



About ENACT

The ENACT project aims to create a Cognitive Computing Continuum (CCC) to optimize the management of edge and cloud resources.

This initiative addresses the needs of next-generation digital services like the metaverse and autonomous mobility. By developing dynamic graph models and AI tools, ENACT will enhance real-time data processing and resource management. The project introduces an intelligent decision-making engine to improve application deployment, supported by an innovative Application Programming Model and Software Development Kit.

These solutions will enable distributed, platform-agnostic applications, validated through demanding use cases, ensuring Europe's digital sovereignty and enhancing content consumption across various platforms with high efficiency and performance.

ENACT has started the 1st of January of 2024 and will last 36 months

5M€ EU CONTRIBUTION	17 PARTNERS	9 COUNTRIES
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Objectives

ENACT will provide innovative techniques and disruptive technologies to dynamically discover and utilize edge and cloud infrastructure, enabling the design and development of distributed applications that efficiently leverage various compute and storage resources across the compute continuum.

Optimize execution of distributed applications, balancing compute swarm needs across the CCC	Deploy and execute distributed applications based on context, resources, and autonomous reconfiguration	Enable decentralized coordination of hyper-distributed applications for transparency, autonomy, and resource optimization
Provide tools for intelligent applications that learn from developing nodes in the compute continuum	Establish mechanisms to boost ENACT continuum adoption by multi-domain and various-sized companies	
Validate ENACT tools in real-world scenarios for efficient management and processing of distributed resources	Foster a competitive European software industry through knowledge exchange and community building	

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3 Use Cases in key areas for demonstration and validation



Distributed Media and Entertainment Content Management



Production and distribution of media content for cultural heritage and tourism sector



Hyper-Distributed Data Processing for Mobility Digital Twin Initiative

Consortium

Project leader:



Consortium members:

