THE FIRST INTERNATIONAL ONLINE VIDEO-CONFERENCE ON ELECTRICITY TRANSMISSION AND DISTRIBUTION SUCCESSFULY MANAGED BY THE ROMANIAN ENERGY CENTER – CRE

6 May 2020, Emiliano MARQUESINI

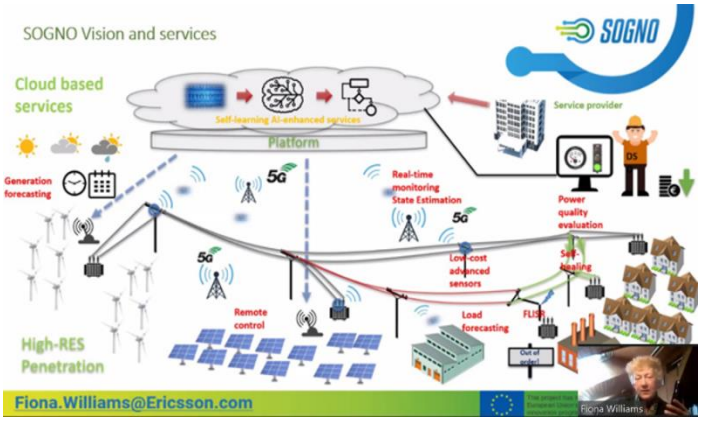
Romanian Energy Center (CRE) organized the first International Online Video Conference under the title *„Integrated Approach in the Management and Operation of Electricity Transmission and Distribution Networks*" on 30 April. The format of the Event was an International Stakeholders Consultation focusing on the preliminary results and the synergies within the European H2020 Projects SOGNO, WISEGRID, PHOENIX, CROSSBOW, EDDIE and DEFENDER.

Below a summary of the first-half Sessions and Panel:

Session 1.1 /SOGNO – Service Oriented Grid for the Network of the Future

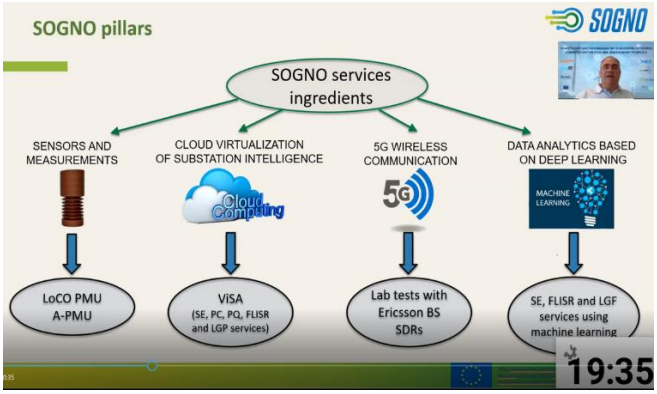
Fiona WILLIAMS (SOGNO Project Coordinator, ERICSSON) presented the highlights of SOGNO achievements and results. SOGNO project, significantly contributes to improving the automation of the MV and LV Distribution Networks. Artificial Intelligence algorithms where used across various Services during the project lifespan. As a key takeaway message, Fiona said ***"the main measures to increase network resilience is to deploy more automated services in the MV and LV Grid"***

Those interested to know more about SOGNO and the follow-up projects PLATONE and EdgeFLEX, you are welcome to contact Fiona.



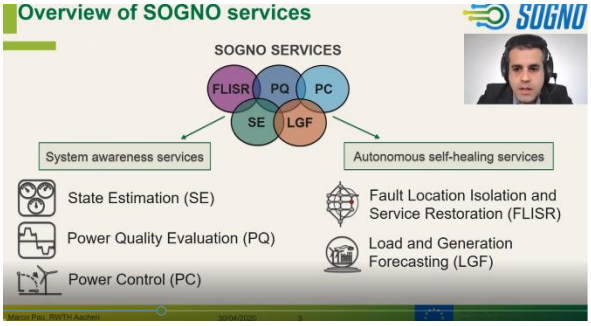
Session 1.2 / SOGNO – Services and Solutions – LIVE Demonstrations

Prof. Antonello MONTI (Technical Director SOGNO Project, RWTH) presented the main project philosophy and the 'four pillars' foundation, and said: ***"SOGNO project team are very pleased and proud with the legacy from SOGNO, as it has been picked up by two other projects, thus enhancing and extending the value to stakeholders"***. Machine Learning has been implemented and adopted as a mechanism to improve overall services performance and accuracy. Regarding CAPEX and OPEX, SOGNO project is total alignment with the new directives from the European Commission, in regards to TOTEX approach.



Session 1.3 /SOGNO – Services and Solutions – LIVE Demonstrations

Marco PAU (Project Manager SOGNO Project, RWTH) presented a very interesting live demonstration of SOGNO services, and summarized the key take-ways: " ***"a) Low cost deployment of ADVANCED Services is possible, b) Innovative ICT, IOT and Data Analytics unlocks Advanced Functionality, c) Open Platforms and Modular Services are Key Success Factors towards cost-effective, easy-to-deploy Smart Grid solutions""***.

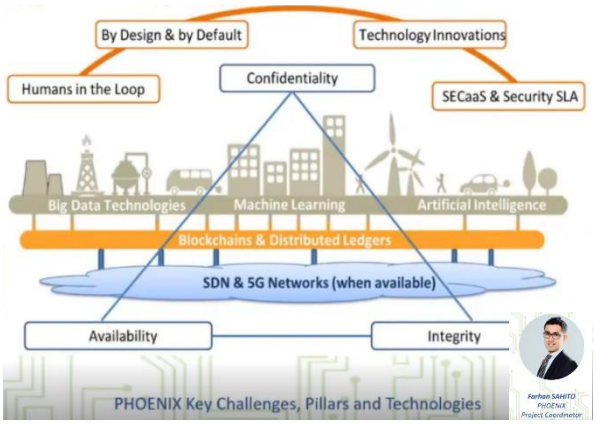


Session 1.4 / WISEGRID – Wide Scale Demonstration of Integrated Solutions and Business Models for European Smart GRID

Álvaro NOFUENTES PRIETO (WiseGRID Project Coordinator, ETRA) made a short presentation of the project objectives and the nine "Wise tools" that were developed by the project team. Alvaro said: ***"citizen engagement is paramount, local workshops were successfully conducted in each Pilot Site. Standardisation was also addressed via close cooperation with CEN/CENELEC organization."***

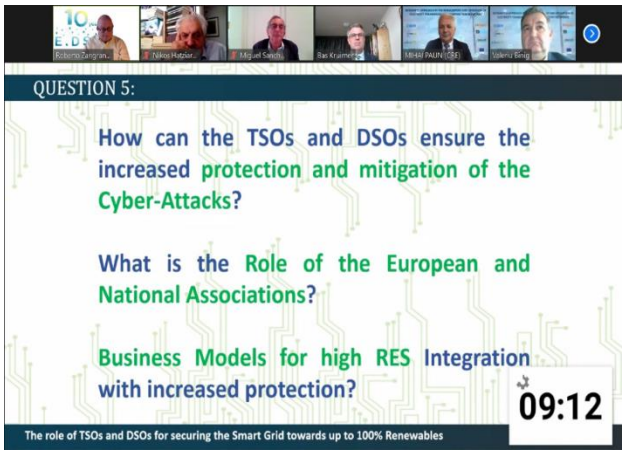
Session 1.5 /PHOENIX - The European Smart Grid with increased protection and fast mitigation of the cyber-attacks against assets and the networks of the future

Dr. Farhan SAHITO (PHOENIX Project Coordinator - CAPGEMINI Technology Services - France), introduced PHOENIX project Objectives: to Enhance the Protection of Electrical Power and Energy System (EPES) across Europe, via Prevention, Fast Detection and Mitigation of Cyber Attacks. He added: "***Phoenix will focus on a self-learning and centralized ecosystem, to protect existing and new EPES components, from known and un-known cyber-threats, while ensuring data-privacy***. ***Five (5) Large Scale Pilots, in Italy, Slovenia, Germany, Greece and Romania, will be deployed and validated, along with other critical infrastructure and Cross-Border Security and Privacy issues***".



Panel Discussion – The role of TSOs and DSOs for securing the Smart Grid towards up to 100% Renewables

The Panel was chaired by **Mihai PAUN – Vice-President** CRE, and composed by the following panellists: ***Roberto ZANGRANDI*** *Secretary General E.DSO for Smart Grids,* ***Nikos HATZIARGYRIOU*** *Vice-Chair ETIP-SNET,* ***Corina POPESCU*** *Chief Executive Officer ELECTRICA,* ***Silvia VLĂSCEANU*** *General Director ACUE,* ***Mirela DIMA*** *Director Regulatory Affairs CEZ Romania,* ***Valeriu BINIG*** *Director Regulatory and Antitrust ENEL Romania,* ***Bas KRUIMER*** *Business Director Intelligent Networks & Communication DNV GL Netherlands,* ***Miguel Angel SÁNCHEZ-FORNIÉ*** *EDDIE Project Coordinator COMILLAS Universidad Pontificia.*



The Panel speakers went directly into the core part of the subject underlining the expanded responsibilities of the DSO due to large penetration of renewables and specifically of the distributed generation. The traditional cooperation between DSOs and TSOs will need to develop based on such additional responsibilities of DSO (that would move towards some specific activities of system operator, beside the usually considered as grid operator) and keep the track of extended digitalisation of the grid processes with special attention on cybersecurity.