



Siemens Nederland N.V.

Technology with purpose

Freek Marks (Head of Technology Digital Industries)

Radjen Sewmangal (Head Future of Automation Digital Industries)

Siemens innovations

Milestones in a 175-year history

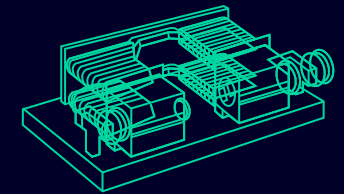
1816 – 1892

Company founder,
visionary and inventor



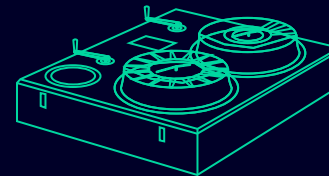
1866

The dynamo makes
electricity part of
everyday life



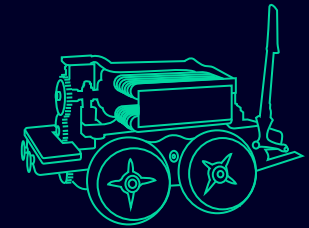
1847

Pointer telegraph lays the
foundation of Siemens as a
global company



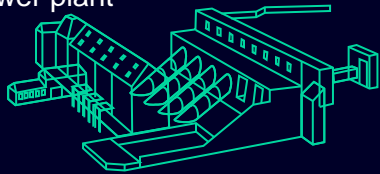
1879

World's first
electric railway



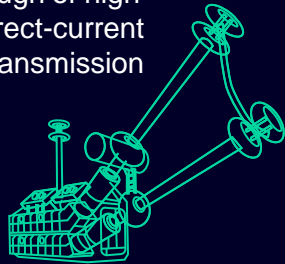
1925

Siemens electrifies the Irish Free State with a hydroelectric power plant



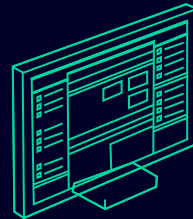
1975

Breakthrough of high-voltage direct-current (HVDC) transmission



2010

TIA Portal takes automation a stage further



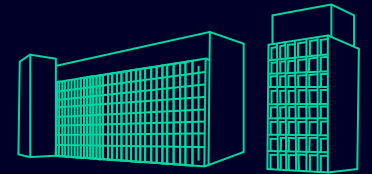
2016

MindSphere, the cloud-based IoT operating system



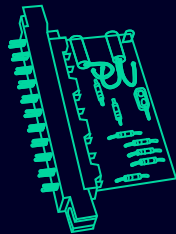
2019

Launch of first project for Siemensstadt 2.0



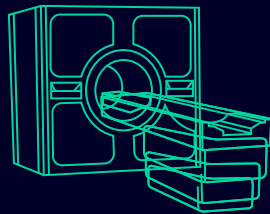
1959

SIMATIC revolutionizes automation



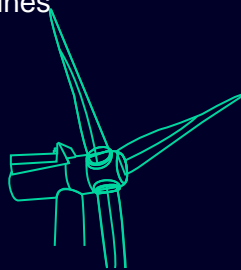
1983

First magnetic resonance imaging scanner



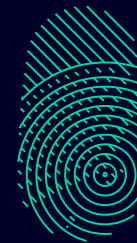
2012

Test operation of the world's largest rotor for offshore wind turbines



2018

Charter of Trust: a joint initiative for a secure digital world

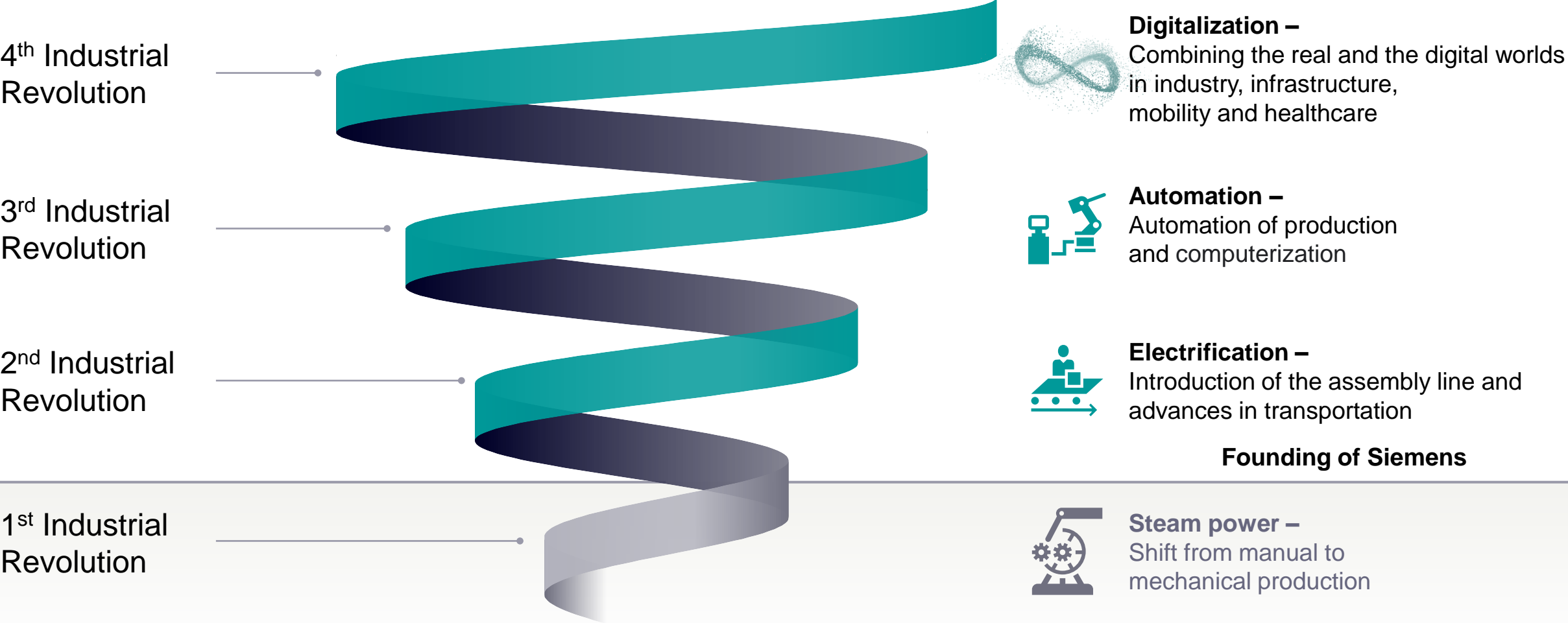


2020

Comfy workplace app makes it safe to return to the office during the coronavirus pandemic

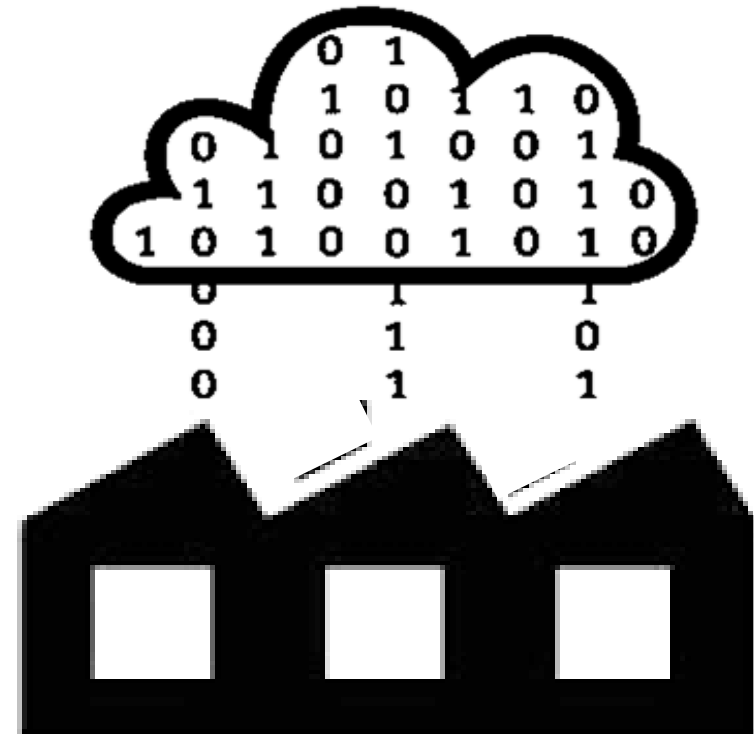


Siemens has been shaping industrial revolutions ever since its founding



Future of Industry – Industry 4.0

From today to tomorrow



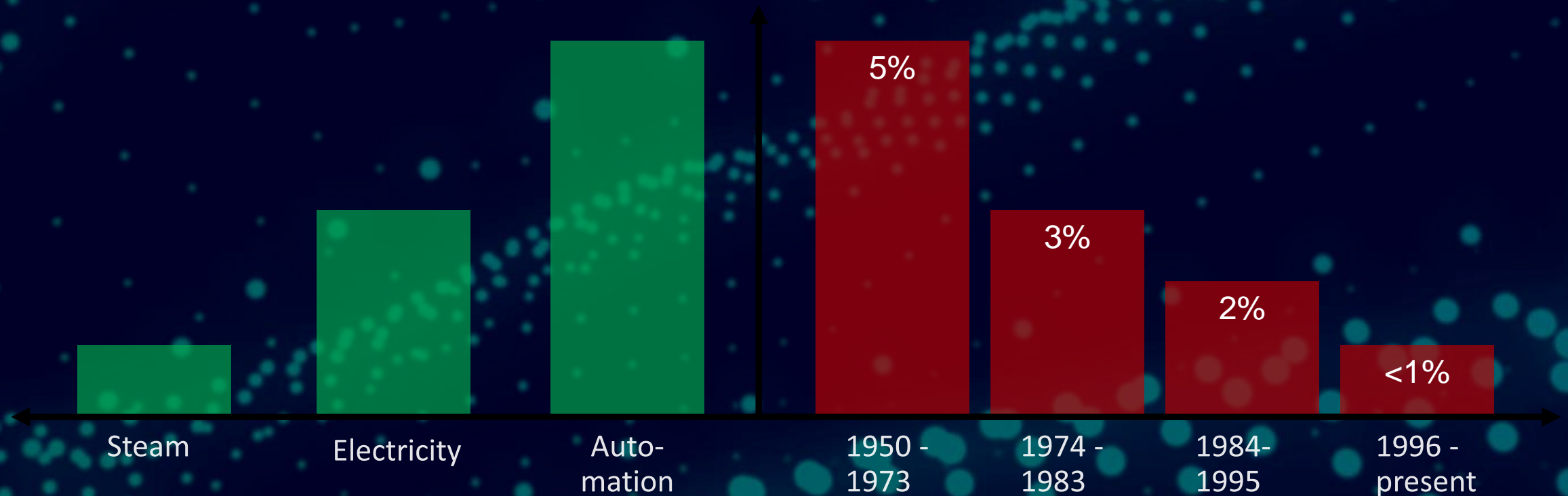


After the “internet of the people,”
the next decade will be all about
connecting machines and
industries.

Dr. Roland Busch,
President and CEO of Siemens AG

The Digital Transformation – Industrie 4.0 Why?

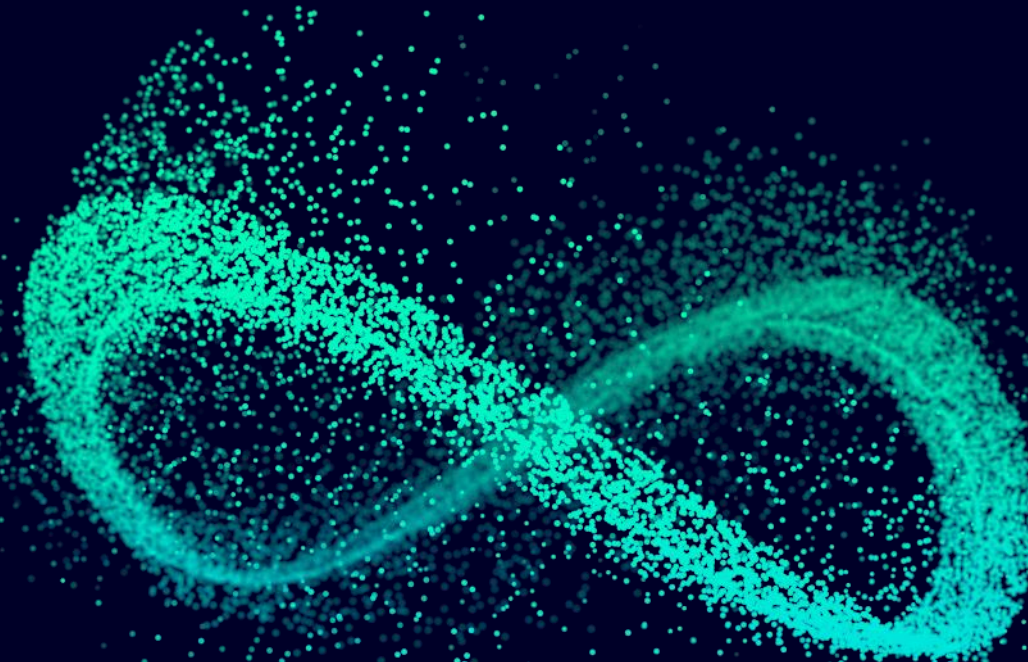
Productivity Growth Across Major European Countries



By combining the real and the digital worlds, Siemens empowers its customers to master their digital transformation and sustainability challenges

**Real
world**

**Digital
world**



The Future of Automation - Towards The Digital Enterprise

With Cutting Edge Technologies as enabler

Automation pyramid yesterday

Management level

ERP

PLM

MES

Field and control level

SCADA

PLC, DCS

Sensors & actuators

Monolithic Pyramid

Automation pyramid today

IT

3rd Party

Security

Big Data

Machine Learning

ERP

PLM

MES

OT

OPC UA

The two worlds of IT and OT



- Low-Code platform**
Build apps faster for cloud, on-premise or hybrid infrastructure
- IIoT as a Service**
Centralized compute & storage, with solutions, apps & services
- Edge Computing**
Decentral compute & storage with device runtime, apps & management
- Field/Control**
Runtime, automation engineering & connectivity

End2End SOA



ALLEEN GA JE SNELLER, SAMEN KOM JE VERDER



Siemens Xcelerator



Whitepaper:
**Operational Technology in cybersecurity wet- en
regelgeving**

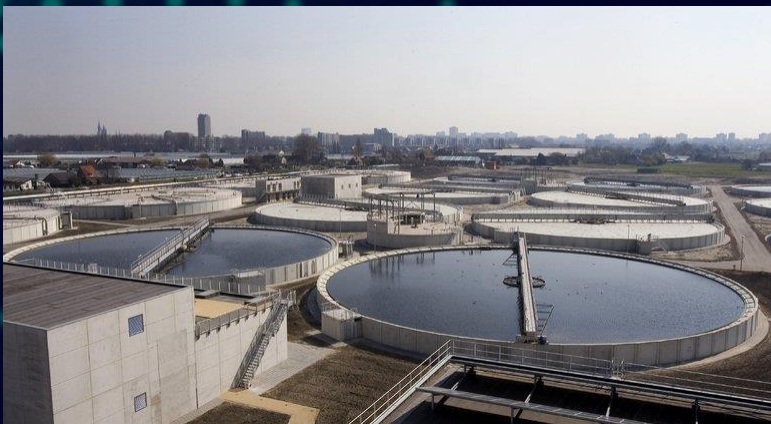
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Cybersecurity voorwaardelijk



Drinkwatervoorzieningen



Bruggen en Sluizen



Tunnels



Ziekenhuizen



Chemische plants



Vervoersystemen



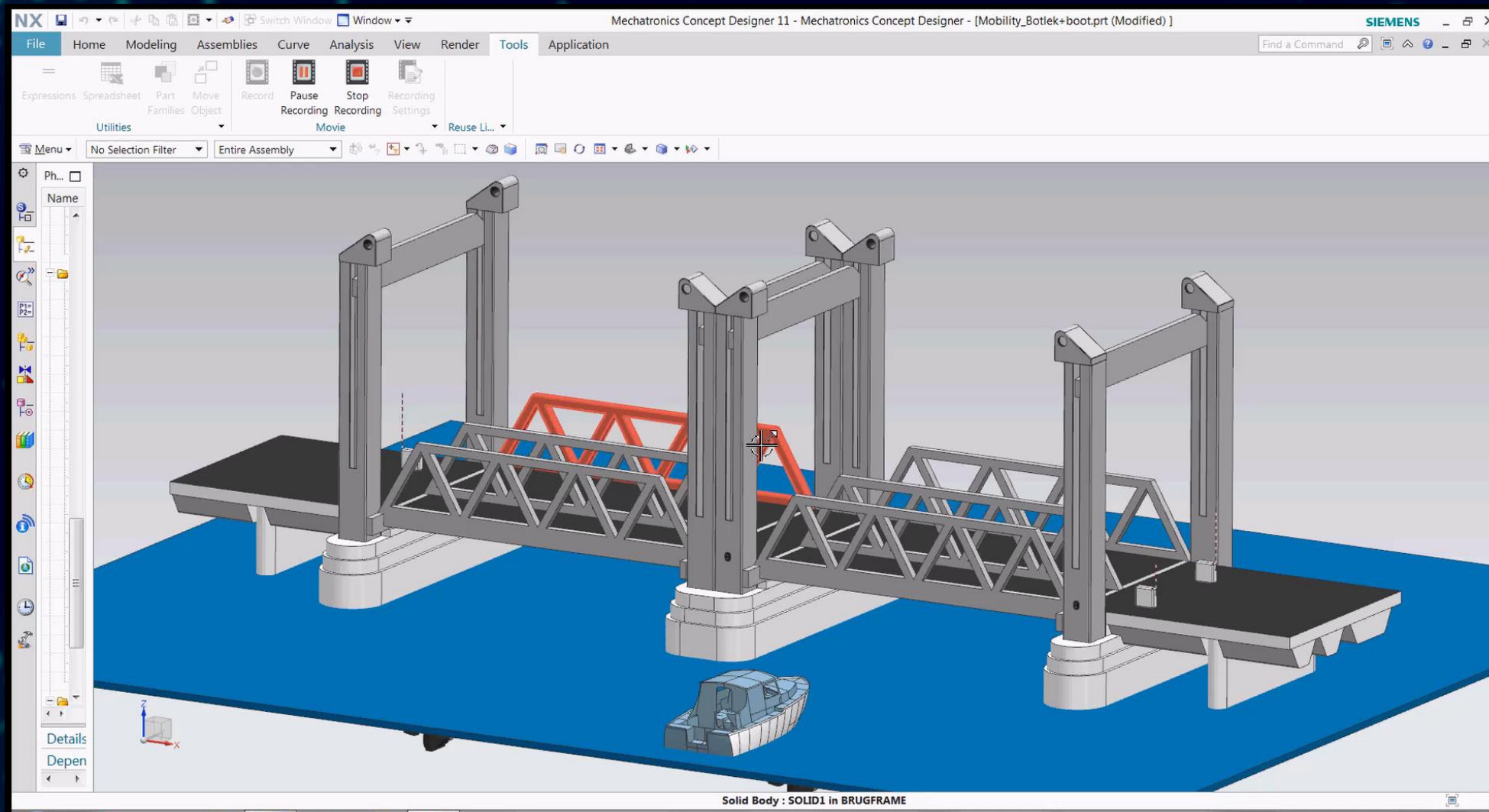
Energie centrales

Use case cybersecurity



1-op-1 model van de brug

Video – Demonstratie Virtueel (MCD)





| Thank you for your attention