The De-RISC project addresses computer systems within the space and aviation domains. De-RISC Dependable Real-time Infrastructure for Safety-critical Computer is a proposed project where an international consortium will introduce a hardware and software platform based around the RISC-V ISA. The work proposed in this project is to productize a multi-core RISC-V system-on-chip...

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CompBioMed2 is a proposal for the second phase of the Computational Biomedicine Centre of Excellence (CoE), CompBioMed, an outward facing CoE comprising members from academia, industry and the healthcare sector. CompBioMed has established itself as a hub for practitioners in the field, successfully nucleating a substantial body of research, education, training, innovation and...

FORCeS: Constrained aerosol forcing for improved climate projections
CARLOS PEREZ GARCIA PANDO
The overall objective of FORCeS is to understand and reduce the long-standing uncertainty in anthropogenic aerosol radiative forcing, which is crucial in order to increase confidence in climate projections. These projections are highly relevant for decision makers, as they provide key information on emission pathways that will facilitate the targets of the Paris Agreement to...

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Translational Systemics (TranSYS) : Personalised Medicine at the Interface of Translational Research and Systems
NATASA PRZULJ

TranSYS will recruit 15 ESRs to highly skilled jobs in the new area of Systems Health developing tools and approaches to exploit large and complex datasets, to advance Precision (Personalised) Medicine in several disease areas. The training programme and experience of different international research environments cuts across traditional data and life sciences silos. The...

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EOSC-Synergy: European Open Science Cloud Expanding Capacities by building Capabilities
NADIA TONELLO
EOSC-synergy extends the EOSC coordination to nine participating countries by harmonizing policies and federating relevant national research e-Infrastructures, scientific data and thematic services, bridging the gap between national initiatives and EOSC. The project introduces new capabilities by opening national thematic services to European access, thus expanding the EOSC...

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SGOAB: Saint George on a bike
MARIA CRISTINA MARINESCU

Our proposed contribution to Topic 3 of the Generic Services Public Open Data call is motivated by what we perceive as an opportunity to provide a high-performance (cultural heritage) metadata enrichment capability
for the European Data Infrastructure. The service we propose focuses on images and the generation of detailed descriptions of their content. An image captures many...

**IoTwins: Distributed Digital Twins for industrial SMEs: a big-data platform**
FERNANDO CUCCHIETTI

The IOTWINS project will deliver large-scale industrial test-beds leveraging and combining data related to the manufacturing and facility management optimization domains, coming from diverse sources, such as data APIs, historical data, embedded sensors, and Open Data sources. The goal is to build a reference architecture for the development and deployment of distributed and...

**HIFI-TURB: HIGH-FIDELITY LES/DNS DATA FOR INNOVATIVE TURBULENCE MODELS**
ORIOL LEHMKUHL

The most significant challenge in applied fluid dynamics (covering aerospace, energy and propulsion, automotive, maritime industries, chemical process industries) is posed by a lack of understanding of
turbulence-dependent features and laminarto–turbulent transition. As a consequence, the design and analysis of industrial equipment cannot be relied upon to be accurate in...

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Exa-FireFlows: Exascale framework for supporting high-fidelity simulations of multiphase reacting flows in complex geometries
GUILLAUME HOUZEAUX

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GA4GH-Driver Project: Driver Project-Global Alliance for Genomics and Health
DAVID TORRENTS ARENALES
This project aims at supporting and enhancing modern oncology, by implementing a cultural, technological and legal integrated framework (EUCANCan) across Europe and Canada, for the efficient analysis, management and sharing of cancer genomic data. This cooperative framework is not only expected to immediately contribute to improve biomedical research in cancer, but to also...

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