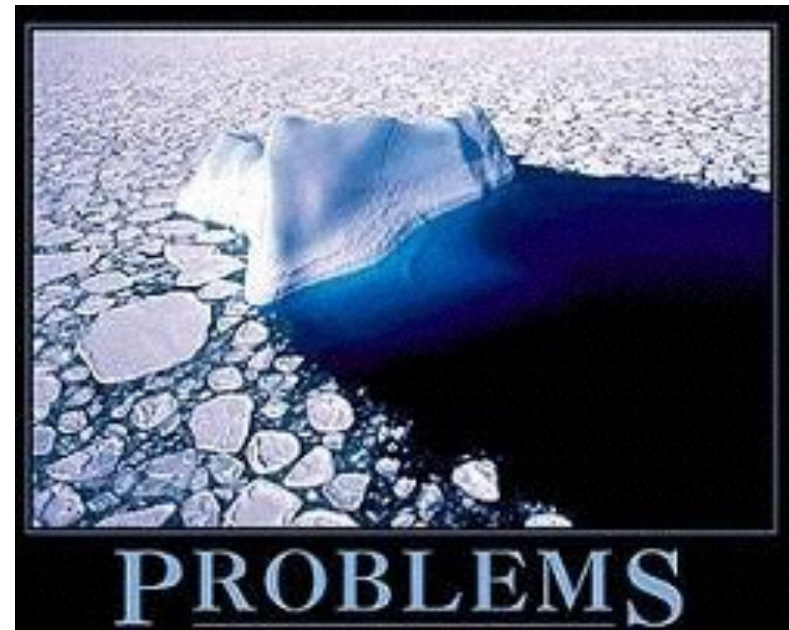
Activités clés: France

- [GoFair France](#), [Plan Science Ouverte](#)
- analyser ce qui est nécessaire: « comité besoin en calcul » → rapport cette année
- Atelier « Structuration et partage des données de recherche dans le cadre du Plan national pour la science ouverte », MESRI, 26./27.9.
- Restructurer l'infrastructure: labélisation data centre national / régional → approche modifiée
- *France Tier-2 / France Cloud*: Groupe de travaille cloud recherche. Evolution [France Grilles](#) (partenaires: CNRS, CPU, CEA, INRA, INRIA, INSERM, RENATER, MESRI)
→ *French Open Science Cloud*



Nouvelles France Grilles

- Convention GIS France Grilles jusqu'à fin 2019
- après 6 ans, Jérôme veut passer à d'autres tâches: chercher un(e) responsable technique France Grilles
- difficultés administratives: le budget du GF est géré différemment par le CNRS



- Evolution [France Grilles](#) (partenaires: CNRS, CPU, CEA, INRA, INRIA, INSERM, RENATER, MESRI)
- GIS France Grilles:
- Renouvellement convention 2020-2021
- Préparer feuille de route IR 2021-
- Intégration **nouvelles partenaires** (contribution importante), nouvelles **services**
- Evolution synchronisée avec EOSC (voir aussi groupe de travail CNRS – EOSC)
- Défis: RH, planification à long terme, forme juridique France Grilles



- Vision France Grilles: infrastructure calcul/stockage et services pour toutes les sciences en France

Points clés:

- assurer suffisamment **RH**
- contribution ETP plus importante que contribution financière
- construire une **perspective à long terme**, durabilité
- intégrer de **nouveaux services et infrastructures**
- **Soutien forte MESRI**



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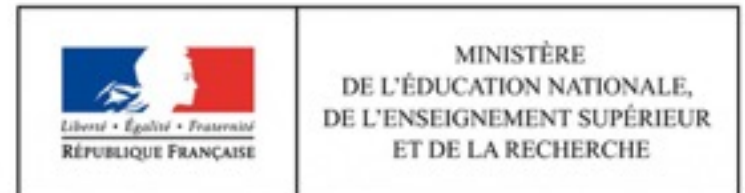
Merci de votre attention !

[Plan national pour la science ouverte](#) (July 2018)



Par exemple:

- Rendre obligatoire la **diffusion ouverte des données** de recherche issues de programmes financés par appels à projets sur fonds publics.
- Créer la fonction d'**administrateur des données** et le réseau associé au sein des établissements.
- Contribuer activement à la structuration européenne au sein du **European Open Science Cloud** et par la participation à **GO FAIR**.
- Généraliser la mise en place de **plans de gestion des données** dans les appels à projets de recherche





EOSC Executive Board:

- Chair [Karel Luyben](#) (representative of CESAER)
- Vice Chair: [Cathrin Stöver](#) (GEANT)

Representatives of organisations:

- [CESAER](#) (Karl Luyben) [Universities of Science & Technology in Europe]
- [CESSDA](#) ERIC (Ronald Dekker) [European Social Science Data Archives]
- [EMBL](#) (Rupert Lück) [European Molecular Biology Laboratory]
- [ESS](#) ERIC (John Womersley) [European Spallation Source]
- [GEANT](#) (Cathrin Stöver) [European network]
- [RDA](#) ([Juan Bicarregui](#)) [Research Data Alliance]
- [Science Europe](#) (Stephan Kuster)



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Individual Experts:

- [Sarah Jones](#)
- [Jean-François Abramatic](#)
- [Jan Hrusak](#)



J.-F.
Abramatic

EOSC projects time line

	2017	2018	2019	2020	2021	2022
EOSCpilot	█					
EOSC-Hub		█				
Openaire		█				
RDA/FREYA/etc		█				
INFRAEOSC-01			█			
INFRAEOSC-04			█			
INFRAEOSC-05 (Gov and Fair)			█			
INFRAEOSC-02				█		
INFRAEOSC-05 (RIA)				█		
INFRAEOSC-06				█		

Also Thematic Clouds

Beaucoup de possibilités pour nous de façonner le futur EOSC!

