

AI in E.ON

GI SECMGT Künstliche Intelligenz in der Informationssicherheit

17. Mai 2024

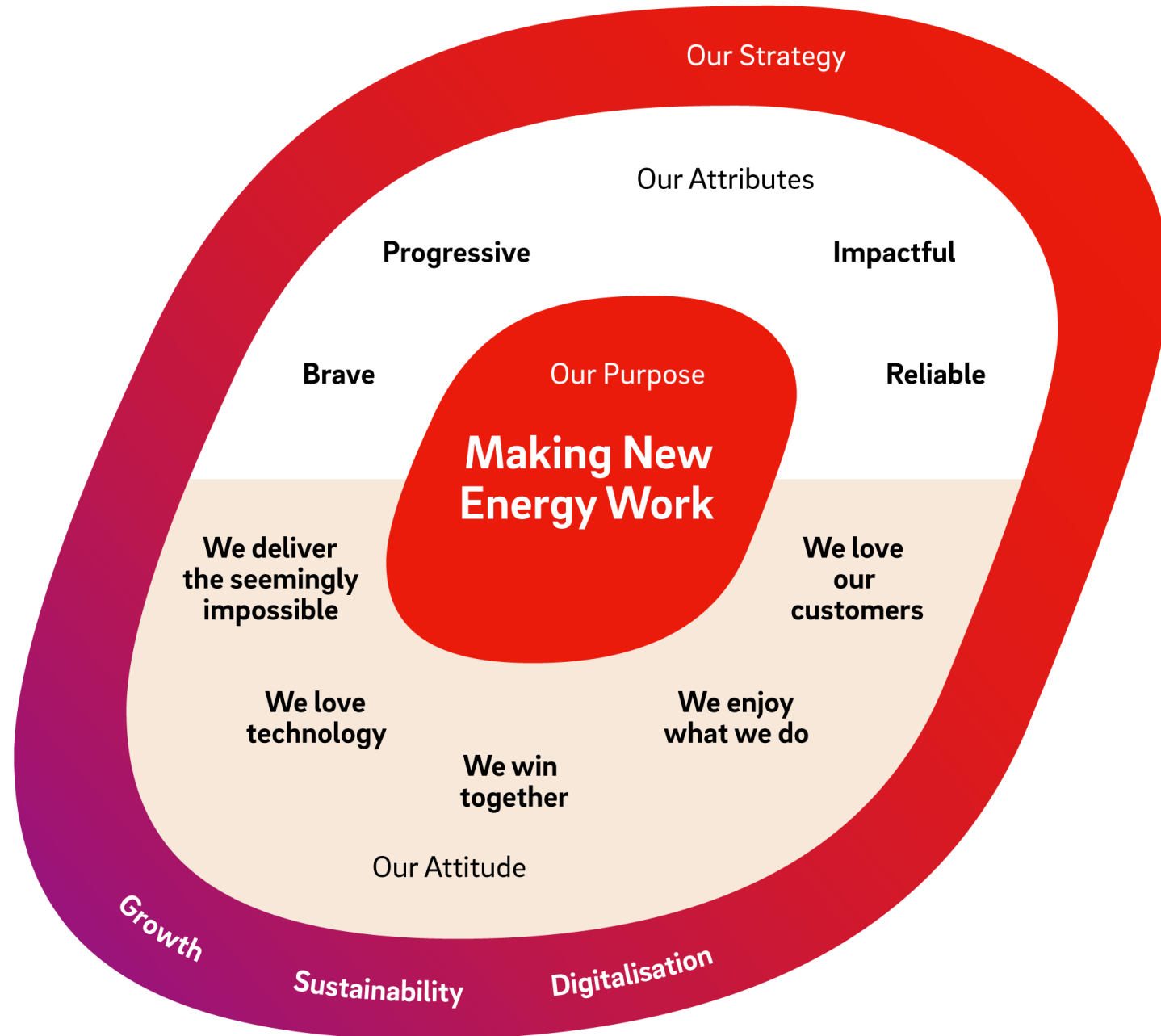
Goethe-Universität Frankfurt am Main

17/05/2024

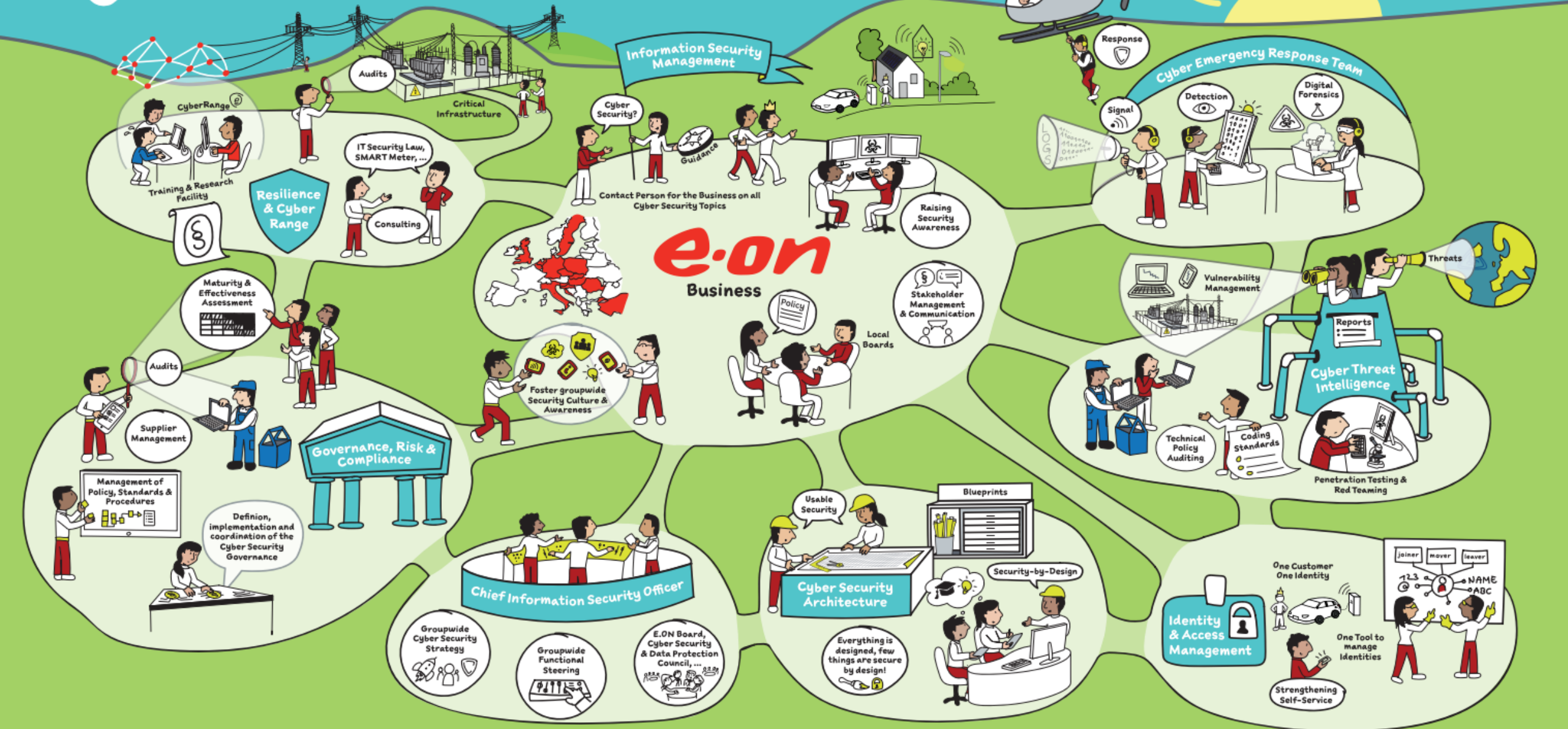
We are the playmakers.



Playmaker.



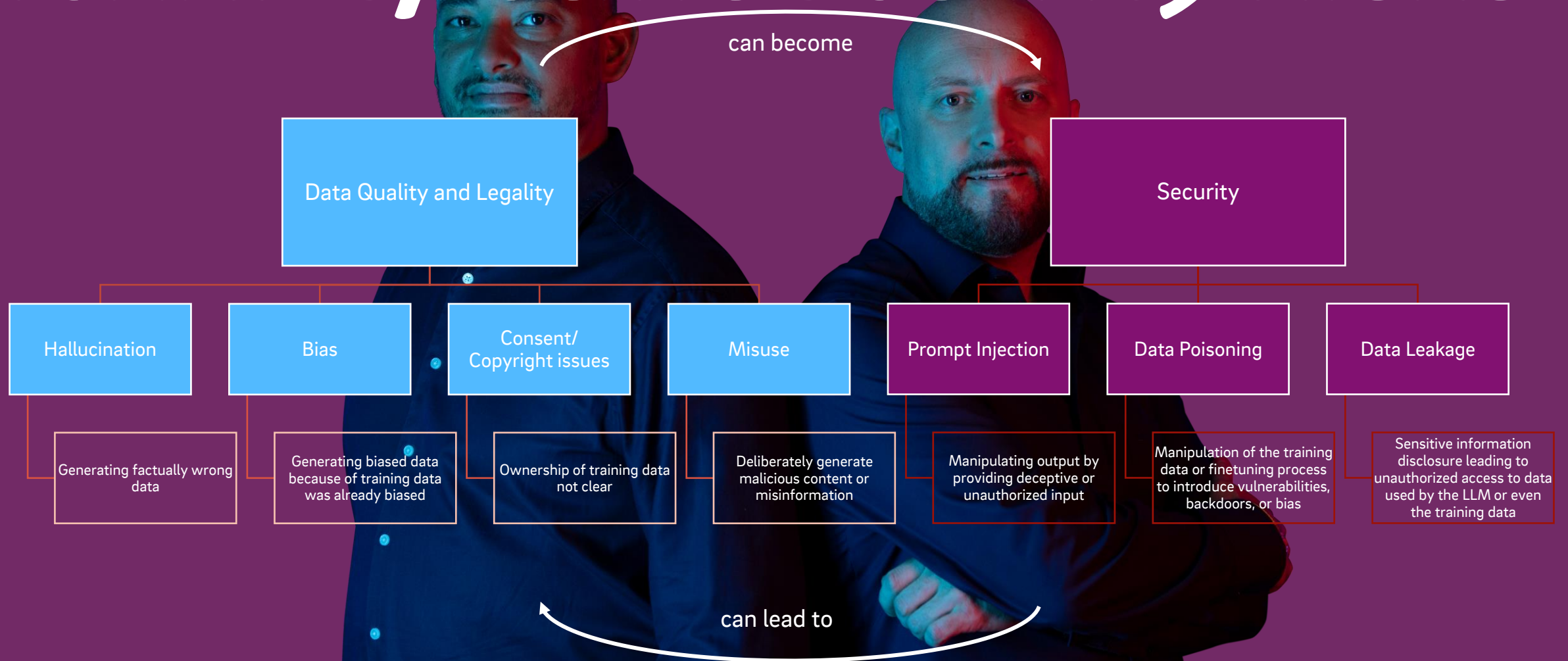
Cyber Security



AI in E.ON



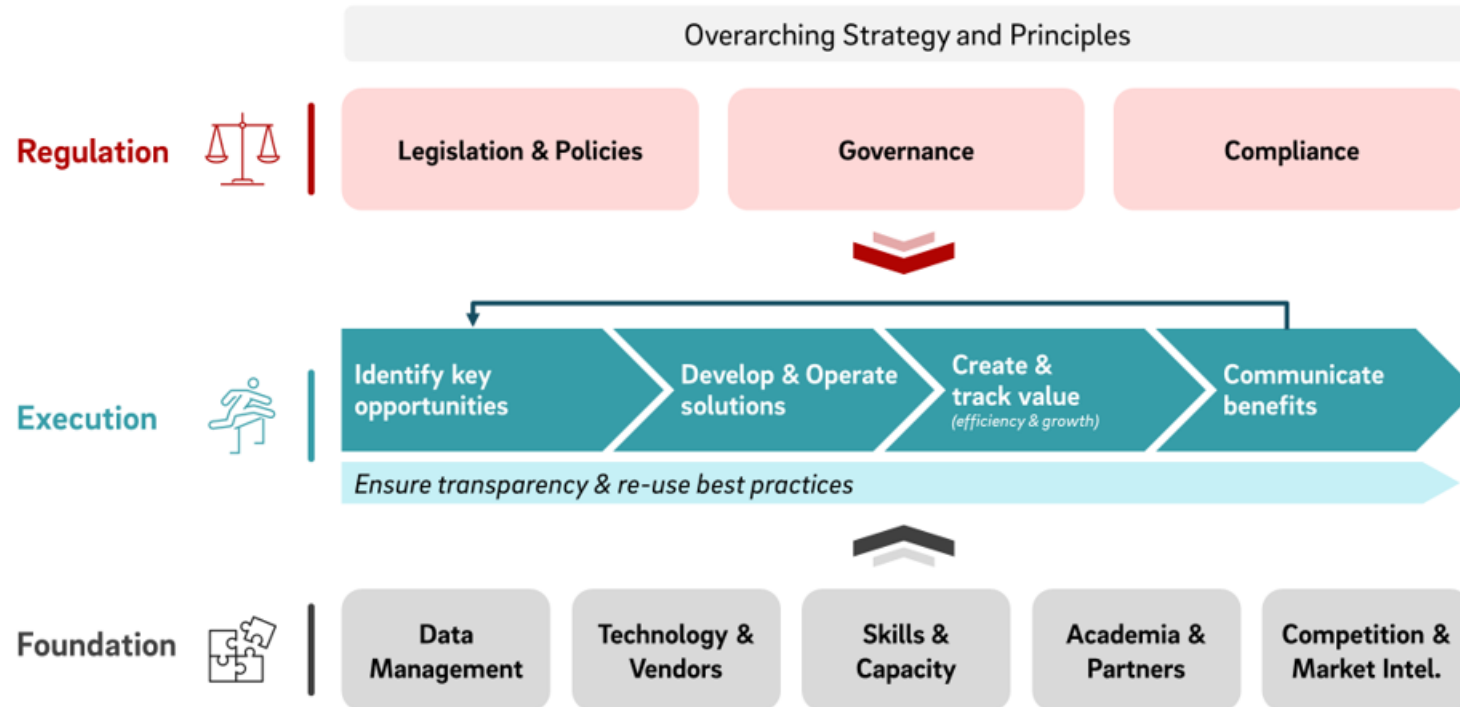
Building Awareness for GenAI-Specific Security Risks



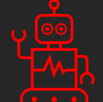
We will jointly drive security and compliance as part of the AI governance group



Strategic areas of attention structured into three layers



AI in Energy Retail

1. Segment	2. Segment	3. Segment	4. Segment
 NLCX	 ServiceProphet: Call-center planning	 AI @ EDM (Smart Meter predictions)	 Data-driven PR
 Cross selling scores	 Offer return process		 Use Cases w/ E.ON GPT Plattform
 eon.de AI Search	 E-Mail processing time		 Co-Pilot in Code Development
 B2SME	 VoiceBot		 SISSI
	 ChatBot		 AI Workstation

 Use Case with GenAI focus

The biggest challenge the Energy World has ever seen

Transmission System

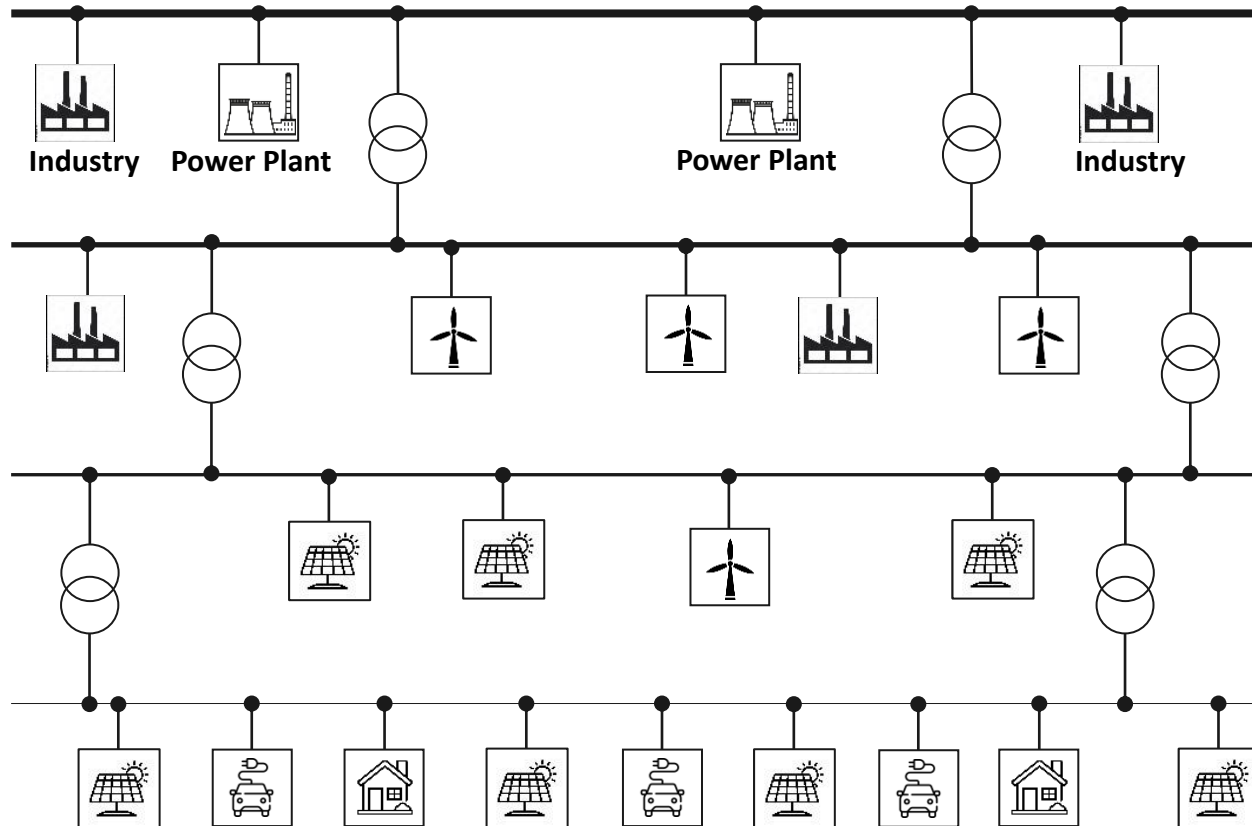
Highest Voltage

Distribution System

High Voltage

Medium Voltage

Low Voltage



Powerflow

Digital



AI in Energy Networks



market dynamics &
demand forecasting

Since energy markets are highly volatile and experience rapid changes in supply, demand and prices, predictive analytics helps in forecasting demand patterns, enabling energy providers to adjust production, distribution and pricing strategies accordingly. Accurate demand forecasting also assists in **ensuring energy efficiency and reducing waste.**



renewable energy
integration

Commitment to sustainability and the increasing adoption of renewable energy sources, intermittent in nature, is another big challenge that energy companies must address. There, leveraging data analytics and AI to forecast renewable energy generation allows for **better integration of green energy into the grid** and improves overall grid stability



operational efficiency
& asset management

Since energy assets (power plants, renewable installations, etc.) represent significant investments, optimising their use is crucial. Predictive analytics helps to anticipate equipment failures before they occur, allowing for preventive maintenance to **minimise downtime and costly repairs.** Foresight also assists in optimising the operational parameters of assets, such as turbine speeds, transmission line loads and storage capacities.

AI in Cyber Security



Questions?

Thank you!

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Many Thanks to Julian Dube & Boris Beuster