

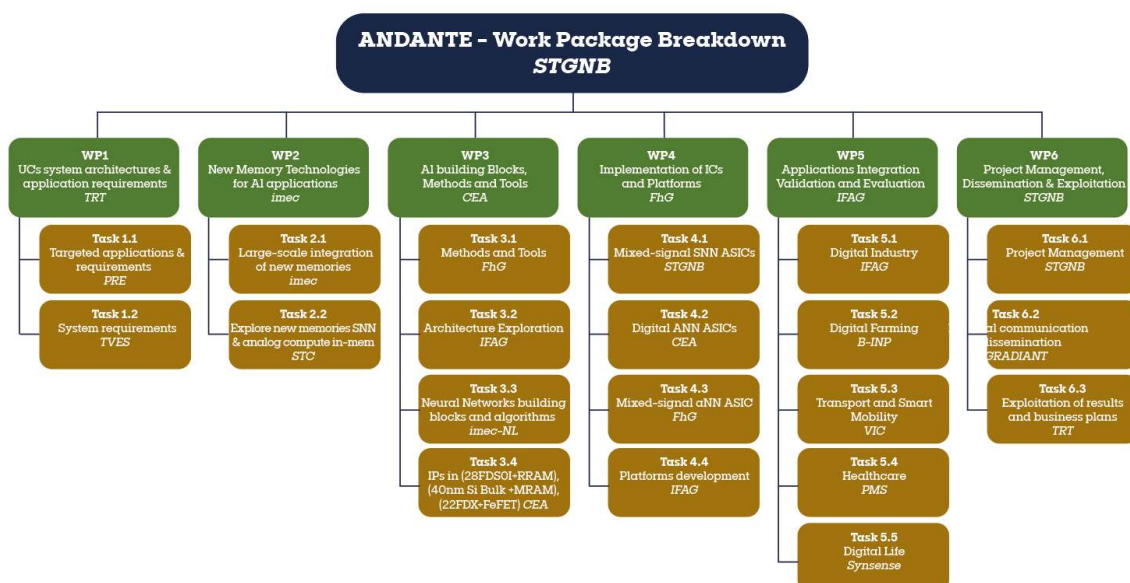


Governance

ANDANTE comprise 30 partners from 7 Countries. The project is led by STMicroelectronics (Grenoble 2) SAS. The consortium partners are

- 3 semiconductor companies to fabricate and design a new generation of ICs with eNVM capabilities.
- 3 fabless to design a new generation of ICs with AI capabilities for data analysis in the edge.
- 4 OEM in charge to develop new and smarter devices for the Edge.
- 5 application developers
- 2 end-users to develop innovative and cost- effective solutions.
- 8 RTOs (Research and Technology Organisations)
- 4 academia (B-INP, UZH, TUD, FAU) to increase their know-how and disseminate it through academic courses, technology transfer to the SMEs and large groups.

ANDANTE is structured in 6 Work Packages to carried out its goals and deliver their associated results.



- **WP1 Use case system architectures description and application requirements:** Define the use cases architecture, system and applications requirements:
- **WP2 New Memory Technologies for AI applications:** Enable new memory technology solutions such as SOT-MRAM for analog compute in memory, high density and low power RRAM and FeFET eNVM.
- **WP3 AI building Blocks, Methods and Tools:** Explore and benchmark the different architectures and the neural networks SW to be implemented. Design different Foundation IPs using different type of memory technologies (RRAM, MRAM and FeFETs)
- **WP4 Implementation of ICs and Platforms:** Develop different ASICs (mixed-signal SNN, one digital ANN and mixed-signal analog NN), the firmware and the platforms to be used in the use cases.
- **WP5 Applications Integration, Validation and Evaluation:** Integrate the HW and SW components to validate, demonstrate, and evaluate, in real conditions, the developed SNN, ANN and neuromorphic hardware prototypes in different application domains.
- **WP6 Project Management, Dissemination and Exploitation:** Oversees the project as a whole and ensures the objectives are met on time and within budget. Disseminate the project results and ensure that each partner defines its exploitation plan for business creation.



"This project has received funding from the ECSEL Joint Undertaking (JU) under grant

agreement No 876925. The JU receives support from the European Union's Horizon 2020 research and innovation programme and France, Belgium, Germany, Netherlands, Portugal, Spain, Switzerland".



©2021 ANDANTE - **Privacy Policy** - webdesign: chrisgaillard.com