



How can operators capitalize on outputs?

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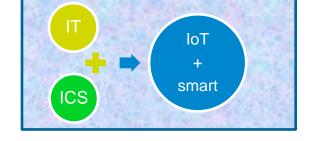


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The new challenge in energy

Quick changing landscape

- Less centralized, low/non carbon production
- More uncontrolled, decentralized power production from renewable energy sources
- IoT, Industry 4.0
- Introduction of Smart Solutions
- Cybersecurity as understood until now
 - IT related, mature and reasonable under control
 - ICS is underway, gaining maturity. Still a long way to go before obtaining compliancy
 - Risk assessment and management is gaining importance
- The need
 - Better understanding of the merging IT and OT security threat landscape and counter measures
 - Test facility that reflects the future, hyperconnected ecosystem with all types of energy producers, consumers and storage







External input

- External contacts help in understanding the breach of the problem and to create the correct mindset that is needed to position the company on the cyber threat landscape
- These external contacts vary from specific ICS end user groups to public-private platforms to European related entities like ENISA and JRC
- The combination of the changing energy landscape and quick emerging new cyber threats put additional constraints in adequately following up this issue
- The JRC ERNCIP Thematic Group IACS and Smart Grid drafted the landscape on issues like :
 - Testing (component versus system)
 - Training
 - Certification

In the top 10 of *business continuity threats* cyber attacks rank # 2 (Gartner, 2015)

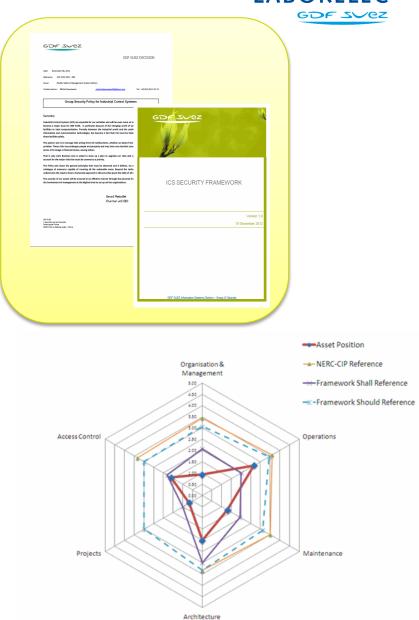




GDF Suez,

taking benefit from external input

- Internal guiding documents:
 - Group wide Policy for ICS Cybersecurity
 - Guiding Framework for all entities using ICS
- The documents to be reviewed in 2015
- Training course
- Benchmarking by means of Health Check
- Content based on input from different Public/Private Platforms (ERNCIP, EuroSCSIE, ENISA, FP7 ValueSec, WIB, VGB, ..)
- Internal CERT and support center, CoP
- How to deal with smart solutions





Did we close the gap?

Previous speech: "Building the bridge between practice and research by identifying the gaps"

- Situation at operators, looking for risk driven, low cost solutions
- Topics addressed by research are often targeting specific vulnerabilities
- E.g. patching systems is still an issue
- Things are moving slow but, ... move in the positive way
- Time to market of research outcomes is not always compatible with the need of the operational field. New vulnerabilities come by with the speed of light
- Product testing is well under way, but the ideal test field still lacks



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