



SSIMUC 2025:
Go Safe, Go Green, Go Industrial, Go Healthy!

// A time of Challenges for IT/DC/Telco Infrastructure & Network Operators

Manage
hybrid !



Increase
resilience !



Achieve more
with less in
fieldservice !



Be
compliant !



Operate
sustainably !



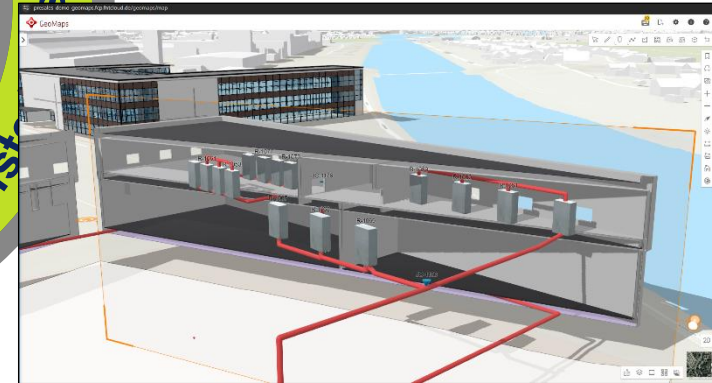
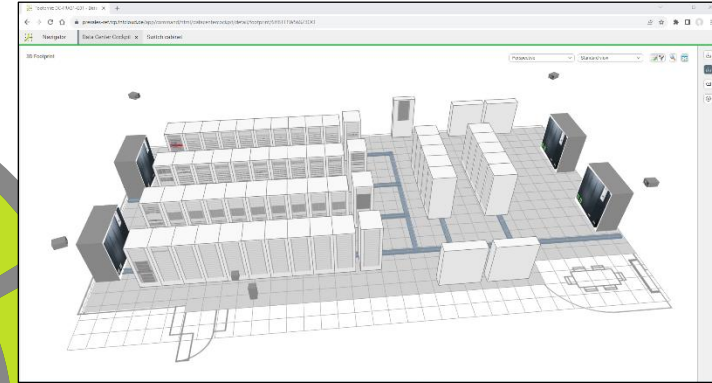
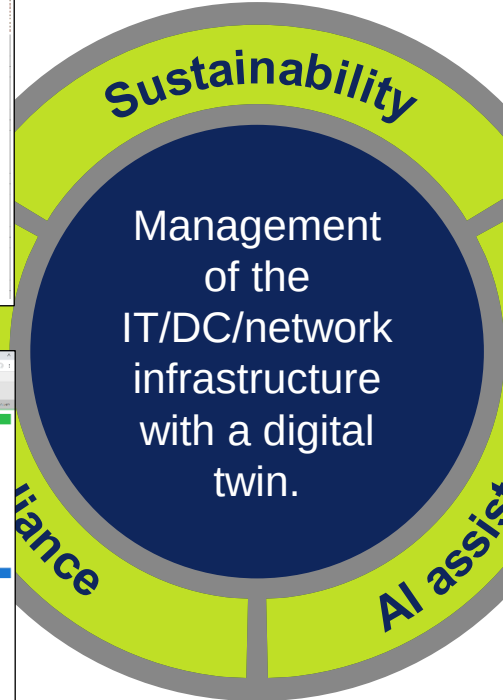
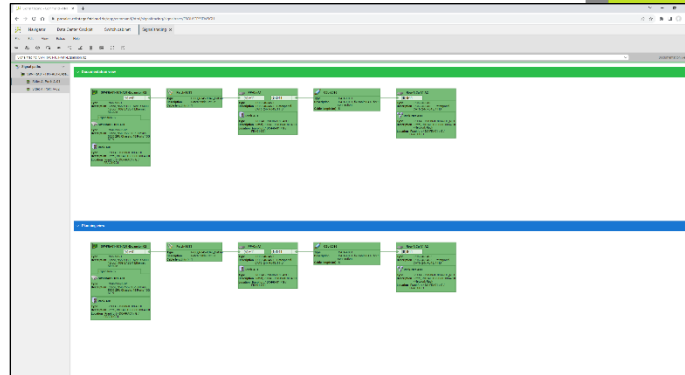
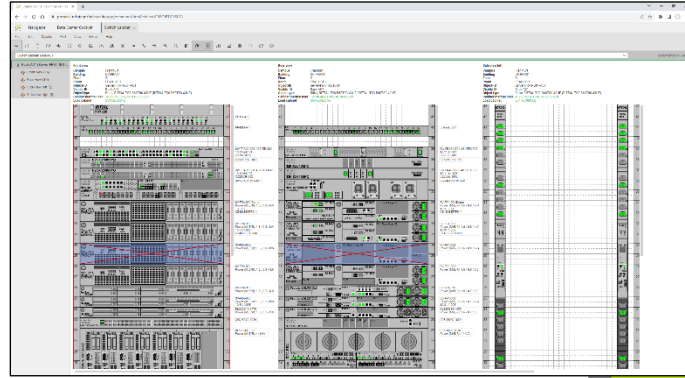
Support OT &
digitization in
production !



Roll out
networks
faster !



// Power to you! Your value add from a digital twin of the infrastructure.

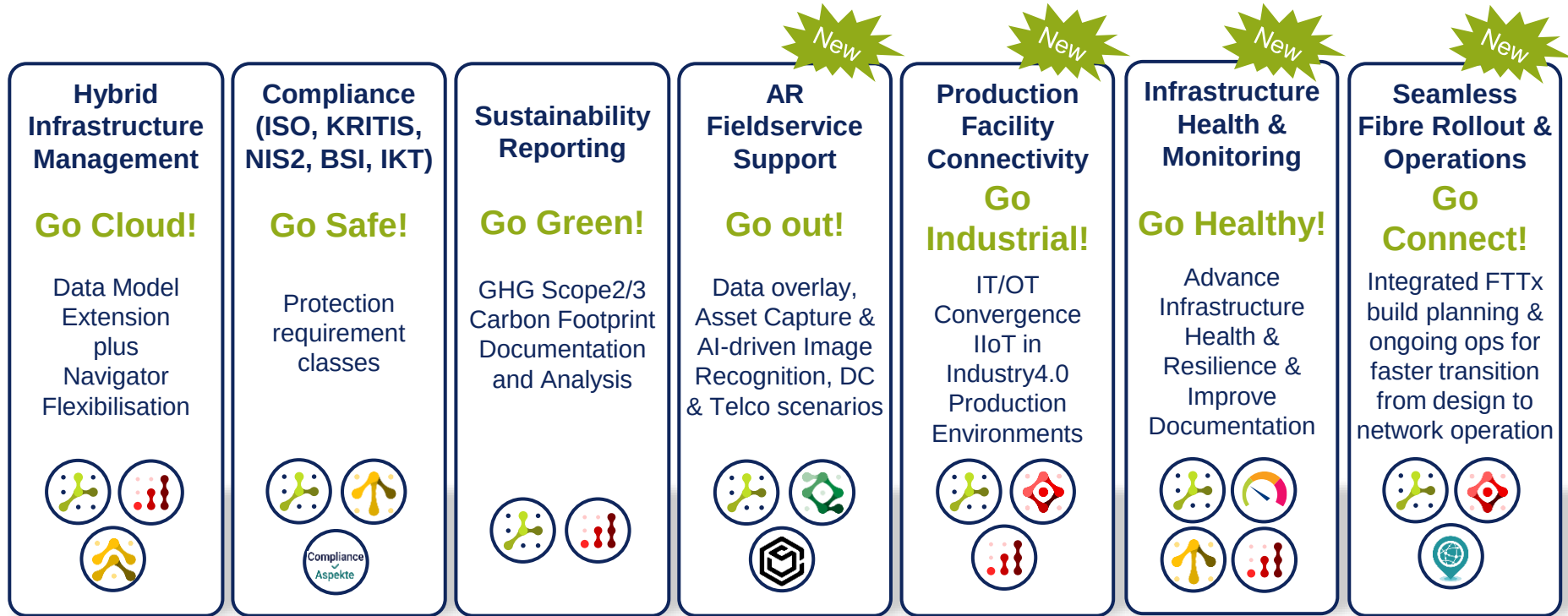


// A „top layer“ of integrated use cases for new challenges:
How to help you to excel in the light of new challenges

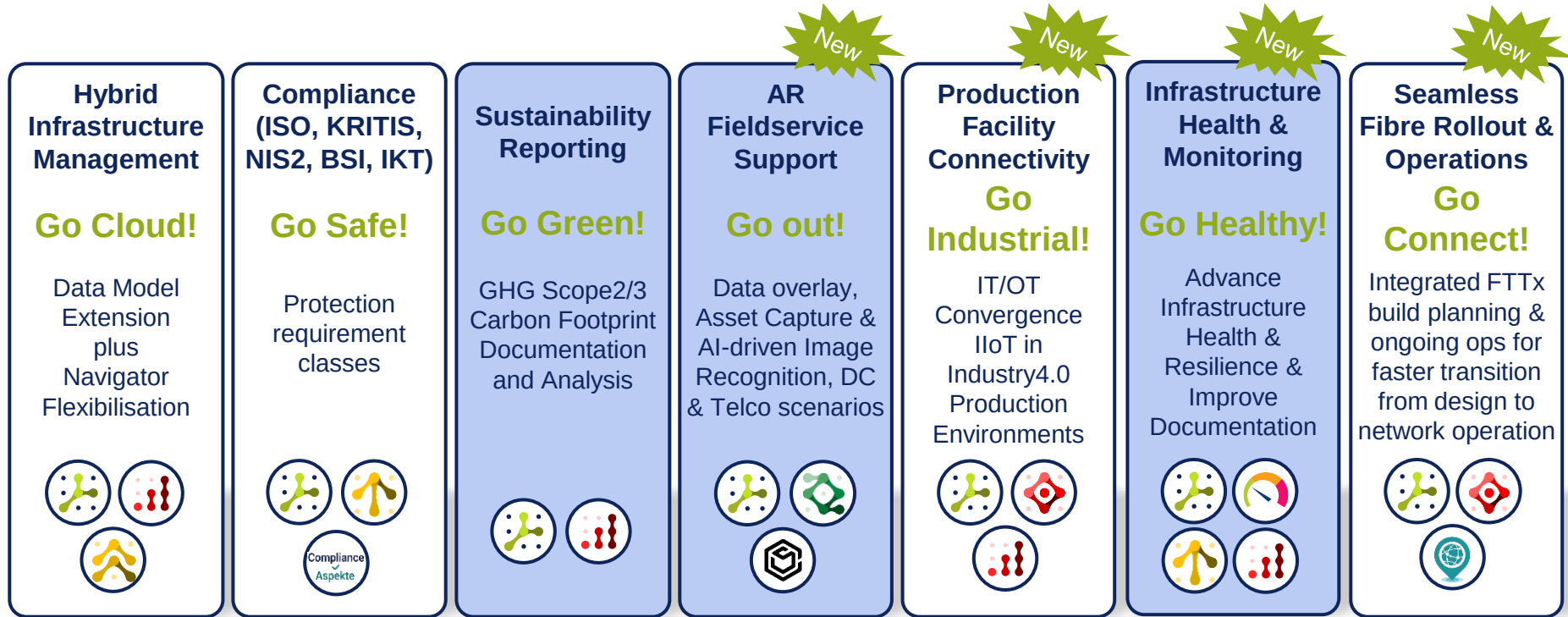
Added customer business value creation through integrated use cases focused on strategic challenges in IT/DC/Telco Infrastructure Management



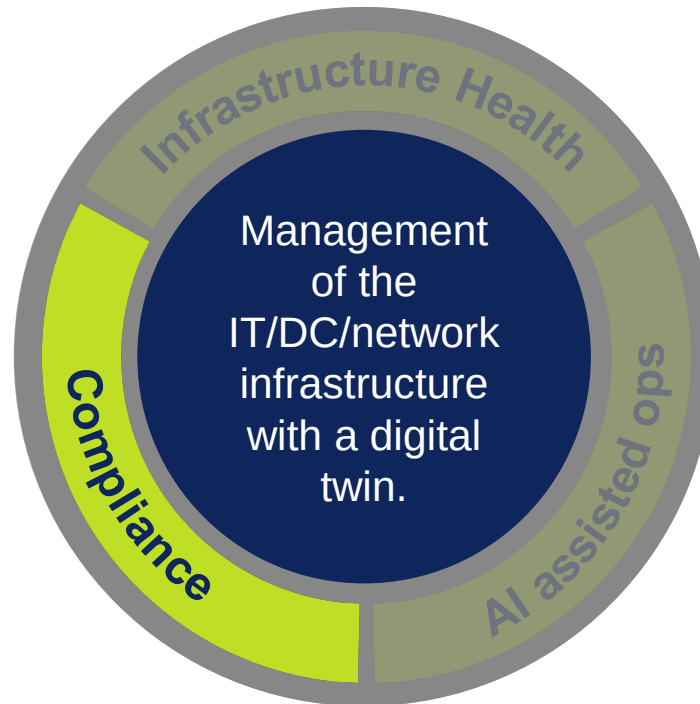
// The Power resides in the integrated UseCase



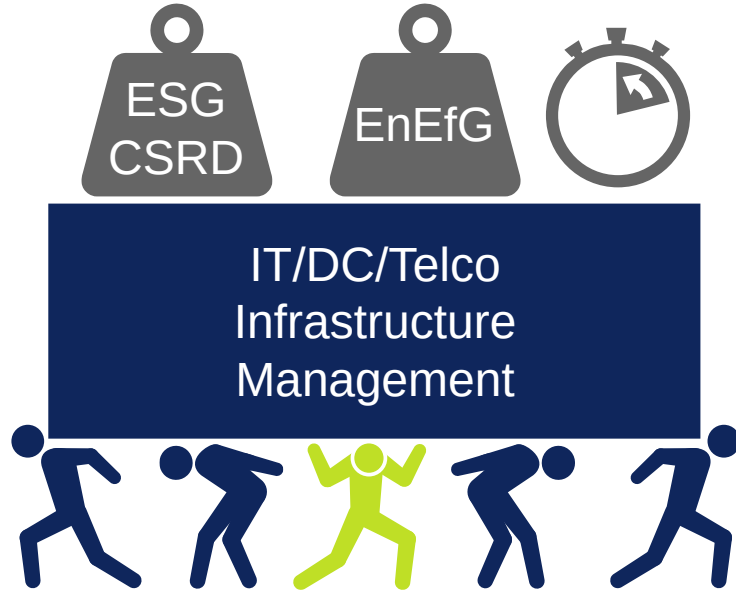
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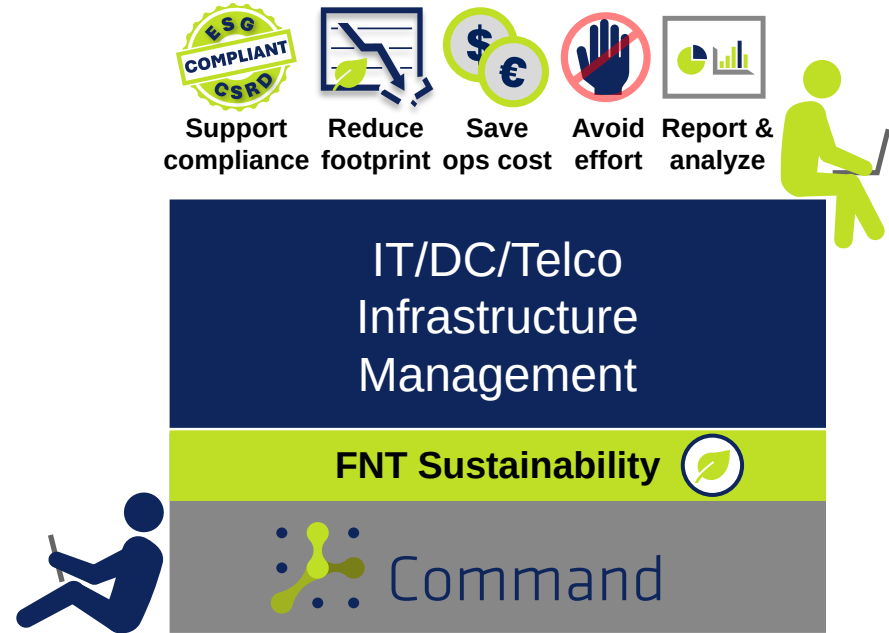
// Go Green! FNT Sustainability Management Aspects



// Sustainability Challenge: FNT shoulders the additional load for you!



Without a powerful infrastructure management solution your worklife is already hard. Sustainability adds to your heavy load.



On the solid foundation of FNT's Digital Infrastructure Twin you not only shine in infrastructure management, but handle sustainability aspects with no extra effort.

// Scope 3 Support: FNT Sustainability Add-On

Object Management x

File Edit Extras View Help

Internal - Intern

Search Object: p11sw1783 x

Object: p11sw1783

Documentation view

Object navigation

- Object data
- Technical data
- operations data
- Environmental Profile (Sustainability)
- CMS
- IP data
- Port data
- Slot data
- Services
- Reference drawing
- Assignment list
- CI Graphics (0)
- Accessories
- Lifecycle
- History
- Attachments
- System attributes

7 records

Indicator Type*	Indicator*	Unit*	Total	Manufacturer	Distribution	Installation	Use (Manufacturer value)	Use (self-determined)	End of life
Resources use	Net use of freshwater	m3	12700.000	680.000			12600.000	10000.000	
Resources use	Total Primary Energy	MJ	1180000.000	4840000.000	874.000		695000.000		1598.000
Impact Indicator	Contribution to mineral resources depletion	kg Sb eq	6920.000	48300.000	618.000	3970.000	34800.000		15800.000
Impact Indicator	Contribution to the soil and water acidification	kg SO2 eq	224.000	78.400	0.282	0.000	145.000	125.000	0.266
Impact Indicator	Contribution to water eutrophication	kg PO4 3- eq	26.000	17.000	0.650	0.101	8.700	6.000	0.771
Impact Indicator	Contribution to global warming	kg CO2 eq	83300.000	48300.000	61.800	39.700	3480.000	3000.000	158.000
Impact Indicator	Contribution to ozone layer depletion	kg CFC11 eq	0.003	0.001					

Total Device

7 records

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// Scope 3 Support: FNT Sustainability Add-On Dashboard

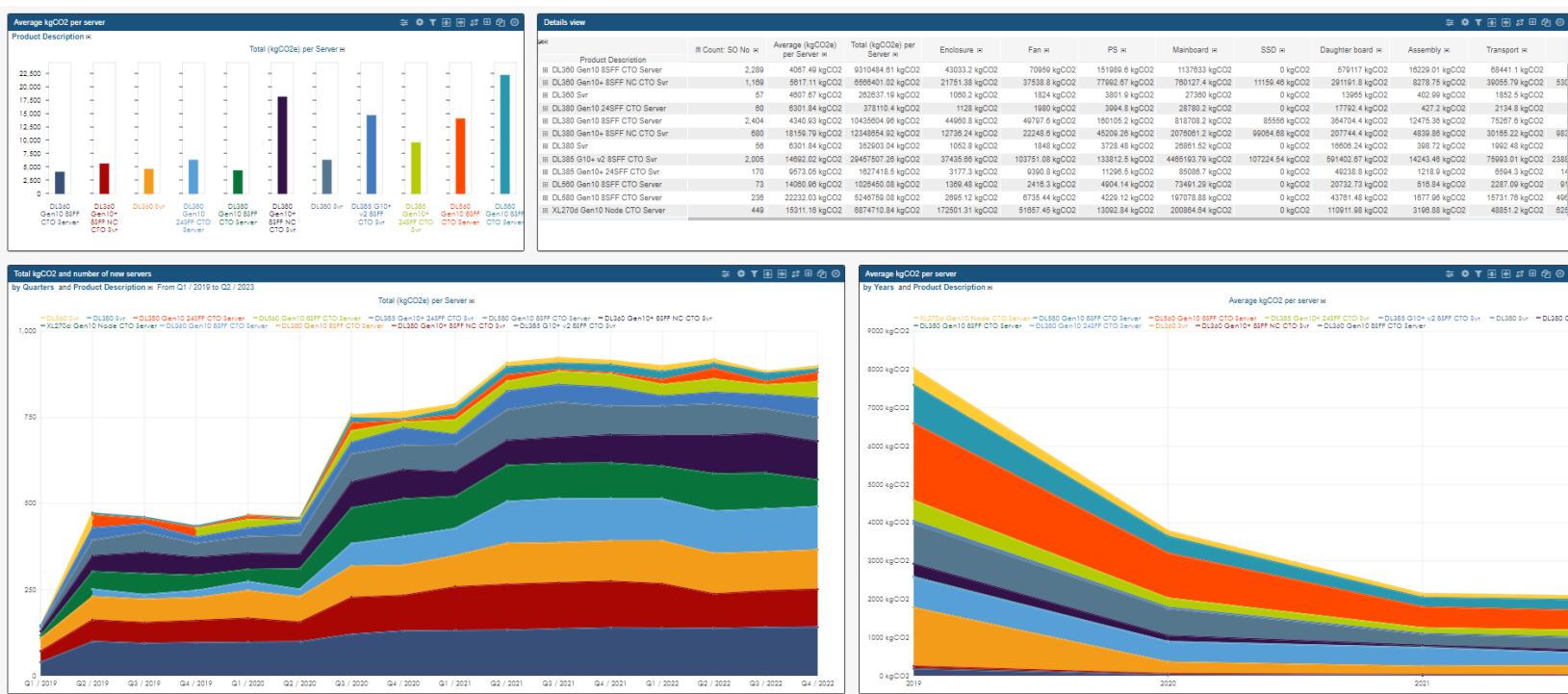


Top Level KPIs for easy quick-view on progress!

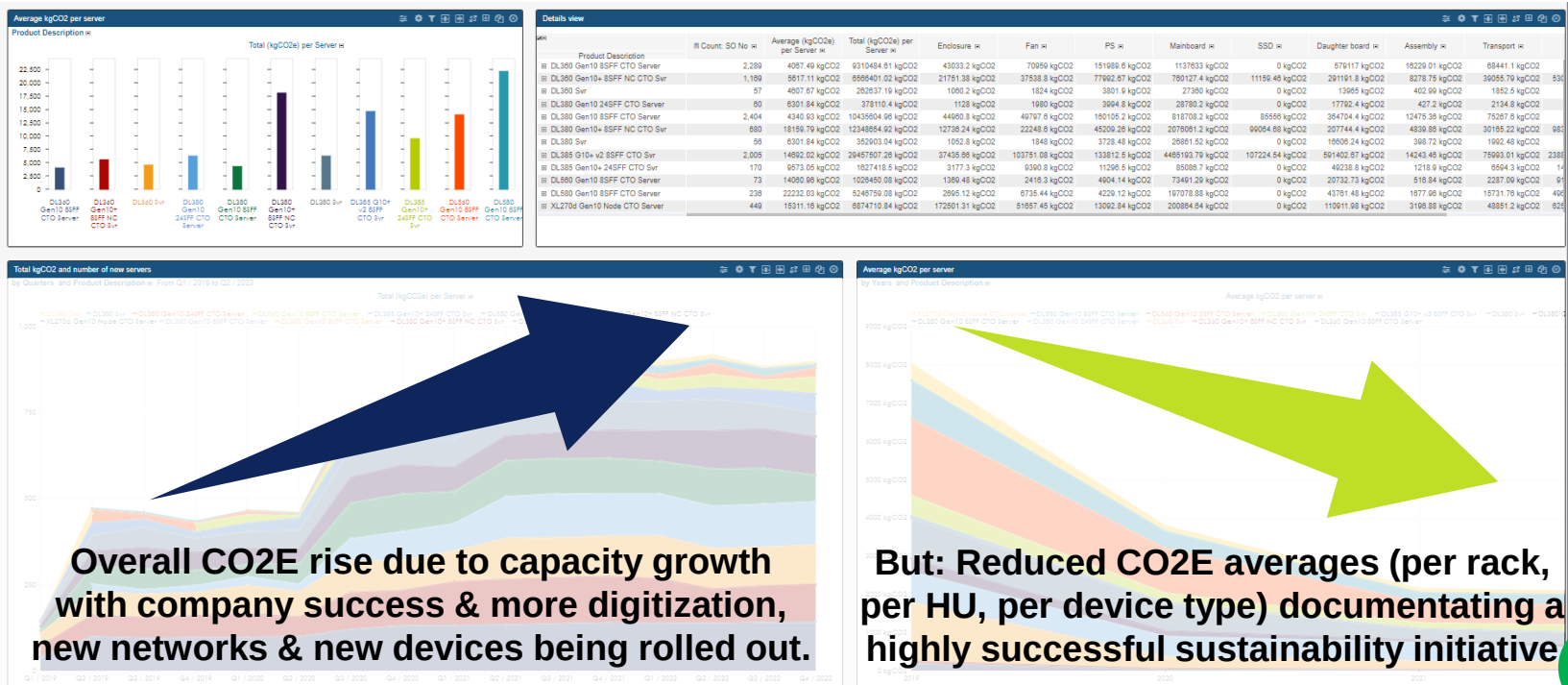
Comparative analysis and insights along every data dimension available in FNT Command (mandators/clients, regions, countries, datacenters, campus & building structures, manufacturers, product families, classes, types, funtions, areas of responsibility,...)

Proof of Progress in growth scenarios!

// Scope 3 Support: FNT Sustainability Add-On Dashboard

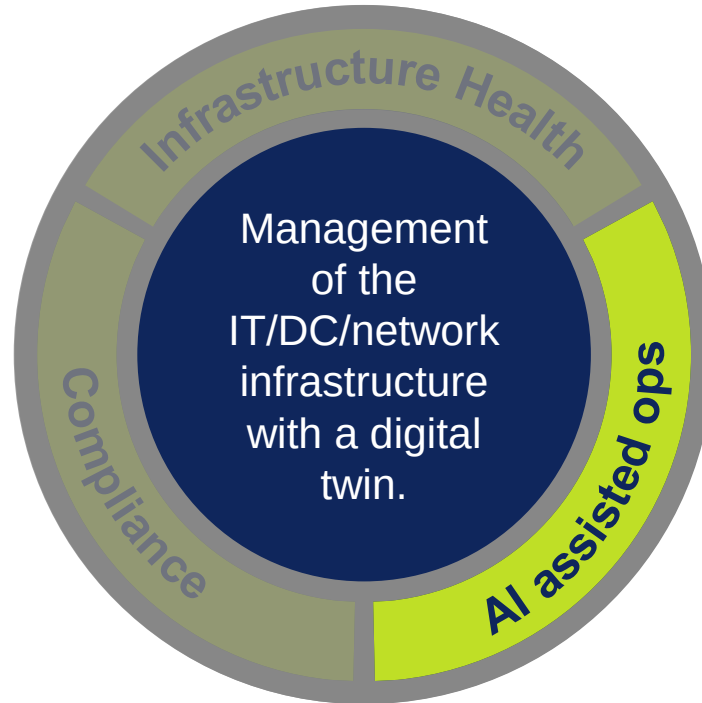


// Scope 3 Support: FNT Sustainability Add-On Dashboard

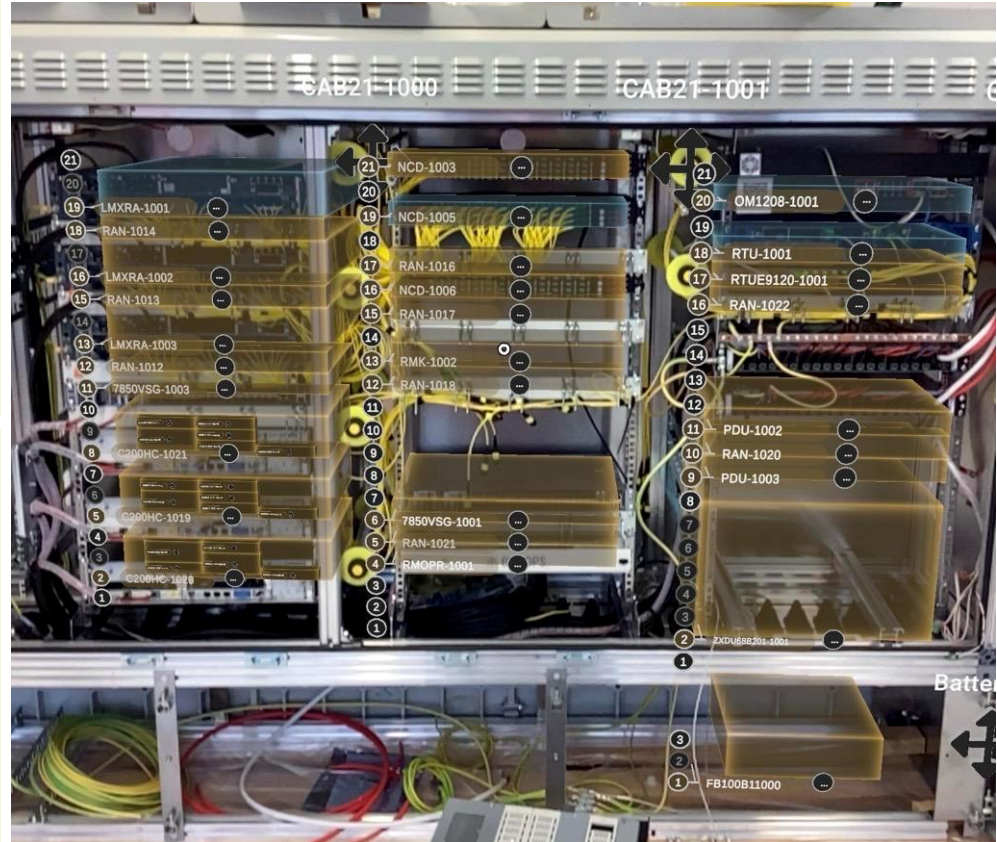
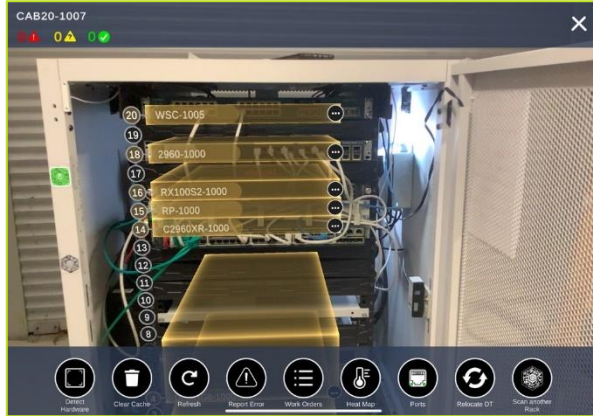


With the FNT Command Environmental Impact Management AddOn in place this FNT Analytics Dashboard works out-of-the-box in turnkey fashion!

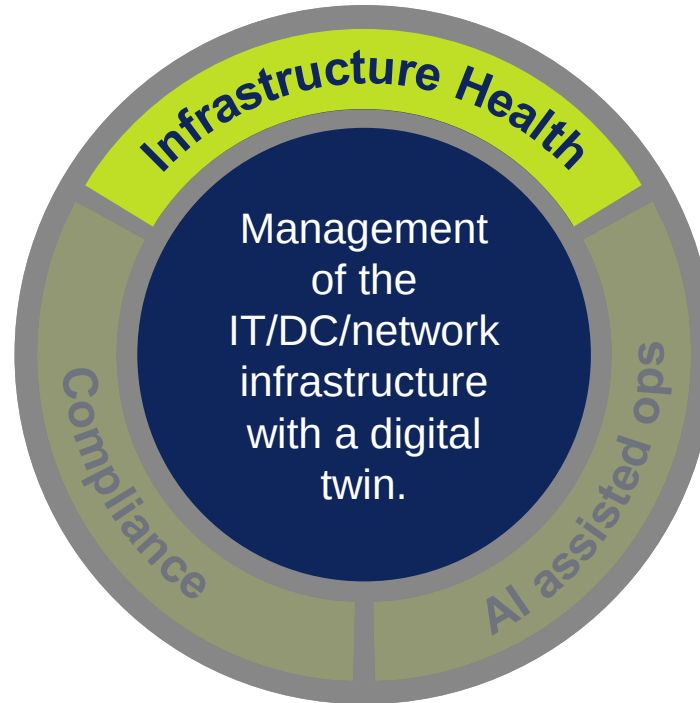
// Power to you! Your value add from a digital twin of the infrastructure.



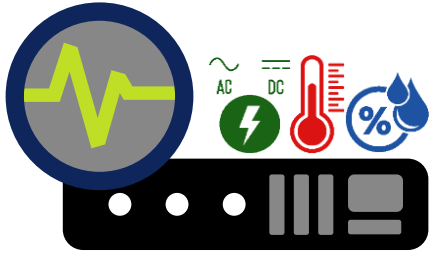
// Data Capture, Rack Asset Audit and Workforce Instructions in AR Mode



// Power to you! Your value add from a digital twin of the infrastructure.



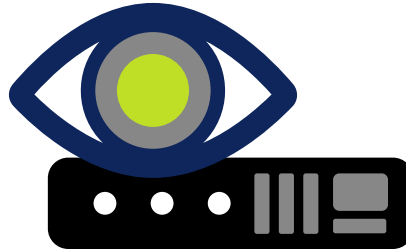
// How to contribute meaningfully to infrastructure health & resilience?



How well are my infrastructure elements technically?

- Environmentally
- Performance-wise
- Utilization-wise

► **MONITORING**



Are the Digital Twin and reality still “in sync”? Most recent observation by

- Scans
- Inventory Reconciliations
- Processes/Persons

► **LAST SEEN**



Which aspects are actually documented to what degree?

- Technically
- Economically
- Organizationally

► **DOCUMENTATION
QUALITY CONTROL**

// FNT Infrastructure Element Health: A comprehensive control cockpit for any active device!

The screenshot displays the FNT Infrastructure Element Health interface. The top navigation bar includes 'Object Management' and 'Access Management'. The main content area is titled 'FNT Infrastructure Element Health' and features a large green box with the text: 'The Infrastructure Element Health Indicator is a fast and easy-to-grasp warning mechanism for...'. Below this, the interface is divided into several sections:

- Monitoring:** Includes a 'monitored / responsive' status (Yes/No) and an 'Overall Monitoring Indicator' with radio buttons for critical, warning, nominal, and n/a. The 'nominal' indicator is selected.
- Power Issues:** Includes radio buttons for critical, warning, nominal, and n/a. The 'nominal' indicator is selected.
- Temperature Issues:** Includes radio buttons for critical, warning, nominal, and n/a. The 'nominal' indicator is selected.
- Connectivity Issues:** Includes radio buttons for critical, warning, nominal, and n/a. The 'nominal' indicator is selected.
- Infrastructure Element Verification:** Includes a table with columns for 'Element last seen/verified' and 'by'. The table shows a single entry for 'Monitoring' on '08.08.2024' by 'aha (Hausmann, ...)'. A 'Confirm now' button is present.
- Documentation Quality KPI (Future use / Prototype state):** Includes radio buttons for poor, suboptimal, optimal, and n/a. The 'n/a' indicator is selected.
- Documentation Aspects (Future use / Prototype state):** Includes a table with columns for 'Yes' and 'No'. The table lists various aspects such as 'Technical data complete?', 'Commercial data complete?', 'Persons assigned?', 'Contract assigned?', 'SLA defined?', 'Typical object link exists?', and 'Sustainability data (EPD)?'. All 'Yes' indicators are selected.

The left sidebar contains a navigation menu with categories like 'Total view', 'Object data', 'Geolocation', 'Technical data', 'EPD data', 'FNT Infrastructure Element Health', 'IP data', 'Addresses / Interfaces', 'Nets / Net ranges', 'VLANs', 'Virtual switches', 'Operating system', 'Port data', 'Data ports', 'Power ports', 'Logical ports', 'Slot data', 'Duct data', 'Services', 'Sites', 'Reference drawing', 'Assignment list', 'CI Graphics', 'Accessories', and 'Contracts'.

// FNT Infrastructure Element Health: A comprehensive control cockpit for any active device!

The screenshot displays the FNT Infrastructure Element Health interface for a specific object, 'switch4711'. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for 'Total view', 'Object data', 'Geolocation', 'Technical data', 'EPD data', and 'FNT Infrastructure Element Health'. Under 'FNT Infrastructure Element Health', there are sub-links for 'IP data', 'Addresses / Interfaces', 'Nets / Net ranges', 'VLANs', 'Virtual switches', 'Operating system', 'Port data', 'Data ports', 'Power ports', 'Logical ports', 'Slot data', 'Duct data', 'Services', 'Sites', 'Reference drawing', 'Assignment list', 'CI Graphics', 'Accessories', and 'Contracts'.
- Main Content Area:**
 - FNT Infrastructure Element Health Indicator:** Shows a status indicator with radio buttons for 'critical', 'degraded', 'nominal', and 'n/a'. The 'nominal' status is selected.
 - Monitoring:** A section with a 'monitored / responsive' toggle set to 'Yes'. It includes an 'Overall Monitoring Indicator' with radio buttons for 'critical', 'warning', 'nominal', and 'n/a'. Below this are three columns of issues: 'Power Issues', 'Temperature Issues', and 'Connectivity Issues', each with radio buttons for 'critical', 'warning', 'nominal', and 'n/a'. The 'nominal' status is selected in all three columns. There is also a 'Utilization Issues' and 'Tech Health Check' section with similar radio buttons.
 - Infrastructure Element Verification:** A section with a list of verification items, each with a radio button for 'Yes' or 'No'. The 'Monitoring' item is checked.
 - Documentation Quality KPI (Future use / Prototype state):** A section with a table for documentation aspects, with columns for 'Yes' and 'No'.
- Right Sidebar:** Contains icons for 'Download', 'Print', 'Share', and 'Close'.

The Infrastructure Element Health Indicator is a fast and easy-to-grasp warning mechanism for...

...being made aware of operational issues with an overall monitoring status issue classification one-click navigation to the underlying monitoring detail data

// FNT Infrastructure Element Health: A comprehensive control cockpit for any active device!

The screenshot displays the FNT Infrastructure Element Health interface. The top navigation bar includes 'Object Management' and 'Access Management'. The main content area is titled 'FNT Infrastructure Element Health' and features a 'FNT Infrastructure Element Health Indicator' with three status options: critical (red), degraded (orange), and nominal (blue). The indicator is currently set to 'nominal'. A large green box highlights the text: 'The Infrastructure Element Health Indicator is a fast and easy-to-grasp warning mechanism for...'. Below this, the 'Monitoring' section shows a 'Monitoring Indicator' with a 'nominal' status. The 'Infrastructure Element Verification' section lists various verification tasks, including 'Monitoring', 'Autodiscovery', 'Network Element Manager Sync/Recon', 'Inventory Barcode/QR Code Scanner Check', 'Approved Planning Protocol Activity Execution', 'Visitation and visual verification', and 'Visitation and visual verification by'. The 'Documentation Quality KPI' section shows a 'poor' status. The 'Documentation Aspects' section lists various aspects like 'Technical data complete?', 'Commercial data complete?', 'Persons assigned?', 'Contract assigned?', 'SLA defined?', 'Typical object link exists?', and 'Sustainability data (EPD)?'. The left sidebar contains a tree view of the interface's components, including 'Total view', 'Object data', 'Geolocation', 'Technical data', 'EPD data', 'FNT Infrastructure Element Health', 'IP data', 'Addresses / Interfaces', 'Nets / Net ranges', 'VLANs', 'Virtual switches', 'Operating system', 'Port data', 'Data ports', 'Power ports', 'Logical ports', 'Slot data', 'Duct data', 'Services', 'Sites', 'Reference drawing', 'Assignment list', 'CI Graphics', 'Accessories', and 'Contracts'.

FNT Infrastructure Element Health

FNT Infrastructure Element Health Indicator

- ☐ critical
- ☐ degraded
- ☒ nominal
- ☐ n/a

The Infrastructure Element Health Indicator is a fast and easy-to-grasp warning mechanism for...

...assessing how current the documentation is and when and by which mechanism or person the continued existence of an element of the infrastructure was last verified.

Infrastructure Element Verification

Element last seen/verified 08.08.2024

- ☐ More than 30 days ago
- ☐ Less than 30 days ago
- ☐ Less than 5 days ago
- ☒ Less than 1 day ago
- ☐ n/a

by

☒ Monitoring 08.08.2024

☐ Autodiscovery

☐ Network Element Manager Sync/Recon

☐ Inventory Barcode/QR Code Scanner Check

☐ Approved Planning Protocol Activity Execution

☒ Visitation and visual verification 08.08.2024

Visitation and visual verification by aha (Hausmann, ...)

Confirm now

Documentation Quality KPI (Future use / Prototype state)

poor

suboptimal

optimal

n/a

Documentation Aspects (Future use / Prototype state)

	Yes	No
Technical data complete?	☐	☐
Commercial data complete?	☐	☐
Persons assigned?	☐	☐
Contract assigned?	☐	☐
SLA defined?	☐	☐
Typical object link exists?	☐	☐
Sustainability data (EPD)?	☐	☐

// FNT Infrastructure Element Health: A comprehensive control cockpit for any active device!

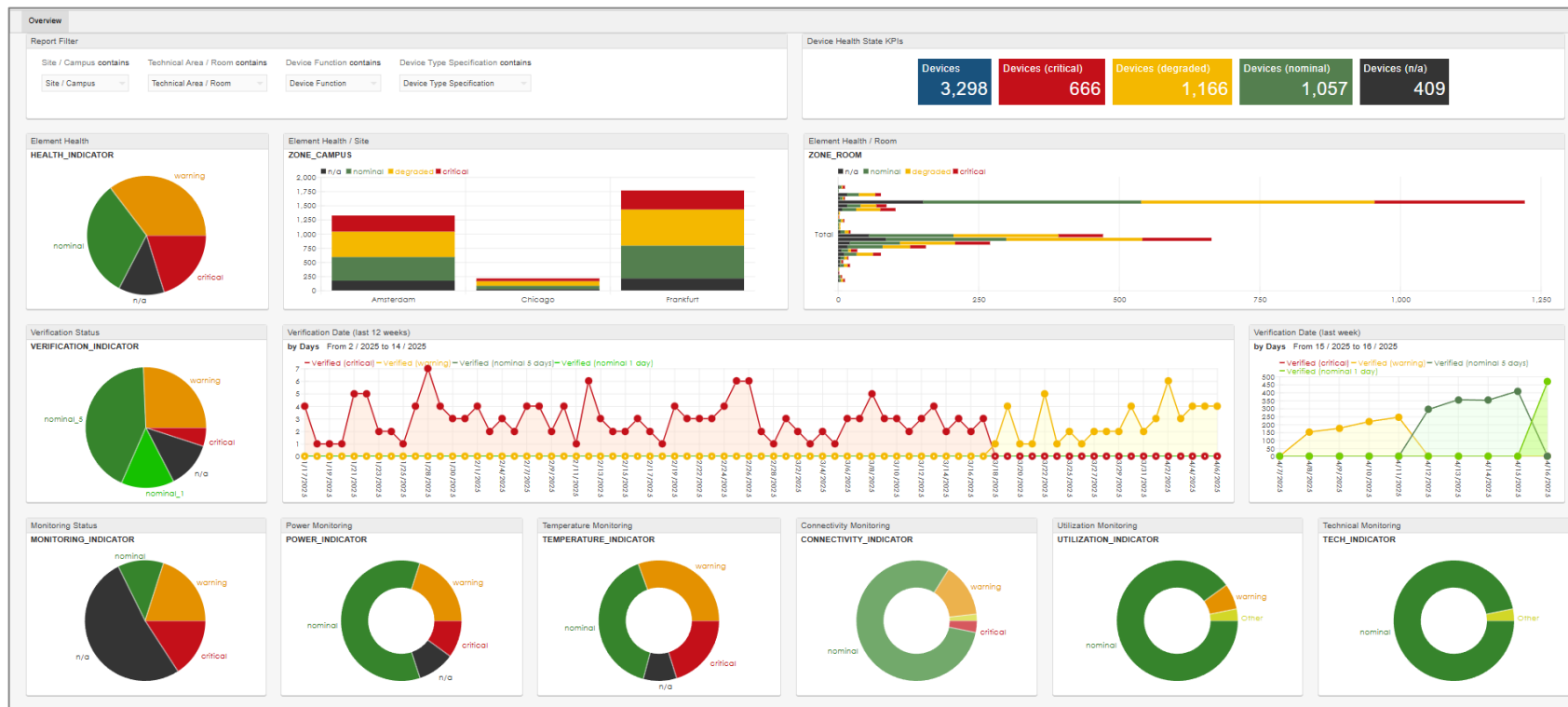
The screenshot displays the FNT Infrastructure Element Health interface for the object 'switch4711'. The interface includes a sidebar with navigation options like 'Total view', 'Object data', 'Geolocation', 'Technical data', 'EPD data', and 'FNT Infrastructure Element Health'. The main content area is divided into several sections:

- FNT Infrastructure Element Health Indicator:** Shows status options: ☐ critical, ☐ degraded, ☒ nominal, and ☐ n/a.
- Monitoring:** Includes an 'Overall Monitoring Indicator' with status options (critical, warning, nominal, n/a) and a 'Monitoring' section with a 'Confirm now' button.
- Infrastructure Element Verification:** Lists various verification tasks such as 'Network Element Manager Sync/Recon', 'Inventory Barcode/QR Code Scanner Check', and 'Approved Planning Protocol Activity Execution'.
- Documentation Quality KPI (Future use / Prototype state):** Shows status options (poor, suboptimal, optimal, n/a) and a table for 'Documentation Aspects' with 'Yes' and 'No' columns.

Overlaid text on the interface highlights key features:

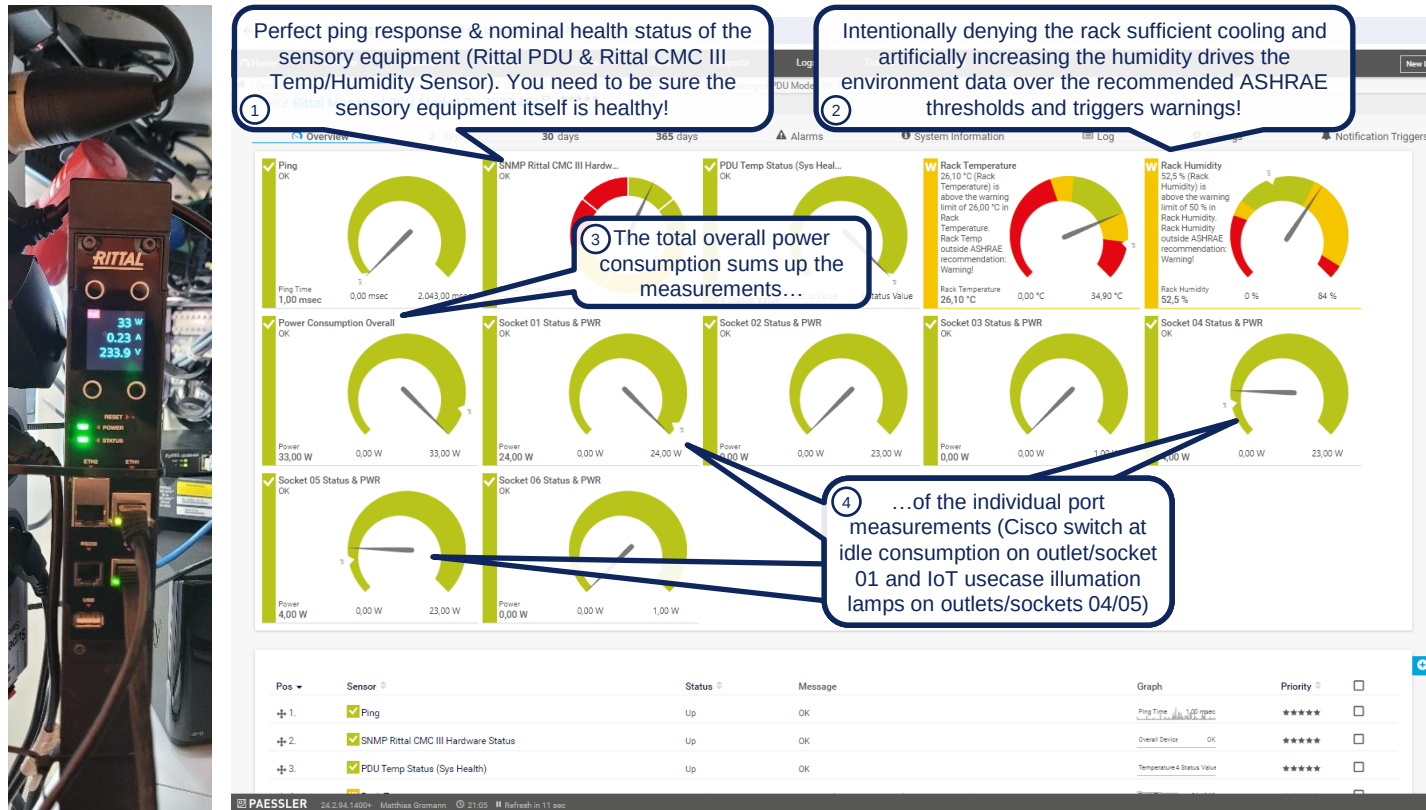
- The Infrastructure Element Health Indicator is a fast and easy-to-grasp warning mechanism for...**
- ...evaluating documentation coverage and thereby overall infrastructure documentation quality.**

// The infrastructure health cockpit birdseye view over large environments



// Use Case Visualizations:

Datacenter Environmental Monitoring of Power, Temperature, Humidity



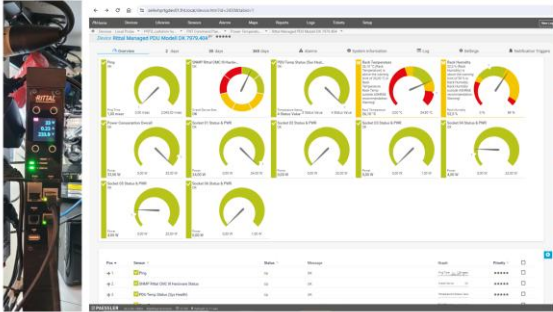
A comprehensive DCIM environmental dashboarding configuration helps to stay on top of the power, temperature and humidity situation.

An intentionally created critical situation causes thresholds to be breached and warnings to be issued.

// A comprehensive collection of usecase and visualizations

FNT Infrastructure Health & Monitoring

// Use Case Visualizations:
Datcenter Environmental Monitoring of Power, Temperature, Humidity



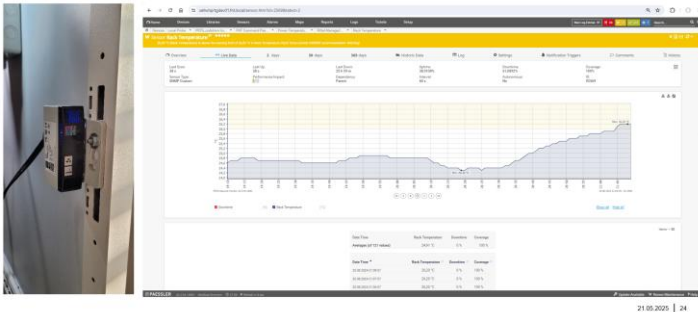
A comprehensive DCIM environmental dashboarding configuration helps to stay on top of the power, temperature and humidity situation.

An intentionally created critical situation causes thresholds to be breached and warnings to be issued.

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FNT Infrastructure Health & Monitoring

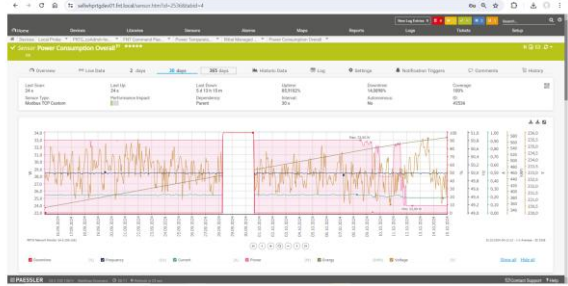
// Use Case Visualizations:
Datcenter Environmental Monitoring of Power, Temperature, Humidity



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FNT Infrastructure Health & Monitoring

// Use Case Visualizations:
Energy consumption monitoring over time

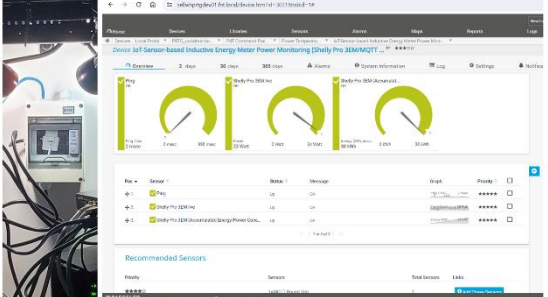


Power monitoring and accumulating energy consumption over time supports optimization measures, capacity planning as shown plus usage-based chargeback scenarios as well as contribution to CO2 footprint determination & documentation (see reference slide to FNT Sustainability).

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FNT Infrastructure Health & Monitoring

// Use Case Visualizations:
IoT device-based power measuring scenarios – low cost/big insight

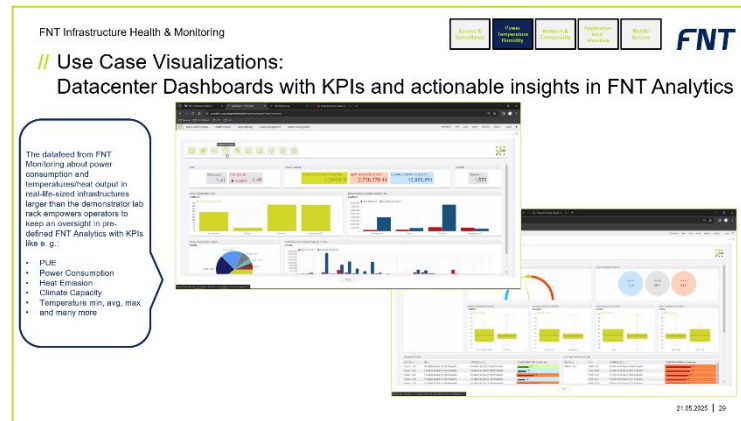
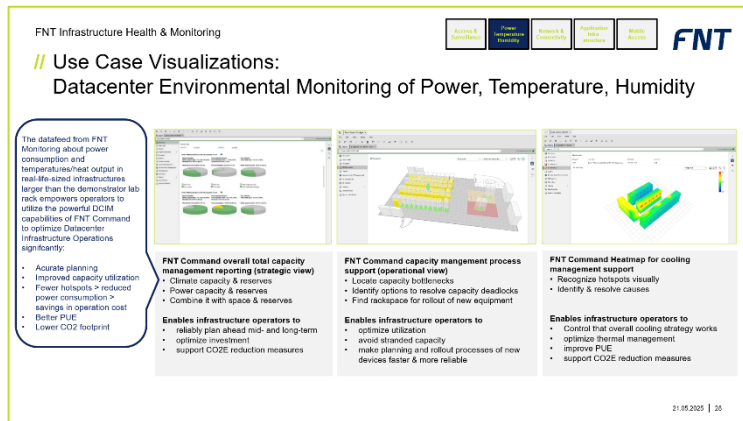
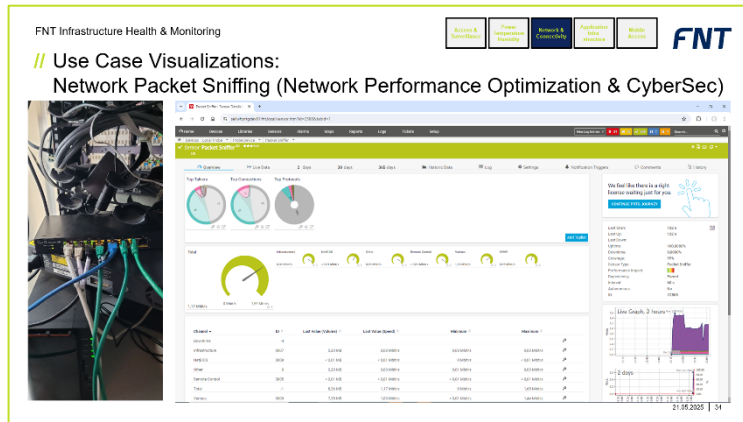


Monitoring such IoT devices also demonstrates monitoring with yet another communication protocol approach besides ModBUS/TCP: MQTT messaging.

If multiple active network devices present in the IDF a equivalent number distribution by nominal values allows breakdown in sufficient detail.

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// The infrastructure health cockpit birdseye view over large environments



// FNT helps you to overcome and successfully master the Challenges.

Manage
hybrid



Increase
resilience



Achieve more
with less in
fieldservice



Operate
sustainably



Be
compliant



Support OT &
digitization in
production



Roll out
networks
faster!





Thank you!

www.fntsoftware.com