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June 7-10, 2021 (fully virtual)



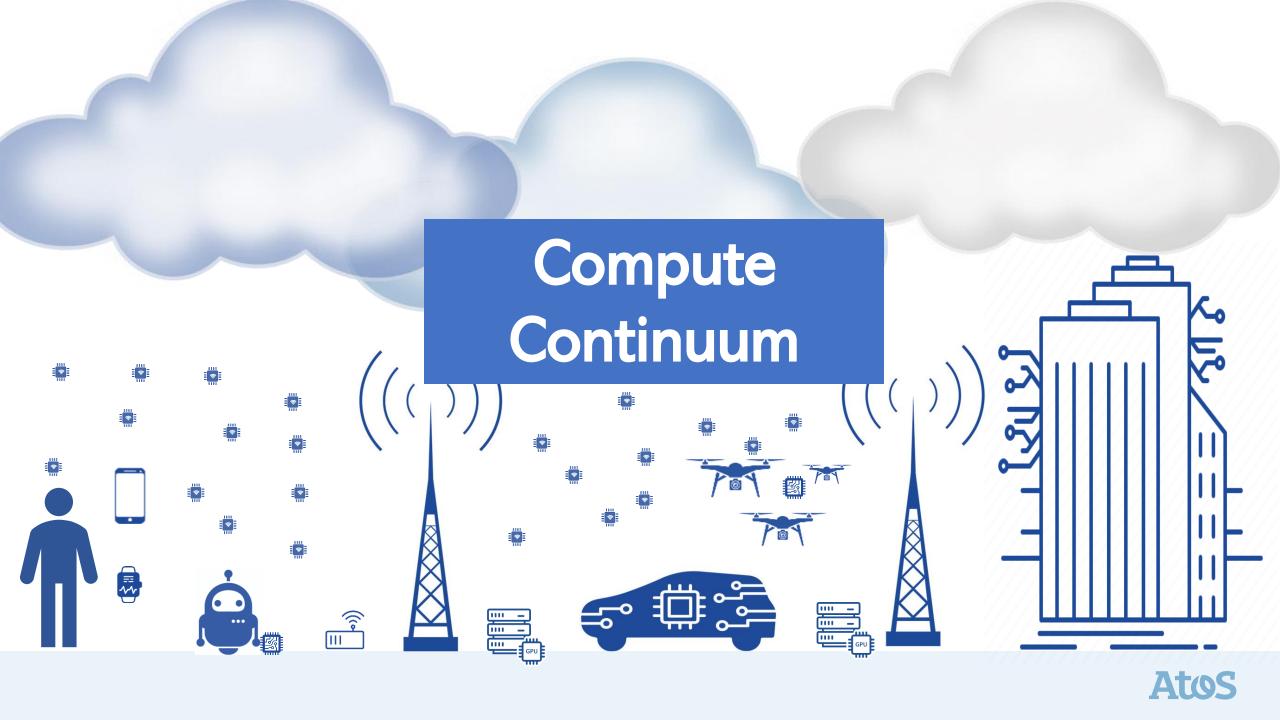
EDGE IS THE NEW CLOUD PANEL

Ana Juan Ferrer, Atos











- Cloud technologies are mainstream now, having reached a high degree of maturity and providing responses to complex scenarios.
- ✓ Cloud default platform for start-ups and many enterprise organizations have already fully embraced the cloud model
- ✓ Lack in interoperability among solutions still blocks full adoption of multi-cloud options.
- ✓ Specifically in EU, concerns on technological independence is pushing towards Cloud Federation (Gaia-X)









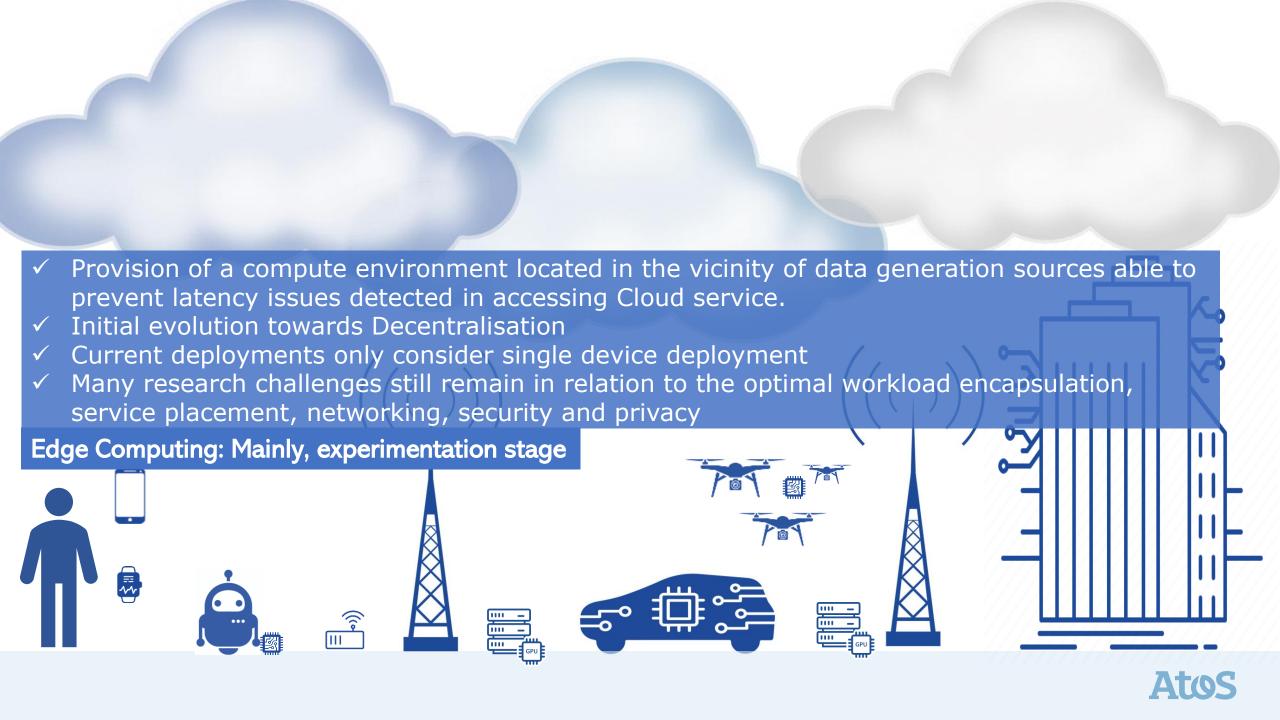


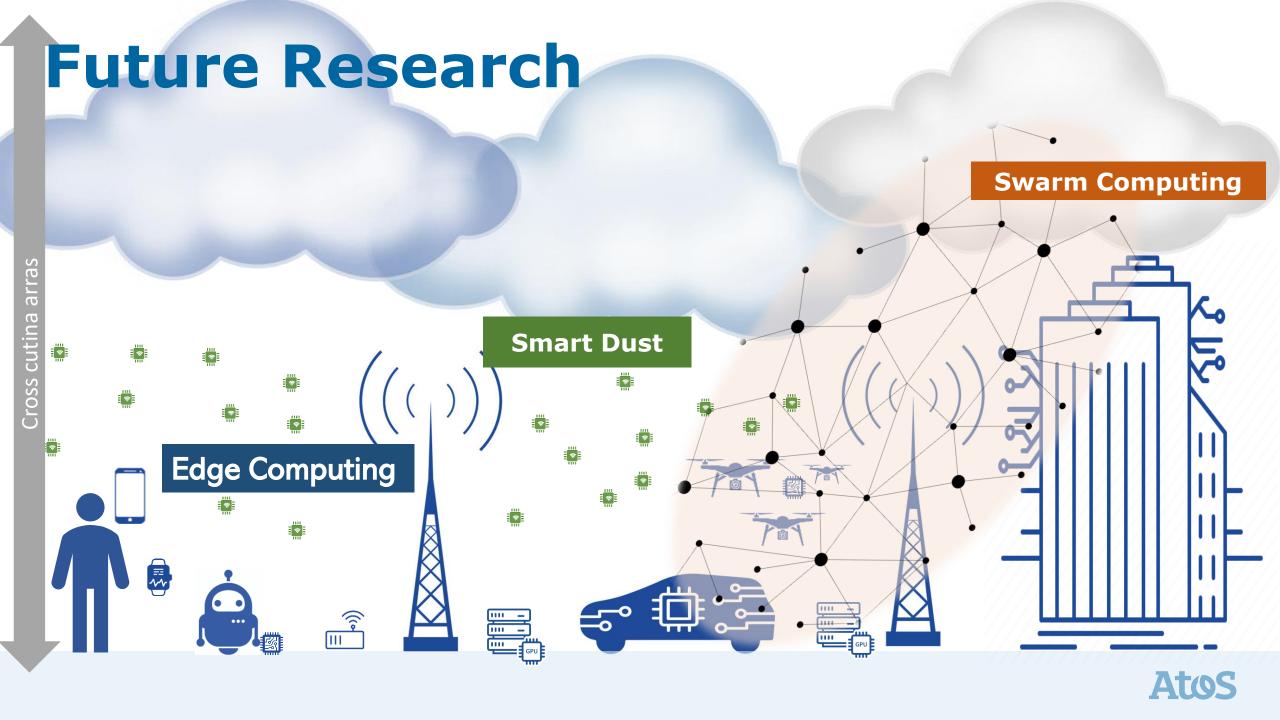












Edge Computing: Research

Heterogeneity exploitation and New hardware architectures

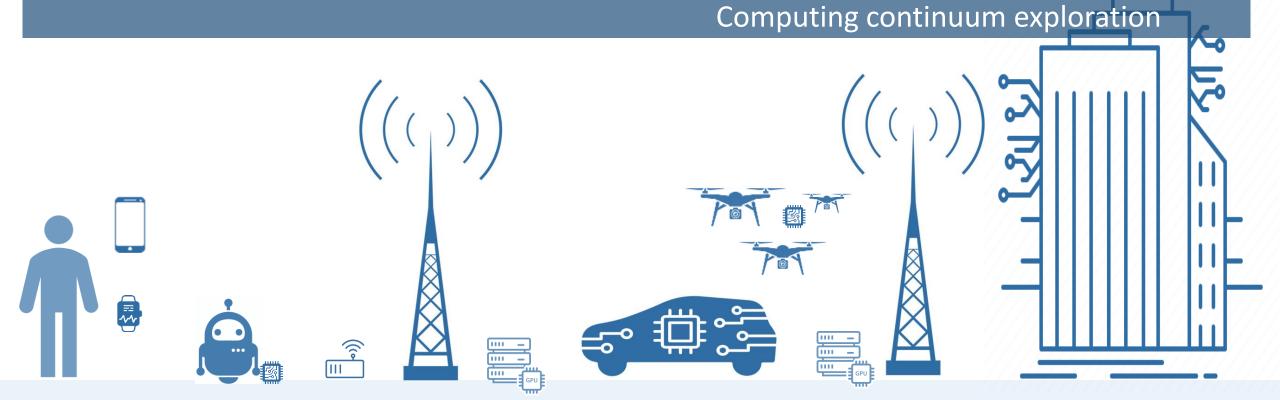
Energy efficiency optimisation

Multi-level Edge

Edge Intelligence (Federated learning)

Data Management

Edge Management





Swarm computing as a decentralised orchestration platform that combines network and cloud principles to create an on-demand, autonomic and decentralised computing and storage management layer that transparently interoperates among diverse and disperse Edge and cloud models and typologies.

Processing required for immediate action actuation requiring extreme low latency will happen at the Edge of the network. While rest of processes will run in a diversity of cloud models.

All together in an automated, self-organized and self-managed Swarm model





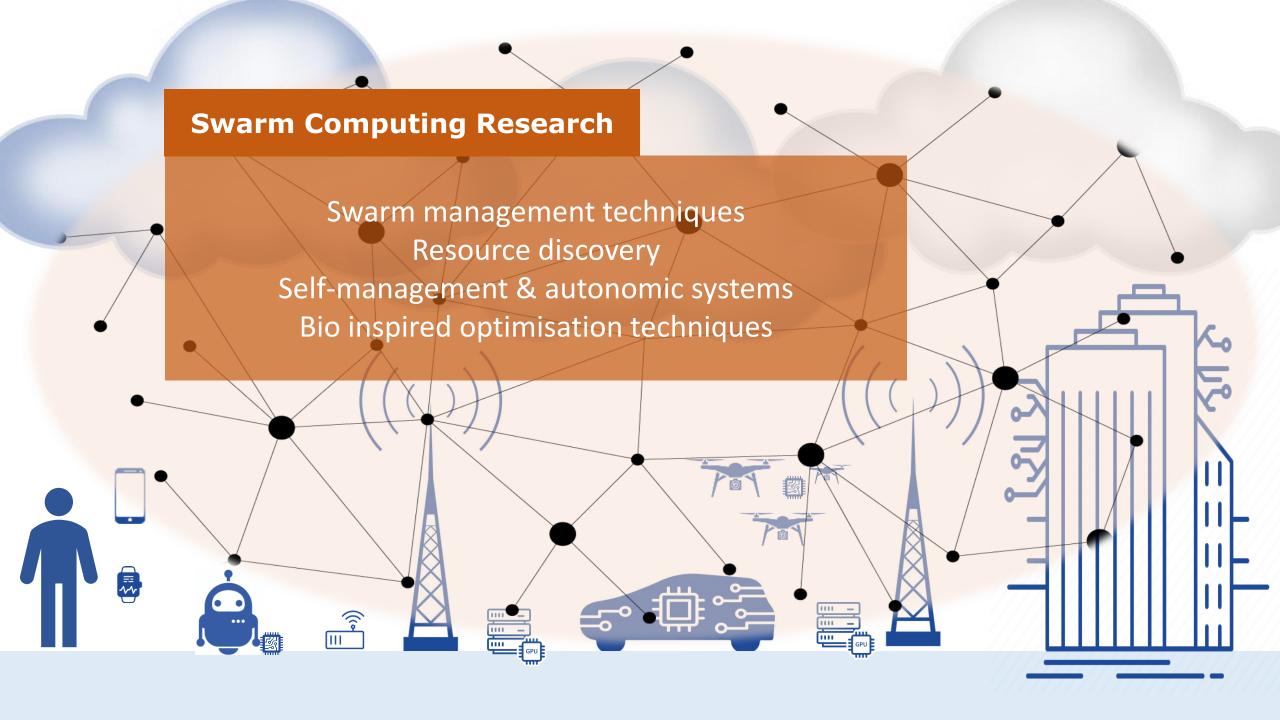












Smart Dust Research

Devices
Self-management
Communication
Environmental Impact

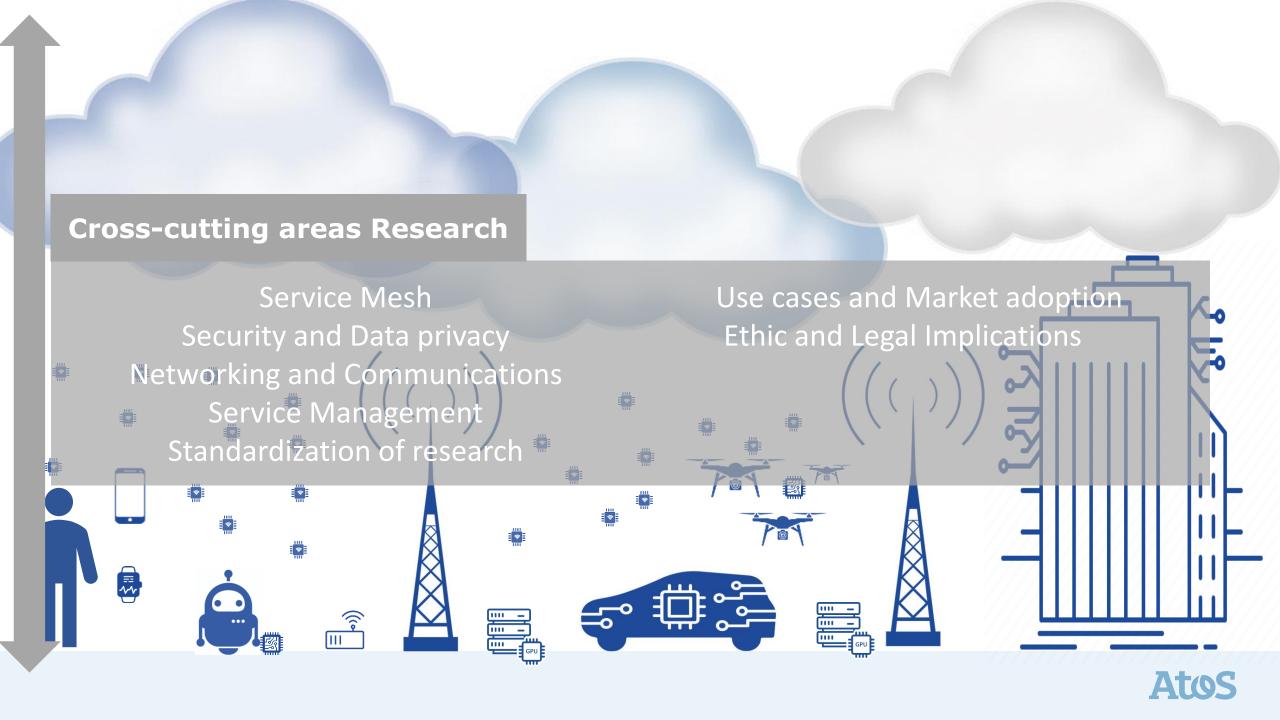


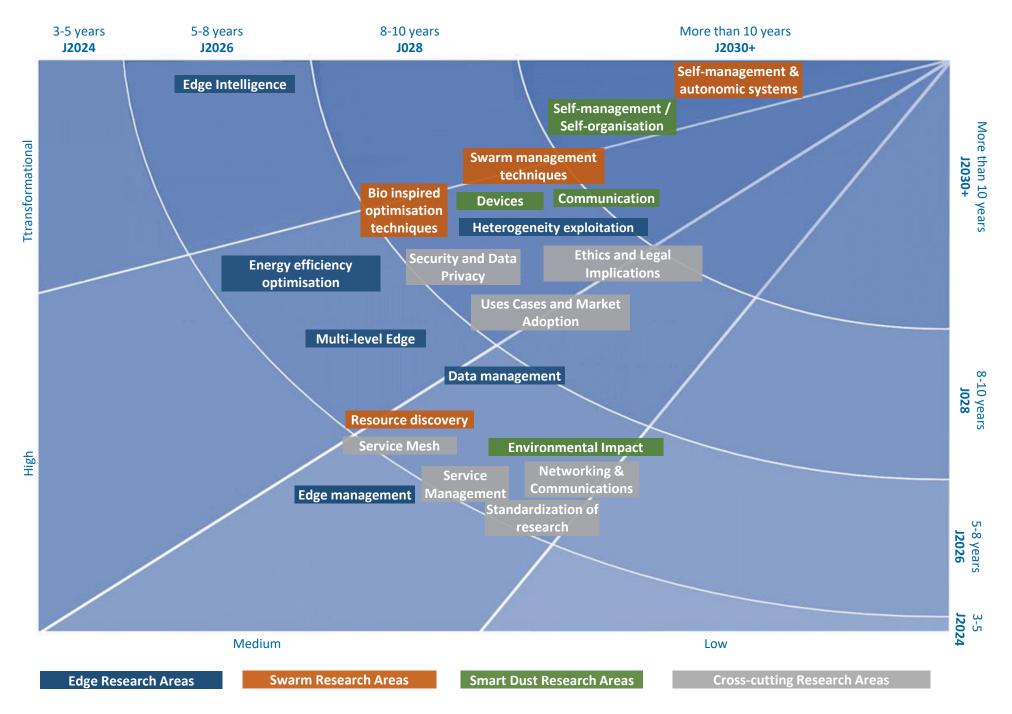
Smart Dust

sensors as well as "bundles of power, computing and communications electronics that are cheap and abundant enough to scatter

brings together edge and nanotechnology towards a new horizon beyond current formulation of Edge and Swarm computing





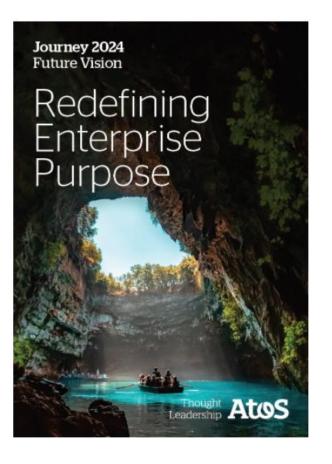


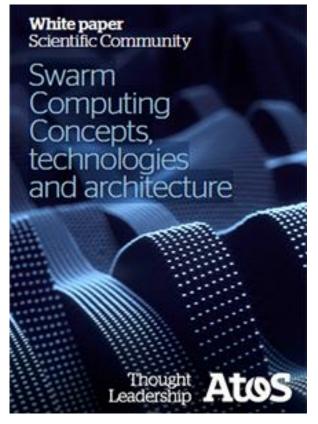


Atos Scientific Community

- Journey 2024,
 https://atos.net/en/lp/journey-2024
- Swarm Computing Whitepaper
- https://atos.net/wp-content/uploads/2018/12/atos-swarm-computing-white-paper.pdf

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Thank you



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