

Cockpit CI

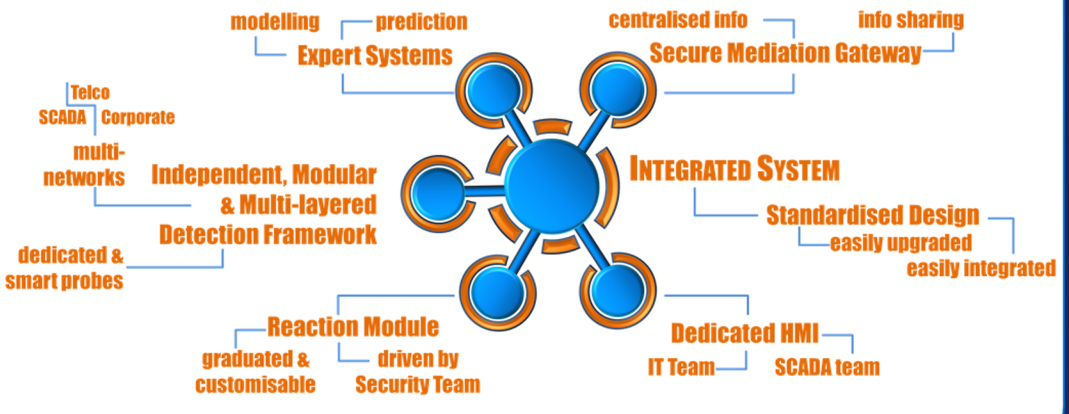
Cybersecurity on SCADA: risk prediction, analysis and reaction tools for Critical Infrastructures



Innovative Approaches

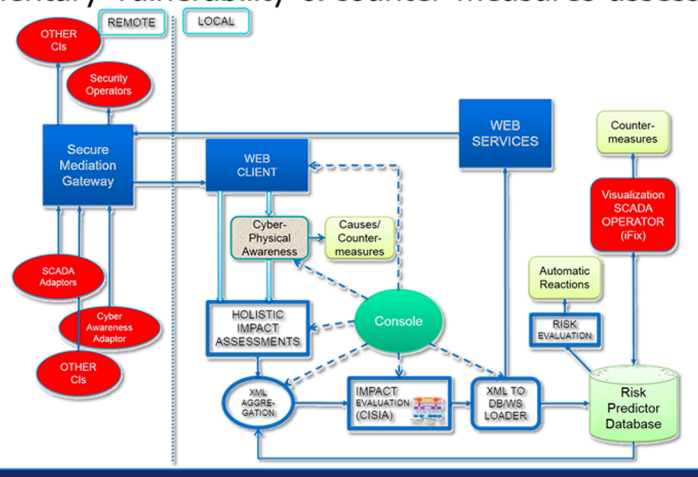
Integrated System

- Solution design addressing the process from event detection to risk prediction
- Adaptable services easily embeddable in existing architecture.
- Security awareness support for isolated or interdependent CI(s).



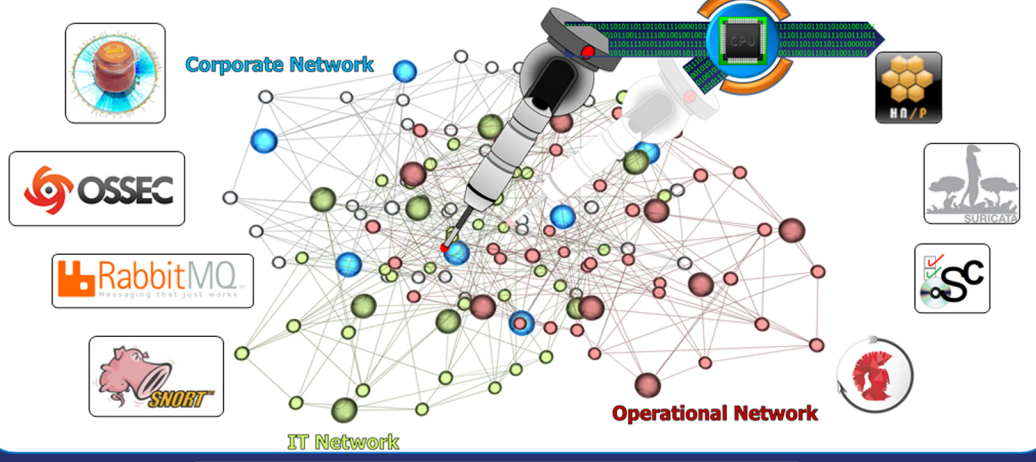
Risk Predictor

- Based on the interdependency analysis engine CISIA & Cyber propagation models for holistic effects assessment.
- Integration of physical faults and cyber-attacks.
- Complementary vulnerability & counter-measures assessment.



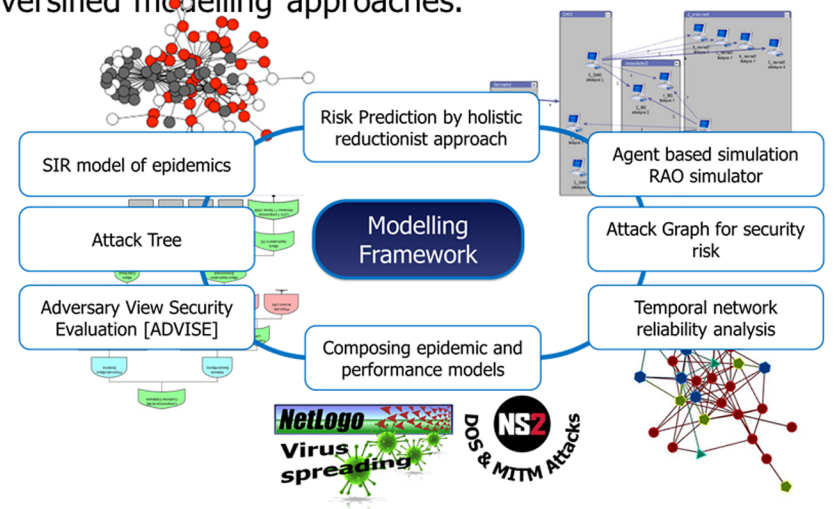
Multi-layered Detection

- Infrastructure security insight through a smart event feed system.
- Advanced real-time detection mechanisms and strategies supported by smart probes and correlators.
- Distributed systems along all levels of the ICS infrastructure.



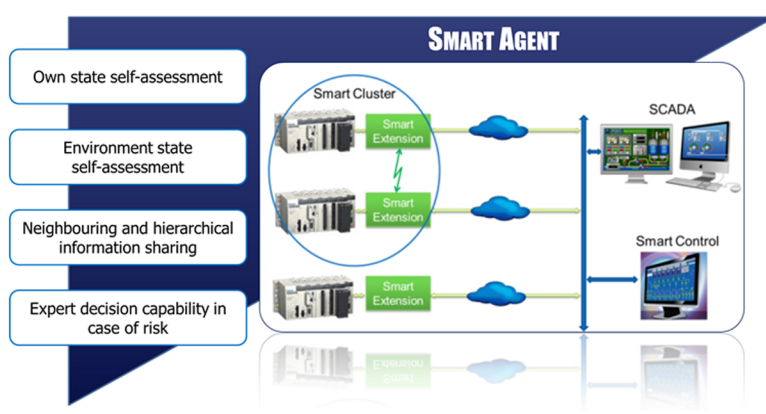
Risk Scenarios Modelling

- Risk scenarios based on interdependent systems architecture.
- Investigation of both cyber-attack & operational impact modelling.
- Diversified modelling approaches.



Smart RTU

- Smart agents at the lowest level (RTU).
- Information and actions cross-checking.
- Cluster deployment to increase dependability.



Hybrid Validation

- Based on the Hybrid Environment for Design and Validation (HEDVa) of the ICS designed by IEC Laboratory.
- Mirror image of CIs including virtual and real systems and traffics.
- Customised test environment for CockpitCI scenarios and tools.

