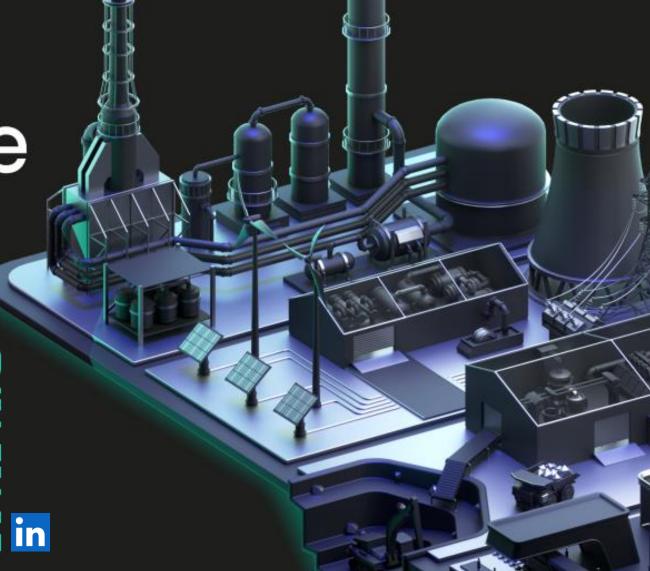
Eight steps to industrial cyber resilience



Kirill Naboyshchikov **Product Marketing Director**



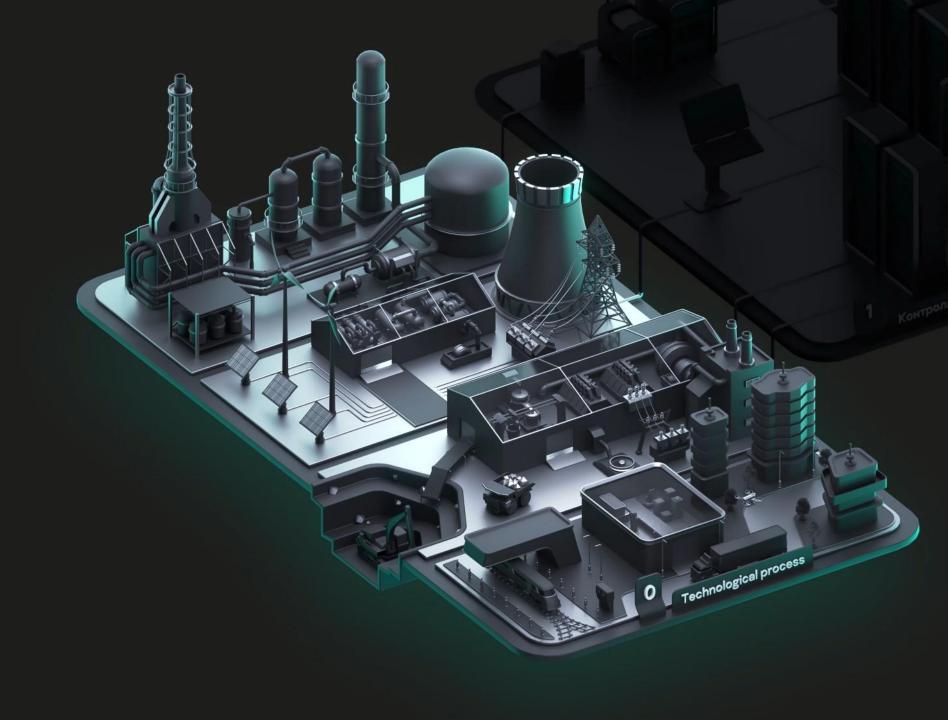




Industrial enterprise

Industrial enterprise O Technological process

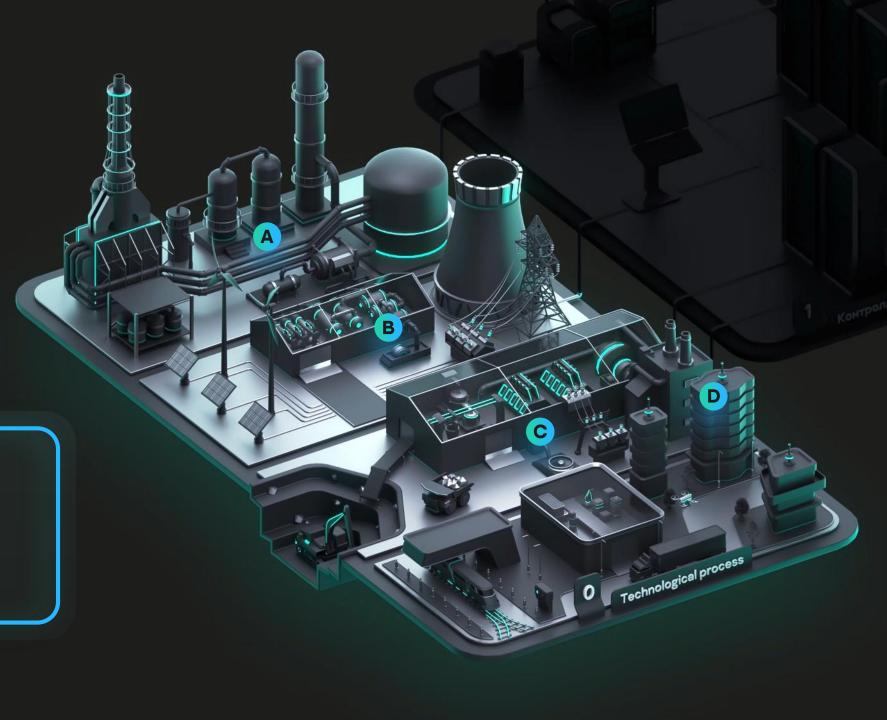
Industrial enterprise



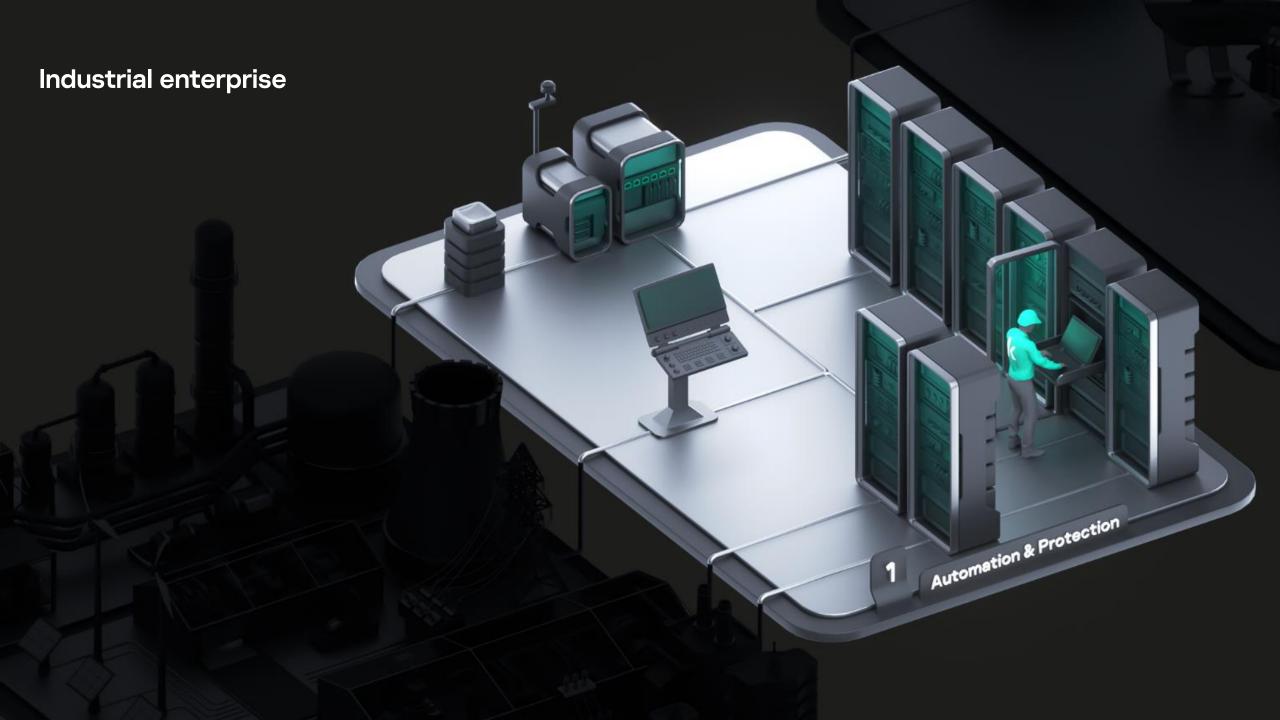
Industrial enterprise

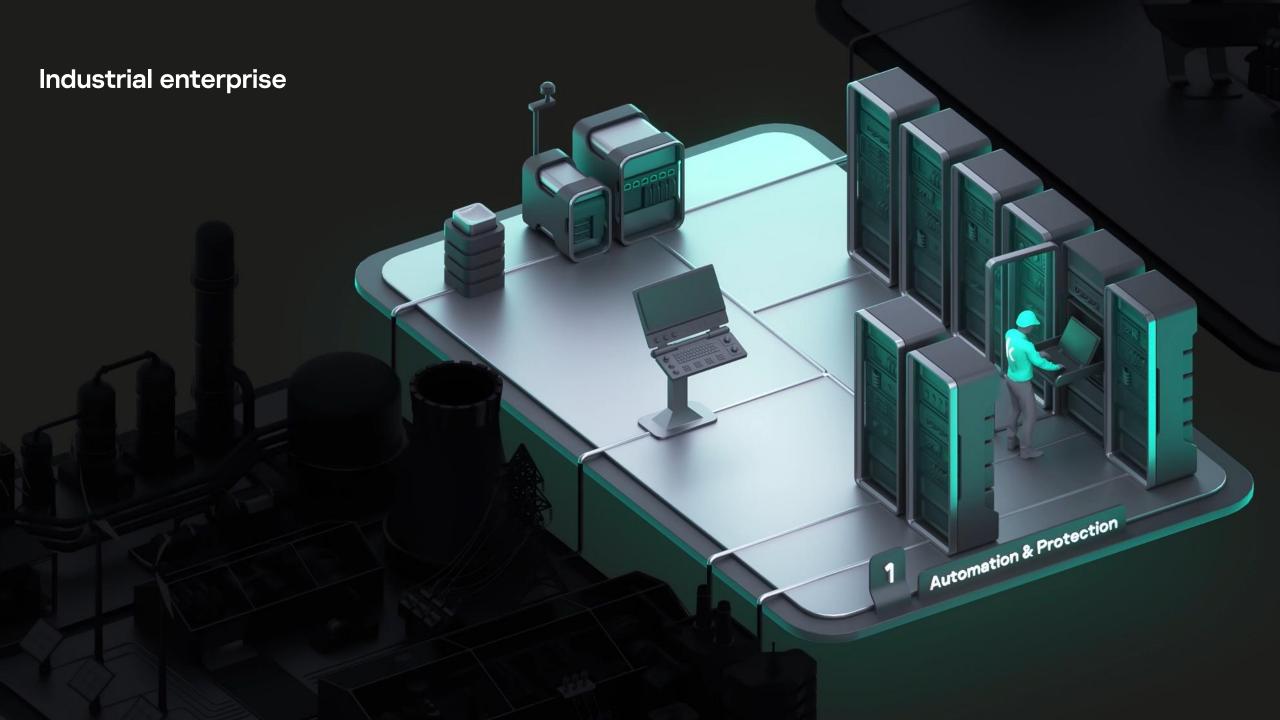
Technological process

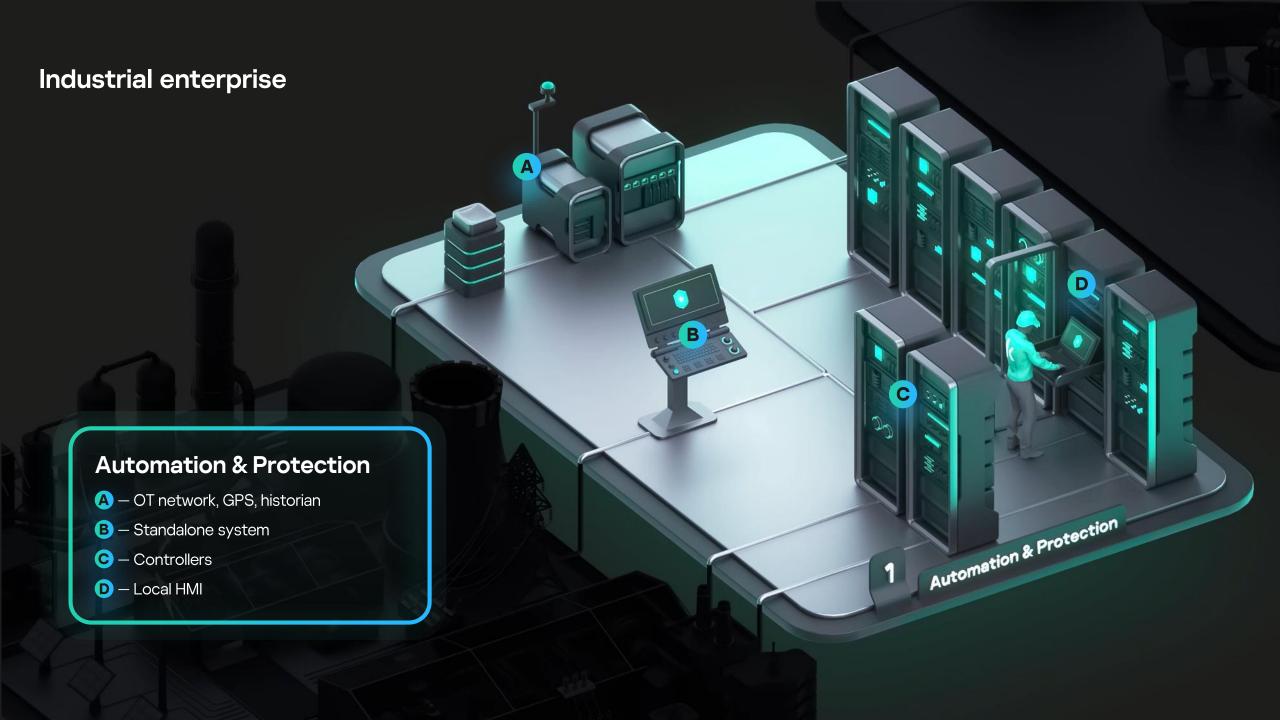
- A Oil, gas and chem
- **B** Power, grid and utilities
- C Minerals, metals and mining
- D Critical manufacturing

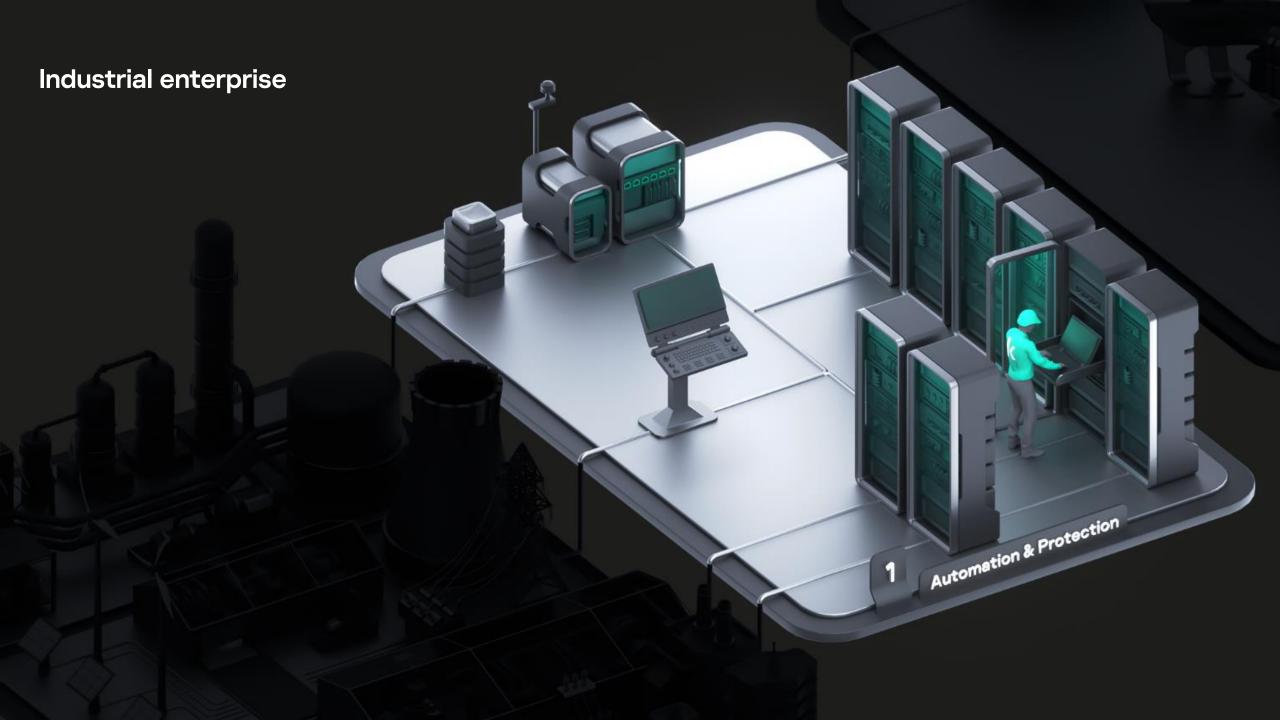


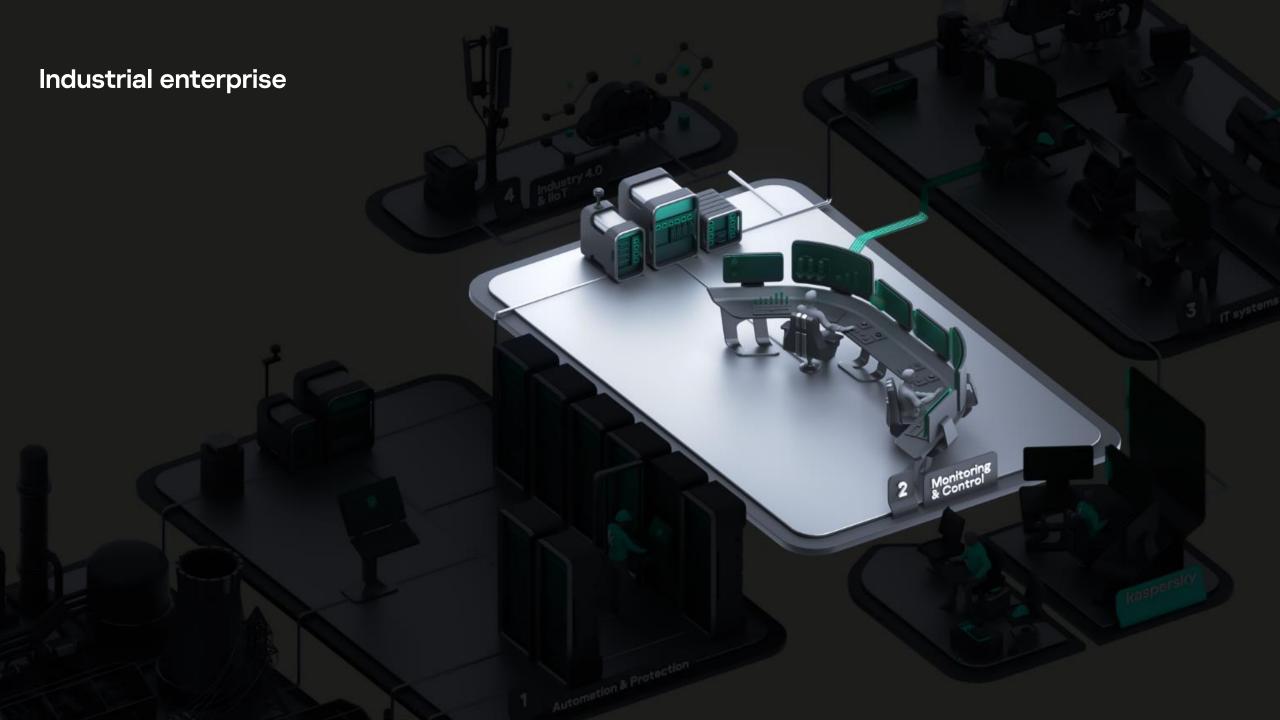
Industrial enterprise O Technological process

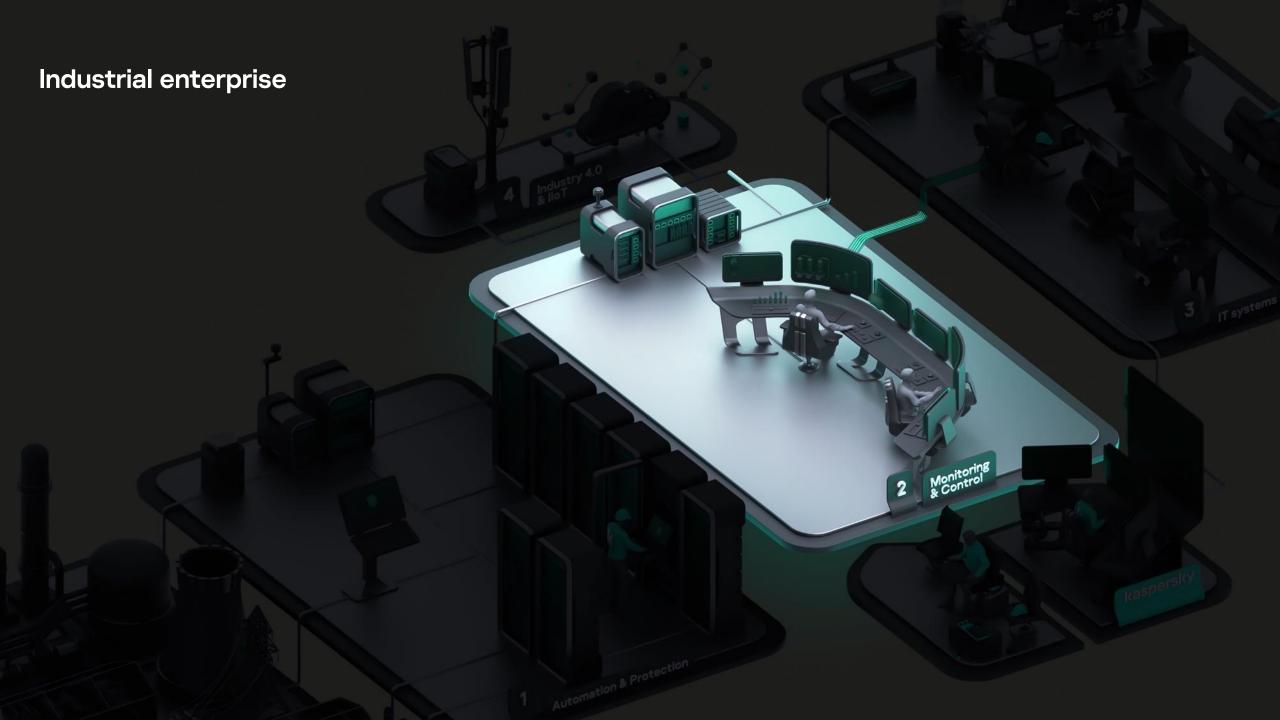


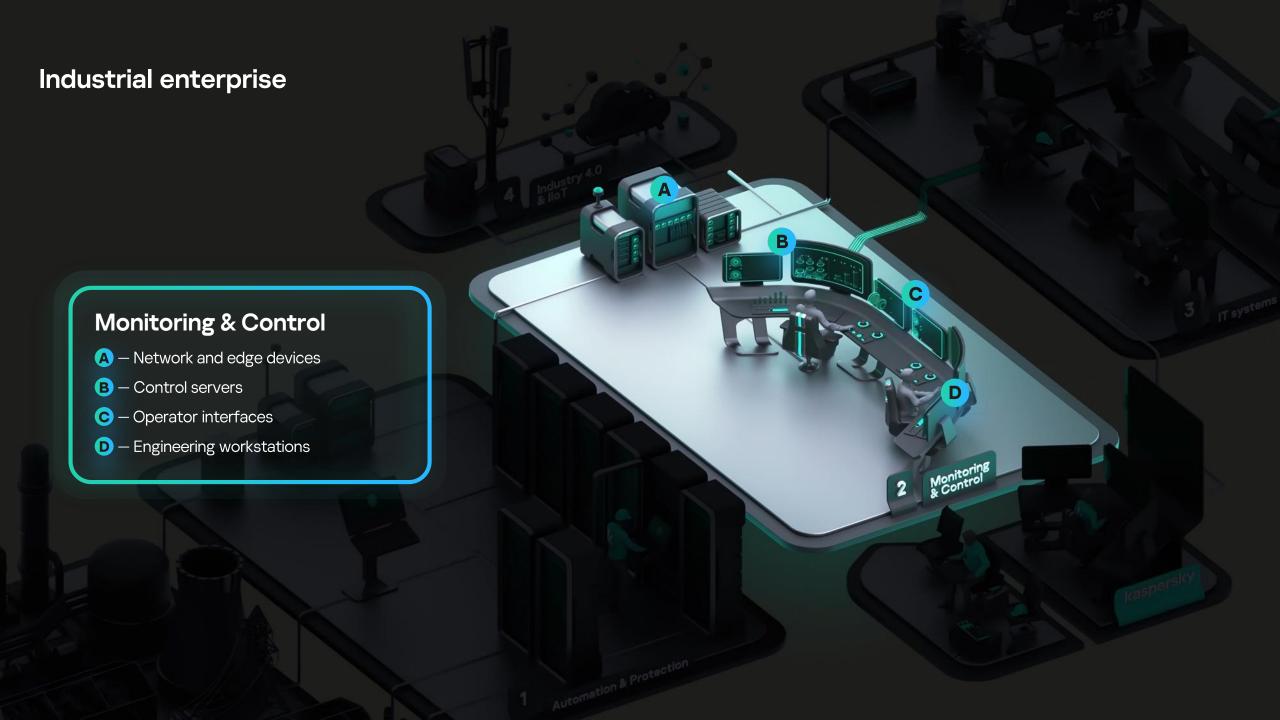


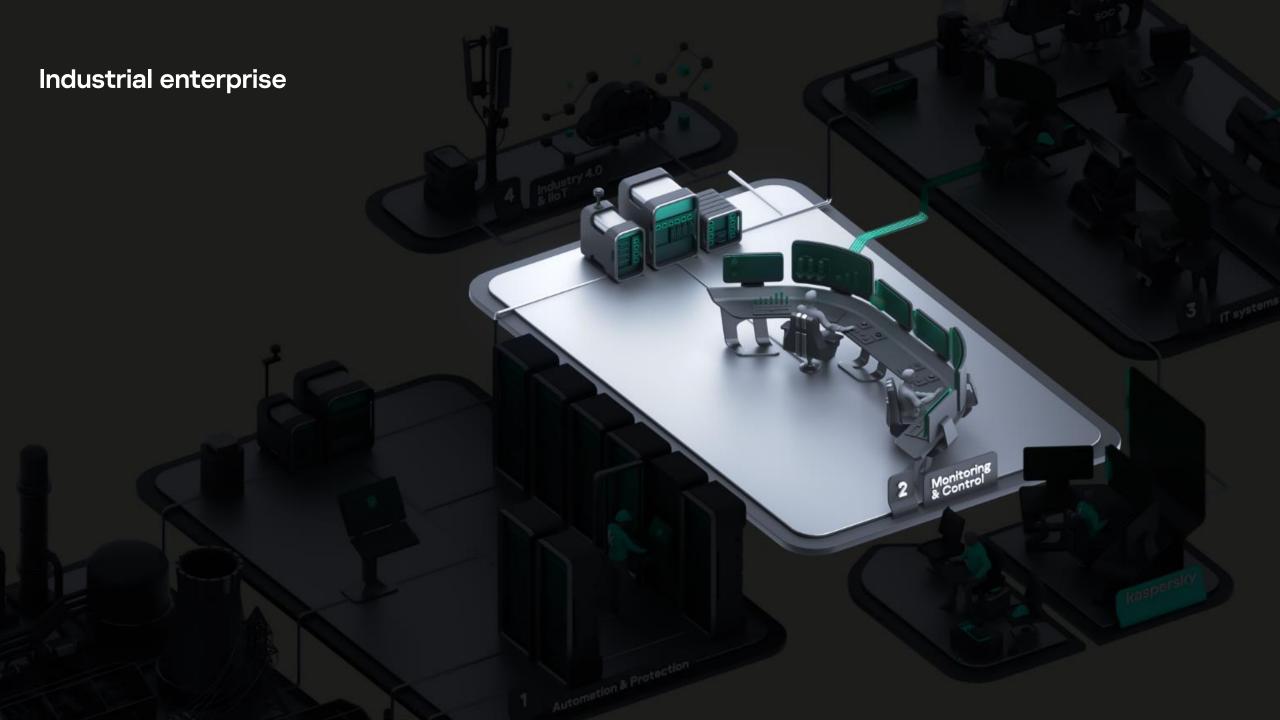


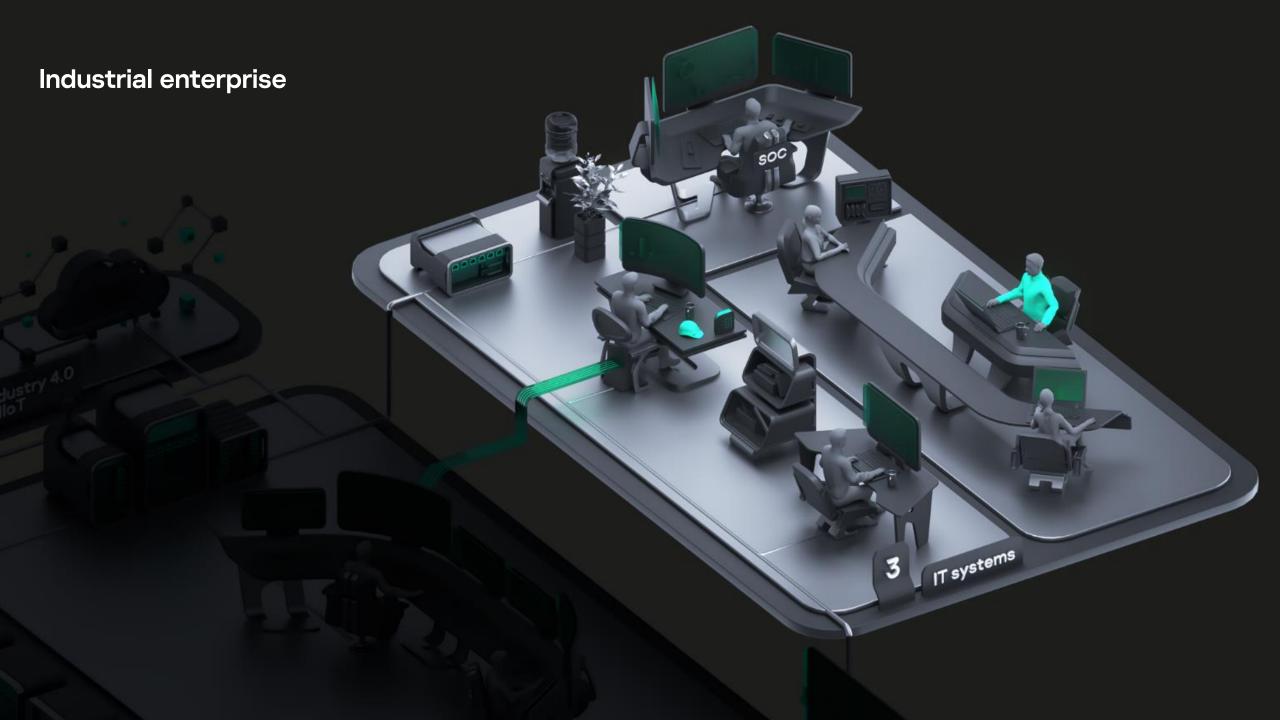


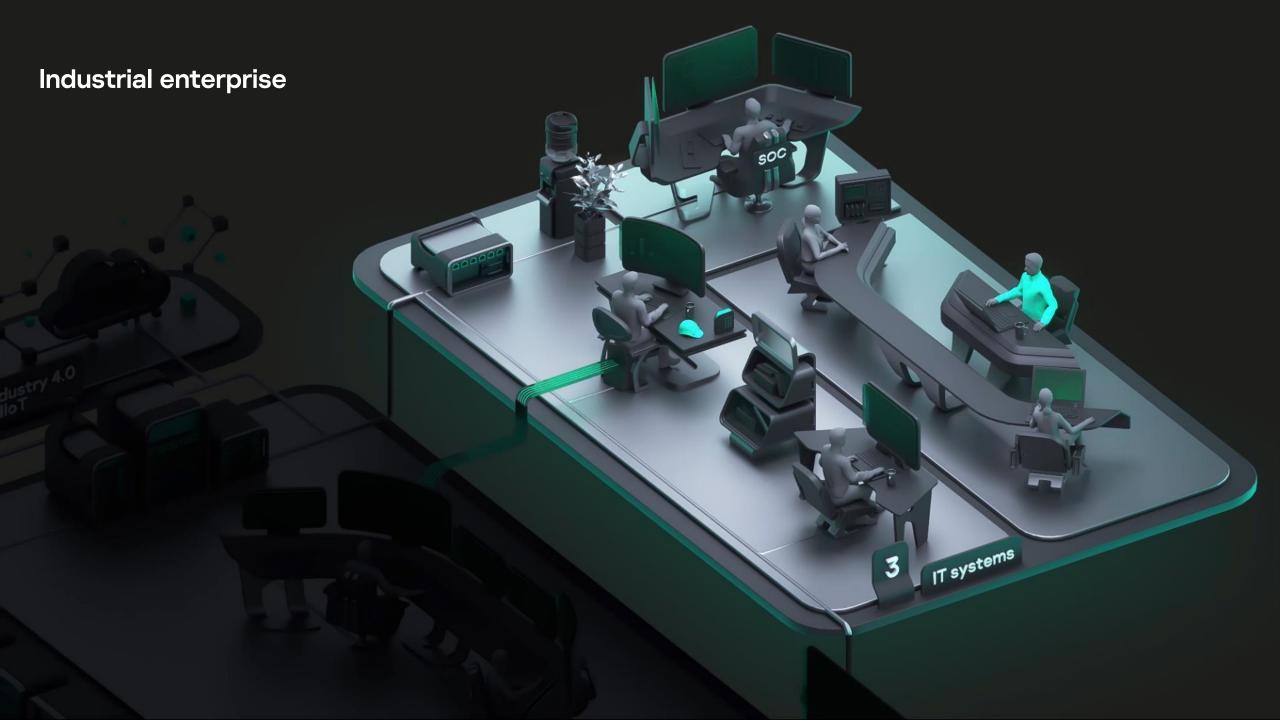


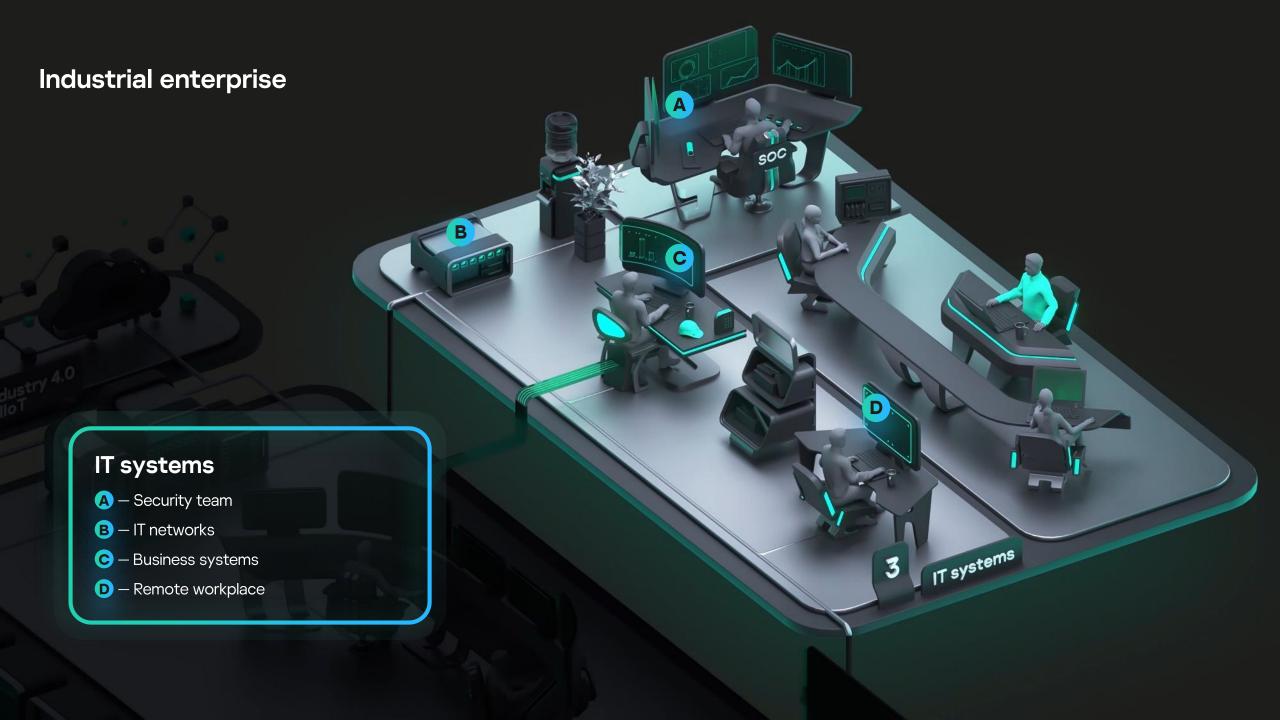


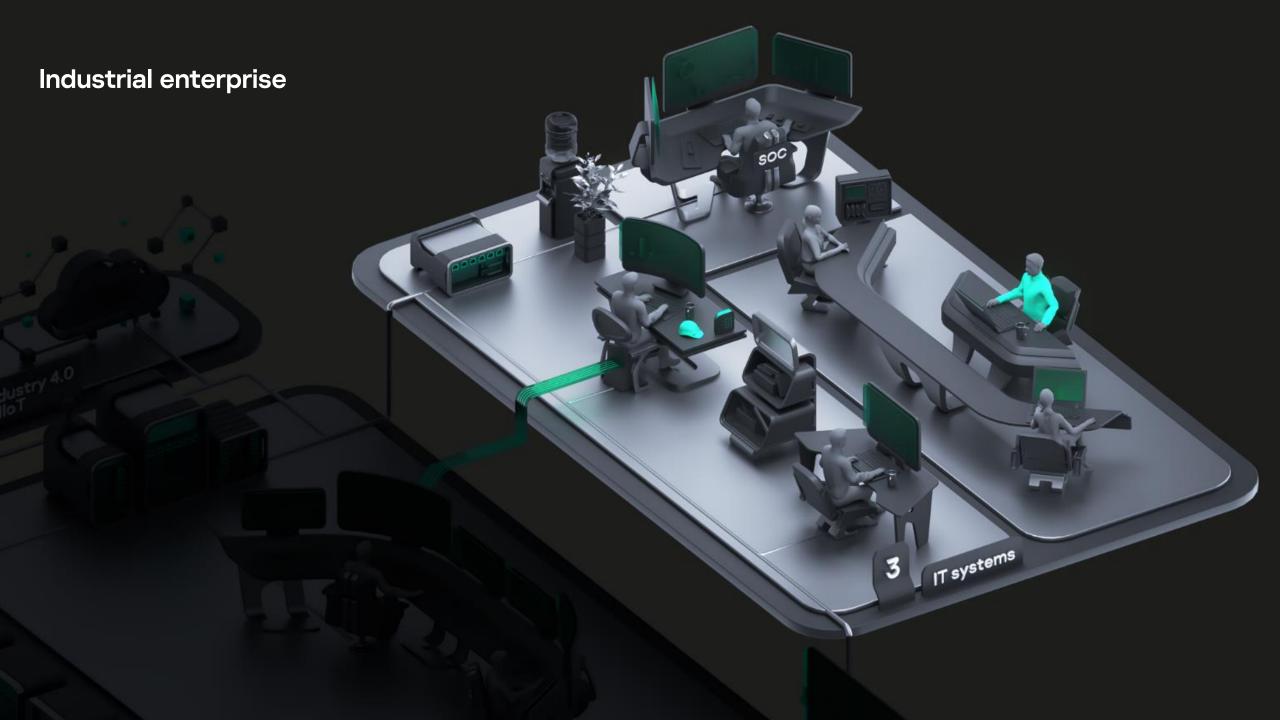


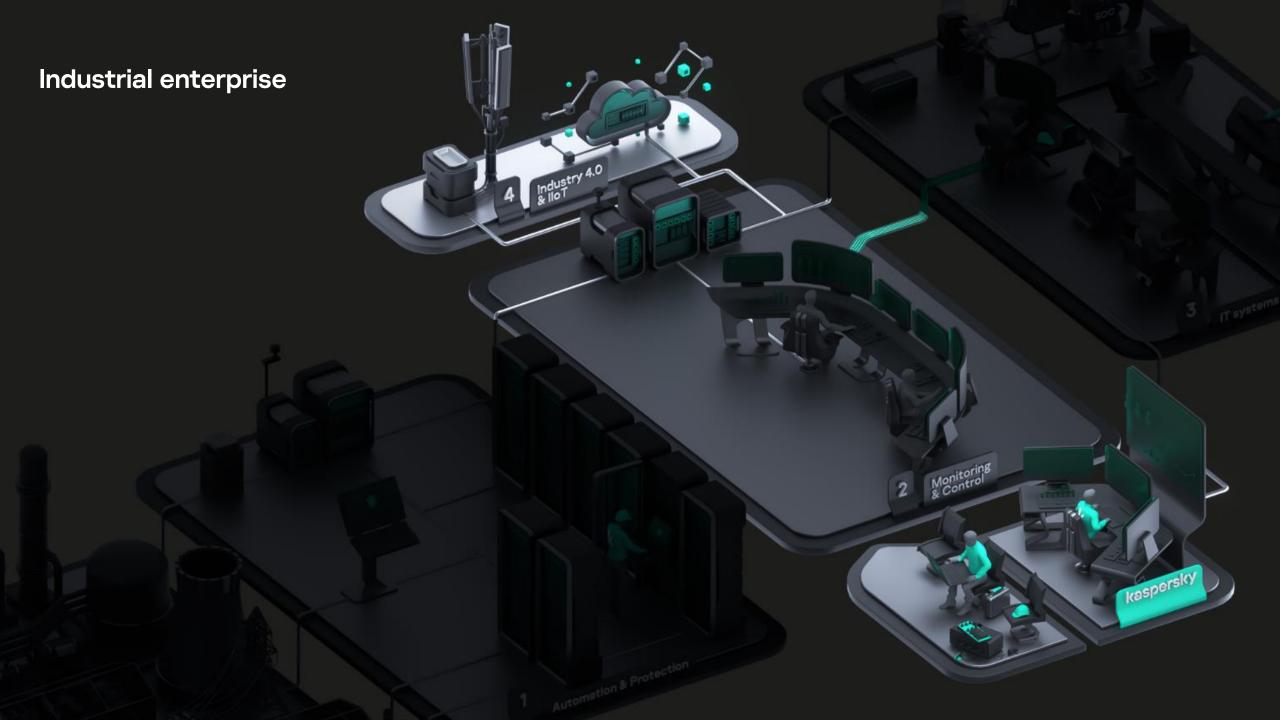


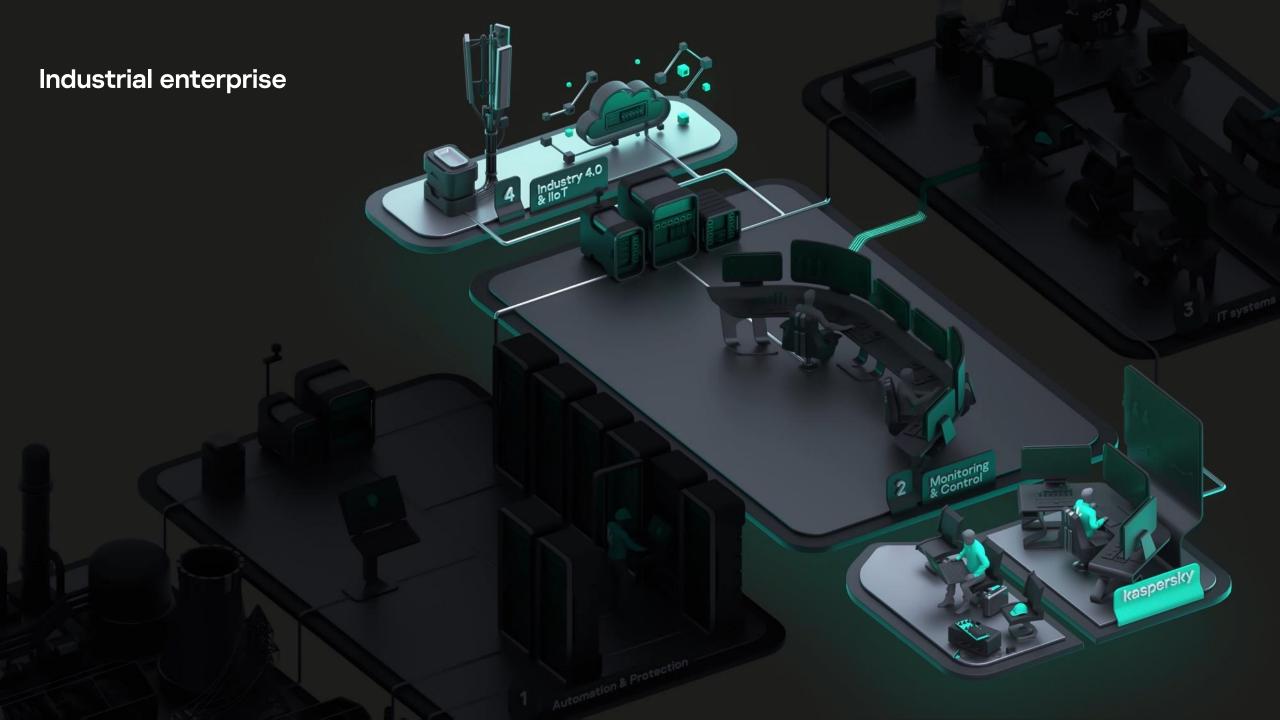


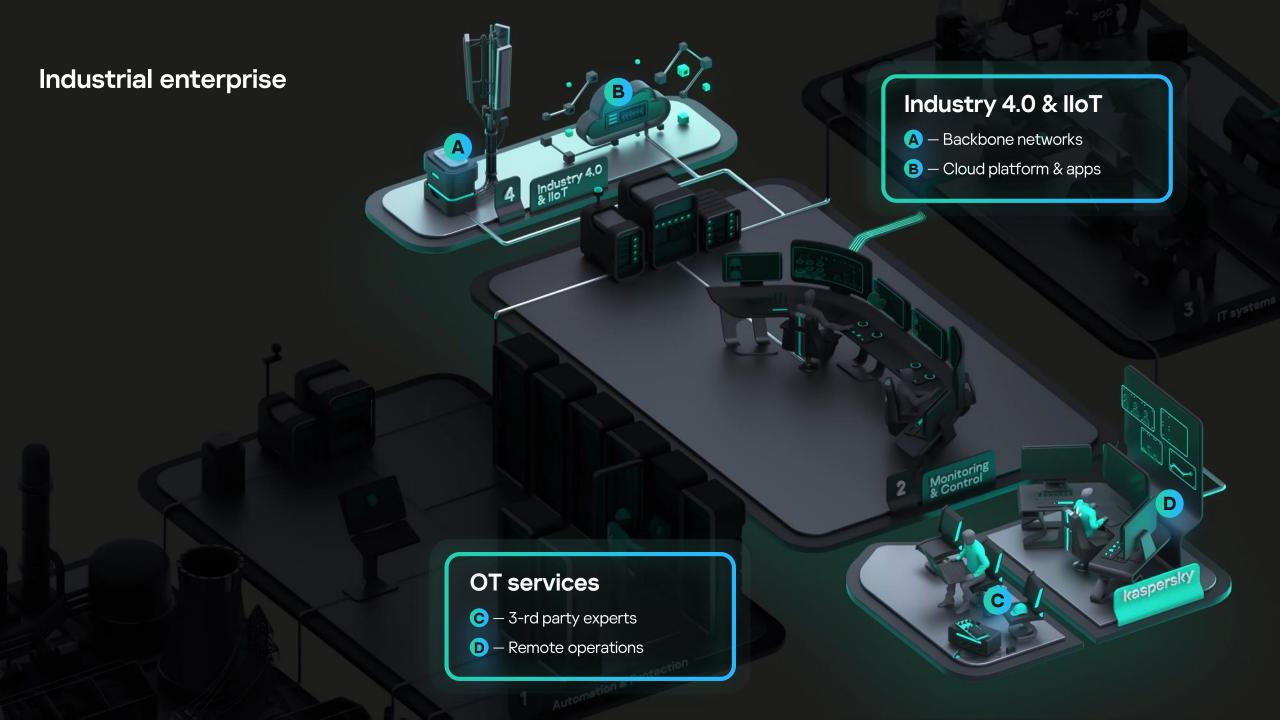


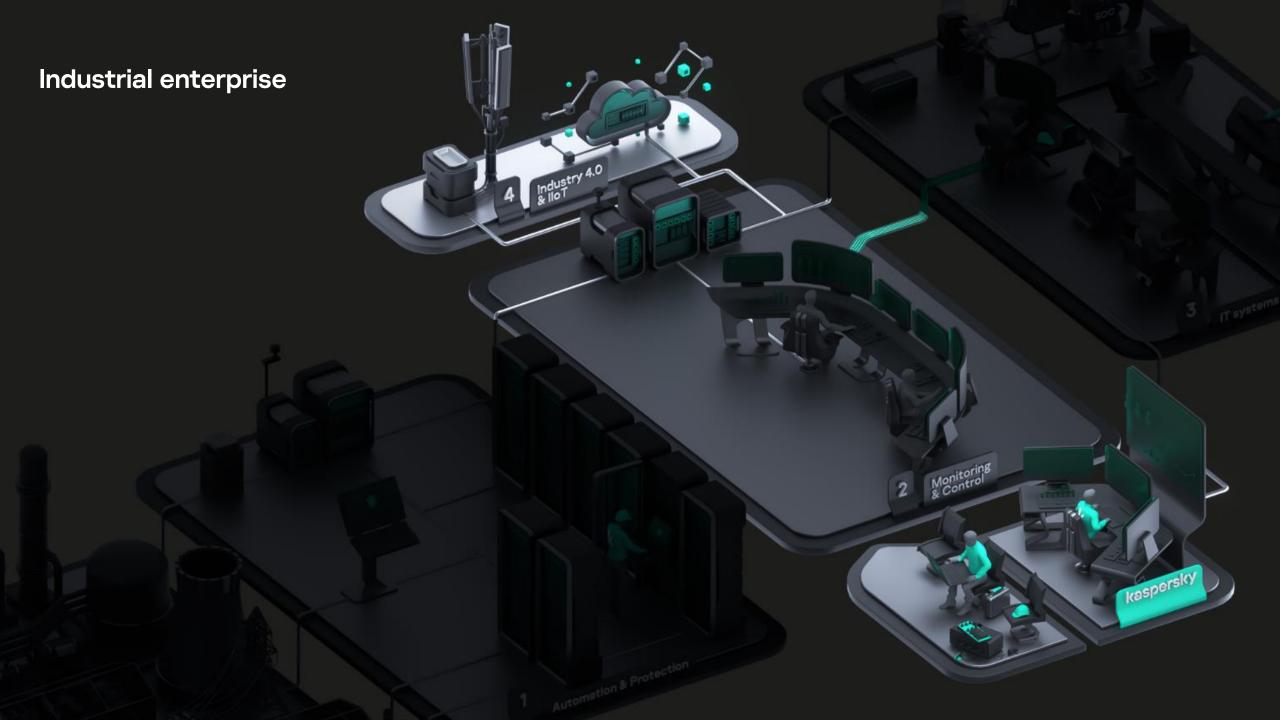


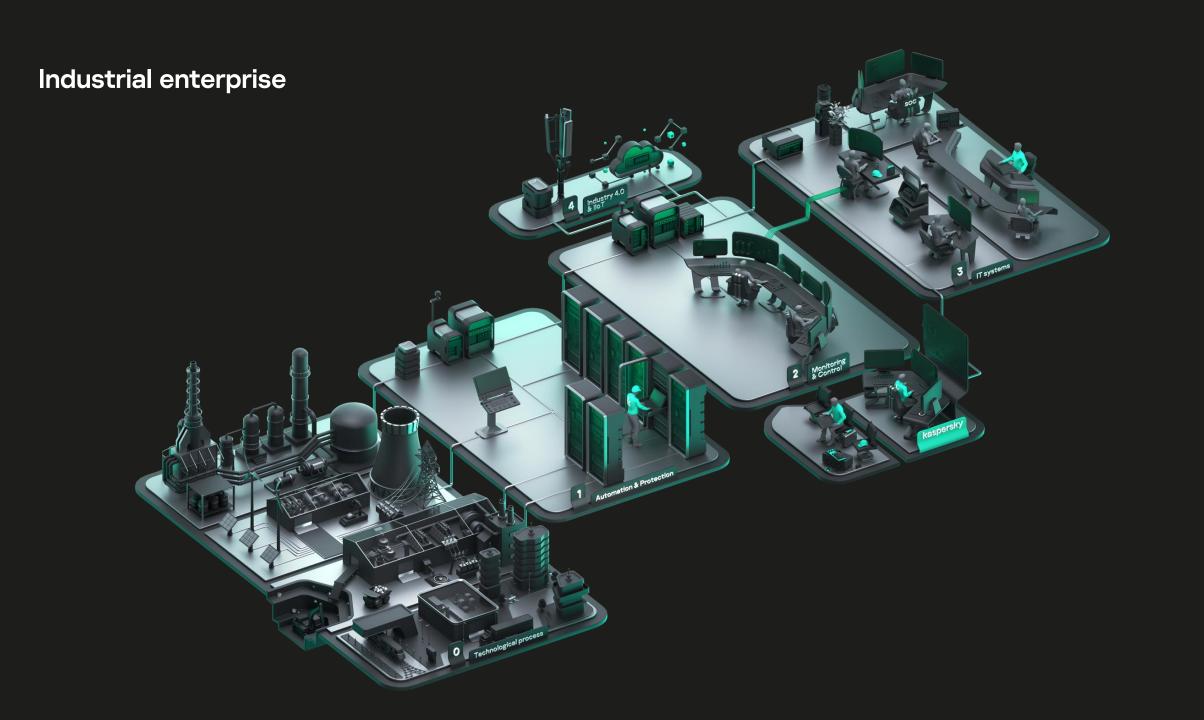












Yesterday

Security by obscurity

Airgap, reactive approach,

basic

security measures borrowed from IT

Spe

designe

Inc

produ

Today

Specialized platforms

designed and tested for OT.

Industrial grade

product for Critical Infrastructure Protection

T-C

eco nat

technolo Cyber-Pl



IT - OT convergence

ecosystem of natively integrated

technologies, knowledge and expertise for Cyber-Physical Systems protection



Bring on the future

OT security technology provider must:

Be transparent and a longterm **enterprise** grade supplier

Have the **right mix** of IT, OT and IoT expertise and ecosystem offering

Provide a

platform

solving multiple challenges

Offer extended detection, **prevention** and secure by design products

Ensure **Compliance**with standards, regulations
and compatibility with ICS

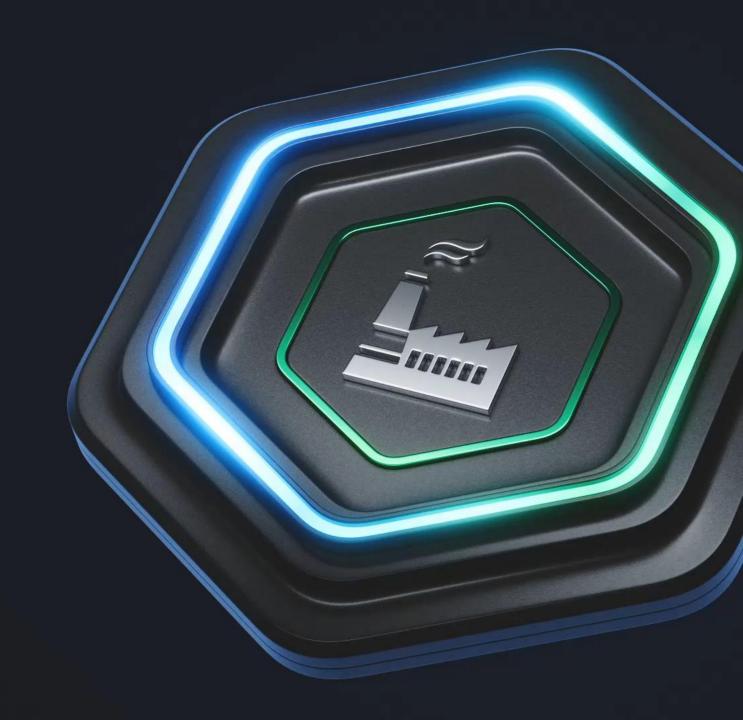


Prove the **efficacy** and **safety** of its technologies

kaspersky

Kaspersky Industrial CyberSecurity

Key element – Native OT XDR platform





Native OT XDR



Rich functionality addressing various safety, security, management and maintenance challenges.







Kaspersky Industrial CyberSecurity



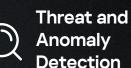
Kaspersky Industrial CyberSecurity for Nodes



Advanced Asset Management



Endpoint Protection



Security Audit



Endpoint
Detection
and Response



Kaspersky Ecosystem and Integrations

Kaspersky Industrial CyberSecurity

for Networks

Asset

Management



Extended
Detection and
Response

М

Portable Scanner

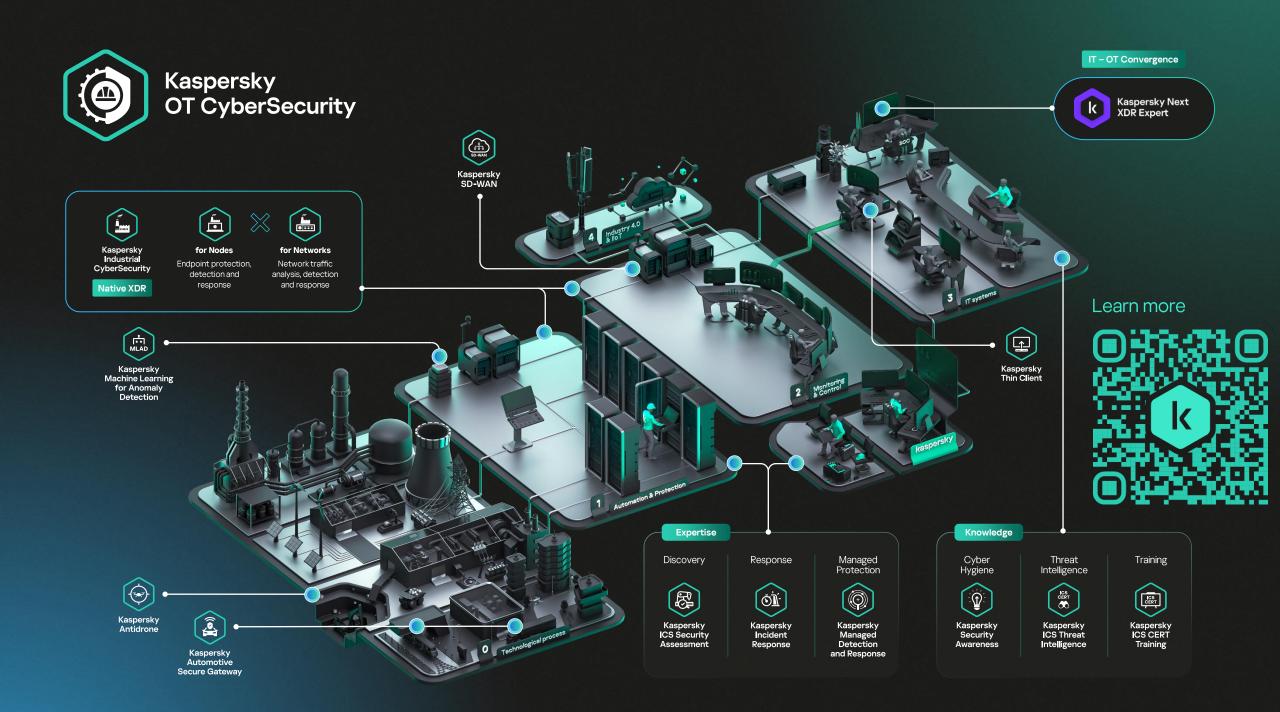
XDR capabilities

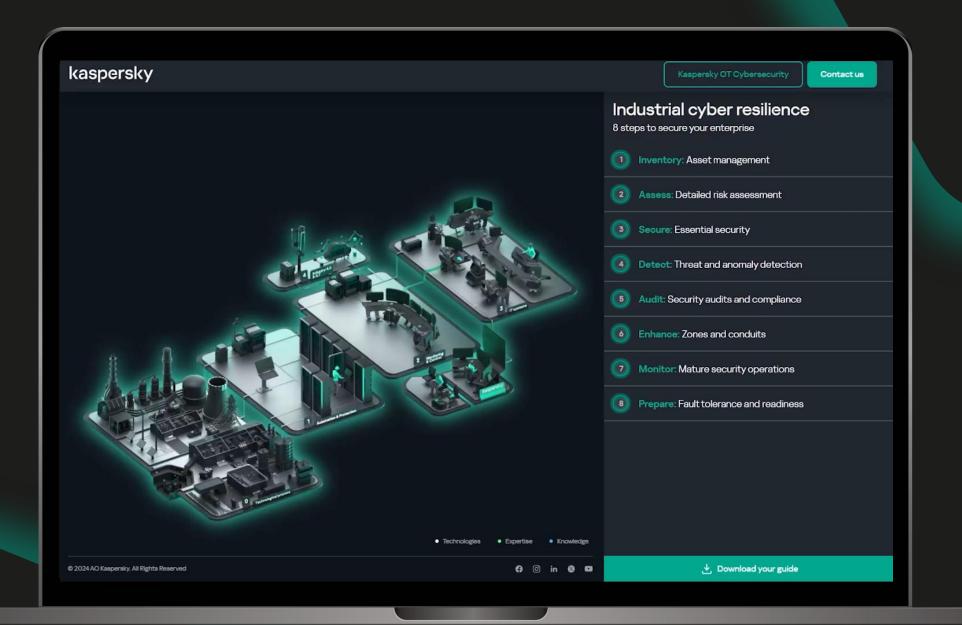
kaspersky

Kaspersky OT CyberSecurity

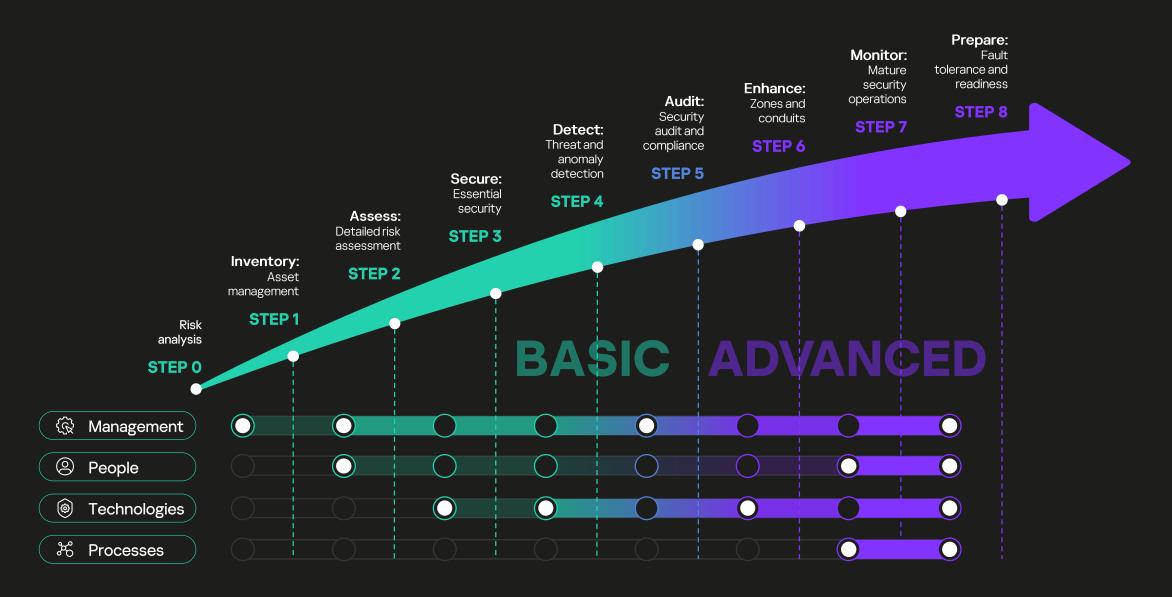
Cyber-physical security ecosystem for industrial enterprises

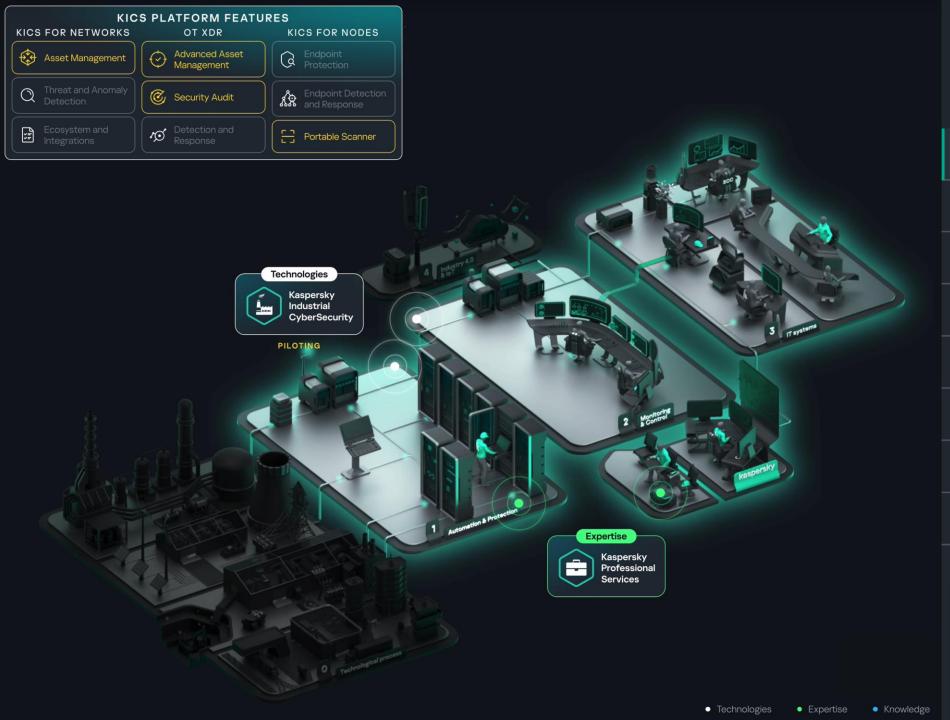






Transition from being a solution supplier to a trusted advisor to unlock greater value





Industrial cyber resilience

8 steps to secure your enterprise

1 Inventory: asset management

1.1 Outline objectives

1.2 Prepare for discovery

1.3 Use active pooling

1.4 Map network

1.5 Inventory

1.6 Monitor continuously

6

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7

8

Standards and practices

IEC 62443-3-3 SR 1.1*; SR 1.2; SR 1.3*; SR 7.8^

IEC 62443-3-2 ZCR 1.1; ZCR 2.2

NIS2 Article 21: p. 2 (d, g, I), p. 3

NIST SP 800-82r3 6.1.1: Asset Management

GB/T 44462.1 7.3.5.5.2: Asset Management



Industrial cyber resilience

8 steps to secure your enterprise

Assess: detailed risk evaluations

Identify vulnerabilities

Assets threats

Analyze impacts

Risk prioritization

2.5 Consider compliance

5

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Standards and practices

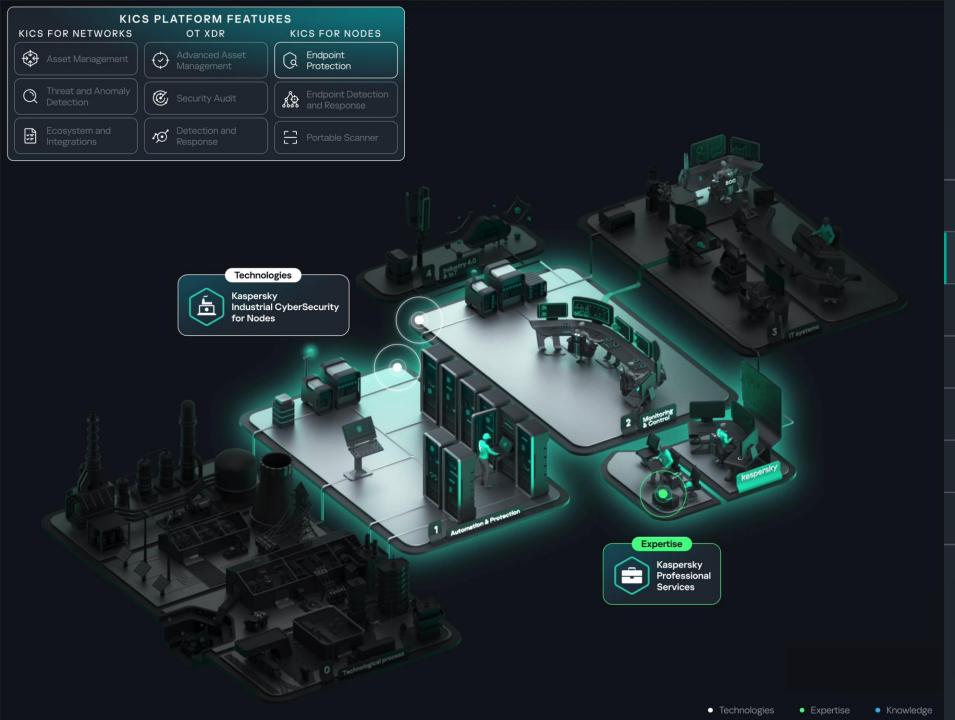
IEC 62443-3-3 ZCR: 3.(All); 5.1[^]; 5.2[^]; 5.3; 5.4;

5.5; 5.8; 5.10; 5.12^; 5.13^

NIS2 Article 21: p. 2 (a, f); 22: p. 1

NIST SP 800-82r3 3.3.6; 6.1.3

GB/T 44462.1 7.3.5.2 Security management



8 steps to secure your enterprise

Secure: essential protection

3.1 Harden and configure your endpoints

3.2 Configure baseline of system integrity

3.3 Deploy EPP

3.4 Implement access control

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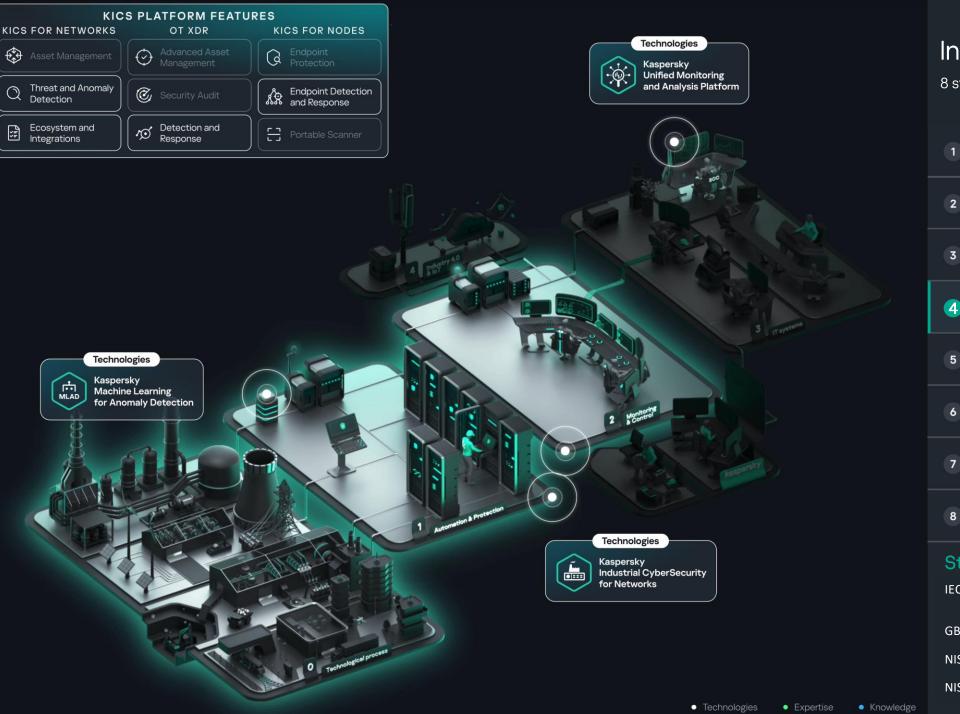
Standards and practices

IEC 62443-3-3 SR: 1.6; 2.1; 2.3; 2.4; 2.5; 2.8;

3.2; 4.1*; 7.2^; 7.7

NIS2 Article 21: p. 2 (d, e, j); 25: p. 1

GB/T 44462.1 7.3.1.1 ICS host security



8 steps to secure your enterprise

Detect: spot threats and anomaly

4.1 Implement toolset

4.2 Gather data

4.3 Establish baseline behavior

4.4 Seek anomalies

4.5 Remediate

4.6 Be futureproof

Standards and practices

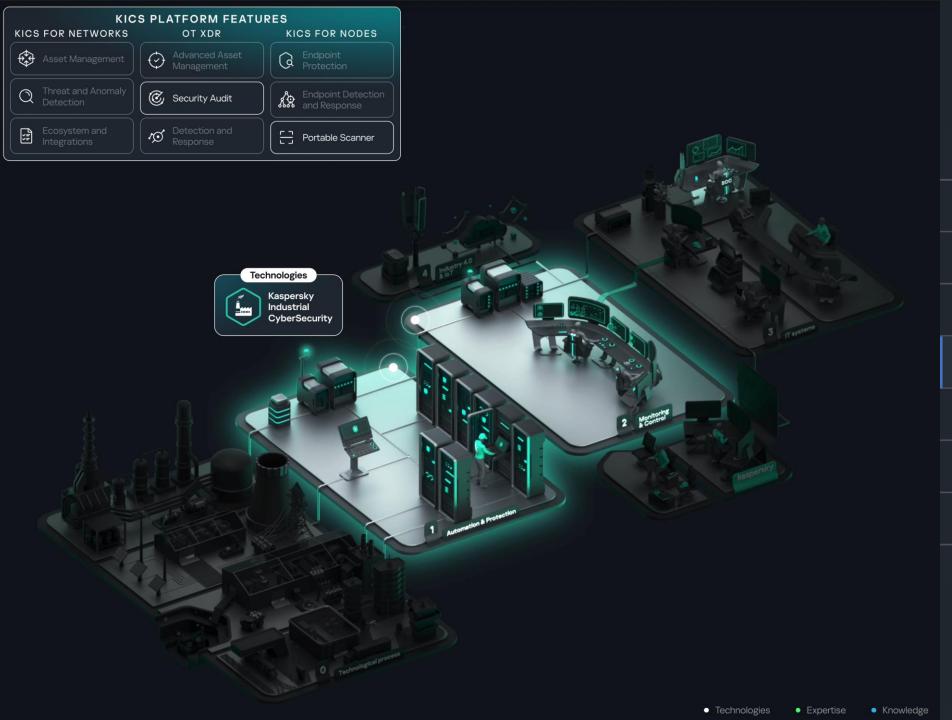
IEC 62443-3-3 SR: 1.11; 2.2; 2.10; 2.21; 3.1[^];

3.5^; 3.8; 5.3

GB/T 44462.1 7.3.3.2 Border Security

NIS2 Article 21: p. 2 (b, c, d, e); 23 p. 4

NIST SP 800-82r3 4.1: OT Risk Management



8 steps to secure your enterprise

2

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Audit: compliance and vuln.

5.1 Identify frameworks

5.2 Implement technical controls

5.3 Hold risk assessment workshops

5.4 Conduct security audits

Standards and practices

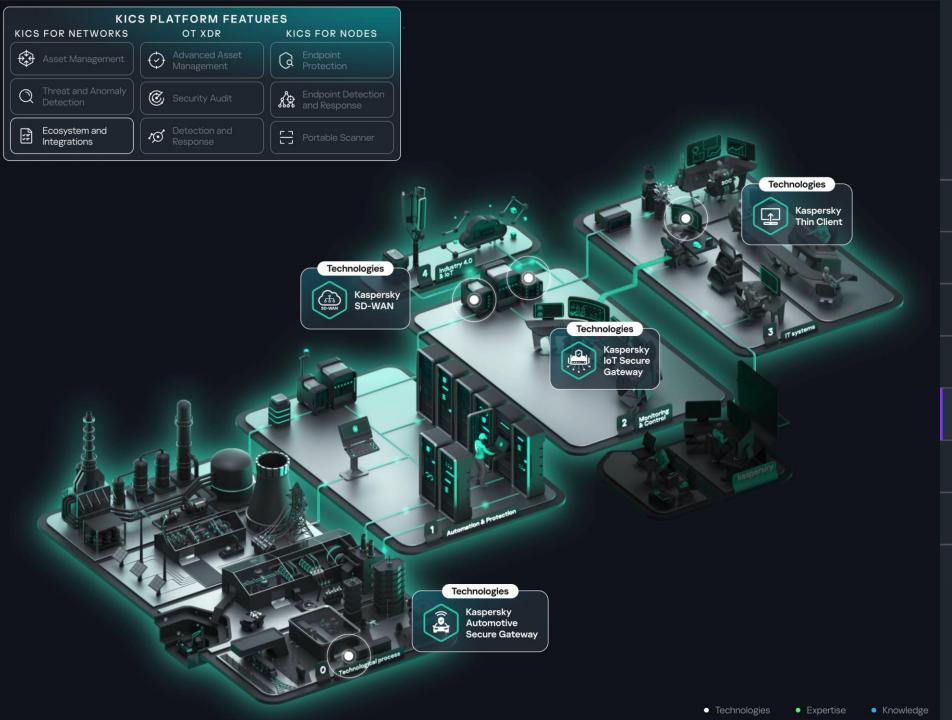
IEC 62443-3-3 SR: 1.5; 1.7; 2.9; 2.11; 3.4; 3.7;

3.9; 6.1; 7.6^

GB/T 44462.1 7.3.2.3; 7.3.4.2

NIS2 Article 20 p.1; 21 p.2 (d, e, f, i)

NIST SP 800-82r3 3.3.1: Establish OT sec. Govern.



8 steps to secure your enterprise

Enhance: zones and conduits

6.1 Continuously improve network segmentation

6.2 Map zones

6.3 Model conduits

6.4 Implement and configure

6.5 Test your setup

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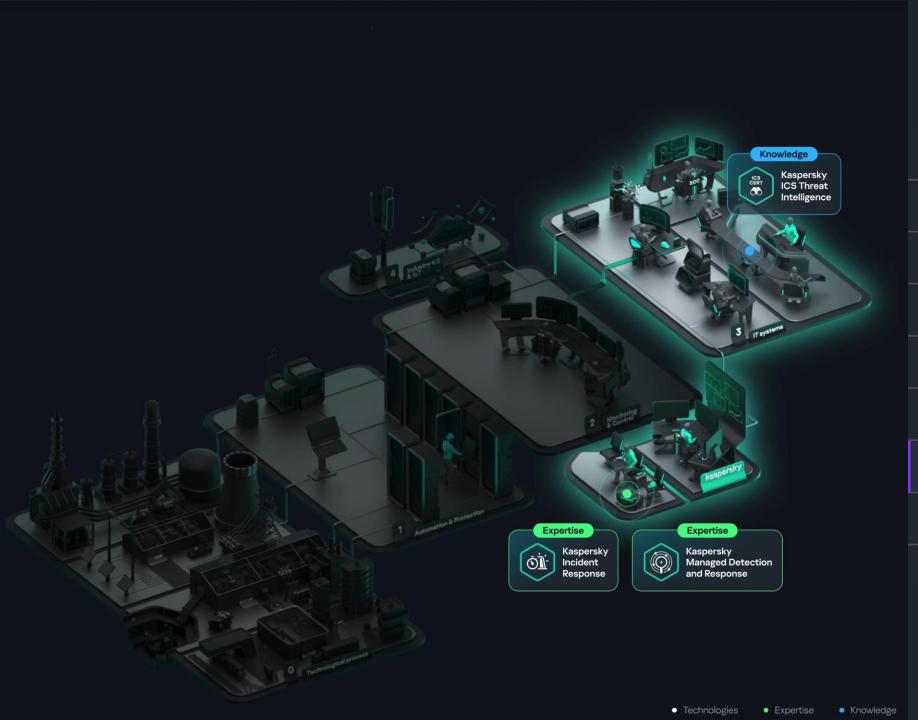
Standards and practices

IEC 62443-3-3 SR: 1.11; 1.13; 3.6; 5.1[^]; 5.2[^]

GB/T 44462.1 7.3.3.1 - Architectural security

NIS2 Article 21: p. 2 (h, I, j)

NIST SP 800-82r3 4.1 – OT risk management



8 steps to secure your enterprise

Monitor: mature sec. operations

7.1 Set SOC goals

7.2 Develop SOC

7.3 Grow human skills

7.4 Form IR team

7.5 Refine IR plan

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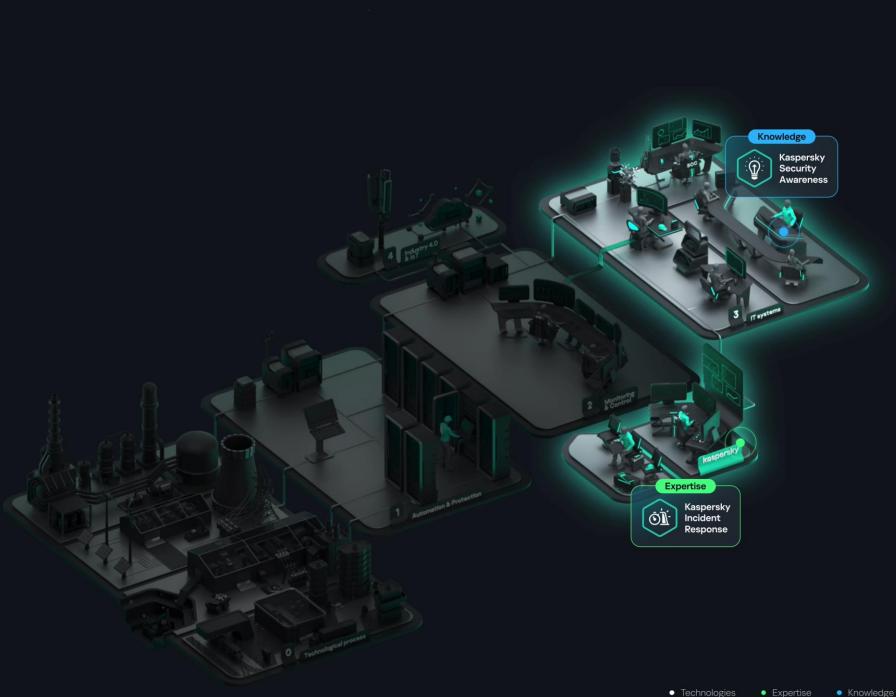
Standards and practices

IEC 62443-3-3 SR 3.3; SR 6.2^

GB/T 44462.1 7.3.5.5. Operations management

NIS2 Article: 21 p. 2 (b, c); 23 p. 4

NIST SP 800-82r3 3.3.8: Develop an IR Capability



8 steps to secure your enterprise

Prepare: ensure resilience

Train your team

Establish cross-team collaboration

Practice

Hold IR retrospective

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Standards and practices

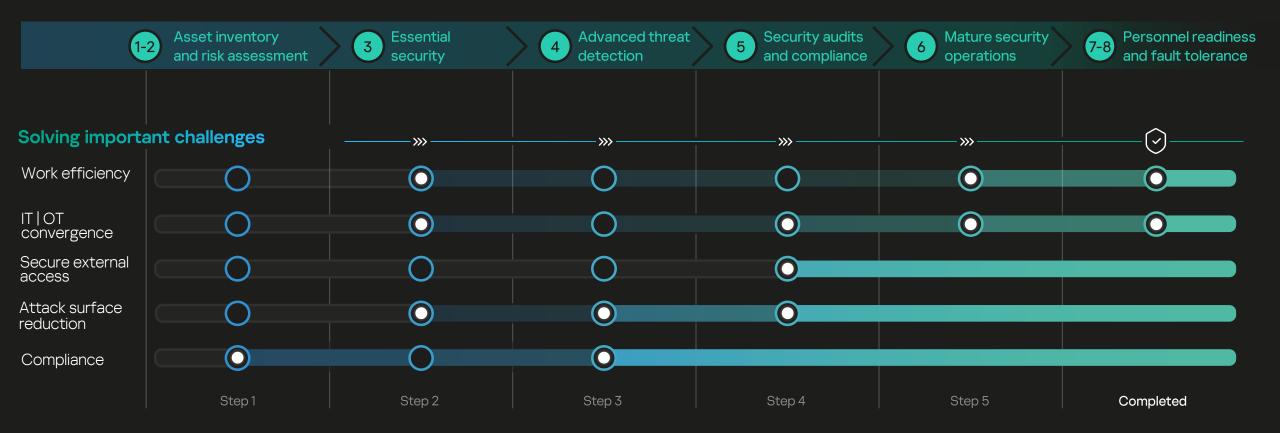
IEC 62443-3-3 SR 7.1; SR 7.4; SR 7.5

GB/T 44462.1 7.3.5 Security management

Article 21: p. 2 (b, c, g) NIS2

NIST SP 800-82r3 3.3.2; 3.3.5; 4.3.5

Steps to secure your industrial enterprise

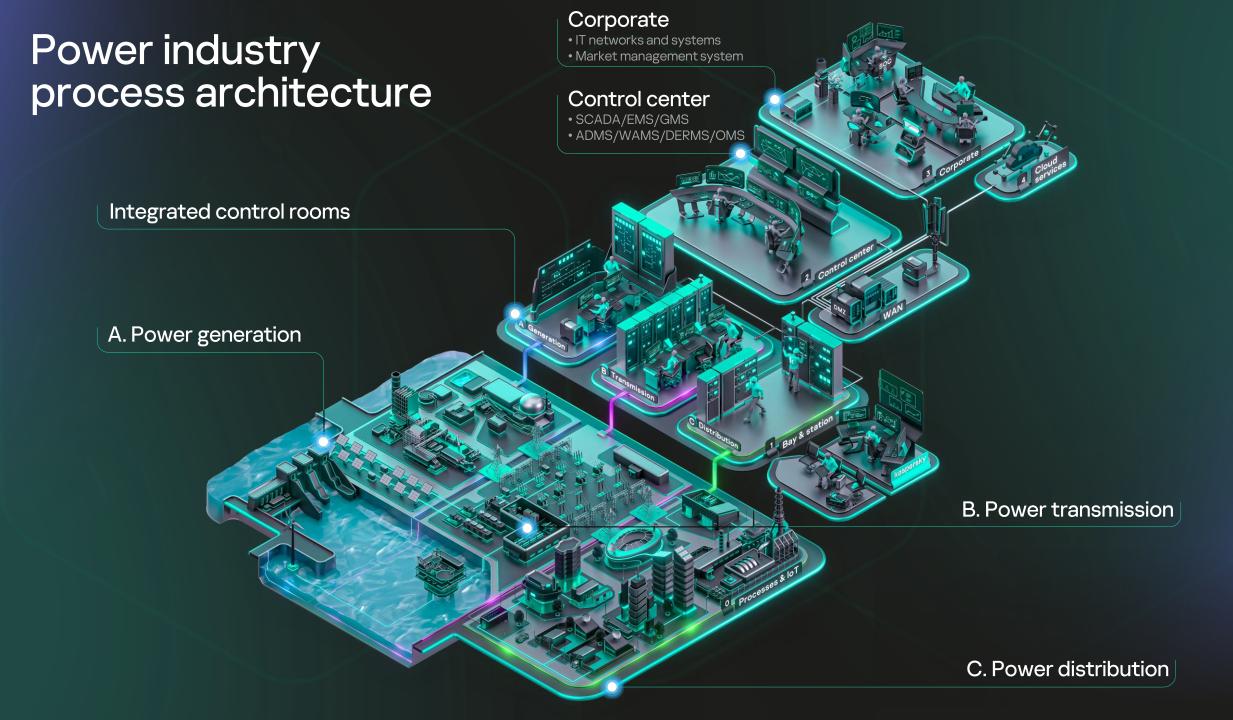


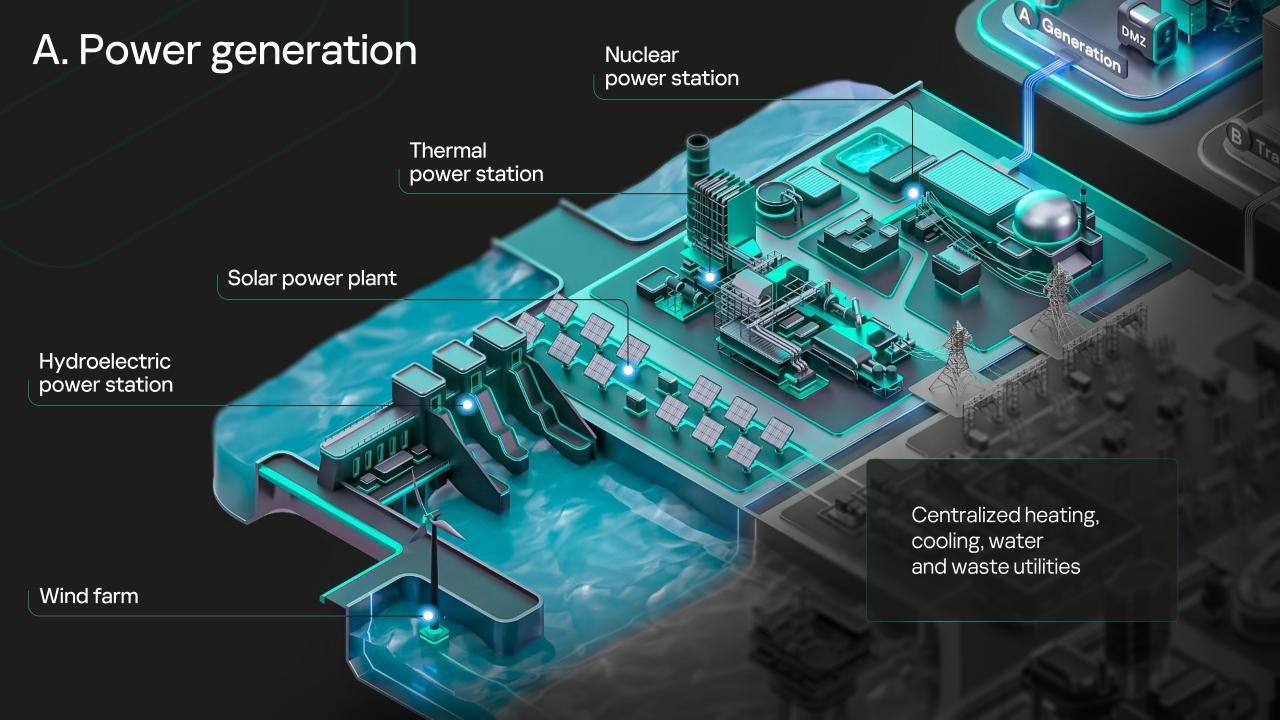
Kaspersky OT CyberSecurity

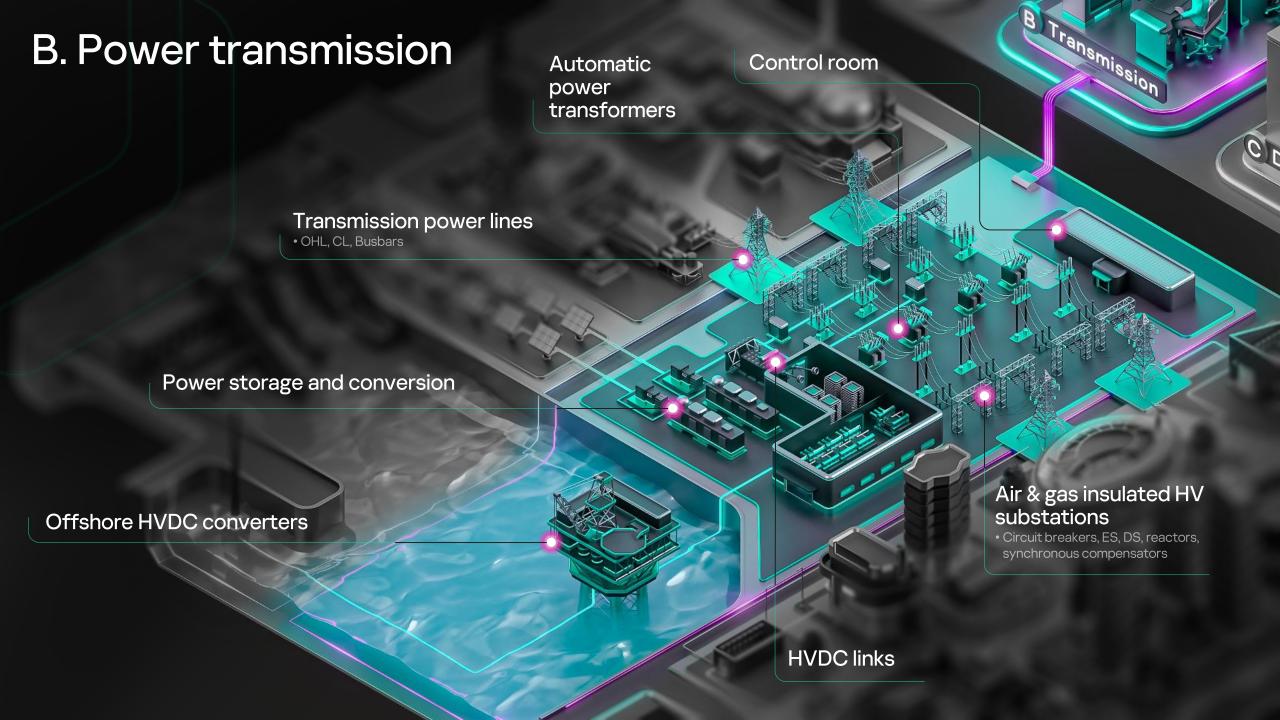
Power generation, transmission and distribution



kaspersky









Power & Utilities case studies



Serbia's largest energy operator

Decisive factors for selection:

- Local partner presence
- Full compatibility with existing IT infrastructure

Implemented KICS for Nodes and KICS for Networks, planning to deploy our KUMA platform SIEM

€500м 34

earmarked for KICS

Learn more



Large power transmission company

More than 150 servers and workstations of the Grid Company Group's process loop are protected using KICS for Nodes, and monitoring of key segments of the technological network is ensured by 10 KICS for Network servers

19 239 MVA 388

Installed capacity

substations

Learn more

PacificLight

Electricity power generator and retailer

- Vulnerability assessment of their industrial networks to identify weaknesses and areas for improved security
- Simulated industry-specific attack vectors to uncover ulnerabilities. malicious activities and anomalies

served

of Singapore's total electricity generation

Learn more

ROSATOM

The #1 nuclear power plant in Russia by installed capacity

Implemented Kaspersky Industrial CyberSecurity to protect the infrastructure at all levels. from SCADA servers and operator workstations to programmable logic controllers (PLCs) and network equipment

4337 MW 7 M

Request case study

Kaspersky OT CyberSecurity

Oil, Gas, chemicals and petrochemicals



kaspersky



Experience in Oil and Gas Operation • SCADA • DCS industry Control drilling automation • discrete control process control Upstream exploratory wells • fracking gas platforms • crude oil storages • industrial wellheads manifolds • subsea production Downstream oil refineries • storage tanks • loading racks • gas processing plants • gas retail

Midstream

• pipelines

rail tank carsfluid compressorsstorage facilities

• LNG and oil tanker ships

- -

Successful case studies from O&G Industry



TOP-5 largest O&G companies in Russia

- ICS protection using Kaspersky Industrial CyberSecurity solution
- Completed special training "Industrial Cybersecurity Awareness" based on real experience in investigating industrial cyber incidents

12 years

working with Kaspersky

Learn more



RN-BashNIPIneft Major upstream R&D center

The centralized information security system is built on the entire ecosystem of Kaspersky products, ensuring strong protection against cyber threats and the optimized workload for cybersecurity personnel.

Learn more



One of the largest oil refineries in the world

Opting for Kaspersky Industrial CyberSecurity (KICS) XDR resulted in:

- Stronger refinery information security
- Rapid detection of, and response to potential threats
- Better cybersecurity and production process monitoring and analytics

Learn more

SIA VARS

The only petrochemical terminal in the Baltic region

Using Kaspersky Industrial CyberSecurity solution to ensure reliable protection of automatic line control systems for the transshipment and storage of chemical products

Learn more

Partner you can trust



28 years of worldclass experience and petabytes of threat-related data



Proven efficacy and compliance with regulations and standards



Awarded leader in IT/OT cybersecurity



Compatibility with 240 automation systems is certified by 70 vendors



Own international ICS CERT – center of ICS and IoT expertise



Customers around the world

























kaspersky

Let's meet at the demo zone!