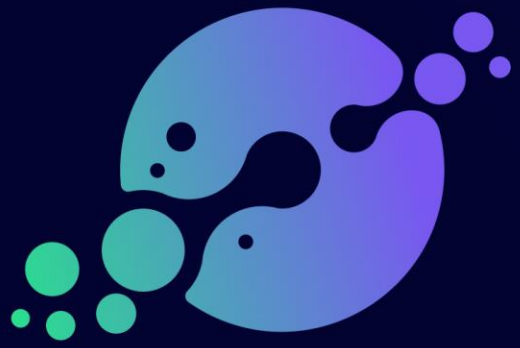


HYPER-AI

Revolutionising big data applications with autonomous cloud-to-edge resources

What is HYPER-AI? Overview & Context

Thanasis Moustakas, CERTH

What is HYPER-AI?

Title:

- HYPER-AI: Hyper-Distributed Artificial Intelligence Platform for Network Resources Automation and Management.

Overview:

- A cutting-edge project that develops a hyper-distributed AI platform.
- Aims to automate and optimize network resource management across IoT, Edge, and Cloud layers.

Innovative Approach:

- Utilizes "swarmed computing" and autonomic systems to enhance scalability and efficiency.

Identity Card

Project Name	Hyper-Distributed Artificial Intelligence Platform for Network Resources Automation and Management Towards More Efficient Data Processing Application
Project Number	101023666
Call	HORIZON-CL4-2023-DATA-01
Topic	HORIZON-CL4-2023-DATA-01-04
Type of action	HORIZON-RIA
Project starting date	01 April 2024
Total Budget	4,668,912.50 (EU), 1,585,546 (CH), 206,875 (S.Korea)
Financing Scheme	Lump Sum
Project Duration	36 months
Consortium	8 countries 15 partners in total = 12 from EU + 2 from CH + 1 International partner

Main objectives

- Enabling seamless, intelligent, and hyper-distributed data management.
- Facilitating collaboration between cloud, edge, and IoT infrastructures.
- Empowering diverse industries through advanced AI and data-driven insights.
- Enhancing operational efficiency across European data ecosystems.
- Supporting secure and decentralized data sharing and processing.
- Driving innovation in AI-driven automation, optimization, and resilience.

Importance and expected Impacts

Importance:

- Aligns with EU's strategic goals for digital transformation and sustainable development.
- Focuses on advancing digital technologies to improve data processing and resource management.

Expected impacts:

- Improved European leadership in the global data economy.
- Maximized social and economic benefits from wider and more effective use of data.
- Reinforced Europe's ability to address urgent societal challenges like crisis management and clean energy.

Partners

- ETHNIKO KENTRO EREVNAS KAI TEXNOLOGIKIS ANAPTYXIS https://www.certh.gr/
- TELEFONICA INVESTIGACION Y DESARROLLO SA https://incognito.socialcomputing.eu/telefonica-investigacion-y-desarrollo-sa-spain/
- ECLIPSE FOUNDATION EUROPE GMBH https://www.eclipse.org/europe/
- ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON https://www.uoa.gr/
- VIRTUAL VEHICLE RESEARCH GMBH *https://www.v2c2.at/*
- ODIN SOLUTIONS SOCIEDAD LIMITADA *https://odins.es/*
- SABO SA *https://el.sabo.gr/*

Partners

- TRUST-IT SRL *https://www.trust-itservices.com/*
- Commpla Srl (Affiliated to TRUST-IT *https://commpla.com/*
- TECHNOLOGIKO PANEPISTIMIO KYPROU *https://www.cut.ac.cy/*
- EBOS TECHNOLOGIES LIMITED*https://ebos.com.cy/*
- AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
- *https://www.enea.it/it*
- CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT *https://www.csem.ch/fr/*
- HAUTE ECOLE SPECIALISEE DE SUISSE OCCIDENTALE *https://www.hes-so.ch/accueil*
- SUNDOSOFT LTD http://www.sundosoft.co.kr/eng/main/main.html

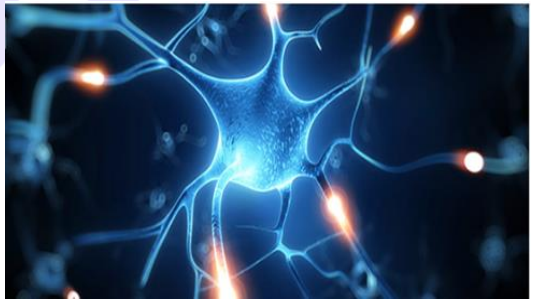
Project use cases

Industry 4.0 (Manufacturing)

Mobility and Automotive

Farming and Agriculture

Green Energy



Healthcare

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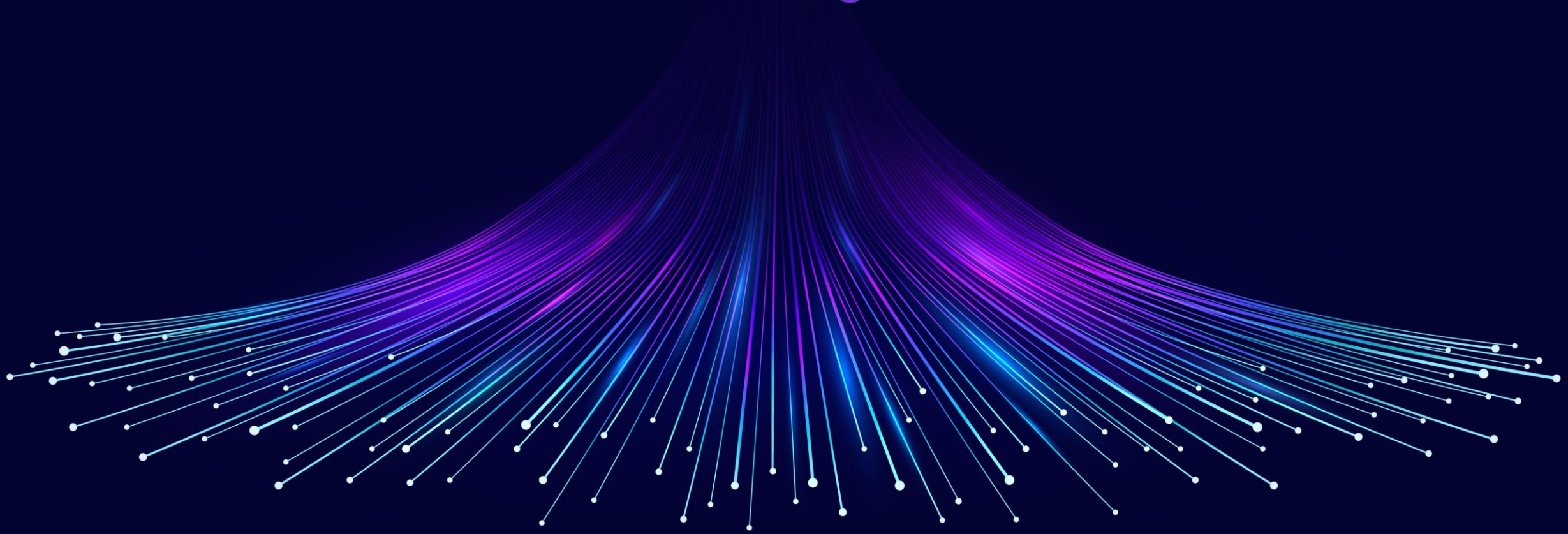
Thank you