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E2F PMs

We all act within the ESCAPE (extended) consortium and participate to the EOSC-Future WP6 global aims.



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FOCO F I MIDG (FCCA DE) I		
EOSC-Future WP6 (ESCAPE) by partner		
FAU	Kay Graf (kay.graf@fau.de)	16,50
CNRS-LAPP	Giovanni Lamanna (giovanni.lamanna@lapp.in2p3.fr), lan Bird (ian.bird@lapp.in2p3.fr)	47,00
CNRS-CPPM	Paschale Coyle (coyle@cppm.in2p3.fr)	6,00
CNRS-CDS	Mark Allen (mark.allen@ASTRO.UNISTRA.FR)	10,00
CERN	Simone Campana (simone.campana@cern.ch)	34,00
EGI LTP (NWO-ASTRON)	Michiel van Haarlem (haarlem@astron.nl), Zheng Meyer Zhao (meyer@astron.nl), Jason Hessel (hessels@astron.nl), John Swinbank (swinbank@astron.nl)	39,00
EGI LTP (NWO-Nikhef)	David Groep (davidg@nikhef.nl)	5,00
INFN	Tommaso Boccali (Tommaso.Boccali@cern.ch)	20,00
Scuola Normale PISA	Elena Cuoco (elena.cuoco@ego-gw.it)	24,00
Uni. Lund (CNRS-LAPP)	Caterina Doglioni (caterina.doglioni@cern.ch)	24,00
Uni Amsterdam	Gianfranco Bertone (gf.bertone@gmail.com)	24,00
Tot		249,50





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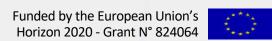
EOSC-Future WP6 (ESCAPE) by focus/task		
SKA (NWO)	24,00	
Km3Net (FAU, CNRS, INFN, NWO)	21,5	
CTA (CNRS)	23,00	
LHC (CERN, Lunds Uni., CNRS)	28,00	
Darkside (INFN)	10	
Virgo (Scuola Normale, INFN)	24	
GW/Astro. (G. Bertone, S. Markoff) (Uni. of Amsterdam)	24	
Consolidation ESCAPE-WP5 (NWO)	15,00	
Consolidation ESCAPE-WP4 Virtual Observ. (CDS)	10,00+1	.0 in WP9
Consolidation ESCAPE-WP1 Tech Coor (LAPP)	12,00	
Consolidation ESCAPE-WP3 (FAU & LAPP & Scuola Normale)	22	
Consolidation ESCAPE-WP2 (CERN)	18	
EOSC-Future Management (LAPP)	18	
	249,50	

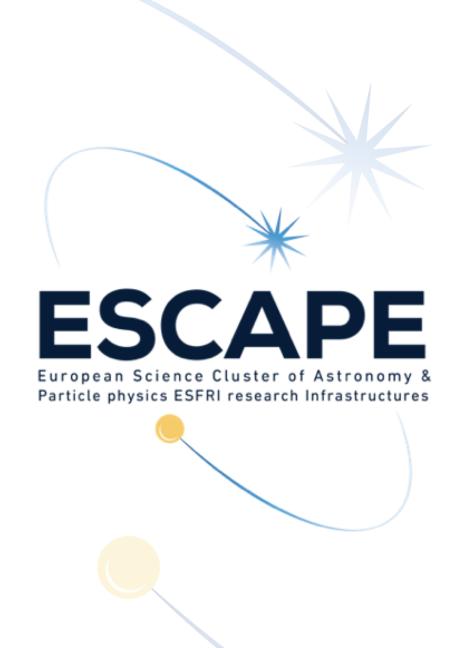


Further resources (PMs) not funded by EC are declared, expected or under discussions:

- INFN: postdoc and data scientists PMs
- LAPP/CNRS: postdoc and data scientists PMs
- Lunds University/C.D. team: postdoc PMs
- From other partners, e.g. CTAO/CTA Cons. (TBD)
- From other experiments, e.g. Nuclear physics (TBC)
- Cooperation with colleagues aiming to take part to the 2 corresponding JENAA EoIs and concerned by the ESCAPE Open-Science VRE.
- EOSC-Future partners (mainly pan-European e-infrastructures and national data centres)









Visible light Radio Gamma rays JIVE-EST VLBI ĦП **ESO CTA** SKA Gravitational Cosmic-rays Accelerator-based Accelerator-based Waves **Neutrinos Particle Physics Nuclear Physics** HL-LHC **EGO-VIRGO**

FAIR

ESCAPE

ESFRI

projects,

landmarks

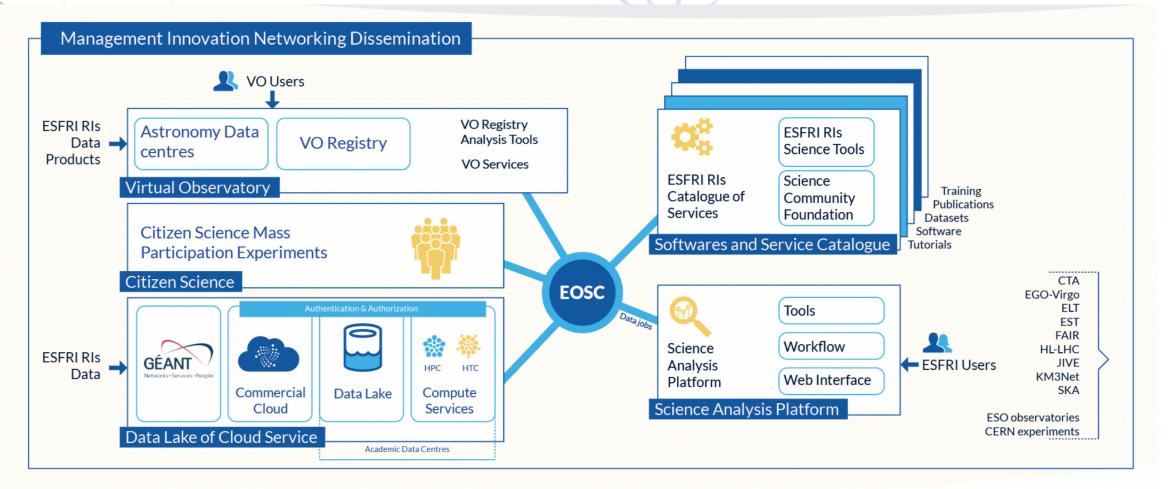
and a few

more RIs

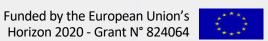
KM3NeT



ESCAPE final goal: building a community-based EOSC cell









ESCAPE Work Programme

Data Lake:

 Build a scalable, federated, data infrastructure as the basis of open science for the ESFRI projects within ESCAPE. Enable connection to compute and storage resources.



Software Repository:

 Repository of "scientific software" as a major component of the "data" to be curated in EOSC. Implementation of a community-based approach for the continuous development of shared software and for training of researchers and data scientists.



Virtual Observatory:

Extend the VO FAIR standards, methods and to a broader scientific context;
prepare the VO to interface the large data volumes of next facilities.



Science Platforms:

 Flexible science platforms to enable the open data analysis tailored by and for each facility as well as a global one for transversal workflows.



Citizen Science:

Open gateway for citizen science on ESCAPE data archives and ESFRI community









ESCAPE TSPs participating to the JENAA Eols

Dark Matter TSP:

- understand the nature of dark matter by collecting data, analysis pipelines and results from complementary astronomy, particle and nuclear physics sources on a broad platform that will be ultimately be hosted on the EOSC Portal.
- exploit synergies and complementarities across different communities, creating a unique link between dark matter as a fundamental science guestion and the Open Science ESCAPE services needed to answer it.

Extreme Universe TSP:

- do 'frontier' multi-messenger science to understand extreme matter and particle processes in strongly curved space-time.
- combine astronomy and e-infrastructures and focus on data organisation
- organise data from different wavelengths/messengers and different types of extreme astrophysical transients (SNe, GRBs, FRBs, TDEs) - so that they can be easily gathered, analysed and modelled holistically, and not remain fragmented as present.

Linked to two corresponding JENAA EoIs (with already about 1000 subscribed scientists)





"Gravitational Wave Probes of Fundamental Physics" - a cross-cutting initiative (EoI) in multidisciplinary projects at the interface between astroparticle, nuclear, and high-energy physics. In response to this call, we have prepared an open Eol on "Gravitational Wave Probes of Endorse this Expression If you'd like to endorse this initiative and be involved in further activities, please fill the form on the sid List of Endorser **Gravitational Wave Probes** of Fundamental Physics

> Funded by the European Union's Horizon 2020 - Grant N° 824064

