

IN A NUTSHELL

The overall vision of MANOLO is to deliver a complete and trustworthy stack of algorithms and tools to help AI systems reach better efficiency and seamless optimization in their operations, resources and data required to train, deploy and run high-quality and lighter AI models in both centralised and cloud-edge distributed environments.

PROJECT OBJECTIVES

- A next-generation Hardware-aware optimisation for trustworthy efficient AI
- Reduction of environmental footprint
- New business models for cloud-edge continuum AI software and hardware
- New guidelines for trustworthy efficient AI systems & edge autonomy
- Use of open-source and benchmarks for promoting excellence

PROJECT PARTNERS

	Ireland's Centre for Applied AI University College Dublin www.ceadar.ie	Ireland
	Uni. Politecnica de Catalunya www.upc.edu	Spain
	Bull https://www.bull.com/en/	Spain
	Technische Uni. Braunschweig https://www.tu-braunschweig.de/en/	Germany
	National Center for Scientific Research "DEMOKRITOS" https://www.iit.demokritos.gr/	Greece
	Four Dot Infinity https://fourdotinfinity.com/	Greece
	Fraunhofer Institute for Integrated Circuits IIS https://www.iis.fraunhofer.de/en.html	Germany
	National Institute for Research in Digital Science and Technology https://www.inria.fr/en	France
	UPSaclay Uni. Paris-Saclay https://www.universite-paris-saclay.fr/en	France
	Arcada Uni. of Applied Sciences https://www.arcada.fi/en	Finland
	Katholieke Uni. Leuven https://www.kuleuven.be/citip	Belgium
	Laurea-Ammattikorkeakoulu OY https://www.laurea.fi/en/	Finland
	Pal Robotics PL https://pal-robotics.com/	Spain
	BIT & BRAIN Technologies SL https://www.bitbrain.com/	Spain
	ARX. NET S.A. https://arx.net	Greece
	Q-PLAN International Advisors PC https://qplan-intl.gr/	Greece
	EIT DIGITAL https://28digital.eu/	Belgium

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IMPACT

-  **Scientific:** Breakthrough progress for trustworthy efficient AI systems.
-  **Economic/Technological:** Decreased device costs, increased trustworthiness, and edge autonomy pave the way for new business models.
-  **Societal:** New guidelines for the implementation and operation of trustworthy efficient AI systems.
-  **Societal:** Catalyst in Nurturing and Harnessing EU talent
-  **Environmental:** Reduction of AI systems environmental footprint.

Project Identity

Project title:

Trustworthy Efficient AI
for Cloud-Edge Computing

Grant Agreement No: 101135782

Start: 1 January 2024

Duration: 36 months

Budget: € 8.605.772,50

Find Out More

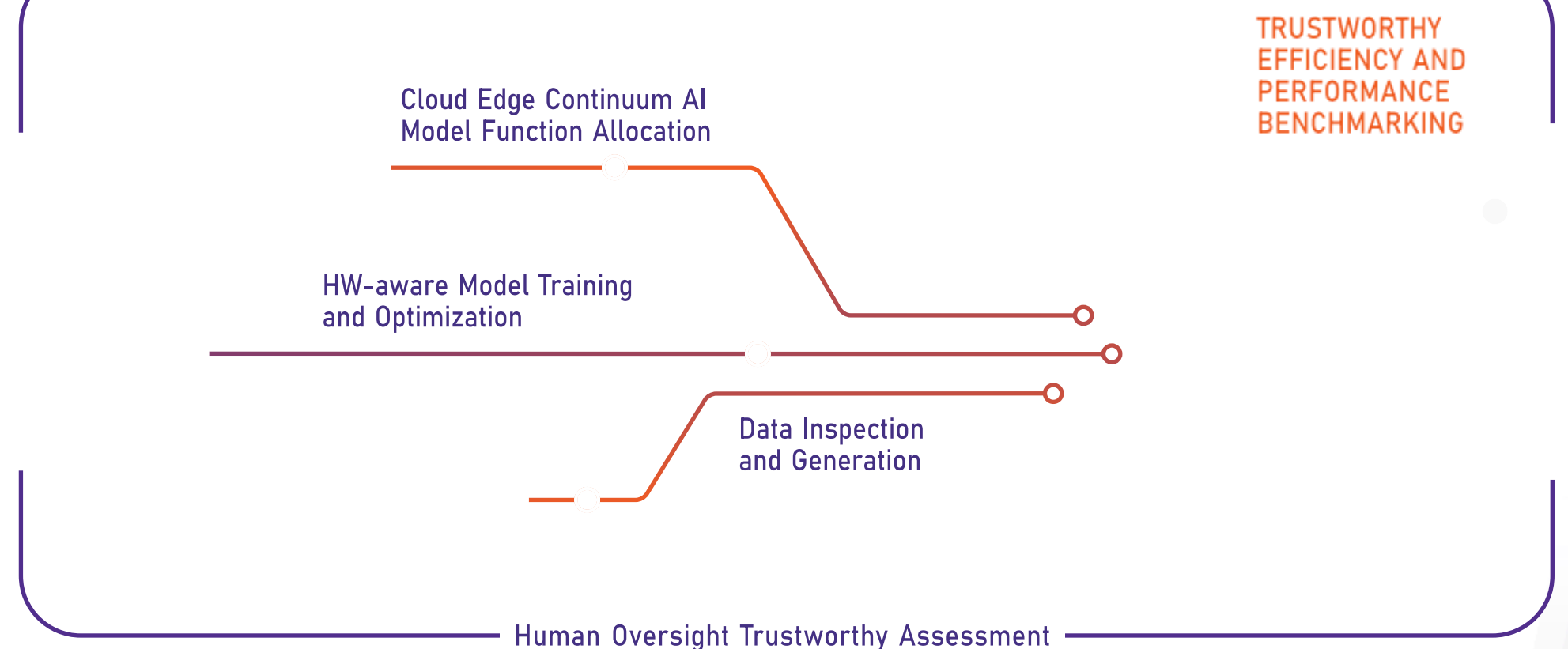
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THE MANOLO CONCEPT



INDUSTRIAL USE CASES

