

EUCloudEdgeIoT.eu

The European Cloud, Edge & IoT Continuum

Understanding Cloud-Edge-IoT: challenges and opportunities

19th September 2022
15:00 – 16:30 CEST



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the European Union

Introduction

Golboo Pourabdollahian, Consulting Manager, European Government Consulting, IDC

Why investigating the Cloud-Edge-IoT domain?

John Gole, Research Director, European IoT Practice, IDC

Get involved: value and benefits

Marlene Eisenträger, Consultant, VDI/VDE IT

Panel discussion “Understanding Cloud-Edge-IoT: challenges and opportunities”

 Moderator: *Maria Giuffrida, Senior Researcher, Trust-IT*

 *Kay Bierzynski, Senior Project Manager, Infineon and EPoSS*

 *Brendan Rowan, Managing Consultant for Tech, Policy and Skills, Bluspecs*

 *Natalie Samovich, WG Energy Chair, AIOTI*

 *Albert Seubers, Director, Martel BV*

 *Rainer Sträter, SVP Cloud Services and Global Platform Hosting, IONOS*

Q&A

Conclusion

This session will be recorded

- The recording will be available to all participants after the event

Please always keep your mics and cameras off during presentations

Get engaged by

- Asking questions via the Q/A function anytime during the event
- Writing comments in the chat
- Raising your hand if you want to comment via audio/video

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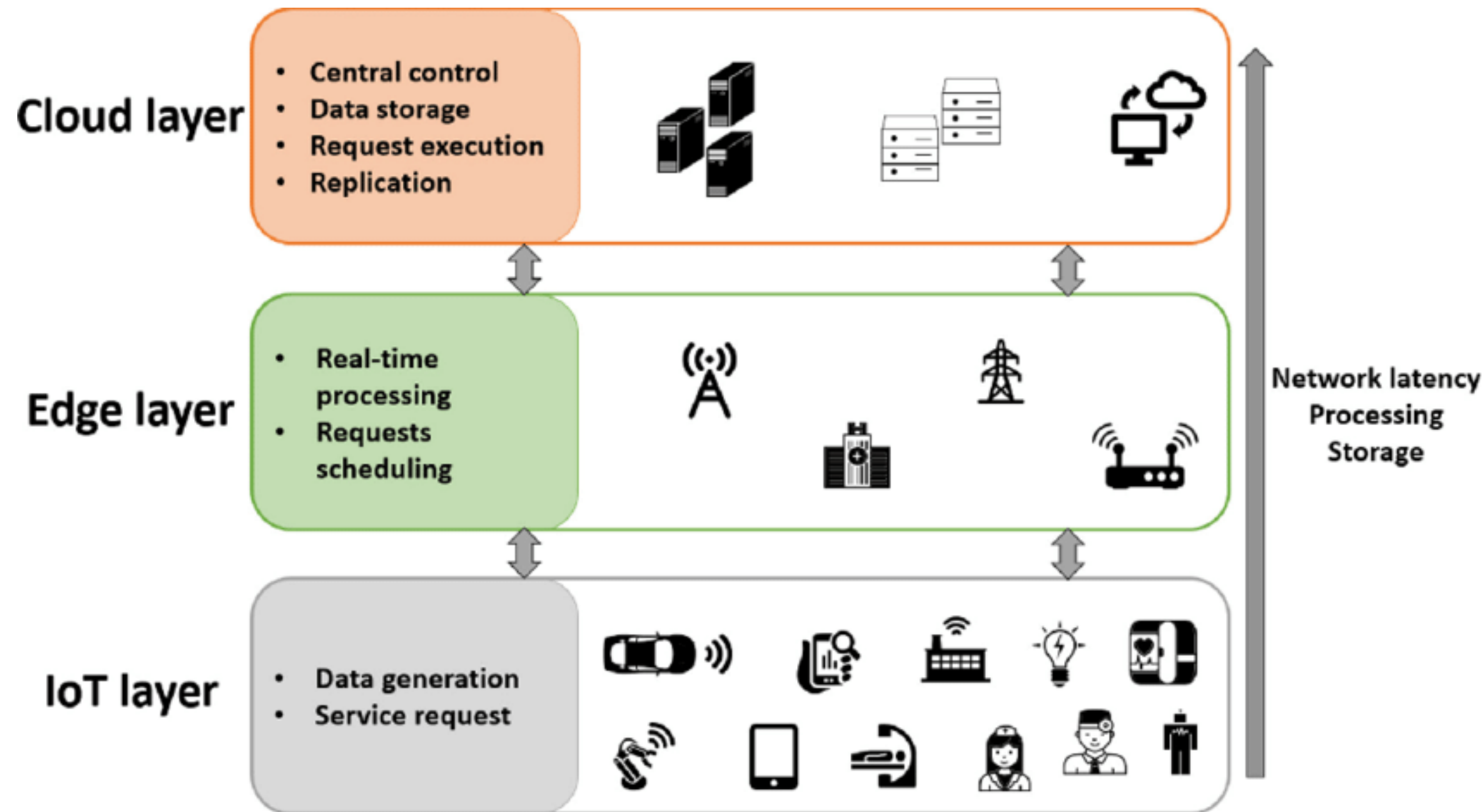
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Introduction

Golboo Pourabdollahian
Consulting Manager, European
Government Consulting
IDC



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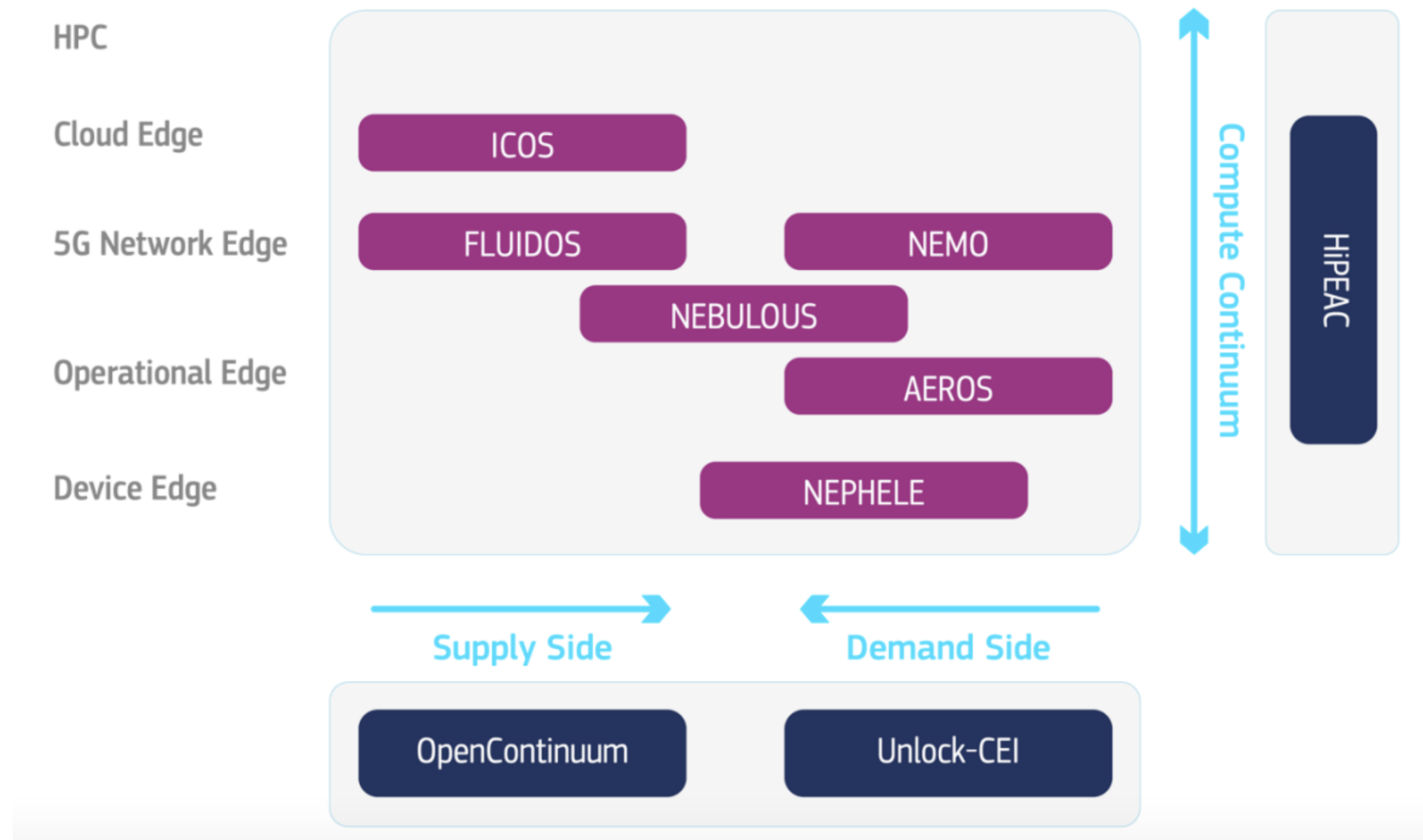


According to IDC's European Emerging Technologies Survey:

- More than 40% of companies consider “**low latency services**” and “**reduced communication burden**” as the main benefits of edge implementation
- 30% of companies believe that edge implementation will benefit them by **cost reduction**

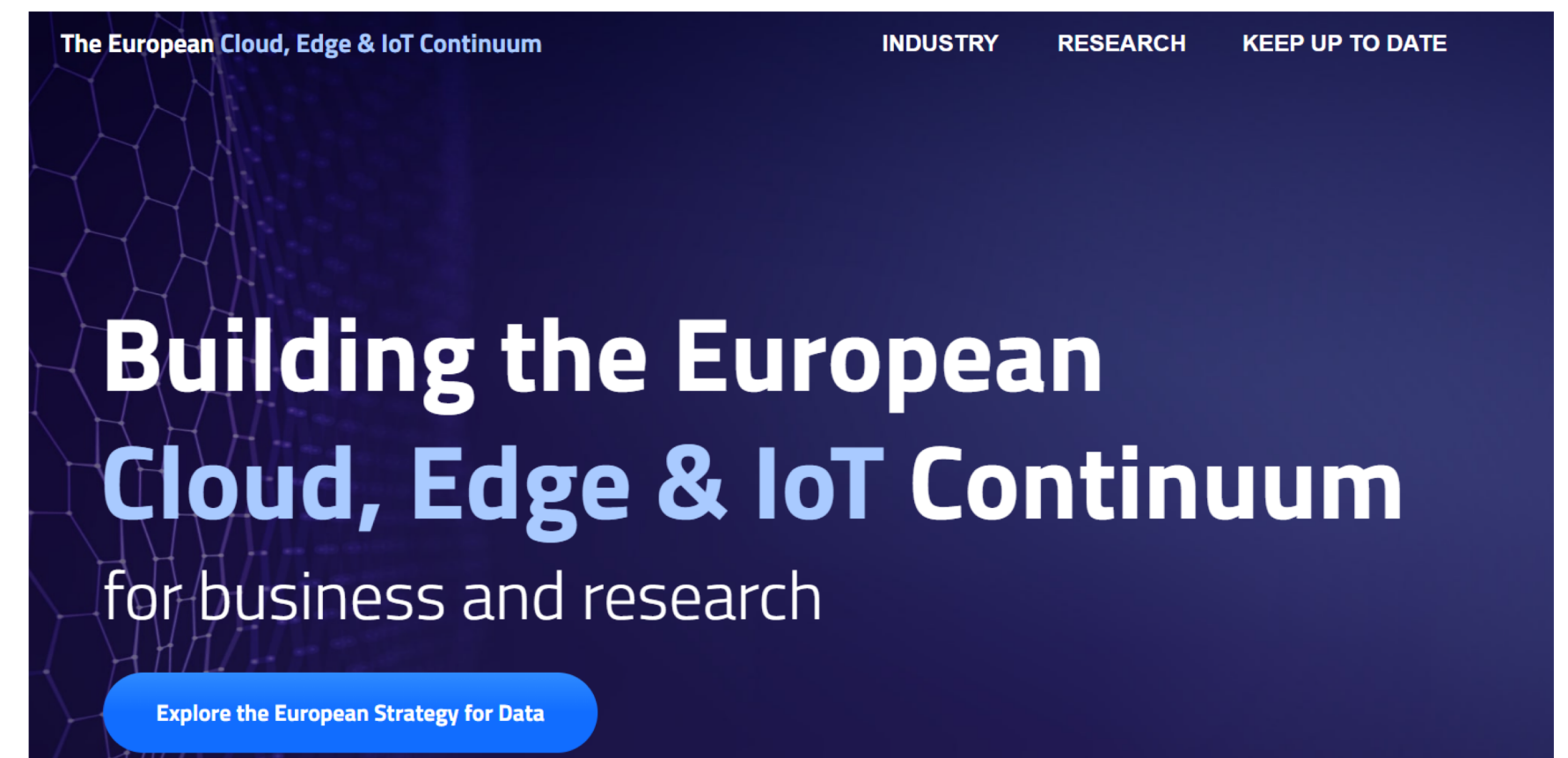
Cloud-Edge-IoT for European Data

HORIZON-CL4-2021-DATA-01-05,07,08



Both UNLOCK CEI project and Open Continuum project joint force under the unique umbrella of **EUCloudEdgeIoT**.

www.eucloudesgeiot.eu



Horizon Europe Coordination and Support Actions

HORIZON-CL4-2021-DATA-01

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The European Cloud, Edge & IoT Continuum

UNLOCK CEI



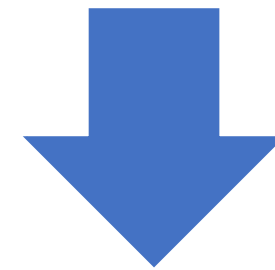
Start Date: June 2022
Duration: 30 Months
Consortium: 5 Beneficiaries
Coordinator: IDC

Open Continuum



Start Date: September 2022
Duration: 24 Months
Consortium: 5 Beneficiaries
Coordinator: Martel Innovate

UNLOCK CEI's ambition is to UNLOCK the potential for **accelerating 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**.



Objective 1.
Assessment of CEI
demand landscape

Objective 2. Define
market scenarios

Objective 3. Define
market scenarios

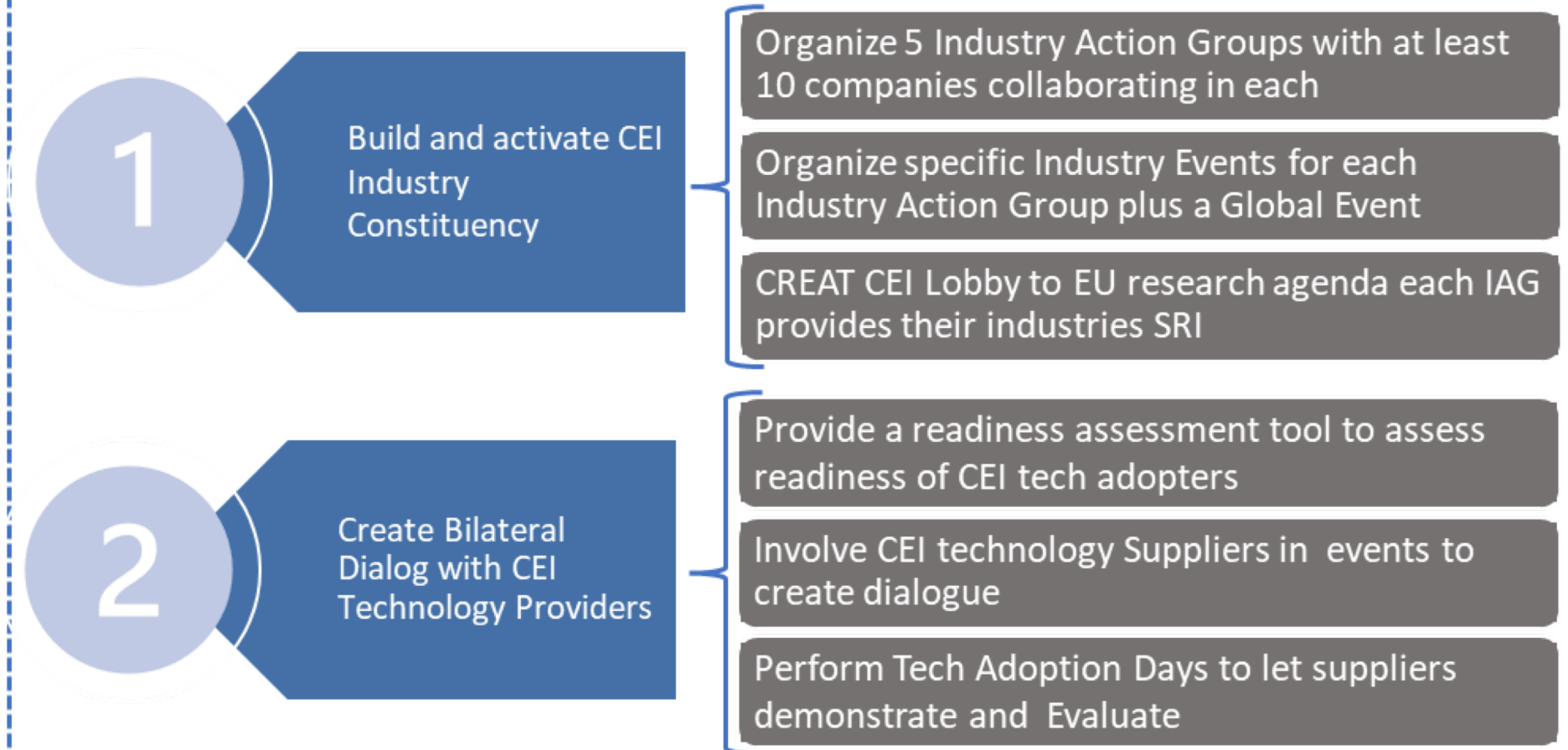
Objective 4.
Coordination and
interaction with
supply side

Objective 5.
Awareness and
impact generation

Demand: Functional Needs versus technology Push

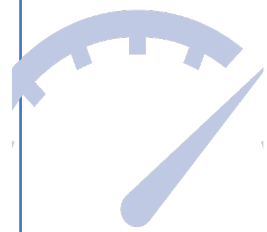


Ecosystem strengthening the European competitiveness



Technology Readiness and a Vibrant Community

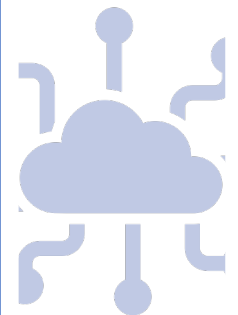
- 1 At least 60+ examples of CEI adoption in specific use cases and vertical sectors linked to the Unlock technology readiness tool and to a use case radar
- 2 A collection of real implementation stories and a series of events with real industry telling their experiences, setting requirements for technologies
- 3 A vibrant motivated community of real industrial players (not the Usual EU project partners building a 2,000 strong multi-stakeholder community database)



CEI demand landscape report
and dashboard



Validated Market scenarios
and pathways



Validated CEI service
requirements



Active ecosystem of value
chain adopters



Pilot factory around CEI pilot
actions



Recommendations for
attractive market scenarios &
high potential investment LSPs

Fill the gap!



Get closer to the market!



- ★ Defined purchase decisions and criteria
- ★ Identify demand drivers, structure and chain



- ★ Gain insights on market and commercial feasibility
- ★ Understand adoption levels across sectors

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Why investigating the Cloud-Edge-IoT domain?

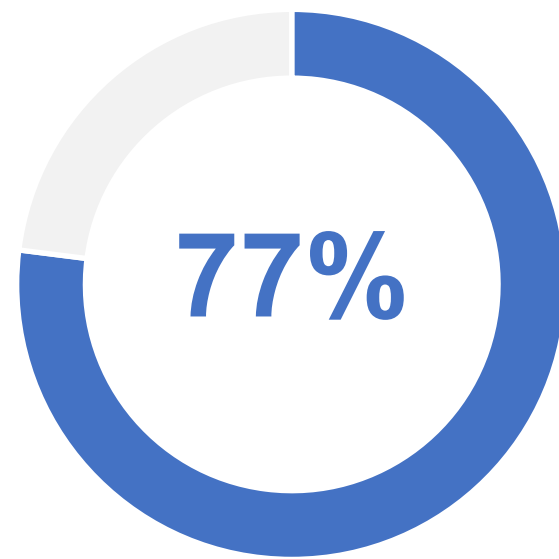
John Gole

Research Director, European IoT
Practice

IDC



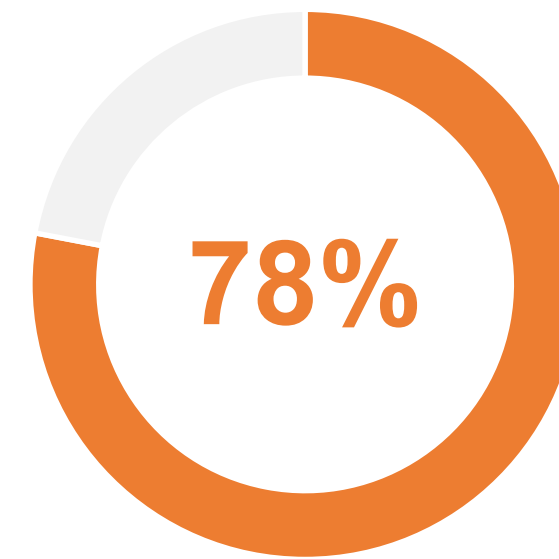
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of European organizations plan to **invest** in **IoT**



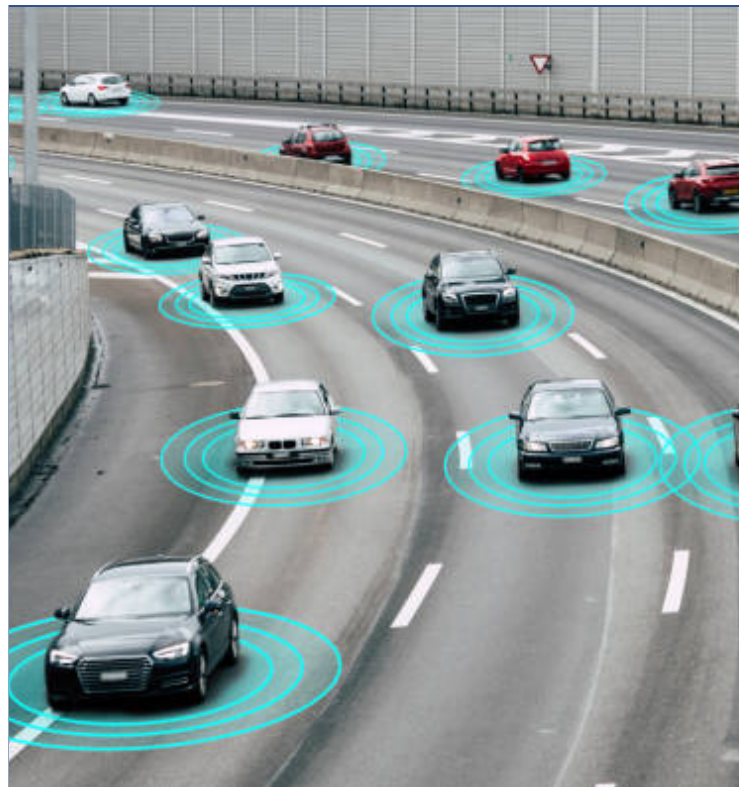
European **spending** on **IoT** in 2022



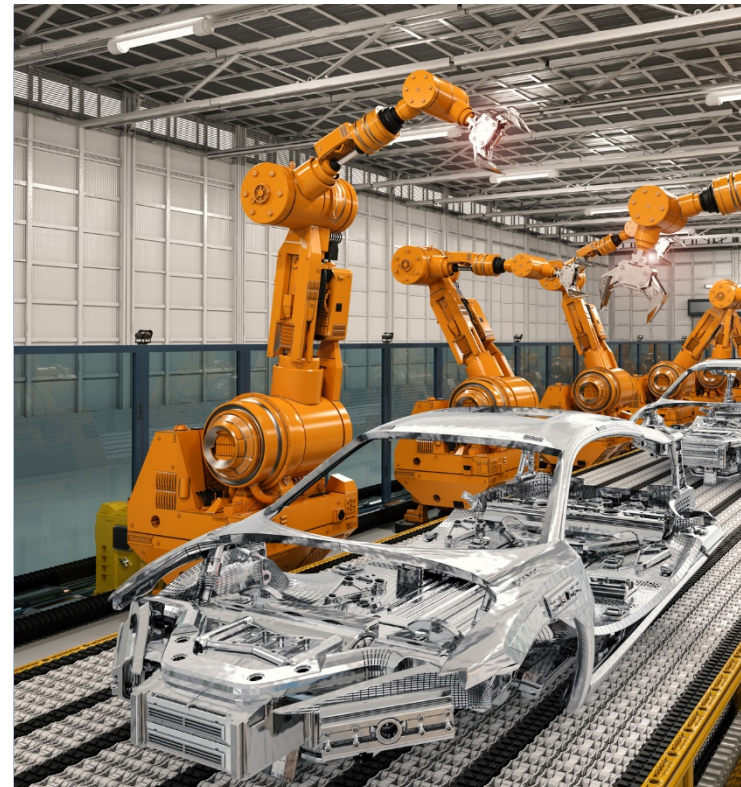
of European organizations **use** **Cloud**



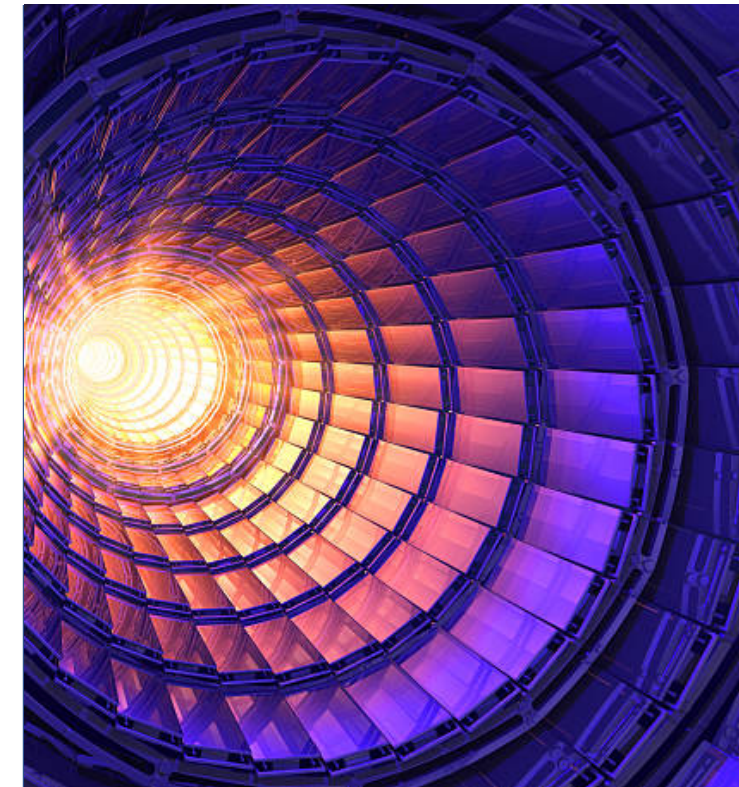
European **spending** on **Edge** in 2022



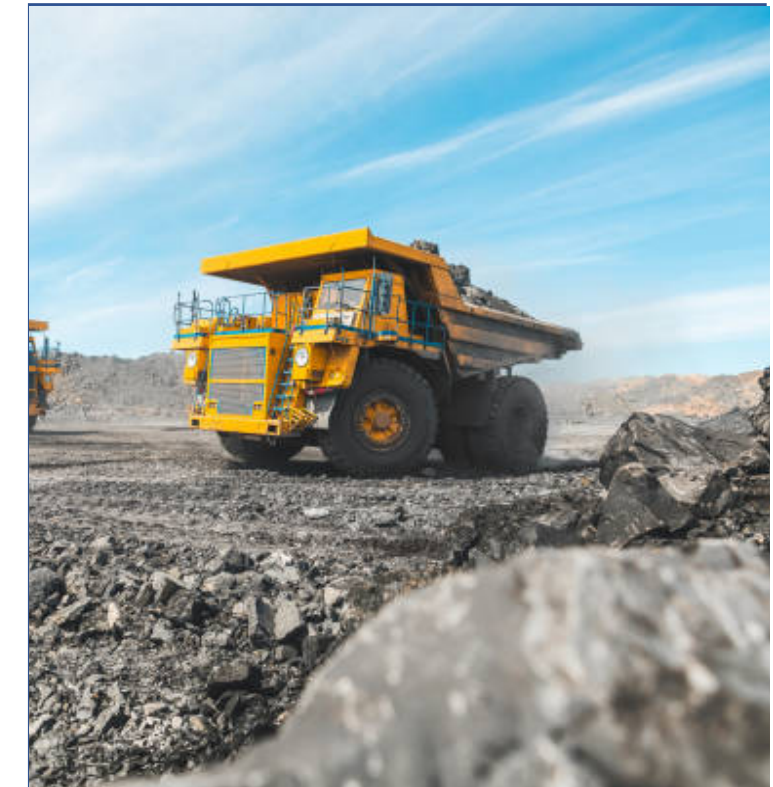
Autonomous Vehicles



Production Automation



Research Labs



Mining and Oil Exploration



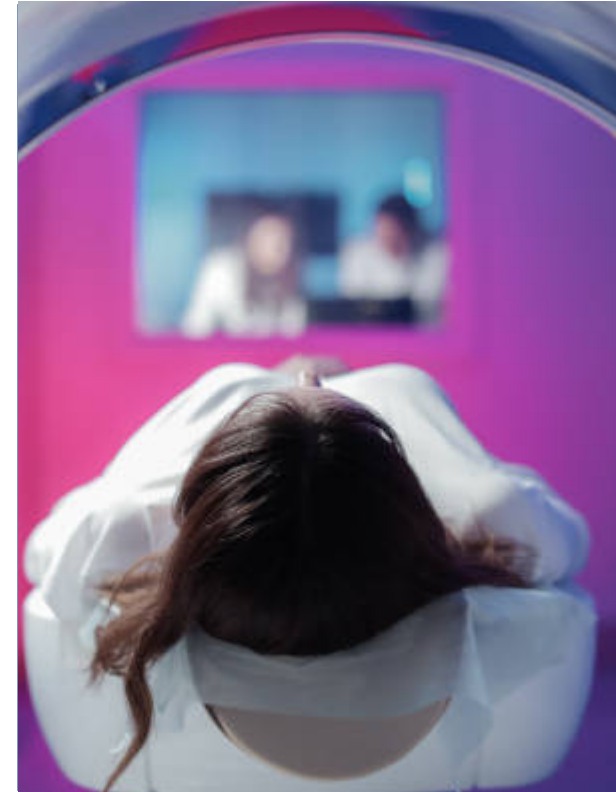
Energy Infrastructure

- Smart grid
- Pipeline management
- Integrating renewables
- Managing load
- Buildout of LNG facilities
- Mining safety and automation
- O&G exploration and extraction
- EV charging stations



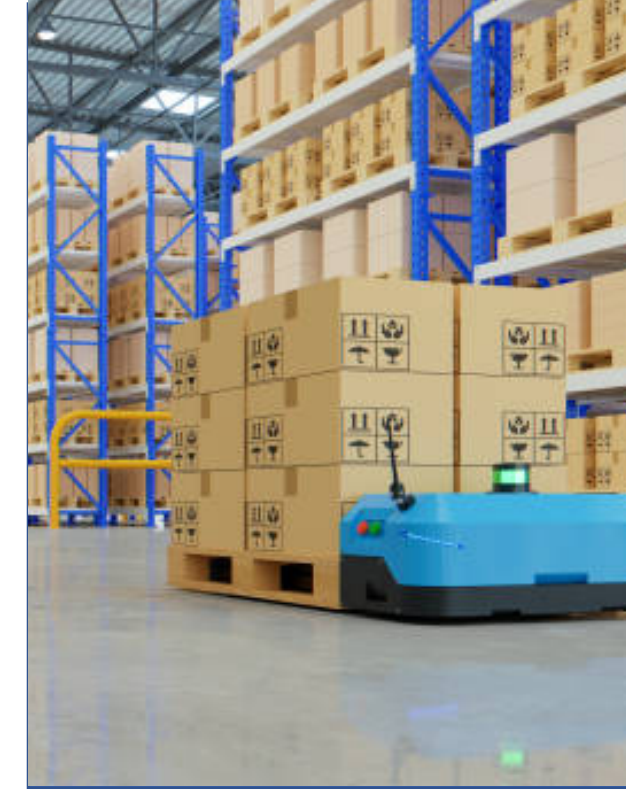
National Security

- Energy security
- Physical security of critical infrastructure
- Cybersecurity
- Monitoring ports and shipments
- Food traceability and food security
- Logistics



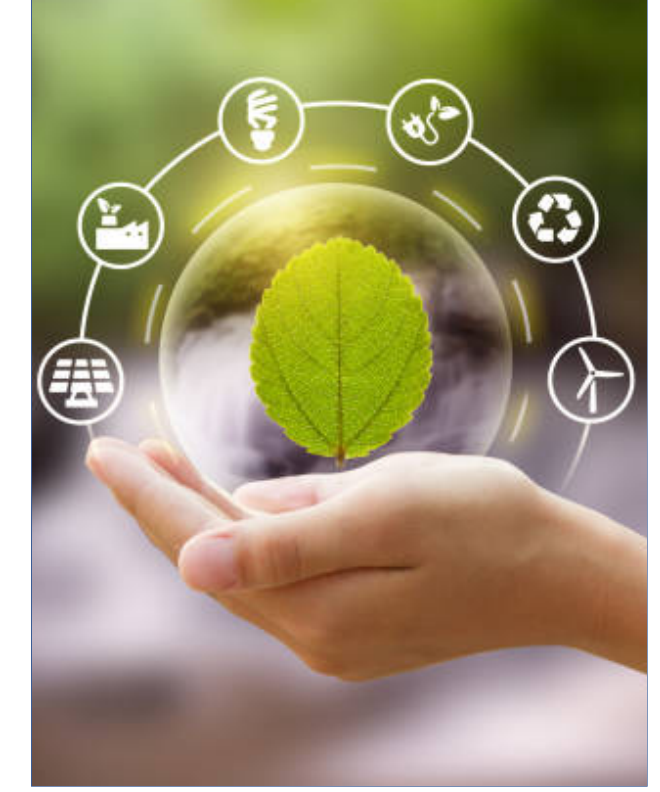
Healthcare

- Hospital efficiency
- Asset tracking
- Hospital patient monitoring
- Pharmaceutical security and tracing
- Energy efficiency
- Remote patient monitoring



Economy

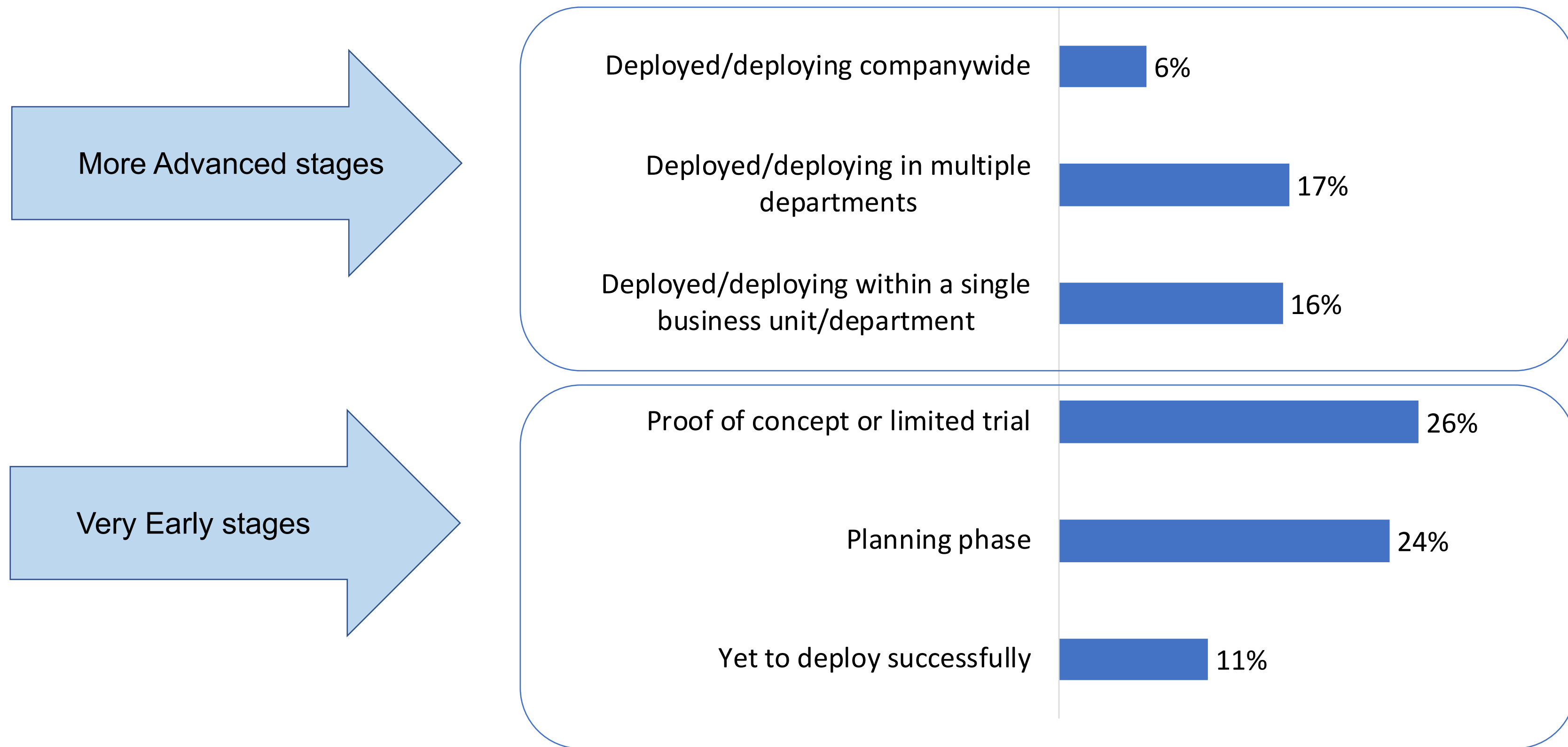
- Direct employment
- Digitalize across all industries to remain/boost competitiveness
- Increase efficiency, resilience
- Adaptable supply chains



Sustainability Goals

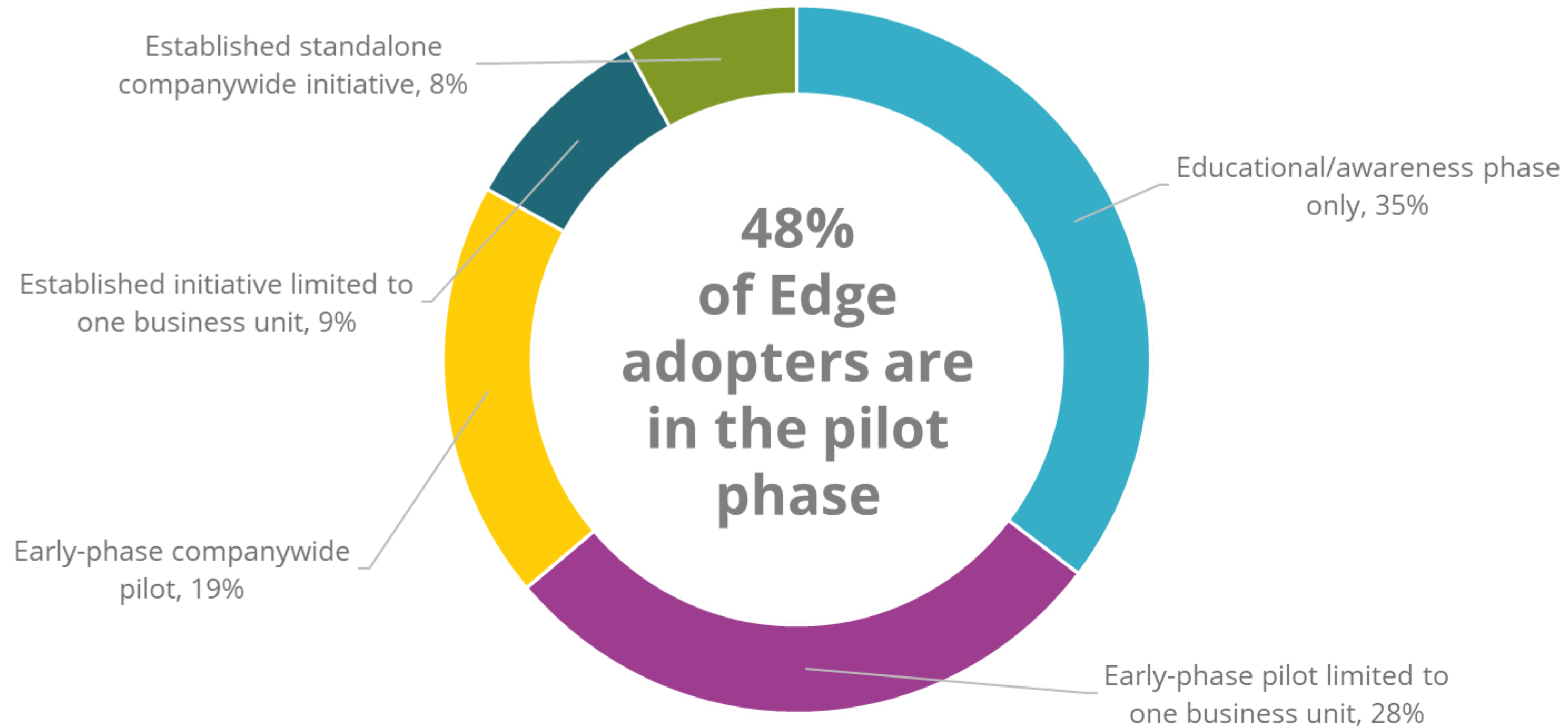
- Affordable and clean energy
- Health and well-being
- Clean water and sanitation
- Zero hunger
- Sustainable cities and communities

Q. Which of the following best describes how mature the majority of your organization's IoT projects are today?


































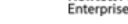


























































































































































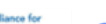





































































Source: IDC's European 5G and IoT Survey, 2022 (n =426, base = those currently using IoT)

Q. What stage is your organization at regarding Edge computing?



Note: Emerging technologies include AI, AR/VR, robotics or drones.

IDC Market Glance European Internet of Things

HARDWARE										
Embedded Suppliers					IoT Modules		IoT Gateways		Servers	Storage
         					 		   		 	 
        					  		  		 	 
      					 		  		 	 
SOFTWARE										
IoT Platforms				Security			Analytics		Embedded Software	
Application Enablement Platforms				Connectivity Management Platforms						
    				   			   		 	
    				   			  		 	
    				  			  		 	
     				  			   			
    				 			   		  	
SERVICES										
Communications Service Providers					Systems Integrators					
       					    					
     					    					
     					     					
    					    					
    					    					
STANDARDS										
Connectivity Protocols					Standards Organizations					
    					      					
    					       					
   					    					
   					     					
INDUSTRY SOLUTIONS										
                										
             										



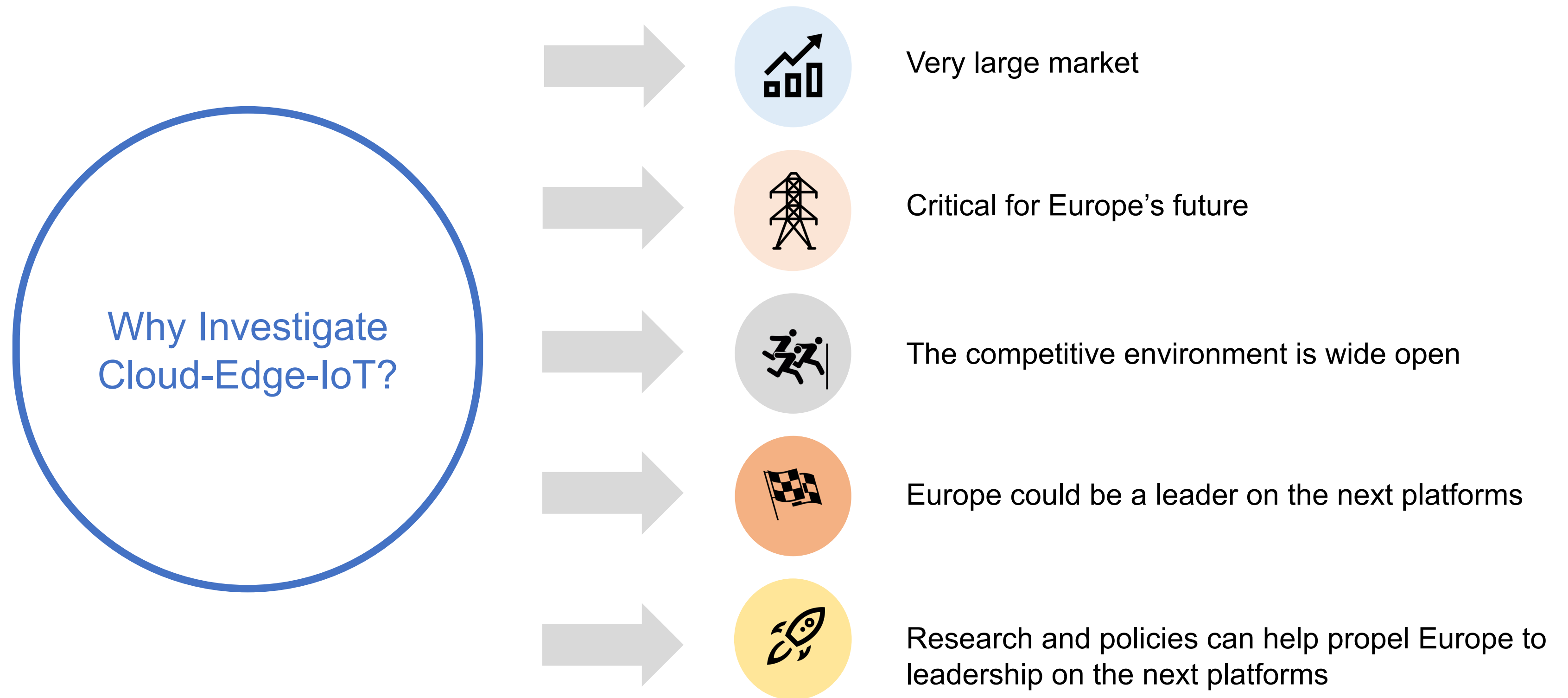
Europe leads in some tech fields, while lagging in others



Policies make a difference



Understand trends and opportunities, so the right policies can follow



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**Get engaged: value
and benefits**

Marlene Eisenträger

Consultant

VDI/VDE IT



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Our approach: Value Chain Adopter Groups

-  Manufacturing
-  Agriculture
-  Health
-  Energy and Utilities
-  Transportation



[Adobe stock: Artur](#)

Workshop “waves” (3-4h each) – sector-specific groups and a final cross domain panel (start in 2023)

- 🌐 **First Wave (virtual): Who are the business drivers?**
- 🌐 **Where do the revenue streams flow?**
- 🌐 **Where are the potential vendor lock-ins, or gaps and business opportunities?**



[Adobe stock: KanawatTH](#)

Workshop “waves“ (3-4h each) – sector-specific groups and a final cross domain panel (start in 2023)

- 🌐 **Second Wave (hybrid):**
What are the most important **service requirements** regarding **security, sustainability and sovereignty**?
- 🌐 Who are the **new players** in the edge-cloud-IoT eco system?
- 🌐 Are there **novel business models** and opportunities?



Provide active feedback to the CEI service attributes required in market segment

[Adobe stock: KanawatTH](#)

Cross domain panel (3-4h, in presence, per invitation)



[Adobe stock: everythingpossible](#)

- Final discussion of the pathways for **emerging market structures**, along with **key decision points for government actions**
- Recommendations for the **large-scale pilots** that will be funded by the European Commission (2023-24)

Why to join the value chain adopter groups?



Adobe Stock: jojokrap

- 🌱 contribute with **recommendations for the large-scale pilots**
- 🌱 actively shape CEI towards **energy efficiency, reduction of CO₂ emissions, resilient supply chains, data privacy**
- 🌱 estimate **cost-benefit ratio** regarding the **infrastructure investments**
- 🌱 foster the green and digital ‘twin’ transition to build together **sustainable European data-driven value chains**

[Please register for the workshops here!](#)





Kay Bierzynski
Senior Project Manager
Infineon



Brendan Rowan
Managing Consultant for Tech,
Policy and Skills, Bluspecs



Natalie Samovich
WG Energy Chair
AIOTI



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Director
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SVP Cloud Services & Global
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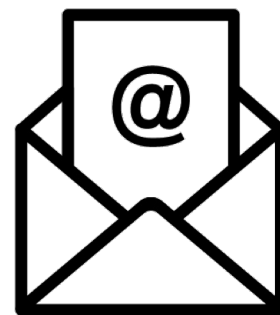
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