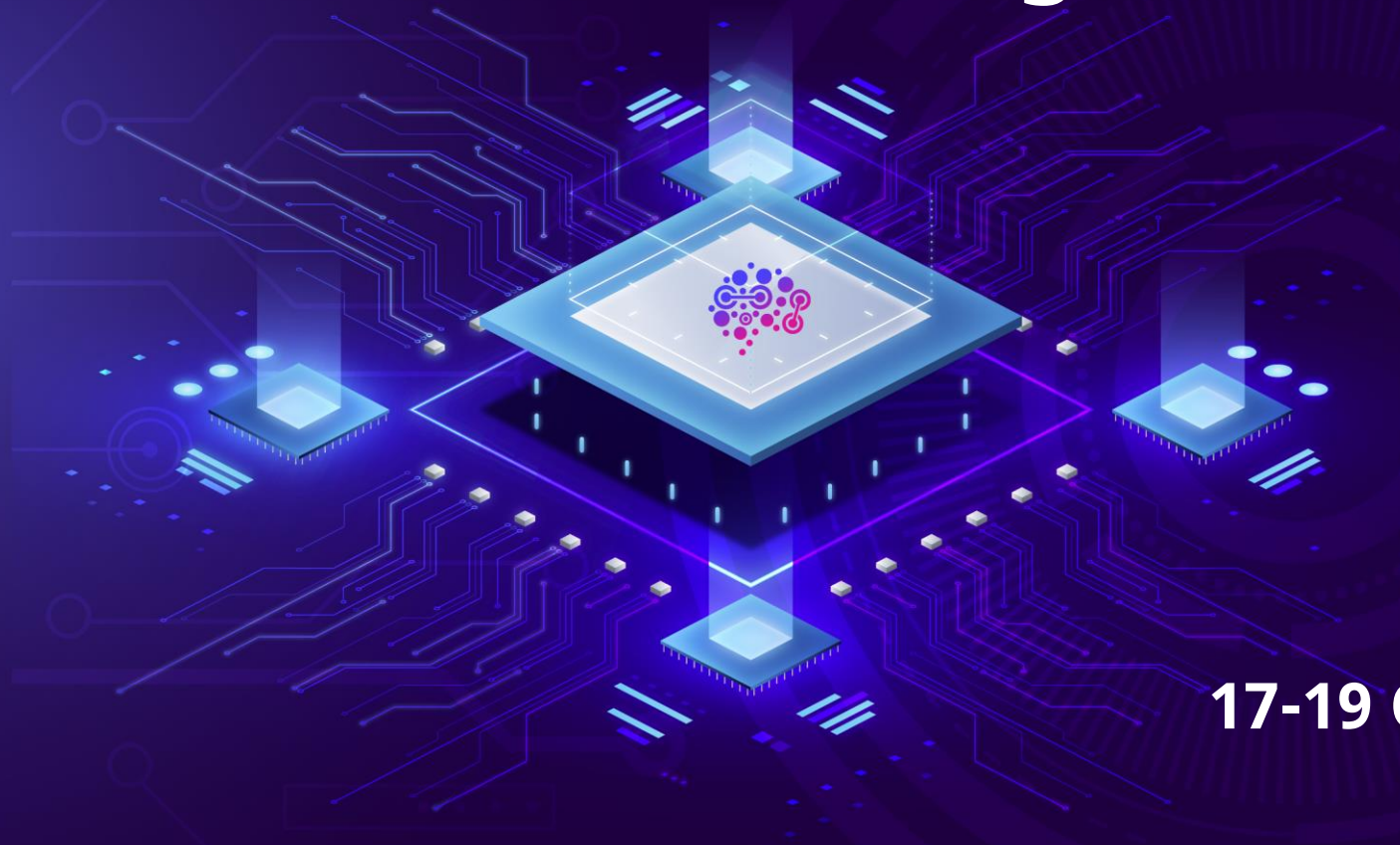
# European Conference on EDGE AI Technologies and Applications - EEAI



**Advancing emerging edge AI technologies and driving next generation intelligent applications.**

**17-19 October 2023, Athens, Greece**

# European Conference on EDGE AI Technologies and Applications - EEAI

## dAI$^{EDGE}$ - A network of excellence for distributed, trustworthy, efficient and scalable AI at the Edge

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17-19 October 2023 Athens, Greece

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# Project Overview

**dAIEDGE** A network of excellence for distributed, trustworthy, efficient and scalable **AI at the Edge**

- Network of AI excellence centers

- 14 research institutes
- 9 universities
- 10 industrial partners
- 3 associations
- 15 countries: Belgium, Bulgaria, Germany, Greece, Spain, Finland, France, Ireland, Italy, Netherlands, Norway, Poland, Sweden, Switzerland, UK

https://daiedge.eu
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AI NoE


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# Project objectives

## Edge AI scientific progress

- Foundational research
- Emerging SW/HW approaches
- New paradigms, algorithms, architectures
- Hybrid and distributed AI solutions
- Energy efficiency, dependability

## United edge AI community

- World-class European AI community
- Leading edge AI researchers
- Scientific Exchange programs grants
- Cross-community centers of excellence
- Multi-disciplinary networking

## Strategic Research Agenda

- Vision and roadmap
- Partnership alignment workshops
- Multidisciplinary strategic goals
- Methodology and implementation

## Lead by demonstration

- Efficient inference, domain adaptation
- On-device communication
- Federated learning
- Use-cases and demonstration

## Virtual innovation infrastructure

- Virtual edge AI laboratory
- Experiment federation
- Benchmarks federation
- Datasets and testbeds

## Industrial ecosystem

- Edge AI on demand framework
- Distributed edge AI marketplace
- Industrial research projects grants
- Virtual incubator


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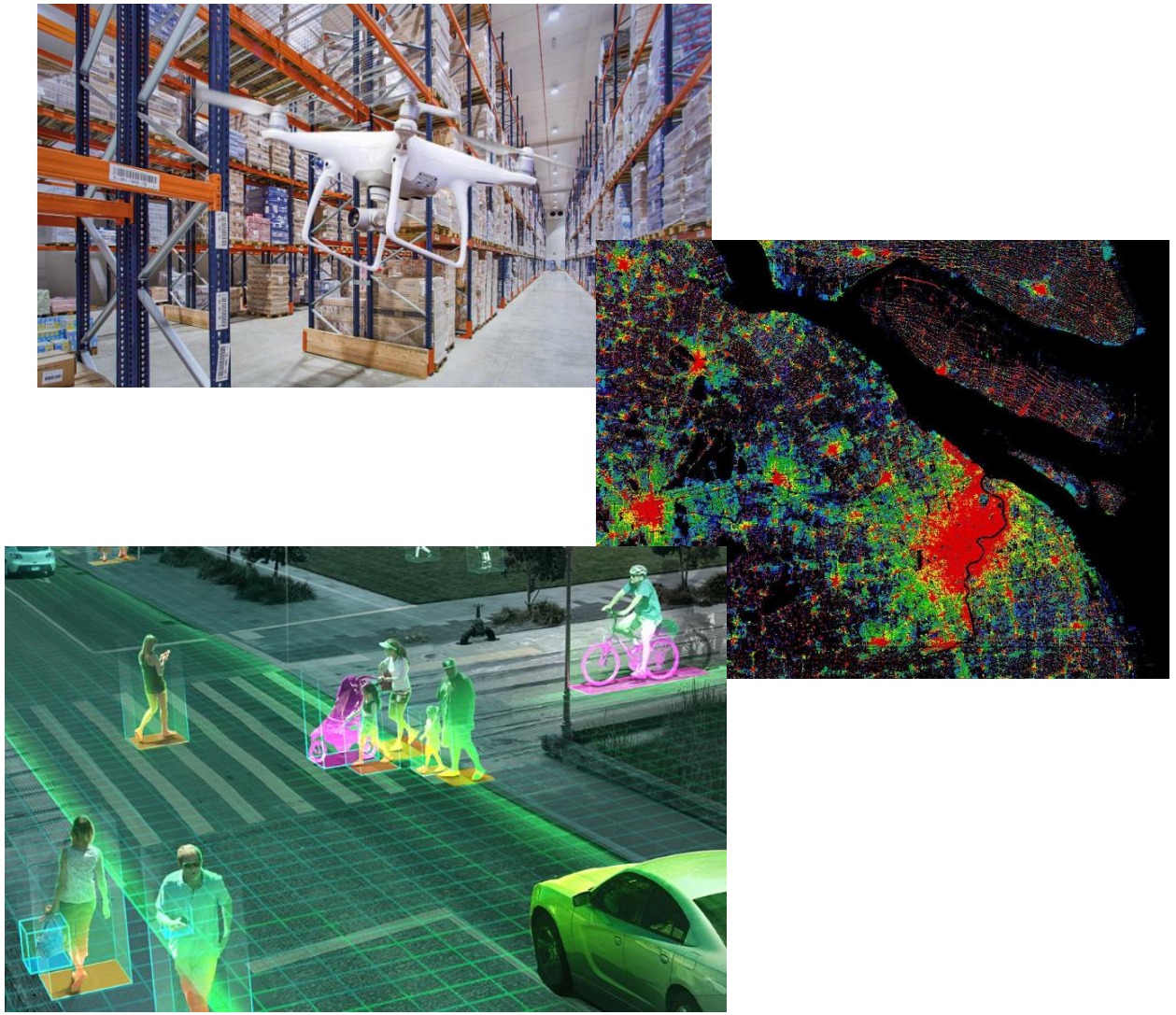
# Project Highlights: dAI$^{EDGE}$ Pilots

- Drone assisted warehouse security monitoring & inspection
- AI on the edge for satellite image pre-processing
- High-performance low-power edge and fog technologies for smart cities

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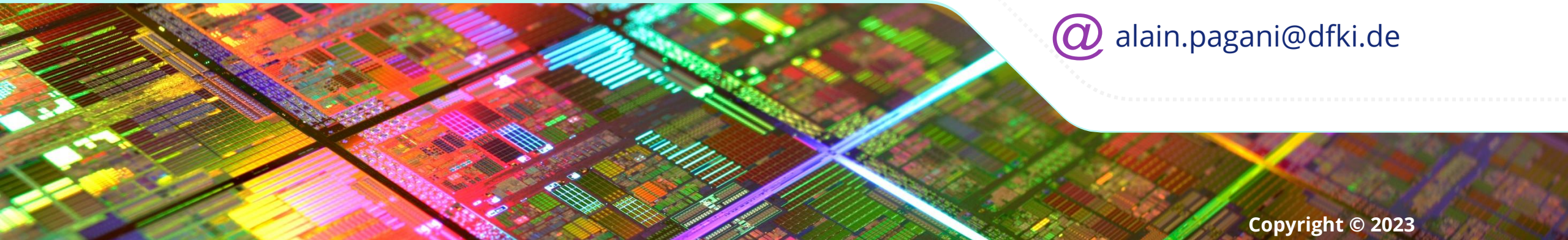
EDGE AI

# Thank You

## For your attention



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