

The Fortinet logo consists of the word "FORTINET" in a bold, black, sans-serif font. The letter "O" is replaced by a red square with a white grid pattern. A vertical line is positioned to the right of the logo.

FORTINET®

Secure OT Summit 2022

護航 OT/IT 融合 創新數位發展

邊緣安全數位控制與永續經營服務

張明哲 Ben Chang

Schneider Process Automation 專案及維護營運 協理



Digitization Efficiency Sustainability



Electrification
SUSTAINABILITY



Digitization
EFFICIENCY

THE 'CLIMATE GROUP

RE100

'CLIMATE GROUP
EP100

'CLIMATE GROUP
EV100



邊緣安全數位控制與永續經營服務 (Edge Safety Digital Control and Sustainability Services)

Presented by: Ben Chang

Life Is On

Schneider
Electric

Agenda

1. **EcoStruxure Plant**
2. **PIVOT Consulting and Sustainability Services**
3. **Digital Solution - EcoStruxure Advisors**
 - System / Maintenance Advisor
 - Control Advisor
 - Safety Advisor
 - Resource Advisor
 - Plant Advisor
4. **Edge Safety Control – End to End Cybersecurity Services**
5. **Q & A**





Drives Measurable Operational Profitability Improvement Safely

EcoStruxure Plant
Innovation At Every Level

PIVOT Consulting and Sustainability Services

(5) 智慧生產, 營運卓越與永續經營

(4) 智慧管理資產與設備

(3) IT/OT 資料整合提升企業整體決策

(2) 設備數據資料整合化

(1) 營運管理資料數位化

工業4.0 數位化五階段

AVEVA Software (Digital Twin)
Simulator (PROII)
OTS (DynaSIM)
Asset Performance Management (APM)
PriSM / IntelaTrac
Advanced Control (APC)

EcoStruxure
Resource Advisor

EcoStruxure
Plant Advisor

EcoStruxure Control Advisor
EcoStruxure Safety Advisor

EcoStruxure System Advisor
EcoStruxure Maintenance Advisor

Magelis
x and Industrial PC

Modicon

EcoStruxure
Hybrid DCS

EcoStruxure
Foxboro DCS

EcoStruxure
Triconex Safety System

SCADA Systems

EcoStruxure
Power Monitoring Expert

Magelis
HMI

Sensors & RFID

Process
Instrumentation

TeSys

Altivar

Okken & Blokset iPMCC



DIGITAL

PIVOT Consulting and Sustainability Services

Life Is On

Schneider
Electric

Here comes **Pivot**

A partner to co-create efficient, sustainable and future-ready businesses through people-centric digital transformation.

Pivot Consulting

A team of experienced consultants passionate in delivering transformational, operational and functional changes.

- *Shift mindset*
- *Reimagine holistic customer experience*
- *Drive business transformation with human ingenuity.*
- *Co-create new values and business models.*

APAC Domain Experts and Delivery team

600 operation experts in various segments

Pivot Engineering

A team of technologists specialising in innovation and digital solutions.

- *Power co-development of solutions*
- *Deliver innovation and scale up with agility.*
- *Upskill and build our engineering capabilities for an ever-evolving digital world.*

Schneider Electric Partner Ecosystem

ESS, AVEVA, Strategic technology partners

Let's do this.

Pivot your thinking

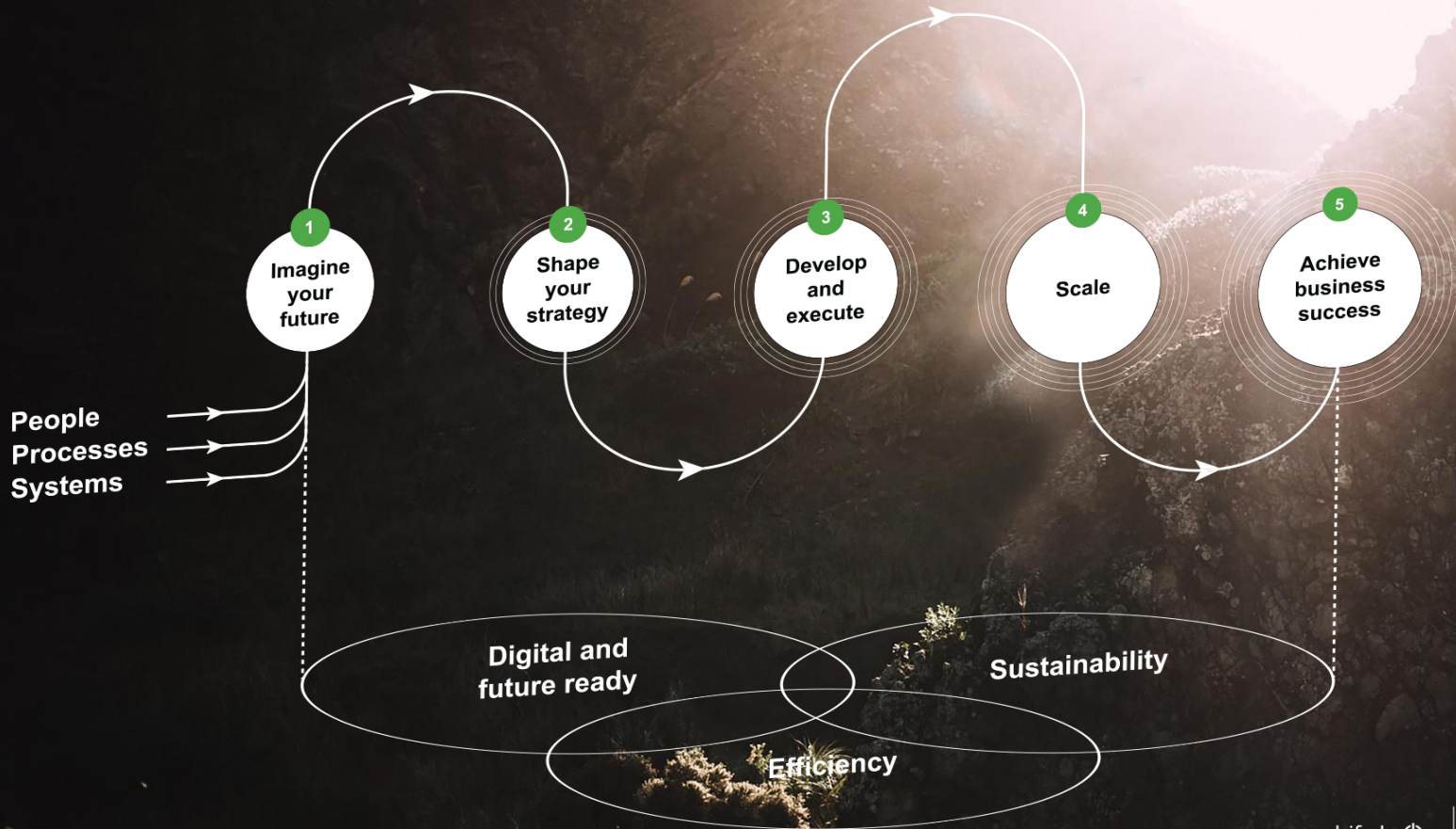
Imagine your future

Vitalise your workforce

Orchestrate innovation

Transform experience, **transform** business

Partnering with PIVOT





DIGITAL

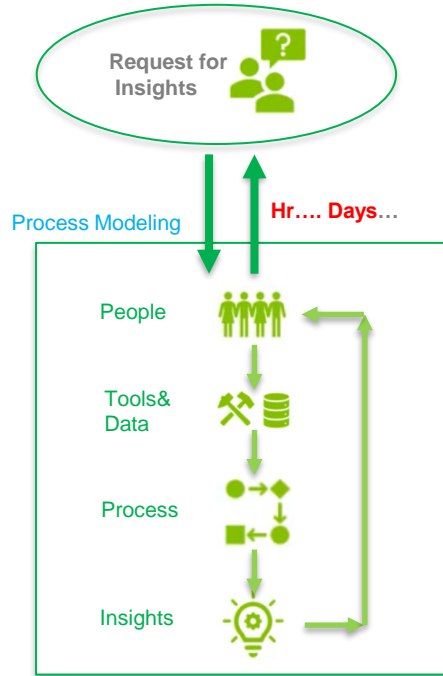
Digital Solution - EcoStruxure Advisors

Life Is On

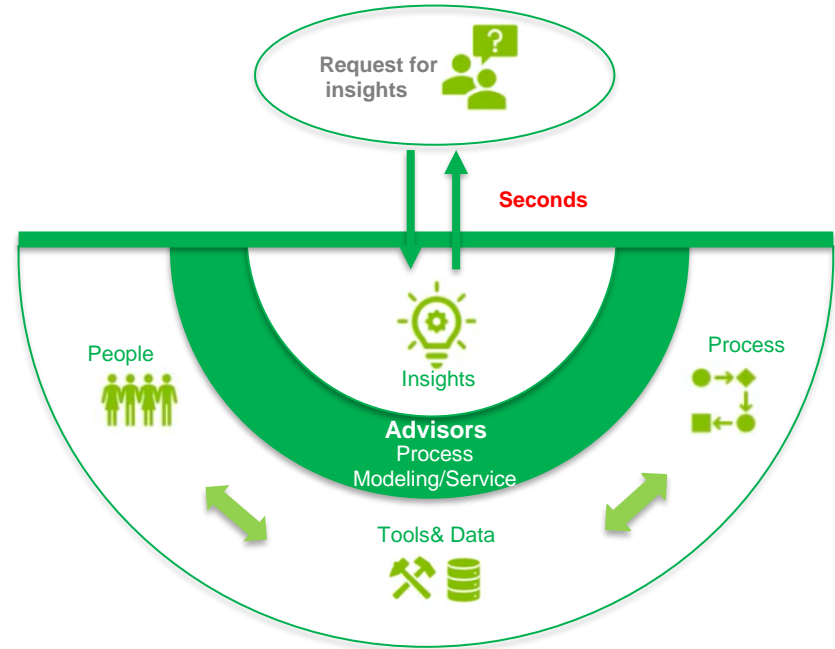
Schneider
Electric

EcoStruxure Advisors -- Customer Experience

Today Services



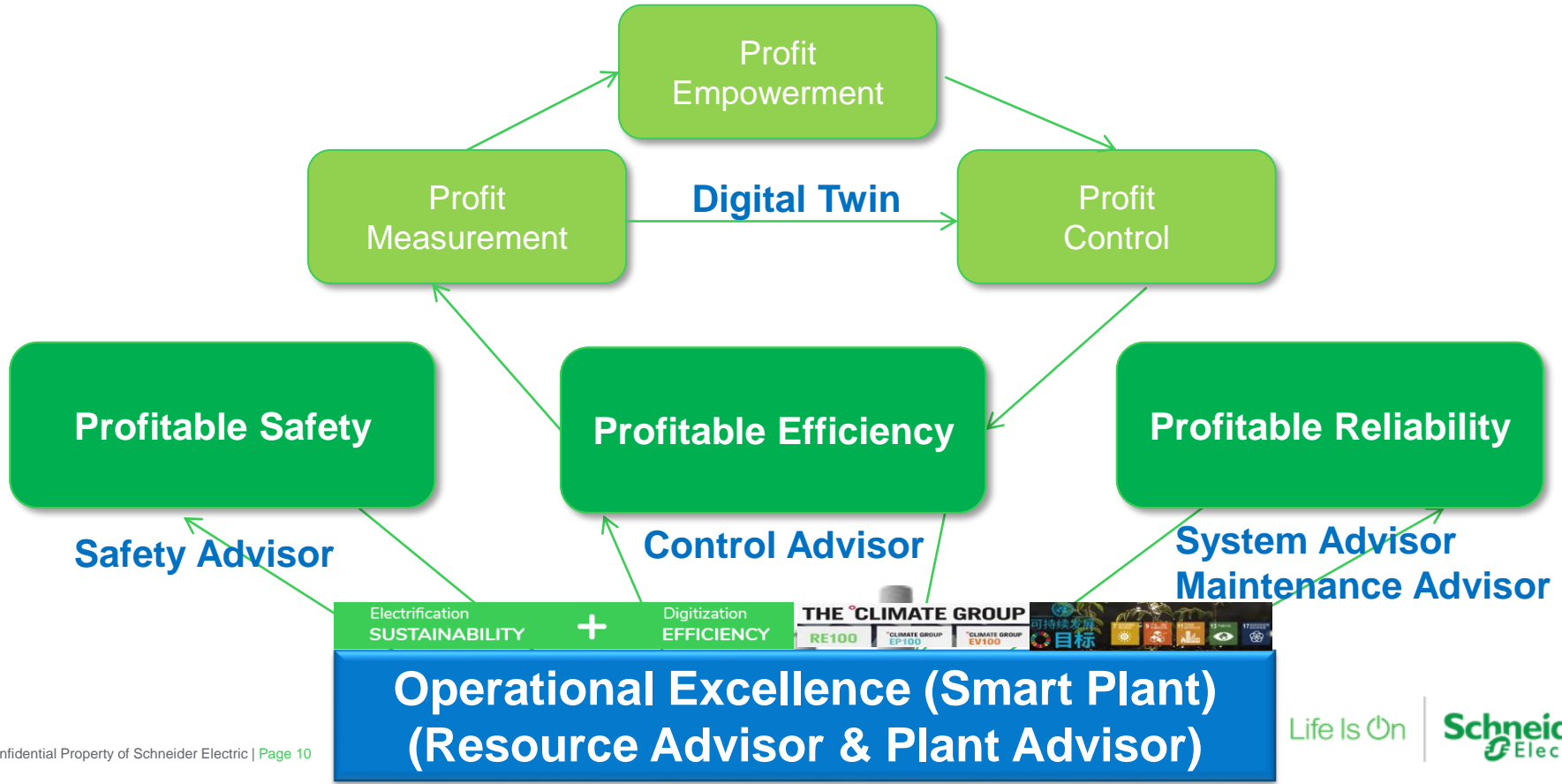
Exceptional personal experience Services



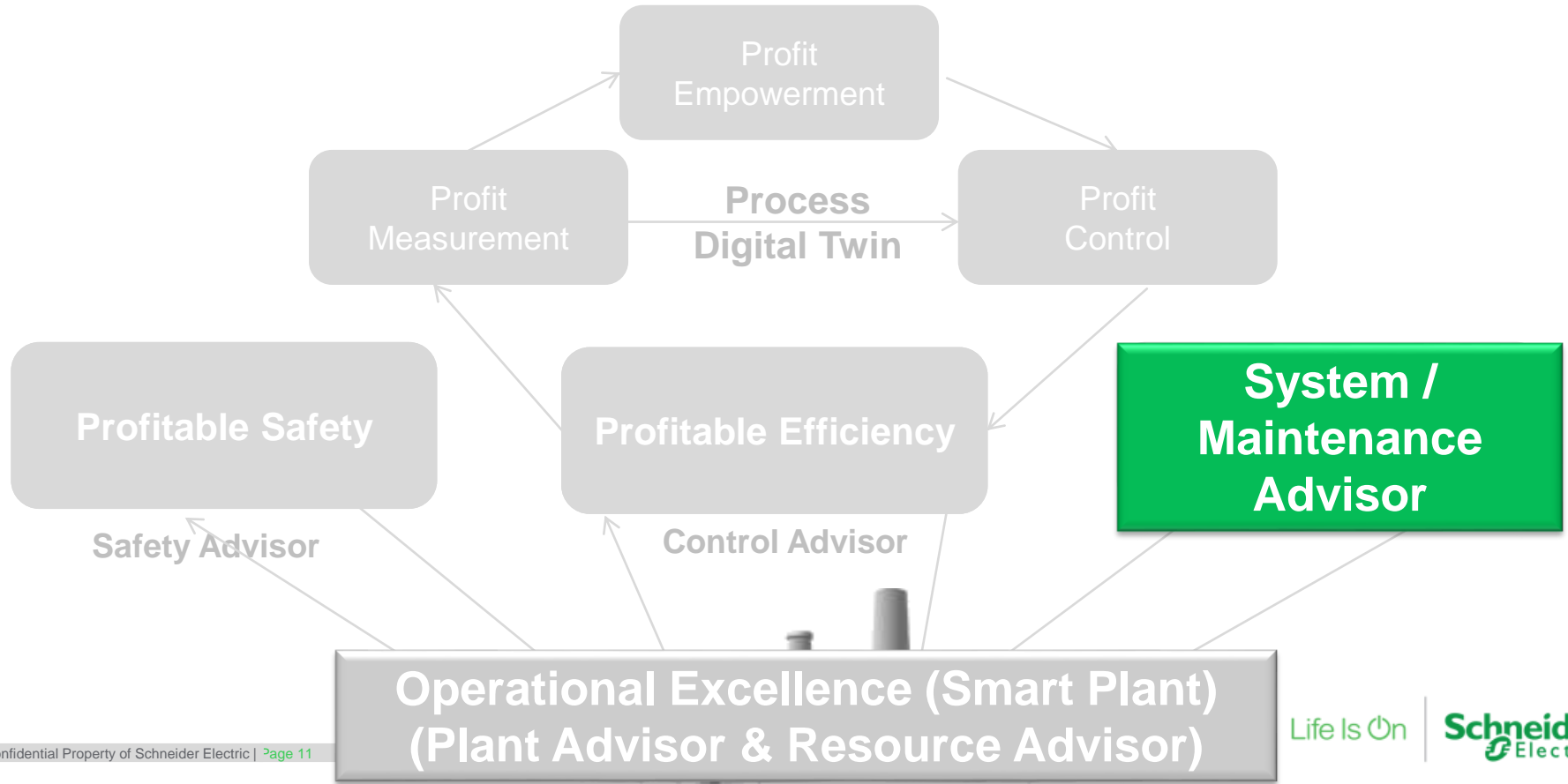
Data from Platform
Data from financial System
Data from Process
Data from Customer



EcoStruxure Plant – Advisors / Digital Twin



EcoStruxure Advisors – System & Maintenance Advisor



System Advisor – System Integrity & Alarm Management

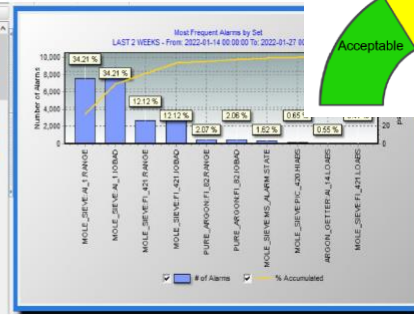
Easy, Efficient, Effective

- System Auditor is a Configuration and System Auditing tool which provides:
 - Configuration Back Documentation
 - Complete I/O Management
 - Complete Change Tracking
 - Alarm Management
 - Operator Action Analysis
 - System Health Monitoring
 - Error Checks / Change tracking:
 - Documentations
- Alarm Shelving Utility
 - Manually or Dynamically Shelf Alarms or Groups of Alarms
 - Uninhibit based on Time or Event
 - Complete Audit Trail of Shelved Alarms
 - Reports of ASU shelved Alarms and Alarms shelved outside of ASU

The screenshot displays the System Advisor interface. The main window shows a process flow diagram with various equipment and streams. A 'Broadcast/Multicast traffic' window is open, showing a line graph of packet counts over time. A 'Mapping Overview' window is also visible, showing a simplified view of the process flow.

Frequent Alarms for Selected Dataset

COMPOUND	BLOCK	ALARM TYPE	# of A	% of ALA	% A DESCRIPTION	PRIOR
MOLE_SIEVE	AT_1	RANGE	7570	32.7507	32.7 MOLE SIEVE DIS- S	
MOLE_SIEVE	AT_1	IOBAD	7570	32.7507	65.2 MOLE SIEVE DIS- S	
MOLE_SIEVE	FI_421	RANGE	2652	11.0534	77.1 MS REGEN FLOW S	
MOLE_SIEVE	FI_421	IOBAD	2652	11.0534	88.7 MS REGEN FLOW S	
PURE_ARGON	FI_82	RANGE	458	1.9815	90.6 LIQUID ARGON P S	
PURE_ARGON	FI_82	IOBAD	458	1.9820	92.6 LIQUID ARGON P S	
MOLE_SIEVE	MS_ALARM	STATE	359	1.5532	94.2 MOLE SIEVE SEQ I	
MOLE_SIEVE	PIG_420	HIABS	143	0.6187	94.8 WASTE W/ PRES- S	
ARGON_GETTER	AT_14	LOADS	121	0.5235	95.7 NO ANALYSIS IN I	
MOLE_SIEVE	FI_421	LOADS	90	0.3894	95.7 MS REGEN FLOW I	
MOLE_SIEVE	TIC_427	LOADS	89	0.385	96.1 103.18 HEATER O I	
2ND_DIN	RL_031	STATE	64	0.2769	96.4 NO PUMP 1035A I	
1_ASP	DEW_1803	LOADS	35	0.1528	96.6 NO TO CUSTOMER I	
ARGOT_DIBONI	LI_0180N	LOADS	51	0.2206	96.8 01.80N CURRENT I	
PURE_ARGON	LI_80	RANGE	35	0.1514	97.0 PURE ARGON COI S	
PURE_ARGON	LI_80	IOBAD	35	0.1514	97.1 PURE ARGON COI S	
ARGON_GETTER	PIG_543	LOADS	34	0.1471	97.2 NO INLET TO GE I	
LASP_VAPOR	PIG_1009	LOADS	32	0.1384	97.4 LASP VAPORIZED I	
PURE_ARGON	PI_04	HIABS	28	0.1211	97.5 PURE ARGON COI I	
PURE_ARGON	AT_12	HIABS	27	0.1168	97.6 NITROGEN IN AR I	
PURE_ARGON	AT_13	HIABS	25	0.1082	97.8 OXYGEN IN ARG I	
PURE_ARGON	ASHH_13	HIABS	24	0.1038	97.9 PURE ARGON OX I	



Maintenance Advisor - Predictive Maintenance / KPIs dashboard

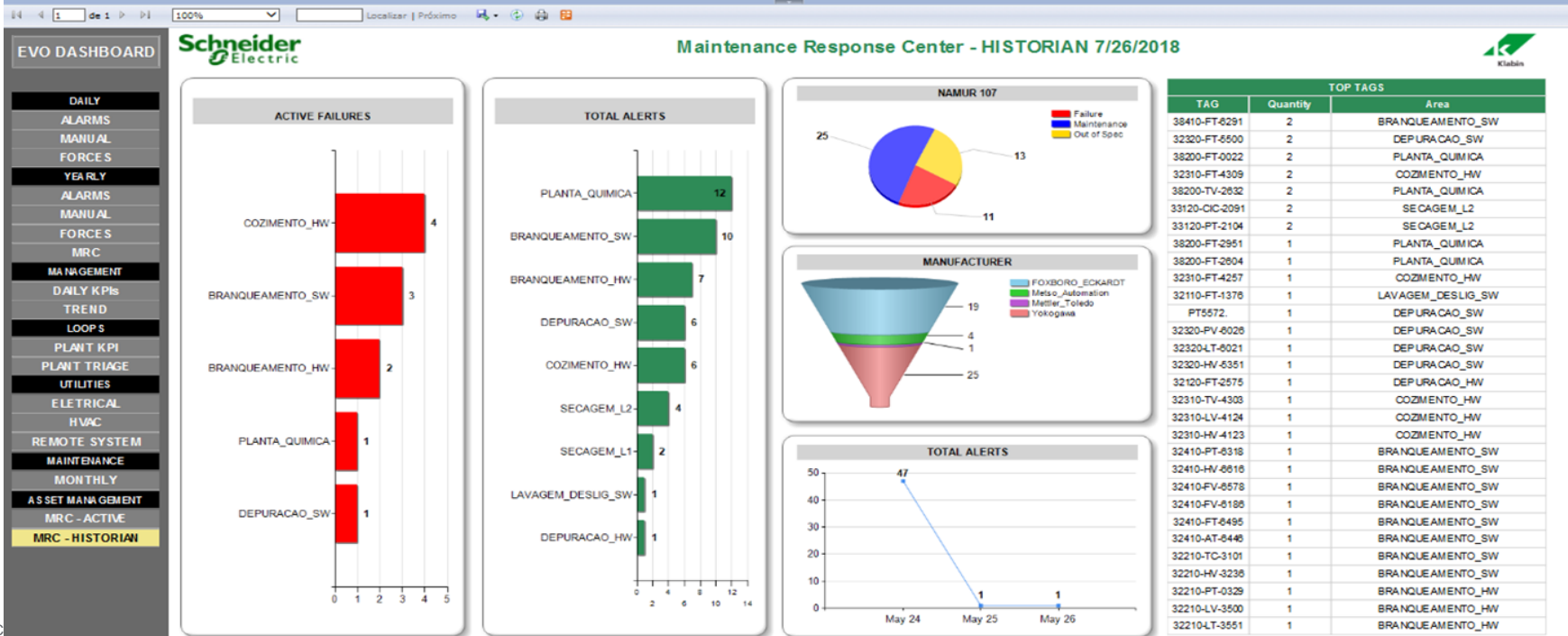
Anomaly detection

Potential cause identification

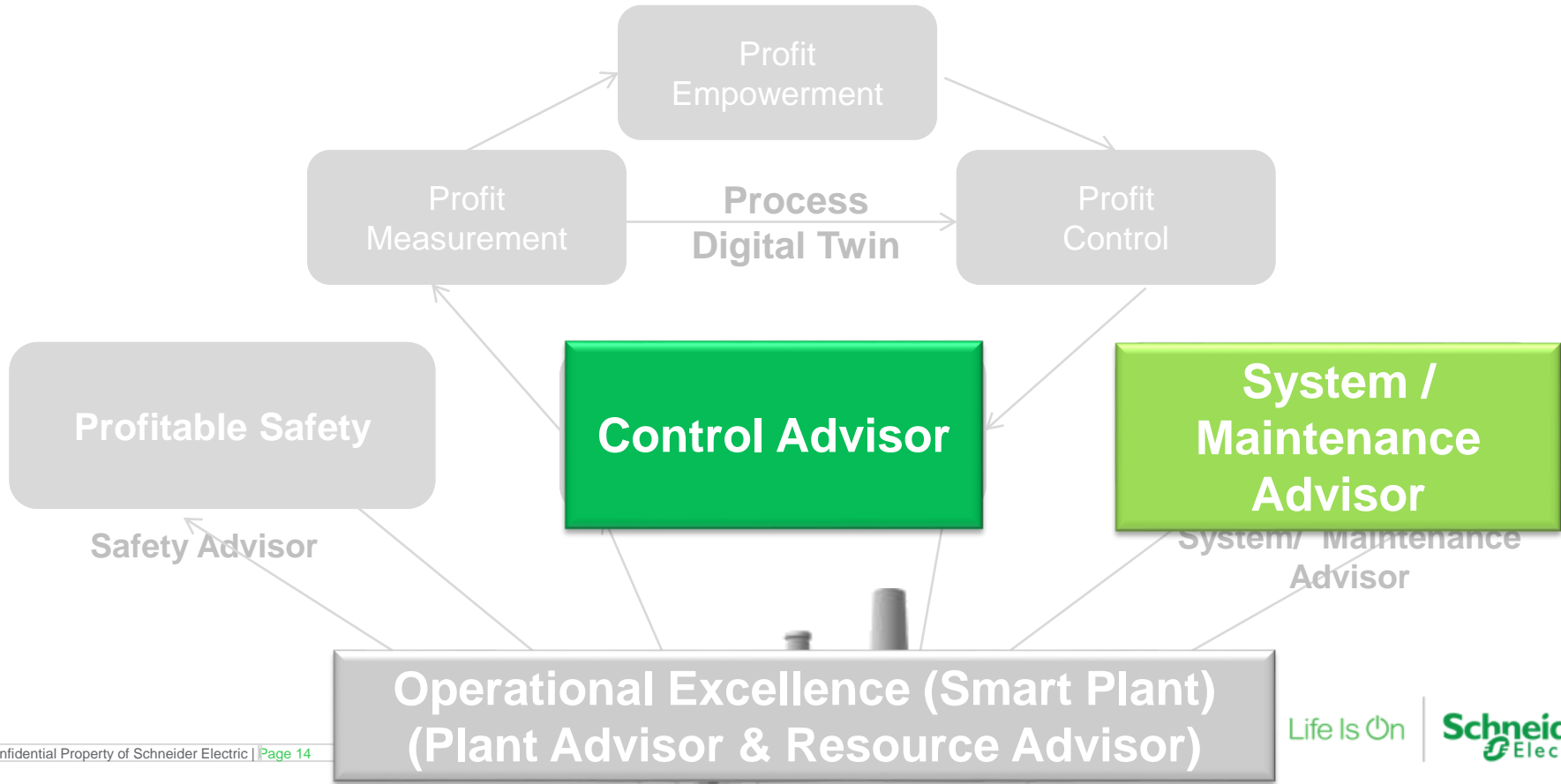
WO in SAP OM

Maintenance before failure

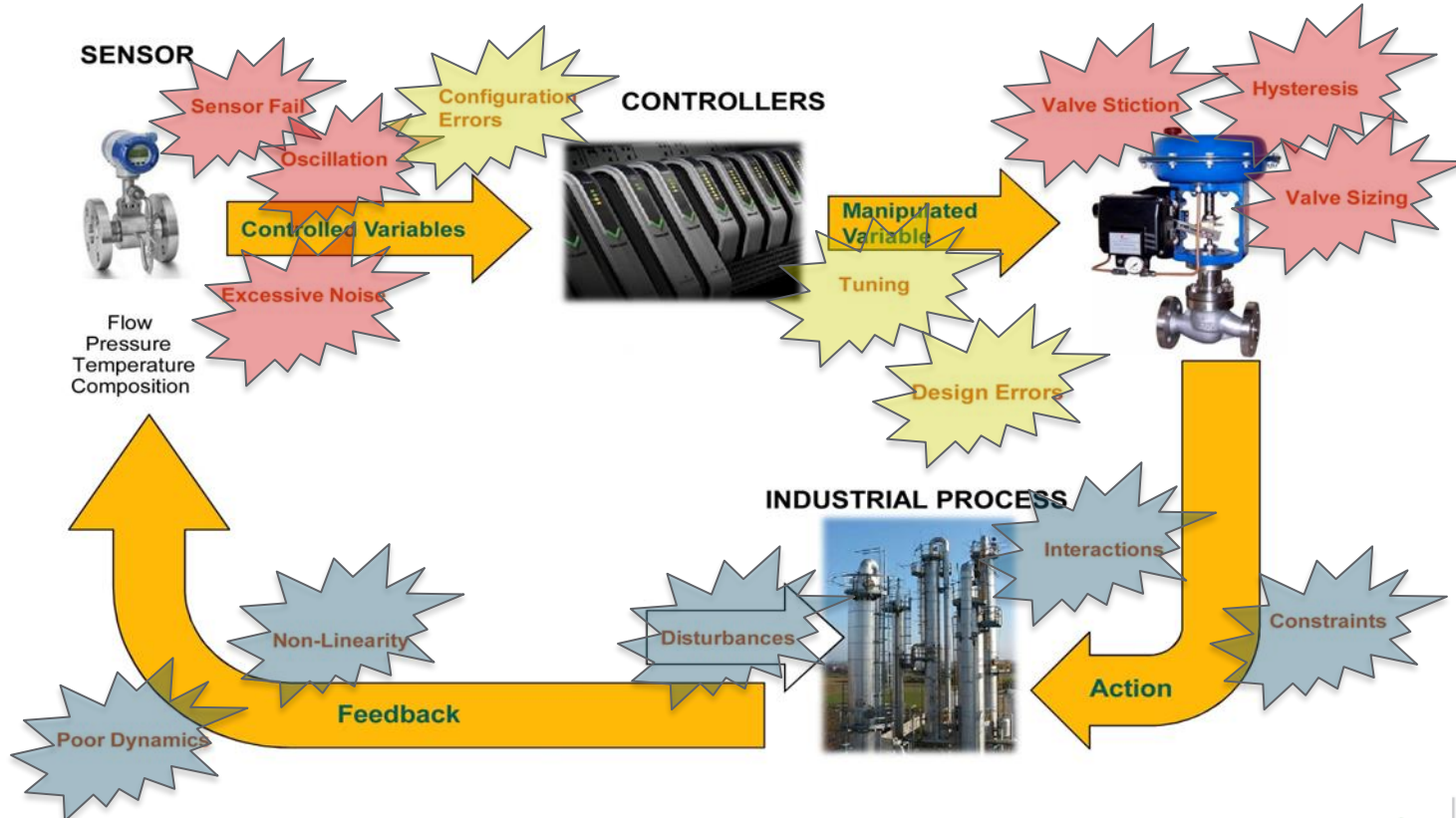
Feedback on actions



EcoStruxure Advisors – Control Advisor

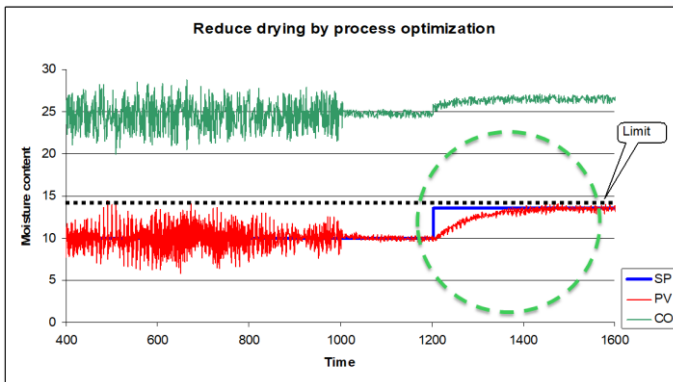
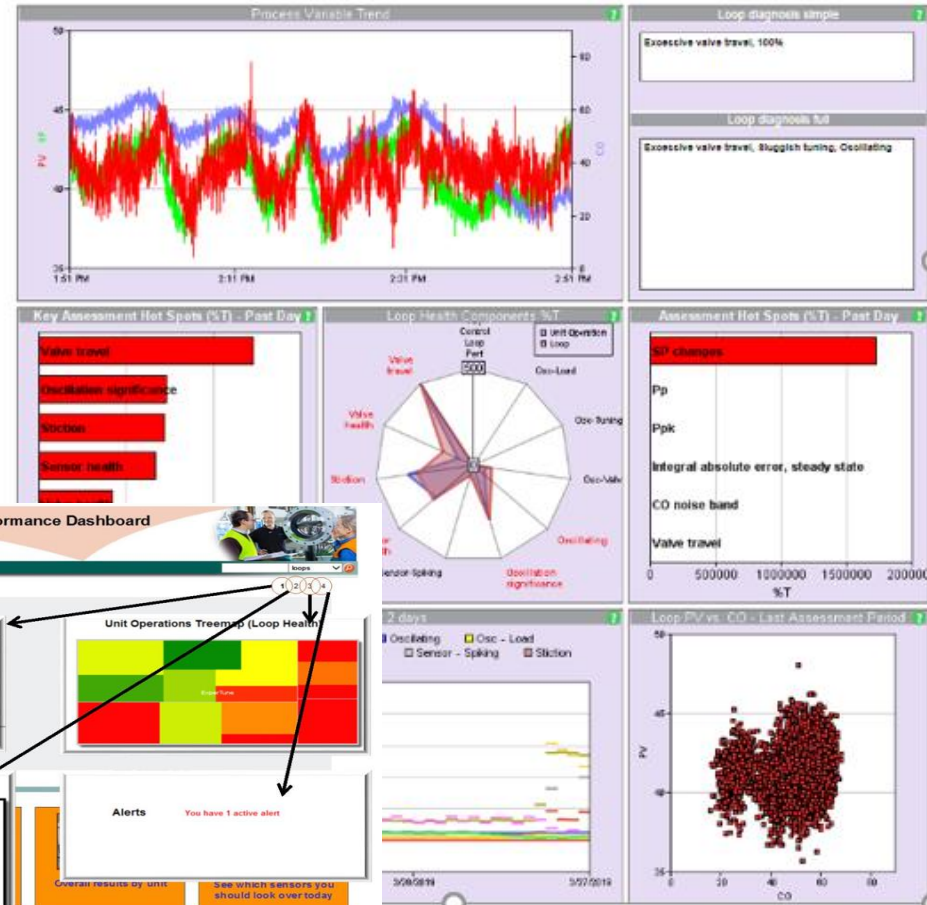


Control Advisor -- Existing Control Performance

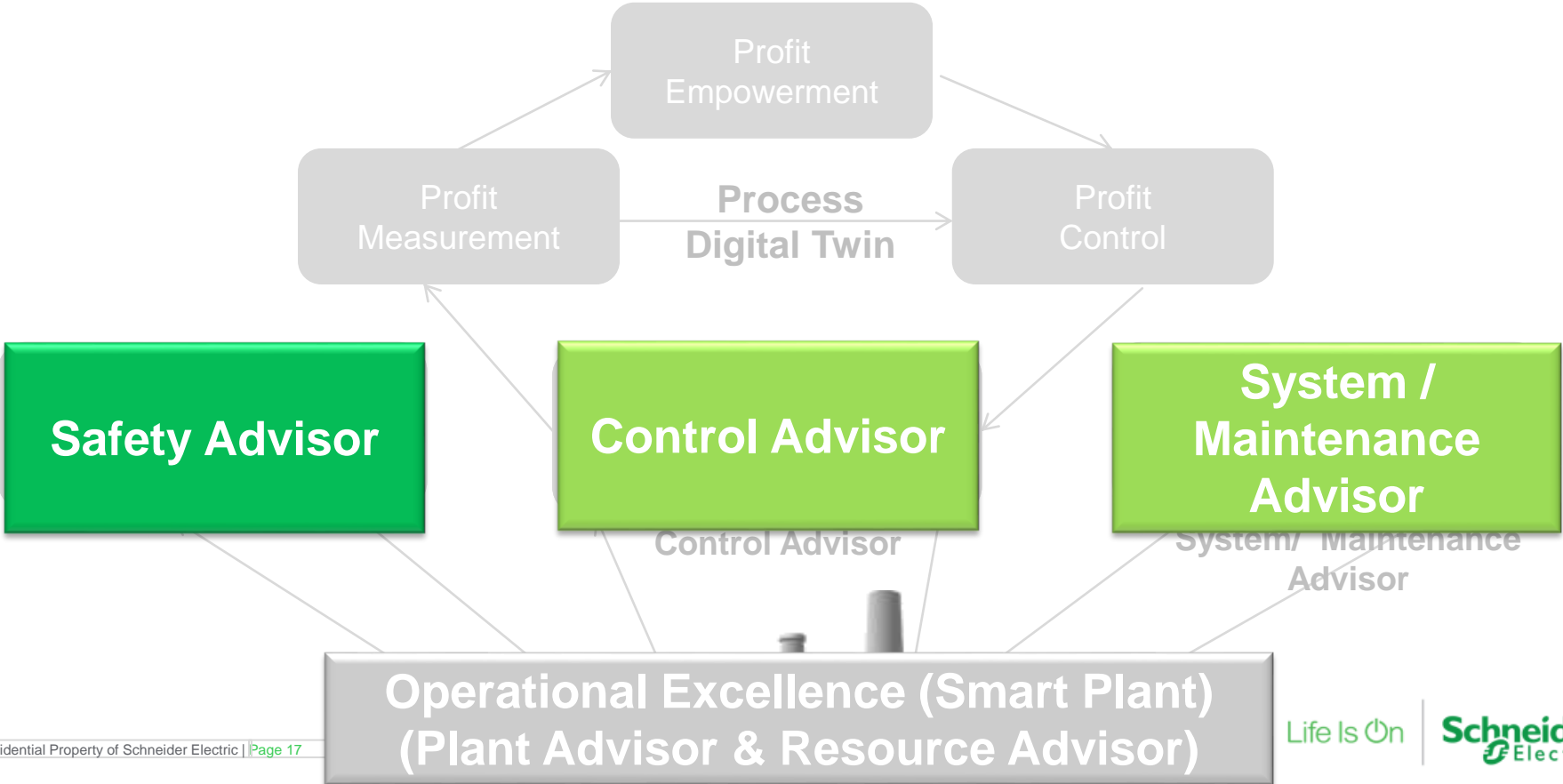


Control Advisor – Performance Dashboard & Reports

- Control Advisor is a **browser-based** analytics software application that leverages both **real-time** and **historical data** to monitor every loop in the plant. It provides:
 - Performance reports
 - Loop tuning recommendations
 - “Plain English” actionable recommendations
- Control Advisor allows non-specialists to deliver high levels of improvement value to the operation.



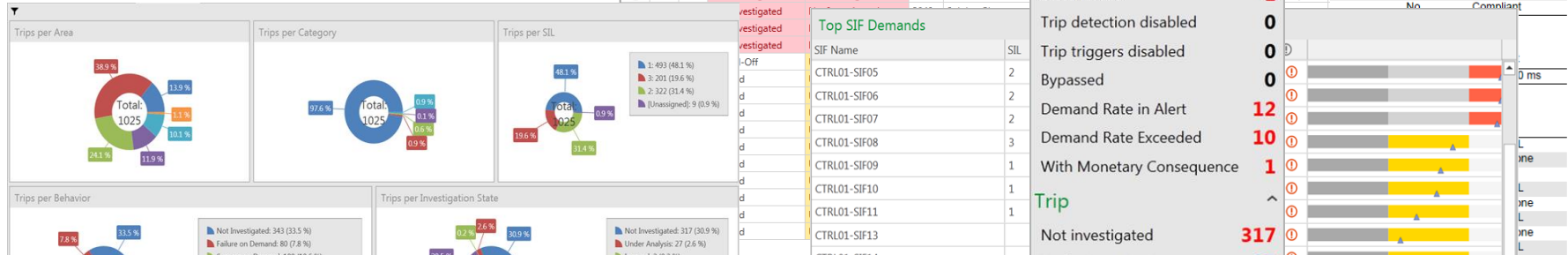
EcoStruxure Advisors – Safety Advisor



Safety Advisor – SIF Manager Safety & Compliance dashboards

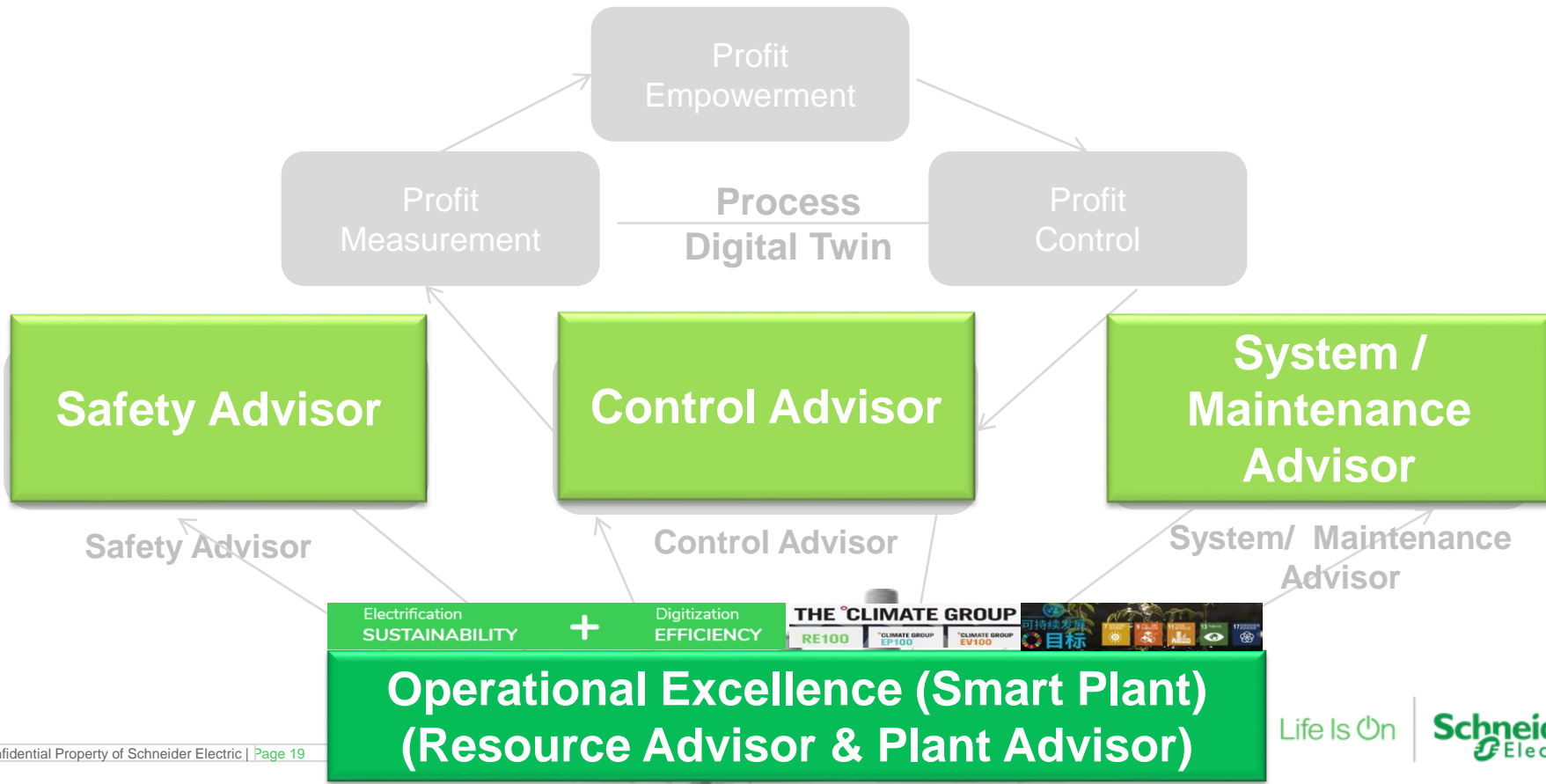
IEC-61508, IEC-61511

- SIF demand rate performance
- SIF bypass performance
- SIS device bypass performance
- SIF, SIS device, and Trip Statistics live
- SIS device proof test tracking
- SIF condition detail



Comprehensive insight into SIF Performance and Compliance

EcoStruxure Advisors – Resource Advisor / Plant Advisor

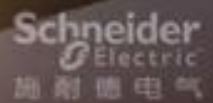


THE CLIMATE GROUP

RE100

CLIMATE GROUP
EP100

CLIMATE GROUP
EV100



施耐德电气全面致力应对气候变化



Resource Advisor

■ PROCUREMENT
■ EFFICIENCY
■ SUSTAINABILITY

RE100
是由氣候網絡
源倡議，匯
入企業必須

Emissions Management

Automate emissions data management and reporting



SCOPE 1, 2 AND 3 EMISSIONS

Access over 200 GHG protocols through emissions factor library managed by ESS experts



SUSTAINABILITY SUPPORT

Sustainability experts on hand to help align with your reporting practices



UPDATED PERFORMANCE

Linked to your data management program, emissions data will update as new data is available



AUDITABLE MANAGEMENT

Fully tracked process, with audit trail providing complete transparency and access to raw data

碳 SBTi 目標的3個組成部分
碳預算：確定將全球溫升控制在 1.5°C 和遠低於 2°C 可以排放的溫室氣體總量
排放情景：確定減排的規模和時間
分配方法：確定如何向各企業分配碳預算

Cloud and/or On Premise



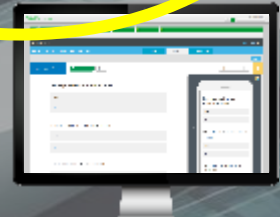
Utility Data Management



Emissions Management



Survey Module



Plant Advisor - Information Management and Visualization

EcoStruxure Plant Advisor is an **open, scalable IIoT platform** built on EcoStruxure. It provides industrial businesses with focused, **real-time insights** into **specific KPIs** to drive **business optimisation**, by **enabling IT/ OT integration** across multiple systems and sites.



Collect

Enable the access to collection and contextualisation of operational data, from edge to cloud, within one standard industrial data model



Analyze

Leverage analytics engines to get the best insights of the collected data, bringing optimized contextualization, advanced root-cause analysis and operational efficiency through AI (Predictive Maintenance, Machine Learning, etc.)



Monitor

Flexible dashboard for real-time monitoring and visualization of KPIs and analytics



Customize

Build custom applications in a low-code environment, leveraging pre-built components and centralized access to all data to meet specific business needs



Specialize

Industry-specific set of IIoT applications to address particular industry challenges (CPG, Mining, Discrete Manufacturing, Oil & Gas, etc.)

Success Story – 台塑打造個人化AI夥伴 拚搏1%致勝關鍵差距

台塑打造個人化AI夥伴 拚搏1%致勝關鍵差距

最新更新：2019/11/24 12:57



台塑集團近年導入人工智慧 (AI)，透過新科技擷出更多產能與節省成本，拚搏看不見的競爭力。(台塑提供) 中央社記者潘羿菁傳真 108年11月24日

目前台塑化的煉油廠「優化生產與操作提升計畫」，已經上線測試完成第3套常壓蒸餾塔 (CDU-3)，每年多產出柴油比例為0.35%，一年多增加銷售額新台幣1.05億元，航空燃油也多產出1.21%比例，一年多銷1379萬元。

所需的能源耗用蒸汽，卻可以達到每小時省下100公斤，換算一年節省830萬元費用，形成產值 (量) 增加，成本下降的雙重效益，合計年效益約1.26億元。

對照台塑化1年賺600億元，平均1天賺1.6億元，或許會覺得，公司生產事業只花1天就賺到AI1年功夫，不過台塑主管強調，「這只是1套設備，在麥寮有上千套設備，是積沙成塔概念，當氣景衰退，這些效益會是小兵立大功」。

台塑主管進一步說，要讓CDU產出較多高單價成品油，關鍵在於溫度控制，煉油是連續性生產製程，可簡單分成3個動作，包括進料、升溫煉成油品、取出油品，全在一座蒸餾塔完成，進料太快、取出油品倉促或是加溫速度太快，都會影響整座蒸餾塔溫度，在AI眼裡會視為3項變數 (風險)。

人工用儀控監測溫度曲線變化，總有盲點，溫度突然飆高或是下降，凡是遇到異常就會損失高單價成品油，而AI可以同步監測、預測3項變數，當進料過多，立即搭配加溫速度，或是取出油品節奏，將穩定度維持巔峰狀態。

目前CDU-3上線測試完成，今年測試CDU-2，預計明年CDU-1也要上線，若全數導入AI，年效益提升至3億元。

不只如此，台塑打算將AI培養成「經驗豐富的老師傅」，快速找出問題點，甚至是潛在風險提前挖掘出來。

台塑主管表示，石化廠每年會輪流歲修定檢，就好比車輛進場保養概念，儘管如此石化廠工安問題仍是時有所聞，這是所有石化廠一直想克服；平日生產設備都配有警示系統，若生產變數異常，alert就大響，現場人員要開始排除障礙，「alert不會告訴你哪裡出問題，有時維修人員需要花很多天找，還不一定找得到」。

同樣邏輯，台塑將整套系統正常生產係數全丟給AI學習，當alert響起時，AI可以快速找到問題點，並回饋給現場工作人員，宛如一名資深老師傅，給予資淺同仁明確方向，不用耗費多日徒勞無功，台塑主管形容，好比是人腦Know how轉移到電腦。

目前台塑提高標準，正在培訓AI老師傅達到最高境界：設備故障前自動預警。

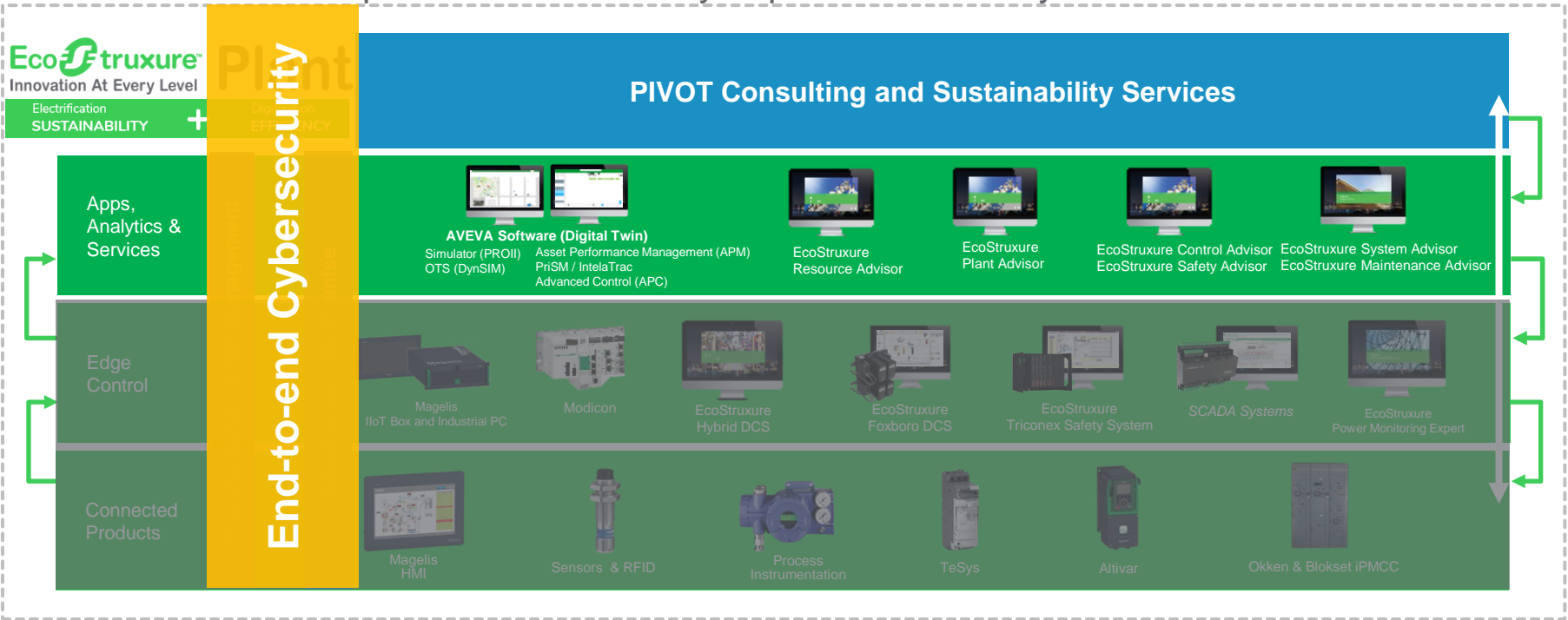
台塑主管分析，道理很簡單，系統會發出警示是因為人為設定警戒範圍值，「假設平常設定警戒溫度值為300度C，凡是在300度C以下，都不會觸及警報，但有時候溫度可能是略低或略高，AI就要即時偵測並分析結果，若出現溫度波動頻繁，儘管沒有alert (警示)，但也要通報同仁，因為這意味著，設備即將故障」。

台塑董事長林健男日前就提到，針對設備故障前自動預警，今年度預計5成高風險轉動設備陸續導入AI，期盼藉此減少工安事件發生。今年AI目標總效益要達到1.7億元。即使練兵至今1年多，不過台塑等級還在單元設備上線測試，尚未進化到整座工廠交付給AI，台塑主管坦言，投入AI就像是一條不歸路，任何疑惑都可以是一個課題，AI只能客製化，唯有不斷練功才能塑造出最適合台塑的AI夥伴。(編輯：林淑媛)

EcoStruxure Plant – End to End Cybersecurity

Drives Measurable Operational Profitability Improvement Safely

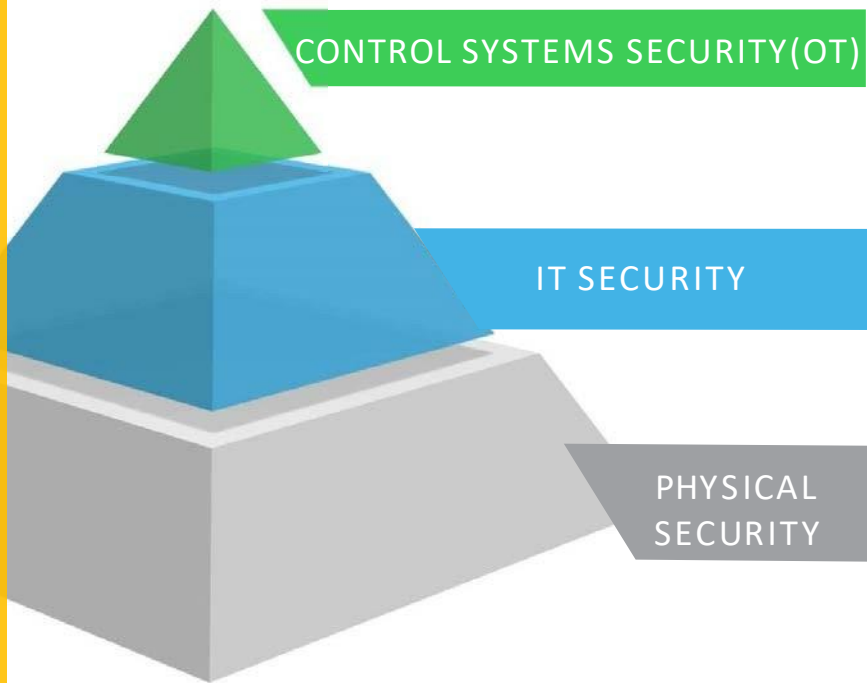
EcoStruxure Plant
Innovation At Every Level



*The Schneider Electric industrial software business and AVEVA have merged to trade as **AVEVA Group** plc, a UK listed company. The Schneider Electric and Life is On trademarks are owned by Schneider Electric and are being licensed to AVEVA by Schneider Electric.

IT安全與OT安全之間的區別

OT網絡安全比IT安全更難



OT Security

可**使用性**

真實性

機密性

IT Security

機密性

真實性

可**使用性**

	OT	IT
優先順位	重點放在系統的 連續 和 安全運行 上	重點放在正確管理信息和防止洩漏上
保護對象	設備、機器、人員	資料
支援期間	10年~20年	3~5年
運轉率	24小時連續運行	在許多情況下，可以重新啟動
運營管理部門	維修部	系統網管部

施耐德網絡安全優勢- 因應政府網絡安全的法規要求

	施耐德Schneider	其他IT廠商
解決方案	客製化	模組化
技術經驗	OT/IT 整廠考量	不懂 OT
合作廠商	全球夥伴策略	依靠性
服務範圍	整體全面性服務	片面服務
技術支援	全球資安團隊	無支援

施耐德網絡安全解決方案

- 完成網絡安全風險評估（CAS）是建立一個可靠和強大的網絡安全計劃的第一步，在操作技術（OT）環境中應用網絡安全要求時，應該是一個起點。
- 網絡應用平台（CAP）是一個集成的網絡安全解決方案，使營運團隊能夠看到關鍵的網絡安全數據，並採取行動管理/維護其網絡安全控制點。通過擁有一個平台，客戶可以節省時間和金錢，以符合網絡安全標準和最佳實踐，並加強其OT安全態勢。



施耐德台灣 -- IEC 62443-2-4 網絡安全管理證照

IEC62443-2-4 網絡安全管理證照 (TUV Rheinland)

- IEC 62443-2-4 – System Integration
- Security for industrial automation and control systems-
Security program requirements for IACS service providers
- CMS 115 – Centralized Group Certification

Taiwan	Schneider Electric Systems Taiwan Corp 5F, N°4, Chenggong 2nd Road, Chian-Jen Dist Kaohsiung City, Taiwan	Staging area responsible for: - Integration - Internal Testing - Factory Acceptance Testing (FAT)	ML-3
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工程師證照

- ISA IC-32 certified (Fundamentals Specialist)
- ISA IC-33 certified (Risk Assessment Specialist)
- NNCS (Nozomi Networks Certificated Engineer)
- NNCTSP (Nozomi Networks Technical Sales Professional)
- Fortinet NSE1~NSE3 (Network Security Associate)
- CTA (Claroty Technical Associate)
- CCNA (CISCO certified network associate)



Certificate



Cyber Security Management

CS Management (TÜV Rheinland)
IEC 62443-2-4 - System Integrator
Security for industrial automation and control systems -
Security program requirements for IACS service providers
CSM 115 - Centralized Group Certification

Certificate No. 968/CSM 115.01/21

Certified Company & Location

Schneider Electric Systems USA, Inc.
70 Mechanic Street
Foxboro, MA 02035
USA



Scope of Certification

Centralized Group Certification for IEC 62443-2-4:2015 + A1:2017
considering following integration capabilities

Engineering and Staging:
Integration, Internal Testing and Factory Acceptance Testing (FAT)

Details and limitations regarding the **Technical Scope** and **Local Scope of Certification** are listed in the attached **Certificate Appendix 968/CSM 115.01/21**, which forms integral part of this certificate. **Latest revision of the Certificate Appendix** could be found following the **QR-Code** above or on web page www.certipedia.com/fs-products.

The certified company with its **Global Process Automation Cybersecurity Central Office (CsCO)** and their site locations as listed in attached **Certificate Appendix** have successfully demonstrated during an audit process that a Cyber Security Program has been implemented and applied for profiles Engineering and Staging - Integration, Internal Testing and Factory Acceptance Testing (FAT).

This certificate does not imply approval for security related System Integration solutions.

Validity

This certificate is valid until 2023-12-16

Cologne, 2021-08-20

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Certification Body Safety & Security for Automation & Grid
Further information referring to the scope of certification, see <http://www.tuv.com>

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www.fs-products.com
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Precisely Right.

施耐德網絡安全服務 - 網絡安全風險評 (CAS)



CAS 通過確定差距和需要補救的關鍵風險領域，讓客戶了解他們的網絡安全風險狀況。此外，我們的服務提供建議和路線圖，以實現您的網絡安全目標。

CAS的價值



提供建議的網絡安全方針 (roadmap) 幫助客戶達到預算最佳化



按照優先順位分類的評估建議



具有成本效益的網絡安全服務



評估符合全球公認的OT網絡安全標準 (IEC62443)



該評估是vendor-agnostic, 可以獨立完成, 也可以作為一個大項目案子中的一部分



使客戶看到他們網絡安全計畫中的漏洞



遠程評估, 快速交付









該評估由具有OT/IT和網絡安全知識的資深專家完成

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施耐德網絡安全服務 - 網絡安全應用平台 (CAP)

End-to-end Cybersecurity

	核心 (SL 1) 	增強 (SL 2) 	優化 (SL3+) 
	網絡安全風險評估 	網絡安全風險評估 	網絡安全風險評估 
硬體	<ul style="list-style-type: none"> 可選的(optional) 	<ul style="list-style-type: none"> 可選的(optional) 	<ul style="list-style-type: none"> 可選的(optional)
軟體	<ul style="list-style-type: none"> 防毒軟體(中心化) (FortiEDR/FortiClient) 補丁管理 (FortiGate) 備份/還原(中心化) 認證/授權(中心化) (FortiAuthenticator) 安全遠端訪問 (FortiGate) 	<ul style="list-style-type: none"> 異常檢測+ 資產設備盤點 多重因素身分認證 (FortiToken) 事件/日誌收集(FortiSIEM) 網路性能監視 (FortiSIEM) 	<ul style="list-style-type: none"> 威脅情報 (FortiSIEM) 漏洞管理 事件應對 (FortiSOAR) 管理服務平台
服務	<ul style="list-style-type: none"> 交付、維護、監測 設備強化(可選的) 網絡分段(可選的) (FortiGate/FortiSwitch) 	<ul style="list-style-type: none"> 交付、維護、監測 客戶諮詢服務 	<ul style="list-style-type: none"> 持續管理服務 交付、維護、監測 滲透測試(可選的) 事件應對桌上演習

貫穿所有套餐的促進因素






























Shared/connected Services

Training

CAP platform

施耐德網絡安全服務 - 技術解決方案與數位服務

The technology vendors that support us

CS Assessment Services (CAS)	CS Application Platform (CAP)			
	Identify	Permit	Protect	Detect
稽核/風險評估 	認證, 授權, 帳號管理 	補丁管理   	資產設備管理   	備份/還原  
差異分析	身分驗證 	端點保護    	異常檢測 (IDS)  	資安事件響應
滲透測試	網絡切割  	白名單 	日誌管理 	分析取證
資產盤點	安全遠端訪問  	設備控管  	安全信息和事件管理 (SIEM)  	資安事件響應計劃
	防火牆  	安全設備管理	異常檢測 & 反映	
			網路性能監視	

McAfee Enterprise & FireEye = Trellix

施耐德網絡安全服務 - 安全防護與生命週期

施耐德電氣致力於提供支持所有行業和行業中網絡安全措施需求的解決方案

了解當前情況/安全諮詢

- 了解當前情況
- 評價準則和程序
- 了解設備狀態
- 安全目標與現狀之間的差距分析
- 風險與威脅調查
- 合乎安全規範與否

訓練

- 滲透安全意識
- 培訓安全工程師
- 培訓安全經理
- 培養高級專家

設計與執行

- Defense in Depth (深層防衛)
- 安全架構設計
- 設備管理
- Security Assurance Level (SALs) 安全保證等級評價
- Device Hardening (設備強化)
- 解決方案整合

監視

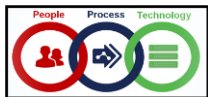
- 防火牆安全
 - 設備管理
 - 可能的威脅管理
 - 設備安全
 - OT SIEM支持
- * SIEM (Security Information Event Management)

保全

系統升級安全補丁
與事件反應



施耐德的網絡安全專家為您提供獨立於供應商的服務，幫助您評估風險，實施針對網絡安全的解決方案，並保持長期保護。



施耐德網絡安全 - 成功案例

食品與飲料業 (英國)

❖ 提供網絡安全服務:

- DCS網絡安全評估
- DMZ 設置
- IT / OT 整合
- 設計和部署安全架構
- 中央防毒保護管理系統
- 安全遠端訪問

❖ 成功因素

- 客製化解決方案, 滿足客戶需求
- 客戶關係管理
- 集中化主機和網絡解決方案符合工業與國家標準

❖ 為什麼選擇施耐德

- 強大的IT/OT解決方案, 提供靈活的服務
- 強大的OT背景, 確保製成的安全性, 配上網絡安全的解決方案

水, 廢水處理業 (美國)

❖ 提供網絡安全服務:

- SCADA網絡安全評估
- 系統架構, OT安全控制
- 使其符合國家標準
- 成功因素
- 客製化解決方案, 滿足客戶需求
- 採取靈活, 非依賴供應商的方法來滿足安全要求
- 為什麼選擇施耐德
- 全球組織支持的區域安全專業知識
- 完全符合ISA/IEC 62443標準
- 持續提供全面服務
- 具有IT專業知識的OT供應商

石油天然氣業 (中東)

❖ 提供網絡安全服務:

- DMZ 設置
- 實現OT網絡中網絡安全控制的現代化
- 第三方IT/OT整合
- 成功因素
- 採取靈活, 非依賴供應商的方法來滿足安全要求
- 提供客製化的系統給ICS OT網絡+IT介面接口
- 為什麼選擇施耐德
- 全球組織支持的區域安全專業知識
- 客製化的網絡安全控制以及與第三方解決方案的整合
- 廣泛的專業知識, 涵蓋工控領域的OT與企業領域的IT



THANK YOU.

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Secure OT Summit 2022

護航 OT/IT 融合 創新數位發展