

Unlocking 5G MEC Potential

Challenges, Risks, and Opportunities for EU Digital Infrastructure

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5GMEC4EU: Who are we?



<https://5gmec4.eu/>



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5GMEC4EU in a Nutshell

Project Duration: **30 Months**

Project Start: **January 2024**

Consortium: **Monotch & Detecon**

Funding: **CEF Digital**

Managed by: **HaDEA**

Type: **Coordination & Support Action (CSA)**

Main Stakeholders: **5G Smart Communities & 5G Corridors**

The **5GMEC4EU** project supports the establishment of a “**Connected Collaborative Computing**” – “**3C Network**” to align 5G infrastructure and share knowledge across stakeholders. It supports **5G Smart Communities** and **5G Corridors** in implementing **edge computing** through their 5G projects, enhancing Europe's edge capabilities and fostering profitable **business models**.



Paul Potters



Menno Malta

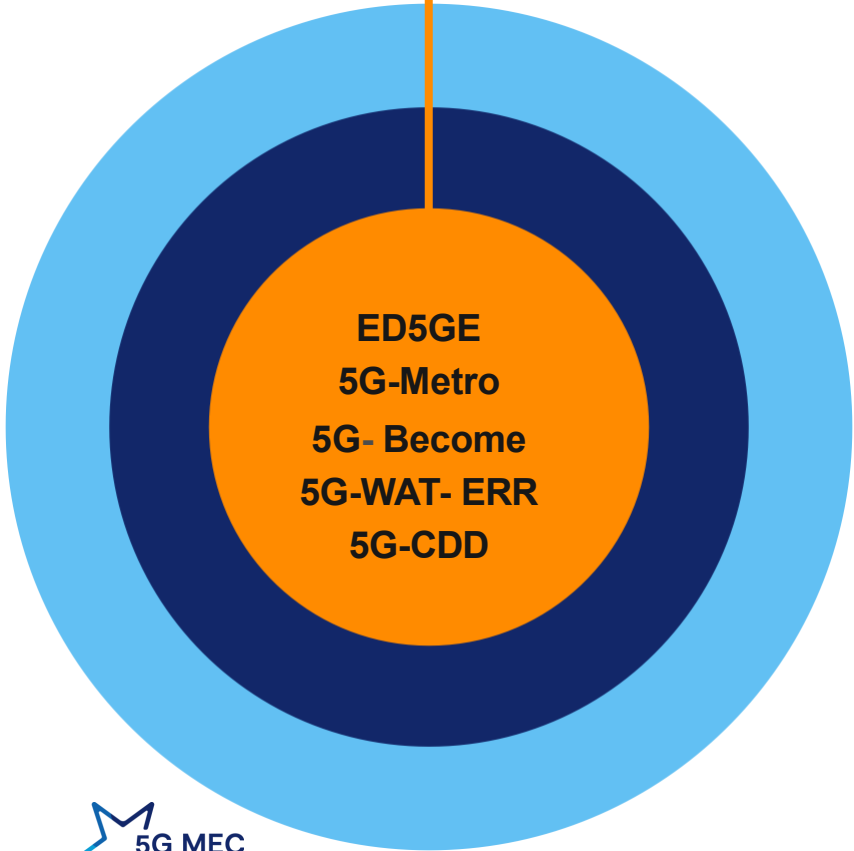


Nicolas Mercier

Welcome to our MEC4EU-Community

Implementers

- ▶ Sharing Best Practices
- ▶ Showcasing Architectures
- ▶ Addressing Challenges
- ▶ Gathering Requirements



Project Acronym:

ED5GE

5G-Metro

5G-Become

5G-WAT-ERR-IB

5G-CDD

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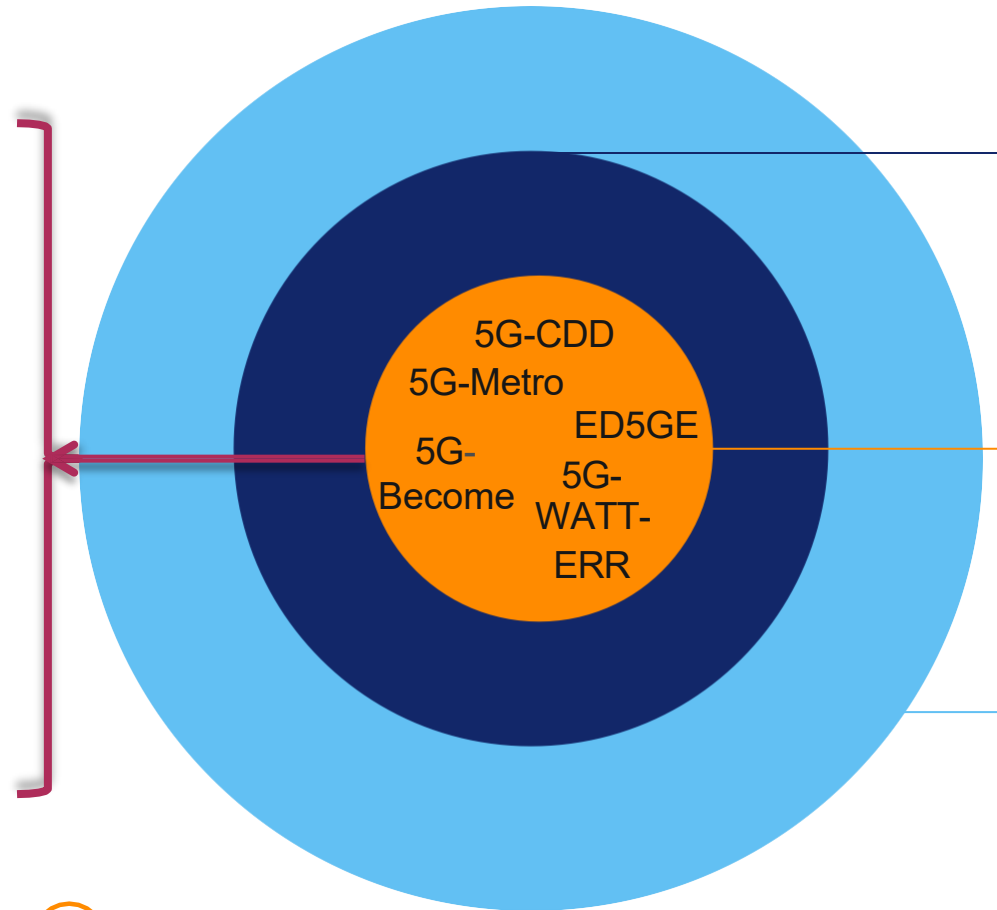
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With the help of the community, we want to bring together implementers, explorers and observers, transfer knowledge and find solutions to challenges.

- **Raising Awareness** – Promoting the benefits and potential of MEC across industries and stakeholders.
- **Showcasing EU Leadership** – Highlighting innovative MEC implementations within EU-funded projects.
- **Building a Knowledge Hub** – Creating a central space for sharing expertise, best practices, and success stories.
- **Engaging Stakeholders** – Connecting researchers, policymakers, and industry leaders to drive MEC adoption.
- **Amplifying Visibility** – Leveraging events, publications, and media to enhance public and professional recognition.
- **Encouraging Collaboration** – Strengthening partnerships across projects to accelerate MEC innovation and adoption.



Explorers

- Defining Use Cases
- Assessing Feasibility
- Understanding Challenges
- Learning from Implementers
- ...

Implementers

- Sharing Best Practices
- Showcasing Architectures
- Addressing Challenges
- ...

Observers

- Monitoring Trends
- Exploring Opportunities
- Gathering Insights
- ...



Researchers, policymakers, and industry leaders

...

What's Holding Us Back? Shared Challenges Across the 5GMEC Ecosystem

Regulatory

GDPR compliance of Edge deployments

Absence of standardized frameworks for edge orchestration

Technology

Lack of 5G native User Equipment (UE)

Inter-platform interoperability

Site variability

Scalability & infrastructure gaps

Business

Unclear business models for MEC services

Uncertain demand for MEC

Scalability of edge deployments

Investment attraction

This community is not just identifying challenges - it's actively exchanging what works to overcome them.