Swarm Computing

► **Overall description of the course and rationale:** Swarm Computing is a concept defined by Atos in J2020. It defines a long-term vision for the evolution of highly distributed computing. Swarm Computing is defined as an open distributed runtime for decentralized management and coordination of multiple and diverse devices. This aim to overcome inefficiencies of centralized management mechanisms given the number of devices, their locality and the fact that they are governed under different administrative rules and principles. In this session we will present on-going activities being performed at Atos to materialize this concept.

► **Learning objectives / outcomes:** Get an overview of the Swarm computing concept, its defined reference architecture, PoCs and on-going related projects.

► **Delivery Methodology:** Presentation

► **Key takes away for the participant:** Status update about Swarm computing developments at Atos.

Atos

Professor Biography
Ana Juan Ferrer, Martin Pfeil

► Ana Juan Ferrer: Head of Next Generation Cloud Lab at Atos Research & Innovation. Distinguished Expert in Cloud Domain. Scientific Community member, Edge & Swarm computing Track. Leader of Future Cloud Cluster for EU Commission, DG Connect, Cloud Unit.

► Martin Pfeil: CTO Global Siemens Account, Distinguished Expert in Infrastructure Domain, Scientific Community Member, Edge & Swarm Computing Track.

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