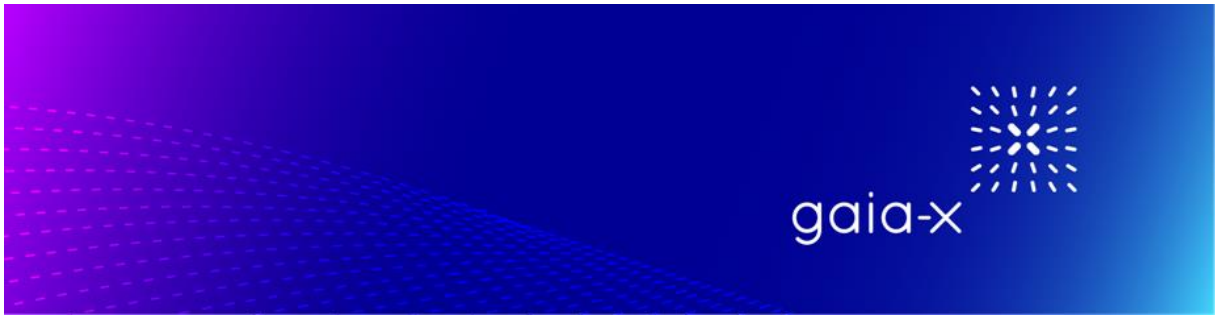
Gaia-X - European Association for Data and Cloud, AISBL
Avenue des Arts 6-9, 1210 Brussels, Belgium



19 September 2021

Funding Newsletter Issue|5

Dear members,

As customary in our regular newsletter, you will find new open general calls at EU level (mostly in the defence sector) and some others forthcoming, the public national calls and even flash news with respect to events related to our Association`s activity lines.

The Projects and Proposals Office (PPO) would like to draw your attention to a German national call on “Industry 4.0 – Gaia-X Applications in Value Networks (InGAIA-X)“.

The Federal Ministry of Education and Research (BMBF) has opened a call within the framework of the program "Future of Value Creation - Research on Production, Services and Work". German consortia are invited to integrate with foreign partners, so we invite all of you to find more information on page 8 of this issue and to contact us for any queries you may have with respect to this call.

Calls at EU level

Programme: Horizon Europe Framework

Reinforcing digitalisation related know how of local energy ecosystems
TOPIC ID: HORIZON-CL5-2021-D3-02-11 - Budget 4 million – Deadline 05 January 2022

Project results are expected to contribute to all the following expected outcomes:

- *Increased autonomy of local ecosystems to participate in the decentralisation of energy systems and energy transition;*
- *Increase the number of participants in flexibility markets;*
- *Cover the gap on knowledge around digitalisation of energy services and contribute to the reskilling & upskilling of individuals and organizations;*
- *Facilitate the creation of a network of parties interested in joining forces for public procurement of energy related digital services.*

Programme: European Defence Fund

1. Frugal learning for rapid adaptation of AI systems
TOPIC ID: EDF-2021-DIGIT-R-FL - Budget 18.5 million - Deadline 09 December 2021

In times of real-time information availability and exchange, and increasing complexity of situations, artificial intelligence (AI) has become an essential driver for new competitive system solutions. Future military capabilities will include a significant share of systems that will make massive use of AI techniques.

Modern AI systems based on Machine Learning and especially Deep Learning techniques usually require many labelled data points to reach acceptable performance. Furthermore, they can suffer from inconsistent behaviour, such as high-confidence failures, or failures in trivial cases. More generally, improving AI systems to consider new data requires extensive testing by expert developers to avoid regression. These issues severely impact their availability for defence systems, which are characterised by the lack of data, for instance when dealing with enemy intelligence, and by the need for trustable results and rapid adaptation, including from data that cannot be shared with system developers for confidentiality reasons or because of poor connectivity. This is especially important when the information to manage is highly variable or unpredictable and high adaptability is needed.

The challenge is to develop new Artificial Intelligence methods that are able to make use of less training data than current state-of-the-art deep learning algorithms while maintaining similar performance, to provide better control over the output space in order to ensure a more consistent behaviour, and to limit the development efforts when adapting systems to new data. These methods must prove their worth on realistic and challenging use cases representative of military operations.

2. Improving cyber defence and incident management with artificial intelligence
TOPIC ID: EDF-2021-CYBER-R-CDAI – Budget 13.5 million - Deadline 09 December 2021

This call seeks proposals that help increasing the level of automation in incident management and cyber defence activities through the use of AI. In this setting, the engagement of state-of-the-art AI methods should be used to automate incident management and cyber defence activities, including incident detection and response, carried out by security operation centres (SOCs), and cyber defence teams (or similar entities) when they detect and analyse events and determine what actions to take.

Modern SOCs are sometimes equipped with security orchestration, automation and response (SOAR) capabilities that allows human operators to respond to attacks with predefined "playbooks" designed to mitigate ongoing attacks, e.g. by disabling user accounts or reconfigure firewalls, where AI-based solutions seem applicable.

AI can, for instance, be used to complement rule-based detection methods (e.g. through deep learning), to enhance alarms from detection systems using threat intelligence feeds, extract actionable intelligence from the enormous amount of monitoring data and events, correlate alarms with other information to identify attack patterns, automatically respond to events based on the analysis, and recommend actions to human operators. Recent studies unveil that more than two thirds of the organisations included in the studies acknowledge that they are not able to respond to critical threats without AI.

3. Military multi-domain operations cloud
TOPIC ID: EDF-2021-DIGIT-D-MDOC – Budget 40 million - Deadline 09 December 2021

Military operations require higher flexibility and mobility to gain and maintain the initiative. The capability to securely, timely and robustly communicate over all battlespace domains is key for information superiority, mission management and decision support. Therefore, the development of a common shared Information Space with a "Cloud of Clouds" approach, leading to a Multi-Domain Operations Cloud (MDOC), is needed. The ambition is to combine existing and future systems into a federated network and collaborative services in order to enable and support Command and Control for multi-domain warfare. Furthermore, the data collected across domains will open up future opportunities to develop artificial intelligence (AI) enabled solutions for defence.

4. Development of a digital system for the secure and quick exchange of information related to military mobility
TOPIC ID: EDF-2021-PROTMOB-D-DMM – Budget 50 million - Deadline 09 December 2021

Timely and accurate logistic information and sharing is required for the efficient management and coordination of multinational logistic networks and hubs. Information management for

multinational logistics, including for Military Mobility related information, contributes to enhanced efficiency and effectiveness, notably to the reduction of overall costs and environmental footprint, flexibility of forces, improved interoperability and fair burden sharing between Member States or conservation of scarce local resources.

Other forthcoming EU calls to be out in October/November 2021 (more details to be given in due time)

1. AI for human empowerment (AI, Data and Robotics Partnership) (RIA)
   TOPIC ID: HORIZON-CL4-2022-HUMAN-01-01 - Budget 16 million – opening 23 November 2021

2. European Network of AI Excellence Centres: Expanding the European AI lighthouse (RIA) TOPIC ID: HORIZON-CL4-2022-HUMAN-01-02 - Budget 34.5 million – opening 23 November 2021

3. Internet architecture and decentralised technologies (RIA)
   TOPIC ID: HORIZON-CL4-2022-HUMAN-01-03 - Budget 22 million – opening 23 November 2021

4. eXtended Reality Technologies (RIA)
   TOPIC ID: HORIZON-CL4-2022-HUMAN-01-14 - Budget 19 million – opening 23 November 2021

5. eXtended Reality Learning - Engage and Interact
   TOPIC ID: HORIZON-CL4-2022-HUMAN-01-19 – Budget 21.5 million – opening 23 November 2021

6. Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM (CCAM Partnership) TOPIC ID: HORIZON-CL5-2022-D6-01-05 - Budget 12 million – opening 23 November 2021

7. Trustworthy artificial intelligence (AI) tools to predict the risk of chronic non-communicable diseases and/or their progression
   TOPIC ID: HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage - Budget 60 million – opening 6 October 2021

8. New methods for the effective use of real-world data and/or synthetic data in regulatory decision-making and/or in health technology assessment
   TOPIC ID: HORIZON-HLTH-2022-TOOL-11-02 - Budget 35 million – opening 6 October 2021

9. Digital tools to support the engineering of a Circular Economy (Made in Europe Partnership) (RIA) TOPIC ID: HORIZON-CL4-2022-TWIN-TRANSITION-01-07 -- Budget 22 million – opening 28 October 2021

10. Upscaling (real-time) sensor data for EU-wide monitoring of production and agri-environmental conditions TOPIC ID: HORIZON-CL6-2022-GOVERNANCE-01-11 - Budget 15 million – opening 28 October 2021

11. New technologies for acquiring in-situ observation datasets to address climate change effects TOPIC ID: HORIZON-CL6-2022-GOVERNANCE-01-07- Budget 20 million – opening 28 October 2021

National calls with international bidding

FRANCE

1. AI Learning Services For Space Systems Operations - Gt1i-311os

AI learning services for space systems operations: The objective of this activity is to develop an AI design algorithm design process in order to increase robustness of the AI and to develop a production process to allow industries to provide quality AI products.

Organisation: EUROPEAN SPACE AGENCY (ESA)

Address: ESA Head Office, 8-10 Rue Mario Nikis, 75738 Paris Cedex 15

Tel: +33-06-94180777 E-Mail: eohelp@esa.int Deadline: 4 October 2021

2. Provision of Artificial Intelligence for Augmented Reality in Satcom Assembly, Integration And Test (artes At 4a.084)

The objective of the activity is to increase the level of autonomy in decision making processes for quality assurance in telecommunication spacecraft assembly, integration and test (AIT). Targeted Improvements:

- *Enabling complex model processing by including artificial intelligence in augmented reality systems;*
- *Minimising the presence of a product assurance operator during AIT due to an intensive use of image recognition. Description: Artificial Intelligence (AI) in augmented reality systems can reduce significantly the AIT effort. The product assurance/quality assurance function could be covered by AI interacting with backstage experts. The AIT sequence could then be coordinated in real time to minimise the duration of the AIT campaign. Also, previous work has shown that only models with limited complexity can be efficiently processed with augmented reality systems by human operators. The use of AI will overcome these limitations and very*

complex models in augmented reality systems can then be processed. In this activity, an AI-based image feature recognition system shall be developed to interpret the data retrieved by a virtual reality set to validate assembly operations (mounting, dismounting, repairs, etc.). This AI module will shall be introduced into the connected to an augmented reality system. AI accelerators or other suitable hardware will be selected from existing commercial off-the-shelf products. The system will be capable of processing portions of the spacecraft full computer aided design (CAD) model. The system shall validate autonomously the correct execution of a procedure by comparing the CAD model with the physical status of the spacecraft after assembly. The effectiveness of the system will be quantified and demonstrated in a realistic environment with representative AIT procedures.

Organisation: EUROPEAN SPACE AGENCY (ESA)

Address: ESA Head Office, 8-10 Rue Mario Nikis, 75738 Paris Cedex 15

Tel: +33--06-94180777 E-Mail: eohelp@esa.int Deadline: 29 October 2021

3. Hpc6g: Modernization of Cnes Computing Platforms

The HPC6G project aims to renew the computing platforms (DL; DR-SF and Metrology) of the CNES Computing Center, while promoting the emergence of a new type of hybrid platforms between classic HPC and Cloud environment for analysis of data. The main mission is to provide sufficient computing power to meet the needs and uses of CNES and its partners.

Organisation: Centre national d'Etudes Spatiales

Address: 18 avenue Edouard Belin, Toulouse, 31041, France

Tel: +33 561273273 Email: melina.cocheteau@cnes.fr Deadline: 8 October 2021

GERMANY

1. Industry 4.0 – GAIA-X Applications in Value Networks (InGAIA-X)

With this funding guideline, the Federal Ministry of Education and Research (BMBF) is funding methods for the efficient development of interoperable modules and applications for cross-company data spaces based on GAIA-X within Industry 4.0 using transferable, generic tools, the systematic integration of artificial intelligence (AI)-including machine learning-based methods, semantic information models, which strengthen the digital collaboration of companies in the value network. The objective of the funding is the development, design and implementation of domain specific applications for cross-company data spaces to support product service and production service systems.
The projects are to develop tangible showcase-solutions for company-related applications which support a concrete development and application ecosystem for a data space to be defined in Industry 4.0.

For further information, please consult the call website and the call document (in German). For information in English, please click here.

Organisation: German Federal Ministry of Education and Research in the course of the

EUREKA programme

Contact: Projektträger Karlsruhe E-Mail: dorothee.weisser@kit.edu

Telephone: +49 721 608-26150 Deadline: 22 October 2021

2. System for AI Calculations (Single Server System) - € 252.000

The HAWK is planning to procure a system for AI calculations or a deep learning system. With the help of this system, special registration algorithms are to be processed in the medical technology sector. A single server system with the highest possible computing power is to be purchased. The computing power is to be made available mainly via GPU cards. Hardware support over 3 years must be included in the purchase price. In the event of a defect in the system to be procured, a qualified repair or replacement of the system will be carried out.

The procurement documents are available at:
https://vergabe.niedersachsen.de/Satellite/notice/CXQ6Y6DDHXT/documents

Organisation: HAWK HILDESHEIM HOLZMINDEN GÖTTINGEN

Address: Hohnsen 4, Hildesheim, 31134

E-mail: beschaffung.fibu@hawk.de Deadline: 27 September 2021

3. Hpc Cluster with 80 Computing Nodes, One Front-end Node and One Management Node. InfiniBand and 1 Gbit / S Ethernet are Selected for the Network

The procurement documents are available at:
https://www.dtvp.de/Satellite/notice/CXP4Y03R5CZ/documents

Organisation: KARLSRUHER INSTITUT FÜR TECHNOLOGIE

Address: Englerstraße 11 Geb. 11.40, Karlsruhe, 76131

Contact Person: Einkauf Verkauf Und Materialwirtschaft E-Mail: uwe.meichssner@kit.edu
Deadline: 27 September 2021

4. Civillent Gmbh - Highly Scalable Compute, Storage And Backup Resources on a Cloud Basis

The aim of the tender is to conclude a contract for the procurement of high-availability, horizontally and vertically highly scalable and elastic compute, storage and backup capacities within the framework of a cloud model.

Organisation: CIVILLENT GMBH

Address: Carl-Zeiss-Str. 15, Reutlingen, 72770

E-Mail: civillent-hyperscaler@menoldbezler.de Deadline: 11 October 2021

5. Advisory and Support Service for Expansion of the Cloud Infrastructure

Please find information on the tender here (in German).

Organisation: DEUTSCHE GESELLSCHAFT FÜR TECHNISCHE ZUSAMMENARBEIT (GTZ) GMBH

Address: Friedrich-Ebert-Allee 32 + 36 53113 Bonn

Tel : +49-228 44 60-0 E-mail: Rosa.Wolf@giz.de Deadline: 13 October 2021

6. Provision of Cloud Computing Services

Link to documents: https://www.dtvp.de/Satellite/notice/CXS0YRBYYMT/documents

Tenders or requests to participate must be submitted electronically via: https://satellite.dtvp.de/Satellite/notice/CXS0YRBYYMT

Organisation: UNIVERSITÄT DES SAARLANDES

Address: Postfach 15 11 50, Saarbrücken, 66041 E-Mail: vergabe@uni-saarland.de

Deadline: 8 October 2021

7. Framework Agreement Cloud Environment Open Stack - € 40.000.000

Framework agreement on scalable private cloud infrastructure based on OpenStack and Ceph, including software subscription and operating services.

The procurement documents are available at:
https://www.evergabeonline.de/tenderdetails.html?id=406421

Organisation: FREISTAAT THÜRINGEN VERTRETEN DURCH DAS THÜRINGER LANDESRECHENZENTRUM

Address: Ludwig-Erhard-Ring 8, Erfurt, 99099

E-mail: vergabe@tlrz.thueringen.de Deadline: 11 October 2021

8. Allocation of IT services and consulting services for portal, web solutions and apps, development and operation of a cloud and IT security for the state forest administration of Baden-Württemberg

Link to documents: https://www.dtvp.de/Satellite/notice/CXP4YMZRB3J/documents

Organisation: LAND BADEN-WÜRTTEMBERG (MINISTERIUM FÜR ERNÄHRUNG, LÄNDLICHEN RAUM UND VERBRAUCHERSCHUTZ)

Address: Kernerplatz 10, Stuttgart,70182

E-mail: MLR-IT-jagd-forst@menoldbezler.de Deadline: 8 October 2021

ITALY

1. Open procedure for the assignment of ICT services to an information-management platform that can be used in the cloud according to the Saas model (Software-as-a-service) for the library and document system – € 390.000

Link to documents: http://www.iuav.it/profilocommittente

Organisation: UNIVERSITÀ IUAV DI VENEZIA

Address: Santa Croce N. 191 Tolentini , Venezia, 30135

Contact Person: Laura Casagrande Tel: +39-0412571100

E-mail: ufficio.protocollo@pec.iuav.it Deadline: 11 October 2021

2. Supply of Data Center for High Performance Computing - € 3.590.628

Acquisition of a data center for high-performance computing and n or three high-performance computing systems.

Organisation : CONSIGLIO NAZIONALE DELLE RICERCHE — DIPARTIMENTO SCIENZE UMANE E SOCIALI, PATRIMONIO CULTURALE (DSU)

Address: Piazzale Aldo Moro 7, Roma, 00185 Tel: +39-0106598769

Email: marco.campani@cnr.it Deadline: 07 October 2021

NETHERLANDS

1. Market Consultation Artificial Intelligence models for the sewage water system in the province Limburg, The Netherlands - Pre-Commercial Procurement (PCP)

WBL aims to challenge the market through the planned PCP, to develop innovative solutions/algorithms to continuously analyse measured values and to convert these into

intelligent signals that tell whether and what has changed in the system. Because of the many different types of sensors in the field, WBL has a large amount of data to process in real time. The quality of the data must be monitored, and the structure of the data must be able to be changed easily and quickly, thus increasing the value of (big) data for WBL. This will allow for more efficient planning of inspection and maintenance rounds and eventually lead to efficiency gains and cost reduction.
Organisation: WATERSCHAPSBEDRIJF LIMBURG

Address: Maria Theresialaan 99, 6043 Cx

E-mail: wblpcp@wbl.nl Tel: +31-888420000 Deadline: 06 October 2021

SPAIN

1. Licensing, Migration, Implementation And Support Of A MySQL Database Availability System

The object of the contract is the implementation of a system of high availability of MySQL databases, the migration of databases from the current non-clustered environment and the provision of licenses by the manufacturer plus the procurement of %an advanced support service for the InnoDB Cluster 8 (MySQL) database management system to be implemented in the City Council.
Organisation: AJUNTAMENT DE TARRAGONA

Address: Plaça de la Font 1 43003 Tarragona E-Mail: contractacio@tarragona.cat

Tel: +34-977296100 Deadline: 30 September 2021

2. Provision Of Project Office Specialized In Ssii With The Treatment Of Mass Data, Ss Of Business Intelligence and Artificial Intelligence, Methodologies and Associated Processes For Sandetel (EXPT21-00119) - € 1.620.000

The procurement documents are available at:
https://juntadeandalucia.es/temas/contratacion-publica/perfiles-licitaciones/perfiles-contratante/detalle/EICE21.html

Organisation: Sociedad Andaluza para el Desarrollo de las Telecomunicaciones, S.A

Address: Camino de los Descubrimientos, 17 41092 Sevilla

Contact person: ISABEL MORENO LORENTE

E-mail: licitaciones.sandetel@juntadeandalucia.es Tel: +34 954544427

Deadline: 15 October 2021

3. Provision of Digitalization Services of Medical Records and Legal Destruction and Management and Custody of Medical Records and Documentary Units, Respectful with the Environment, for the HGUE - € 3.143.976

The procurement documents are available at:

https://contrataciondelestado.es/wps/poc?uri=deeplink:detalle_licitacion&idEvl=HFF8fueByOiXQV0WE7lYPw%3D%3D

Organisation: Departamento de Salud de Elche. Dirección Económica-Gerencia

Address: Camí de L' Almàssera, 11, Elche, 03203

E-mail: contratacion_elx@gva.es Tel: +34 966616184 Deadline: 29 September 2021

SWEDEN

1. Chatbot To Enköping Municipality

The municipality requests a Chatbot with AI for Enköping municipality's website.
The requested system must be a standard system that is sold or offered on the market.
The system must be delivered as a service where the tenderer has an overall responsibility for both operation, support, provision and functionality.

Organisation: ENKÖPINGS KOMMUN (212000-0282)

Address: Linbanegatan 12, Enköping 74534

Contact person: Mikael Ahlqvist

E-mail: mikael.ahlqvist@enkoping.se Deadline: 27 September 2021

Upcoming Events

The World Edge Developers Conference October 12 - 15
Free registration at:
https://www.edgecomputingworld.com/?qclid=Cj0KCQjwv5uKBhD6ARIsAGv9a-zXaqFck7DPdIQD_1w3rU3sN88n1dOXtfxd0T37Nr6pw00-zbFzGQoaAiqUEALw_wcB

Digital Around the World 2021 October 20 – 21
More information on: *https://digitalaroundtheworld.org/*

The European Big Data Value Forum November 29 – December 3
Check the site: https://www.ngiot.eu/event/the-european-big-data-value-forum/?instance_id=172

Until our upcoming newsletter,
My warmest regards,

Jeanette Fava

CFO|Gaia-X AISBL

Email: jeanette.fava@gaia-x.eu