Σ **smart**
advanced manufacturing

aLL-i **X**
Innovative Design Technology

smart
advanced manufacturing

ORGANISATION PROFILE

aLL-i@MOveO Ltd.
Company number :12731297
Personnel,
The team consists of highly skilled subject matter experts and master developers who have expertise in relevant areas such as platform development, solid mechanics, and mechanical integrity..

In addition to the core team below, the consortium has formed partnerships with subcontracting partners such as Google Cloud Platform, Microsoft AI, Meta AI, Open AI, and Hugging Face. Each partner brings unique skills and experience that complement the project.

The consortium is also open to considering any recruitment needs to complement its existing skillset and ensure that all necessary expertise is available for the successful completion of the project.

1. Cuneyt Ozturk - aLL-i Master Platform Developer: As the lead developer of the aLL-i Dream Enabler platform, Cuneyt Ozturk is responsible for its development and management. His expertise in multi-architecture design and development ensures the effective integration of advanced concepts and technologies into the platform.
2. 2. Dr. Abhiji Joshi - Subject Matter Expert on Solid Mechanics: Dr. Abhiji Joshi brings extensive knowledge and experience in solid mechanics to project.
3. Dr. Ramesh Rajasekaran serves as the project's Business Ambassador and Subject Matter Expert on Mechanical Integrity. His main responsibility is to provide expertise in mechanical integrity, ensuring the reliability and efficiency of the project's components.

Size, 3 -10

Products/Services/Technical areas and R&D project expertise.
The aLL-i X design accelerators aims to revolutionize the concept design of advanced aerospace vehicles by focusing on alternative, high-powered all-electric propulsion system concepts, as well as innovative fuel cell and battery designs. Using GPT technologies, engineering expertise, and cutting-edge technologies on a multi-architectural platform within the cloud, our objective is to develop innovative design technology that accelerates high-performance all-electric propulsion and power systems

PROPOSAL INTRODUCTION (I)

Vision: The main goal of the aLL-i X design accelerator is to revolutionize the concept design of advanced aerospace vehicles by focusing on alternative, high-powered all-electric propulsion system concepts, as well as innovative fuel cell and battery designs. The accelerator aims to develop innovative design technology that accelerates high-performance all-electric propulsion and power systems. Special emphasis is placed on enhancing fuel cells and advancing battery technology to create powerful all-electric propulsion systems and sustainable power sources for aviation and aerospace applications. The ultimate objective is to create greener, more efficient, and sustainable propulsion systems for the aerospace industry.

Motivation: The main motivation of the aLL-i X design accelerator technology is to revolutionize the concept design of advanced aerospace vehicles. By focusing on alternative, high-powered all-electric propulsion system concepts, as well as innovative fuel cell and battery designs, the accelerator aims to accelerate the development of high-performance all-electric propulsion and power systems. Utilizing GPT technologies, engineering expertise, and cutting-edge technology on a multi-architectural platform within the cloud, the objective is to create innovative design technology that enhances fuel cells, advances battery technology, and enables the creation of powerful all-electric propulsion systems and sustainable power sources for aviation and aerospace applications. Overall, the primary motivation of the accelerator is to drive innovation, efficiency, and sustainability in the aerospace industry.

Content: The aLL-i X design accelerator project aims to revolutionize advanced vehicle and vessel design by focusing on high-powered all-electric propulsion systems, fuel cell and battery advancements, and sustainable power sources. The project envisions developments in all-electric propulsion systems for aerospace, automotive, and marine applications, integration of renewable energy sources, optimization of fuel cell and battery designs, integration of artificial intelligence and machine learning, lightweight materials and structures, enhanced energy management systems, sustainable manufacturing processes, and collaborative industry partnerships. These developments aim to enhance efficiency, sustainability, and performance in the aerospace, automotive, and marine power sectors.

PROPOSAL INTRODUCTION (II)

Expected outcome: The aLL-i X design accelerator project aims to achieve several outcomes, including the development of advanced all-electric propulsion systems for aerospace, automotive, and marine applications, optimization of fuel cell and battery designs, integration of renewable energy sources, enhanced efficiency and sustainability through lightweight materials and energy management systems, fostering collaboration and knowledge sharing with industry stakeholders, and successful commercialization and industry adoption of the developed technologies. These outcomes seek to drive innovation, sustainability, and efficiency in the transportation sector, promoting the widespread implementation of advanced and sustainable propulsion systems and power sources**.**

Impacts: The expected market impact of the aLL-i X design accelerator project can be significant. By developing advanced all-electric propulsion systems, fuel cell and battery designs, and sustainable power sources, the project can drive the adoption of greener and more efficient technologies in the aerospace, automotive, and marine industries. This can lead to a shift towards more sustainable transportation options, reduced carbon emissions, and improved energy efficiency. The market impact may include increased demand for electric vehicles, vessels, and aircraft, growth in the renewable energy sector, and the emergence of new business opportunities and partnerships. Overall, the project's market impact can contribute to a more sustainable and innovative transportation industry.

Schedule: Start 01/01/2024
End 01/06/2026
Duration 18 Moth

PARTNERS

Current

The All-i project team for this project is comprised of a combination of highly skilled subject matter experts and All-i master developers, supported by specialist technical expertise from subcontractors such as Google Cloud Platform, Microsoft AI, Meta AI, OpenAI, and Hugging Face, as well as newly recruited software engineers and a communication manager. The team is well-rounded and has clear track record in managing research and development projects, with well-defined objectives and responsibilities. Furthermore, the team includes experts from All-i's subcontracting partners, such as Google Cloud Platform, Microsoft AI, Meta AI, Open AI and Hugging Face, to leverage advantages offered by each partner. This consortium will be able to draw on skills and experience of each partner to create innovative and revolutionary aerospace offerings.

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Google Cloud Platform, USA/UK, London EC4A 3TW

Microsoft AI , Microsoft USA/UK , Reading, RG6 1WG

Open AI , Open AI USA/UK, London SE1 7TL

META AI , META USA/UK, London KT2 6LX

Hugging Face . Hugging Face USA/UK, London

Partner search:

The project seeks partnerships with various expertise and technology providers. These include fuel cell manufacturers to leverage their knowledge in fuel cell design, operation, and optimization. Data analytics and machine learning experts are also sought for developing advanced algorithms for fuel optimization. Cloud computing providers are needed to build and maintain a scalable and secure cloud infrastructure. Software development companies are sought to design a user-friendly interface and ensure smooth operation. Quantum computing experts can be partnered with to explore innovative solutions. Systems integration specialists are needed for seamless integration with various systems. Collaborating with sustainable energy engineering organizations can contribute to broader sustainability goals. By partnering with these experts, the project aims to create a comprehensive and effective solution, promoting energy efficiency and reducing environmental impact.

CONTACT INFO

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