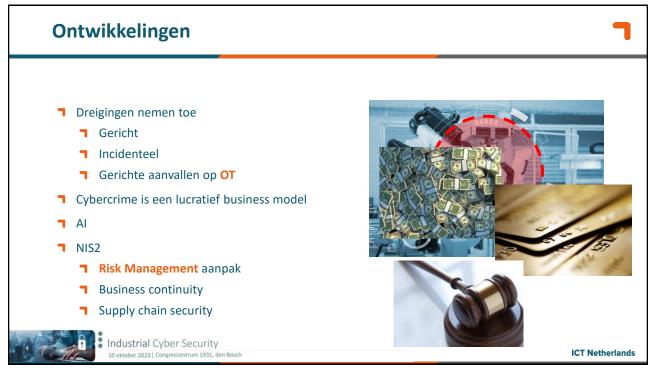


Agenda Ontwikkelingen en gevolgen Starten met OT cyber security Aanpak Life Cycle Management Cyber security binnen Life Cycle Management Vervolgen van het cyber security Life Cycle proces Samenvatting Industrial Cyber Security 10 oktober 2023 I Congrescentrum 1931, den Bosch

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Basisstappen Cyber Security volgens de IEC 62443



Basisstappen Industrieel Platform Cyber Security

- Asset Register
- 2. Datastromen
- 3. Risico Inventarisatie
- 4. Back-up management
- 5. Patch management
- 6. Netwerksegmentering, zones en conduits
- 7. Monitoren van netwerkverkeer





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Stappenplan Life Cycle Management Stappenplan Life Cycle Management Inventariseren huidige status Richten waar je naar toe wilt Inrichten door opstellen Life Cycle Plan Verrichten door uitvoeren Life Cycle Plan Industrial Cyber Security Journal of Check Industrial Cyber Security Journal of Congrescentrum 1931, den Booch

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LCM Stap 1: Inventariseren huidige status

- Uitvoeren van een Life Cycle Scan
 - Asset register
 - Datastromen
- Asset status
 - Patch level
 - Configuratie
 - Kwetsbaarheden





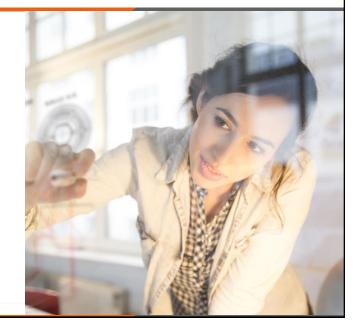
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LCM Stap 1: Inventariseren huidige status - Praktisch

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- Assessment van actueel ontwerp
- Maak gebruik van Network Security
 Monitoring
 - Netwerk gekoppelde assets
 - Datastromen
- Fysieke inventarisatie
 - Laatste "gaten" dichten





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LCM Stap 2: Richten waar je naar toe wilt



- Wat zijn de risico's
 - Investering proportioneel aan het risico
- **¬** Zijn er nieuwe **ontwikkelingen**
 - Dreigingen
 - Kwetsbaarheden
 - **■** Wet- en Regelgeving NIS2.0
 - Technologie
- Fase van de Life Cycle OT apparatuur
 - Onderhoudbaarheid
 - Staan er renovaties of vervangingen gepland



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LCM Stap 2: Richten waar je naar toe wilt - Praktisch



- Wat zijn de risico's
 - High-level risk assessment
 - **■** Bepalen van initieel Security Level Target
- Dreigingen en kwetsbaarheden
 - Vulnerability assessment
 - Marktonderzoek
- Fase van de Life Cycle OT apparatuur
 - Asset register als basis
 - Verificatie met leveranciers





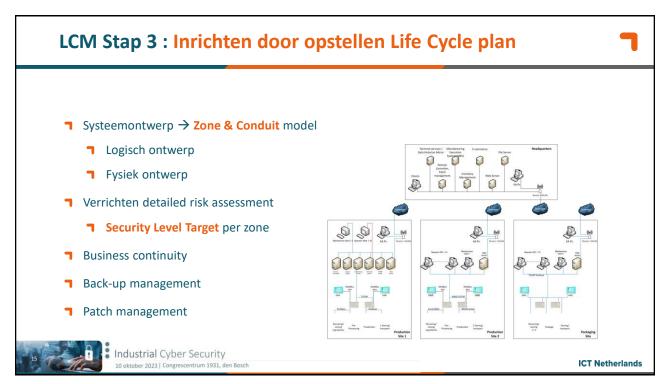


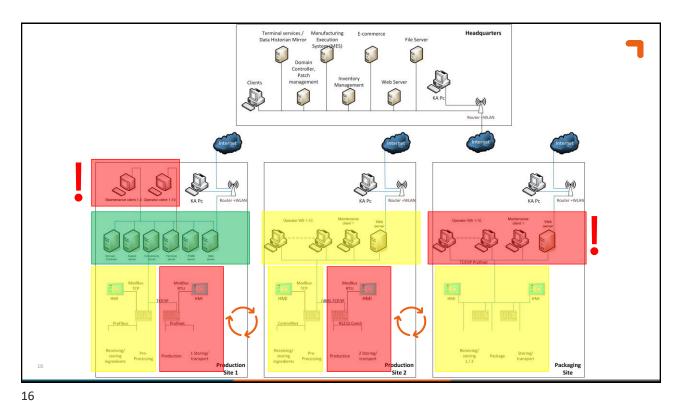
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Life Cycle Proces Cyber Security

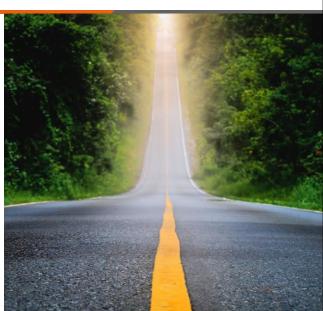


- Up-to-date houden asset status
 - Inclusief back-ups
- Monitoren OT netwerk
 - Dreigingen
 - Kwetsbaarheden
 - **¬** Risico's
- Managen
 - Patches
 - Veranderingen/uitbreidingen
 - Leveranciersketen
 - Disaster recovery planning



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Life Cycle Proces – Risico management



- **¬** Periodiek uitvoeren van risk assessments op niet-gemitigeerde Zones
 - Restrisico vs acceptabel risico
 - Investering plannen of bespoedigen
- Periodieke controle
 - Dreigingen
 - Verandering wet- en regelgeving
 - Organisatie
 - Technische veranderingen
- Periodiek herhalen van High-level risk assessment



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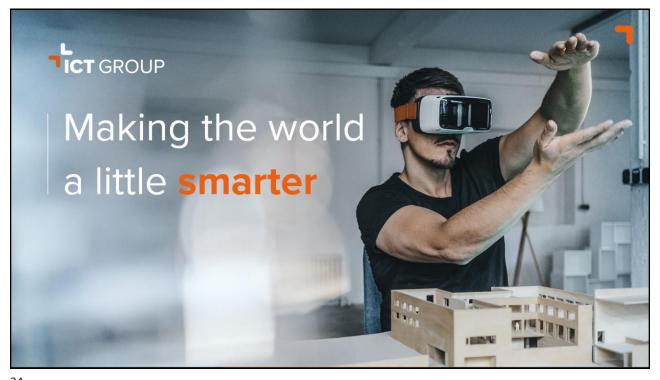
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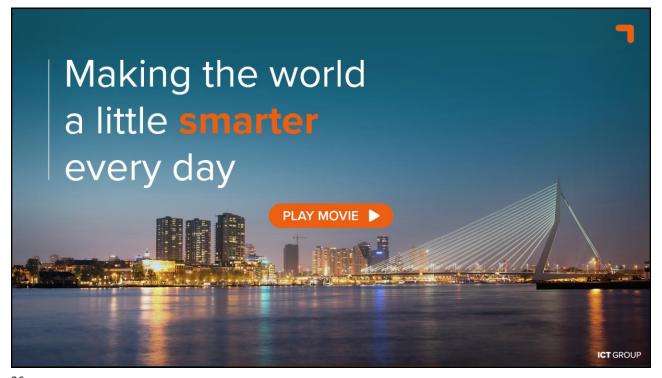






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Our divisions

Our specialist knowledge in a variety of industries enables us to realise innovative solutions by connecting people, technologies and ideas. As a leading industrial technology solutions provider, ICT Group has a wide range of expertise and experience in four focus areas: R&D Engineering, Industrial Automation, Infra & Mobility and Healthcare.









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Industrial Automation Solutions

ICT Group contributes to the creation of intelligent manufacturing technology solutions, supporting the digital transformation and ongoing industrial robotisation. This allows for a more efficient use of natural resources, resulting in a reduction in waste and an increase in the sustainable and economic use of natural resources. We specialize in the following markets:

- Food, Chemicals & Pharma
- Logistics
- Managed Services
- Data Intelligence
- Oil & Gas
- Heavy Lifting



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ICT Group is an important contributor to the development of smarter cities. Improving the quality and performance of urban services is a necessity because of ongoing urbanisation and goes hand in hand with reducing resources and costs. ICT's solutions enable cities to deal with the complexity of population growth. Cities face increasing challenges in the field of water, energy, mobility, waste and the environment. We specialize in the following markets:

- Water & Road Infra
- Energy
- **¬** Rail
- Urban Mobility
- Life Cycle Management



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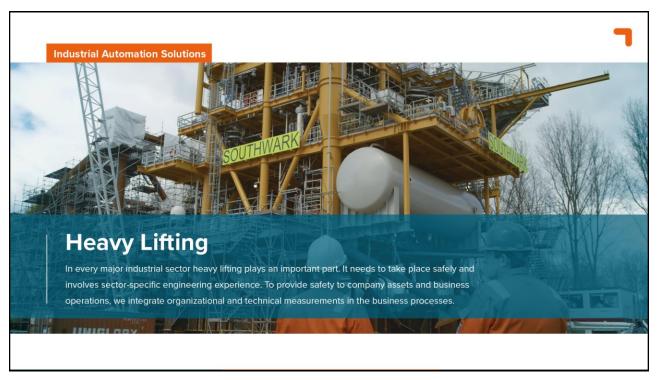


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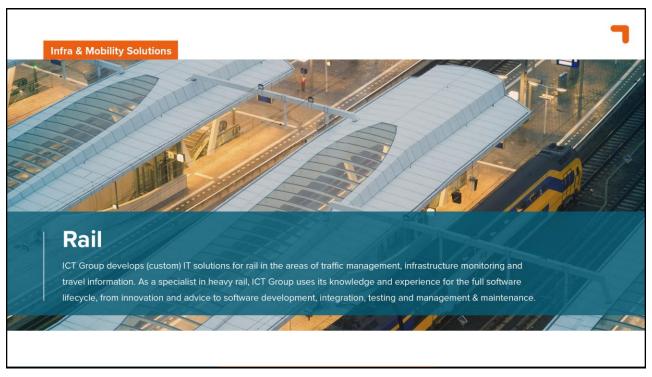


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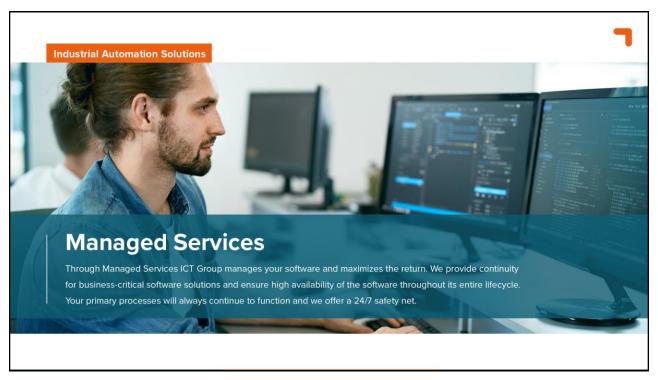


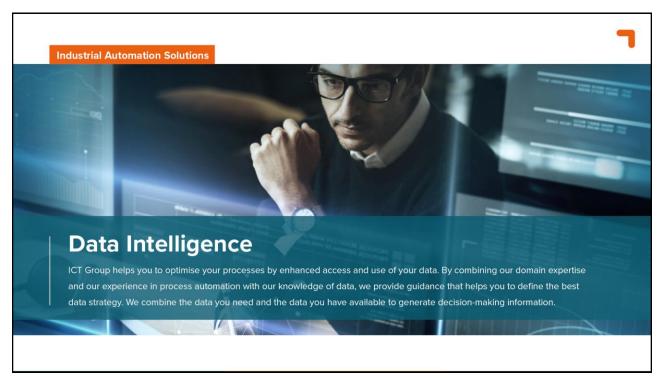
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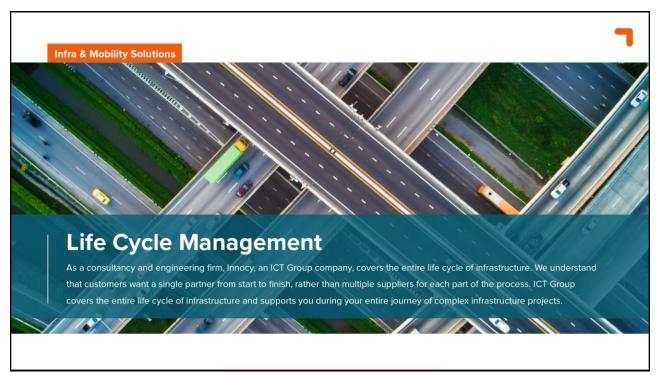


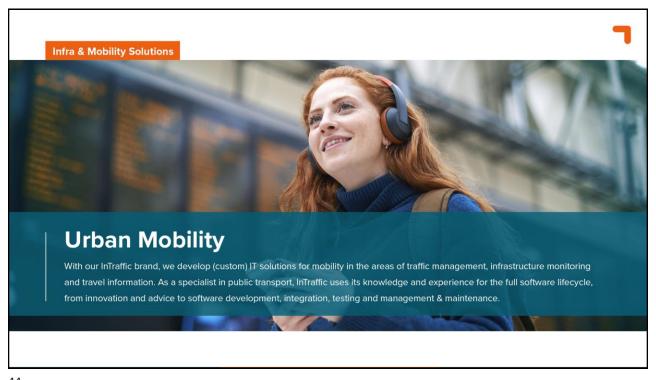
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