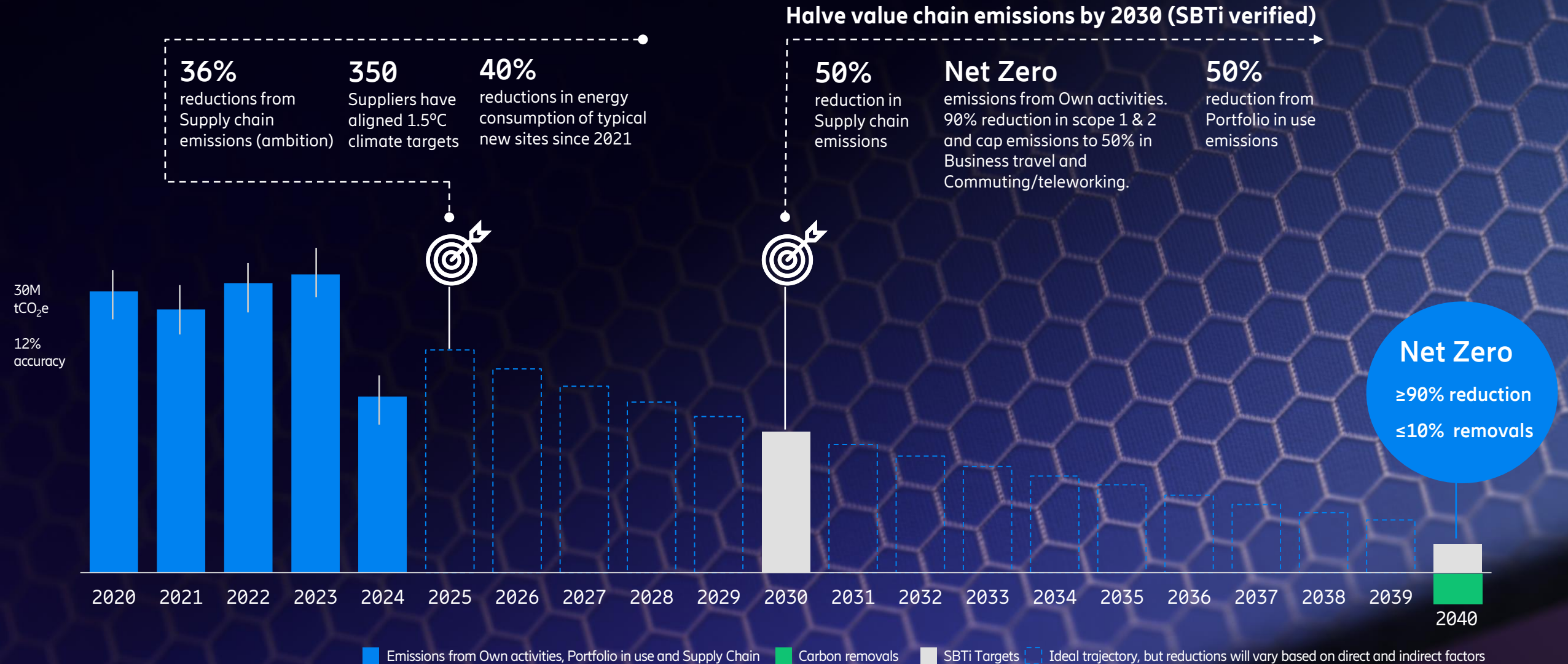


# Ericsson environmental sustainability journey

Ana Maria Galindo, Embodied emissions and circularity  
director at Ericsson



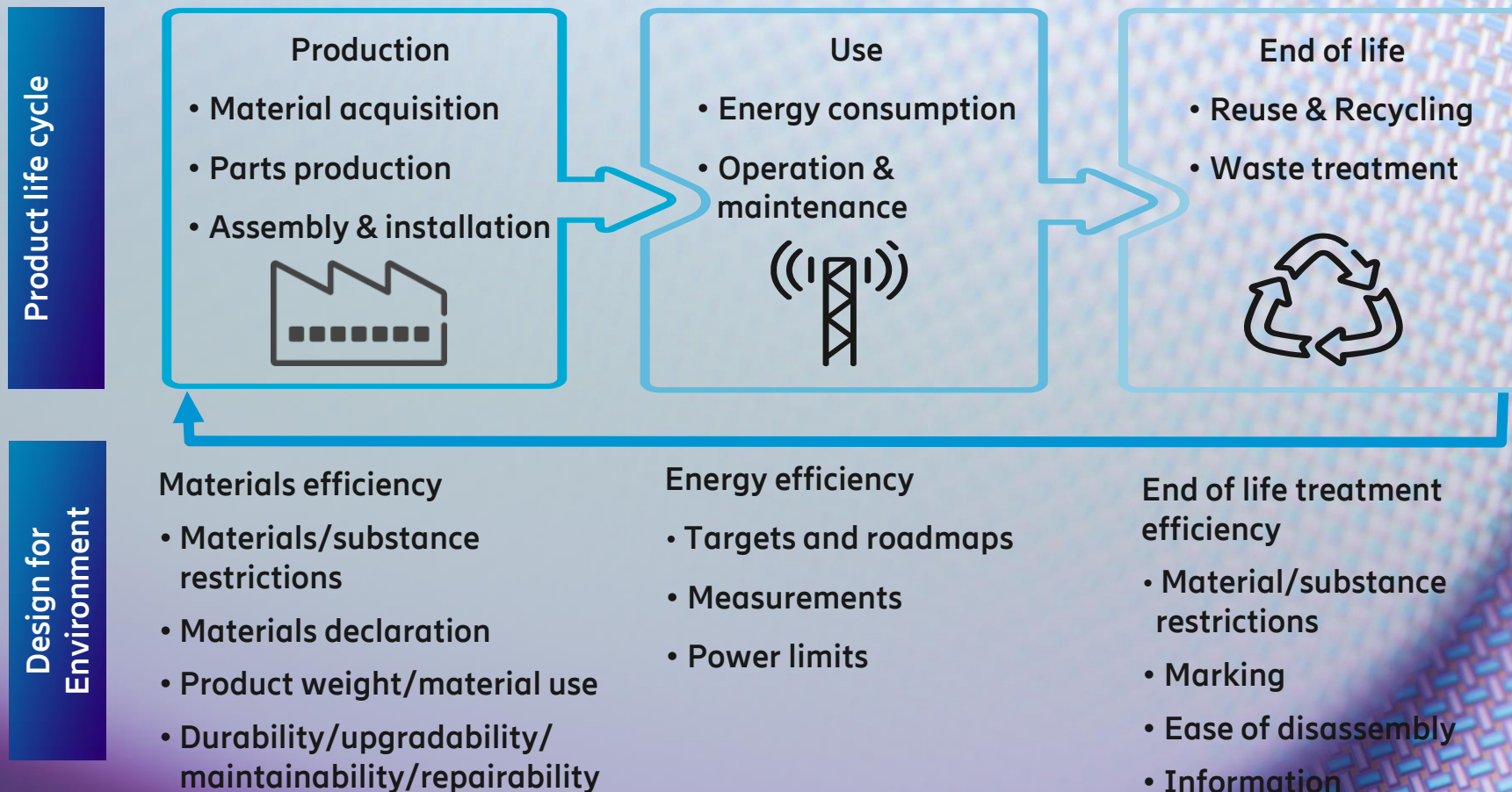
# Ericsson's 1.5°C pathway to Net Zero



Halving value chain emissions by 2030 and reaching Net Zero by 2040 is SBTi verified.

# Ericsson Sustainable design strategy

All products fulfill these generic requirements: fulfilling the wanted functionality, quality and performance with minimized negative environmental impact during the product life cycle





# Industry-leading radio portfolio for open and programmable networks

Open RAN prepared



**130**

Open RAN prepared radios to choose from by the end of 2025

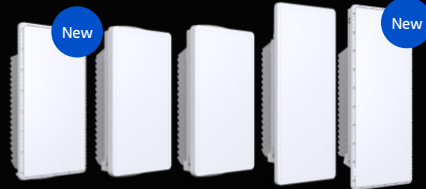
**>67%**

of all 2025 deliveries will be Open RAN prepared

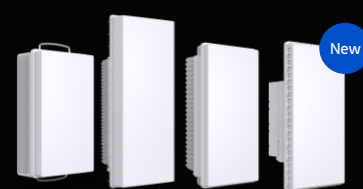
Ultra-light TDD



Wide-band TDD



Multi-band TDD/FDD



Indoor



Single-band FDD



Dual-band FDD



Triple-band FDD



Single and wide-band TDD



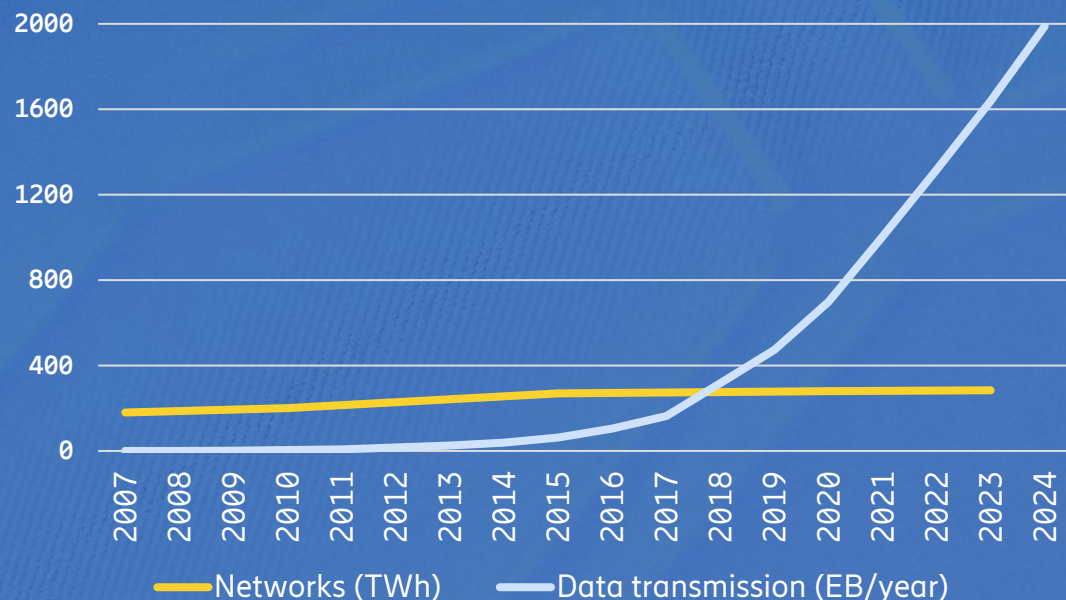
# The importance of modelling

## Estimation & forecasting



# Data & electricity – any correlations?

Mobile networks (global) until 2024



Data traffic increased exponentially



Slow growth of electricity consumption



Only 5% of the electricity in mobile networks used for transmission



Main reasons for energy increase in networks are deployment of equipment for new generations (e.g. 4G, 5G) & increased service needs and densification

Future data transmission estimates cannot be used to forecasts on electricity use



# Building reliable models for future estimates

## Bottom-up approach (Power Model)



Assessment of all equipment in a network or data center



Estimate average power consumption & utilization



Technological progress resulting in energy efficiencies

## Top-down approach (reality check)



What is reported from Network & Data Center operators?



What is reported in public electricity production & consumption statistics?

## Adjust the model?



Are results credible or adjustments needed?

Verifying models against reality is essential to ensure reliability and accuracy of results



**ERICSSON**