

FIT-4-NMP Networking and Brokerage Event

organized by FIT-4-NMP H2020 project at the 45th International Semiconductor Conference - CAS 2022

Innovative solutions for Industry 5.0 technologies

The EC defined six categories of technology expected to provide catalysts for Industry 5.0. The first three categories are already fully embedded into the current Industry 4.0 paradigms.

SIS has developed solutions based on these technologies under R&D projects but also in response to ongoing customer requirements.

EC's six categories of technology	SIS's project
Digital twins and simulation	SMARTech uses MATLAB and Simulink to build digital twin in smart microgrids
Data transmission, storage, and analysis technologies	Smart microgrid Controller project is already implemented in Monsson microgrid,
Machine learning and AI technologies	Technologies used in Prevention project
Human-machine interaction	In various R&D projects and industrial applications are developed human machine interfaces both for operation, maintenance and development
Bio-inspired technologies and smart materials	
Technologies for energy efficiency, renewables, storage.	

Short description of Organization/Laboratory/Department:

SIS SA is an innovative SMEs, a system integrator operating in the field of industrial automation for oil and gas, cement, renewable energy, microgrids, power transmission and distribution, water management. SIS has experience in process operation and control, risk and hazard control, asset management, IIoT, industrial operator training procedures, process modelling and identification, and human-machine interfaces.

SIS SA was involved in R&D projects covering various fields from advanced manufacturing- smart sensors and actuators, IoT, IIoT, signal and image processing, wearables, communication technologies, data acquisition, safety instrumentation, asset instrumentation, biomedical devices, remote monitoring, e-learning. The R&D activity of SIS has as main objective facilitating the adoption of new digital technologies in different sectors, mainly addressed to process control and automation systems.

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Reference of Call/ topic of interest.

Potential contribution/ main ideas:

Instrumentation, process control, safety and security solutions, operational technology expertise can join any consortium that develops a competitive proposal,

