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UNLOCK-CEI overview and its role
in the EUCEI ecosystem

A European Commission research and innovation initiative that aims to:

- Realise a pathway for the **understanding and development of the Cloud, Edge and IoT Continuum**
- By promoting **cooperation** between a wide range of research projects, developers and suppliers, business users and potential adopters of this new technological paradigm.
- Support the definition and development of **large scale pilots**



Cloud



Edge



IoT



EUCloudEdgeIoT.eu



The CSAs behind EUCEI

Open Continuum

Sep 2022 – Aug 2024

Focus on supply side of the computing continuum landscape



Atos



Trialog

UNLOCK-CEI

Jun 2022– Nov 2024

Focus on demand side of the computing continuum landscape



EUCEI TASK FORCES



Strategic Liaisons



Open Source Engagement



Architecture



Ecosystem Engagement



Market & Sectors



Communications

Task Force 1

Open Continuum INSIDE

Liaison with EU initiatives

Interactions with AIOTI/ECS/Gaia-x, etc.

Share results of strategic analysis

Identification of common ground for the computing continuum

Task Force 2

Open Continuum ECLIPSE

Strategy for European digital autonomy in edge-to-cloud through Open Source

Contribute to the definition of a common open architecture for the computing continuum

Task Force 3

Open Continuum EVIDEN

Taxonomy definitions

Enable the architectural discussion among projects in the area of IoT/Edge and Cloud to create a continuum.

Identification of the thematic areas and building blocks.

Task Force 4

UNLOCK-CEI BLUSPECS

Coordination of Open Calls activities

Definition of commercial pilots

Commercial relationships and workshops

Task Force 5

UNLOCK-CEI IDC

Demand market adoption, drivers and challenges

Use-cases characterisation

Definition of relevant value chains

Sector specific needs and requirements

Commercialisation support

Task Force 6

Open Continuum & UNLOCK-CEI Martel & Trust-IT

Joint branding and community

Coordination of Common events

Amplification of RIAs activities

Sustain a continue debate on CEI continuum



Cloud Computing

- SERRANO
- CHARITY
- PHYSICS
- DataCloud
- SPRINT

Next Generation IoT

- IntellIoT
- VEDLIoT
- IoT-NGIN
- TERMINET
- enious
- assist-iot

META-Operating Systems

- aerOS
- ICOS
- NEMO
- FLUIDOS
- nebulous
- nephele

Cognitive Cloud

- AC3
- DECICE
- CLOUDSKIN
- EDGELESS
- CODECO
- Sovereign EDGE.EU
- COGNIFOG
- ML SysOps
- ACES

Swarm Intelligence

- INCODE
- SMARTEDGE
- TaRDIS
- OpenSwarm
- OASEES

Open Source for Cloud Services

- Riser
- OpenCUBE
- AERO
- VITAMIN V

Software Technologies

- XANDAR
- PIACERE
- FOCETA
- VeriDevOps
- ELEGANT
- COSMOS

Cognitive Computing Continuum

- Swarmchestrator
- COGNET
- EMPYREAN
- HYPER-AI
- INTEND
- ENACT
- MYRTUS

& More

- TEADAL
- TRANSACTION
- Spade
- TRUSTEE
- EMERALDS
- MobiSpaces
- CROSS-CON

Initiatives

- gaia-x
- Nexus FORUM.EU
- Alliance for IoT and Edge Computing Innovation
- HiPEAC
- NESSI
- EUROPEAN ALLIANCE FOR INDUSTRIAL DATA, EDGE AND CLOUD
- ECCO

59 Projects and initiatives are part of the EUCEI community

A glimpse of CEI market

Cloud	Edge	IoT
Spending in 2024 EUR 136 bn	Spending in 2024 EUR 40 bn	Spending in 2024 EUR 209 bn
CAGR to 2028 20.8%	CAGR to 2028 14.1%	CAGR to 2028 10.8%



Expected European **Enterprise Edge spending** in Europe in 2028 approaching
€ 77 Bn

European Cloud, Edge and IoT Market Size (Source: IDC Spending Guides and Trackers, May 2024)

UNLOCK-CEI vision and objectives

UNLOCK-CEI's ambition is to facilitate and accelerate the **deployment of the Cloud-to-Edge-IoT (CEI)** computing continuum in Europe by focusing on the **demand-side drivers and challenges** to identify **technology-driven innovation** and **business opportunities** driving demand value chains.



Assessment of
CEI demand
landscape



Define market
scenarios and
guidance



Activate CEI
Industry
Constituency



Coordination and
interaction with
supply side



Awareness
and impact
generation



Agriculture



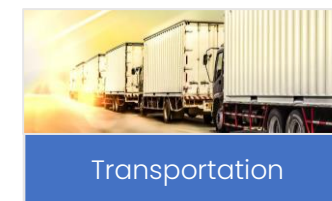
Energy (Utilities, Oil and
Gas)



Healthcare



Manufacturing



Transportation

PUBLICATIONS AND CATALOGUES



7 Reports on
CEI market
analysis, service
requirements,
pathways and
value chains



**11 CEI success
stories**

Empowering Smart Education: Cloud-Edge-IoT
solutions for Sustainable Energy Management.



8 white papers
on CEI sector-
based value
chains, Market
gaps,
architecture and
skills



**2 Use-case
catalogues** for
Meta-OS and
cognitive cloud

Key activities and outcomes

WORKSHOPS & EVENTS



10 value chain adopters workshops



HE Calls 2024 Info & Brokerage Event



5 market insights webinars



Sessions in signature events



4 supply-demand workshops



Joint events with other initiatives



2 Online Open calls events

INDUSTRIAL STAKEHOLDERS



EU INITIATIVES



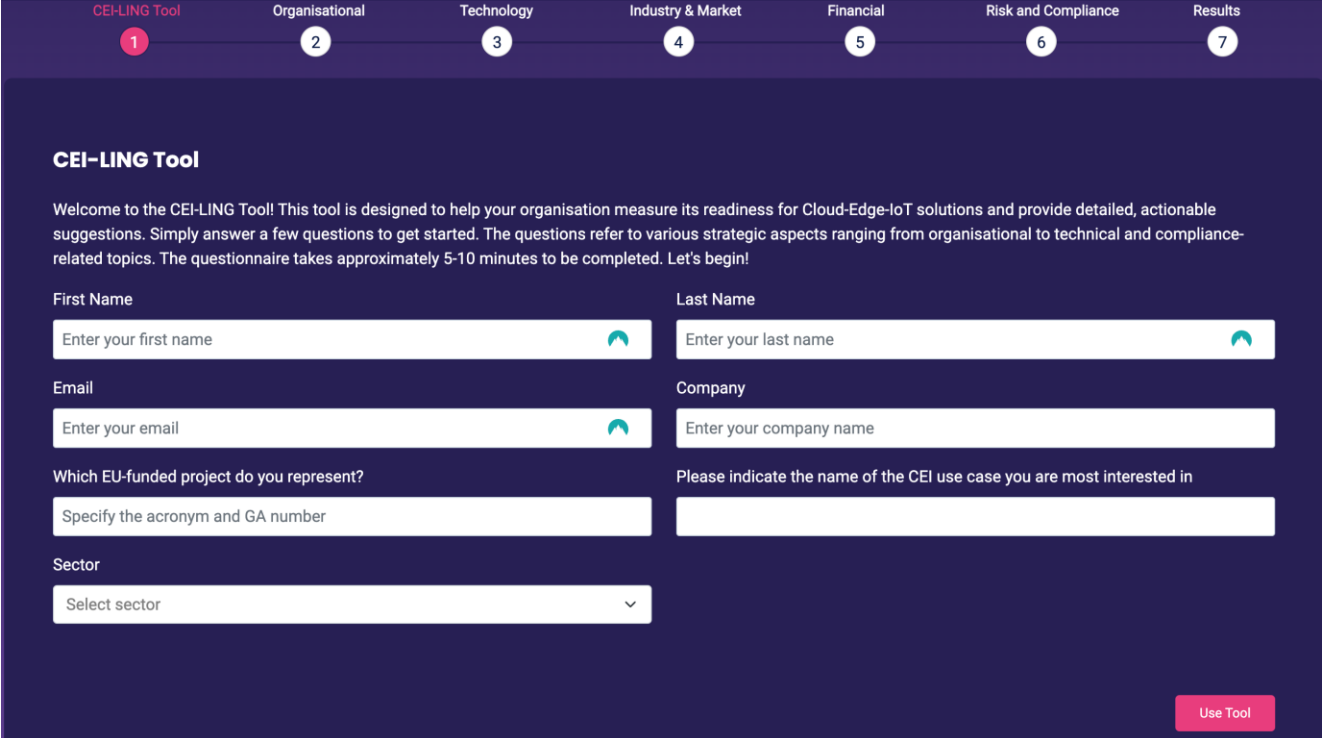
Key activities and outcomes

TOOLS

Demand side radar



CEI-LING tool



CEI-LING Tool

Welcome to the CEI-LING Tool! This tool is designed to help your organisation measure its readiness for Cloud-Edge-IoT solutions and provide detailed, actionable suggestions. Simply answer a few questions to get started. The questions refer to various strategic aspects ranging from organisational to technical and compliance-related topics. The questionnaire takes approximately 5-10 minutes to be completed. Let's begin!

Progress: 1 (Active) | 2 | 3 | 4 | 5 | 6 | 7

First Name:

Last Name:

Email:

Company:

Which EU-funded project do you represent?

Please indicate the name of the CEI use case you are most interested in

Sector:

[Use Tool](#)

- Insights on CEI market forecast, challenges and opportunities to the supply side to better position their solutions for future exploitation
- Support the supply side by providing feedback from market players to supply side regarding the market evolution and use-case
- Insights on market feasibility of the supply-side technologies

Access our results!





EUCloudEdgeIoT.eu



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Funded by
the European Union