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CYBERSECURITY FOR CONSTRUCTION SECTOR

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LUXEMBOURG

POPULATION

- Grown by 74% in the last 30 years.
- Grown by 25.7% since 2001.
- Highest population growth in Europe.
- Construction sector has played an essential role

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CYBER RISKS FOR THIS SECTOR

- Loss or deterioration of critical and/or confidential information.
- Data leak.
- Interruption of activities.
- Damage to materials or physical assets..

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IOT AND AUTOMATION

- Heavy machinery (cranes, excavators, trucks, etc.) are increasingly connected through Internet of Things (IoT) systems, which allows remote control.
- Specialized operators and technicians use digital control systems, tablets and software to monitor and control these equipments.
- IoT telemetry and sensor systems collect real-time data and send it to a central platform where operations are monitored.

--> These systems demand protection from unauthorized access, as an attacker who compromises IoT systems or machine control software can disable or manipulate critical equipment, affecting project execution. This can cause damage to equipment or endanger workers if machines operate erratically.

BIM AND PROJECT MANAGEMENT

- Construction designs and plans that directly affect physical works are made through digital platforms.
- Engineers, architects and project managers collaborate in real time using BIM software.
- BIM software and project management systems allow the creation of 3D simulations and the management of all aspects of a project, from design to logistics.

---> A cyber attack can compromise the accuracy of construction plans, which could result in design errors, delays and financial losses.

HR MANAGEMENT AND WORKPLACE

- Security cameras, access systems, and ID cards control the entry and exit of personnel at construction sites.
- Workers and administrative staff use biometric identification systems or electronic cards to access restricted areas.
- Access control systems and personnel management software digitalize personnel operations.
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- --> An attack targeting human resource management systems can:
- Compromise identification systems and allow unauthorized access to restricted areas.
- Lead to the theft of employees's data, such as financial or identification information.

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NEED HELP WITH ALL OF THIS?

Contact us

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