



**Net-zero**  
by 2040

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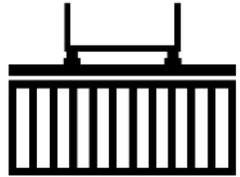
**Vice Chair Operations Council TIC4.0**

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Join the  community

## Container Terminals in 8 Locations



Handling capacity:  
> 13.5 mio TEUs

Utilizing the following equipment & infrastructure in Northern Germany



> 60



> 400



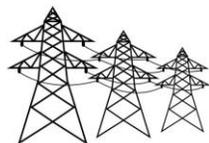
> 360



787 ha



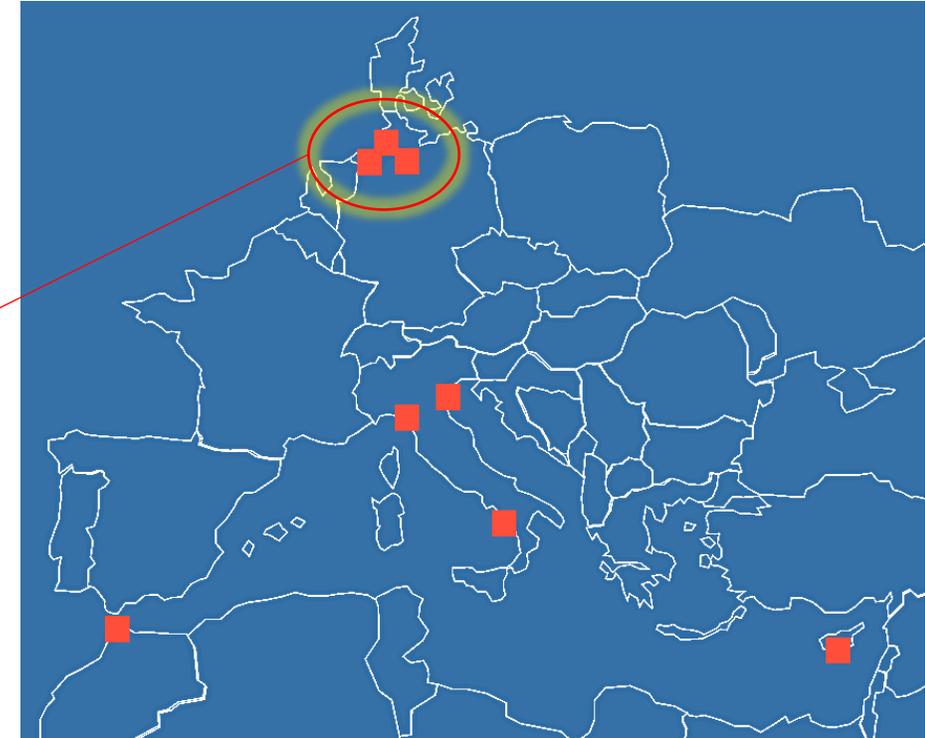
76.000.000 kWh



11,7 km



74 Buildings  
+ 59 additional civil structures



# Net-zero<sup>1</sup> by 2040 – Greenhouse Gas Emissions

## Important Initiatives

We will focus on following **key initiatives in 2024 and 2025**:

- › **Energy Management System (ISO50001)**: Implementing a robust system to optimize energy consumption in our processes, our equipment and across our facilities.
- › **Evaluation of wind turbines**: Exploring investments in wind turbines to harness renewable energy for our operations.
- › **Prototype Testing for Green Straddle Carrier**: Testing technologies to find sustainable alternatives to diesel for our straddle carrier fleet. Considered alternatives are dual fuel biogas & diesel and HVO
- › **Automation of Terminals**: Developing a roadmap on Automation.

We are participating in the following initiatives to foster innovation:

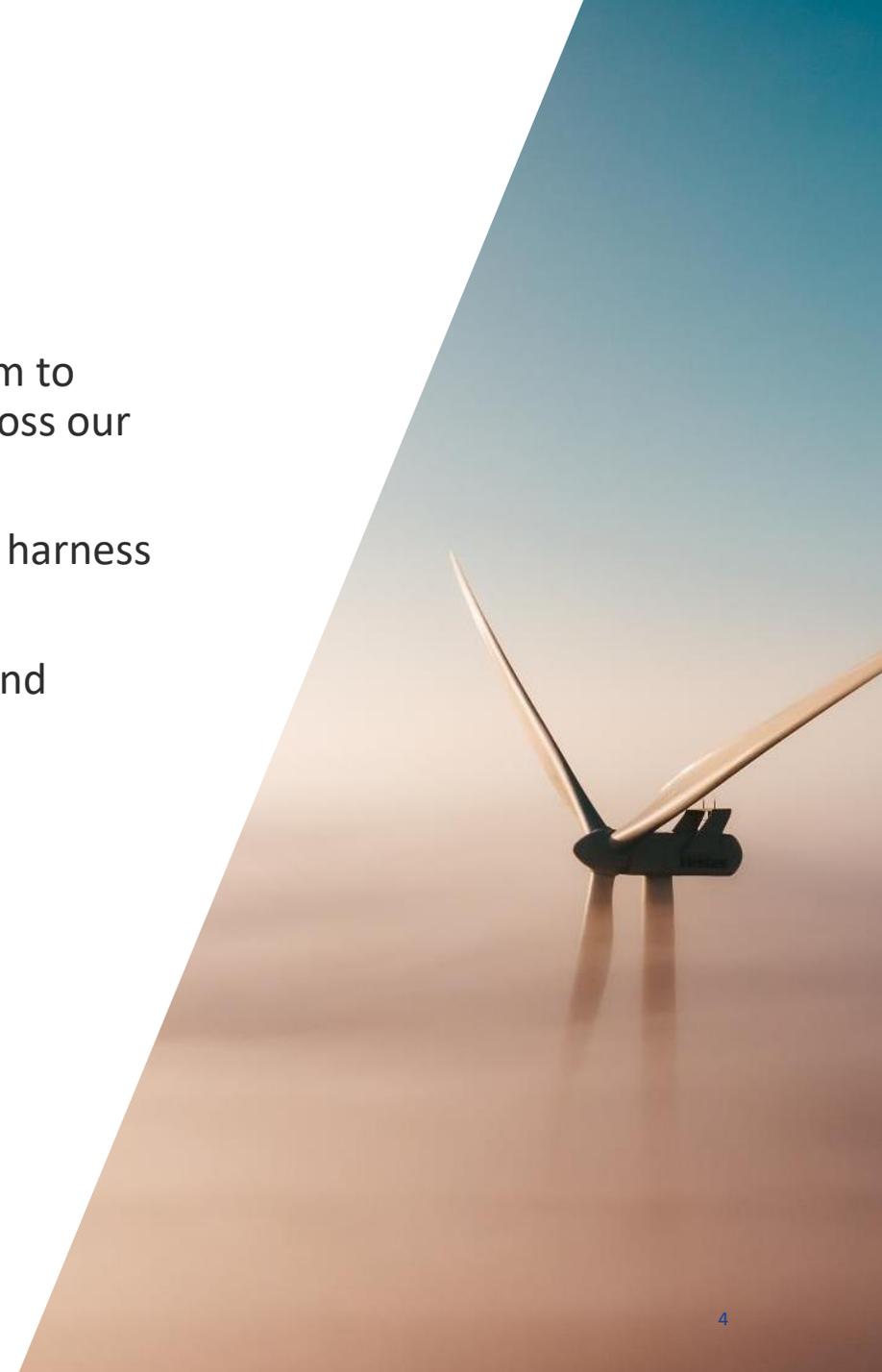


International cluster for decarbonizing heavy duty logistics



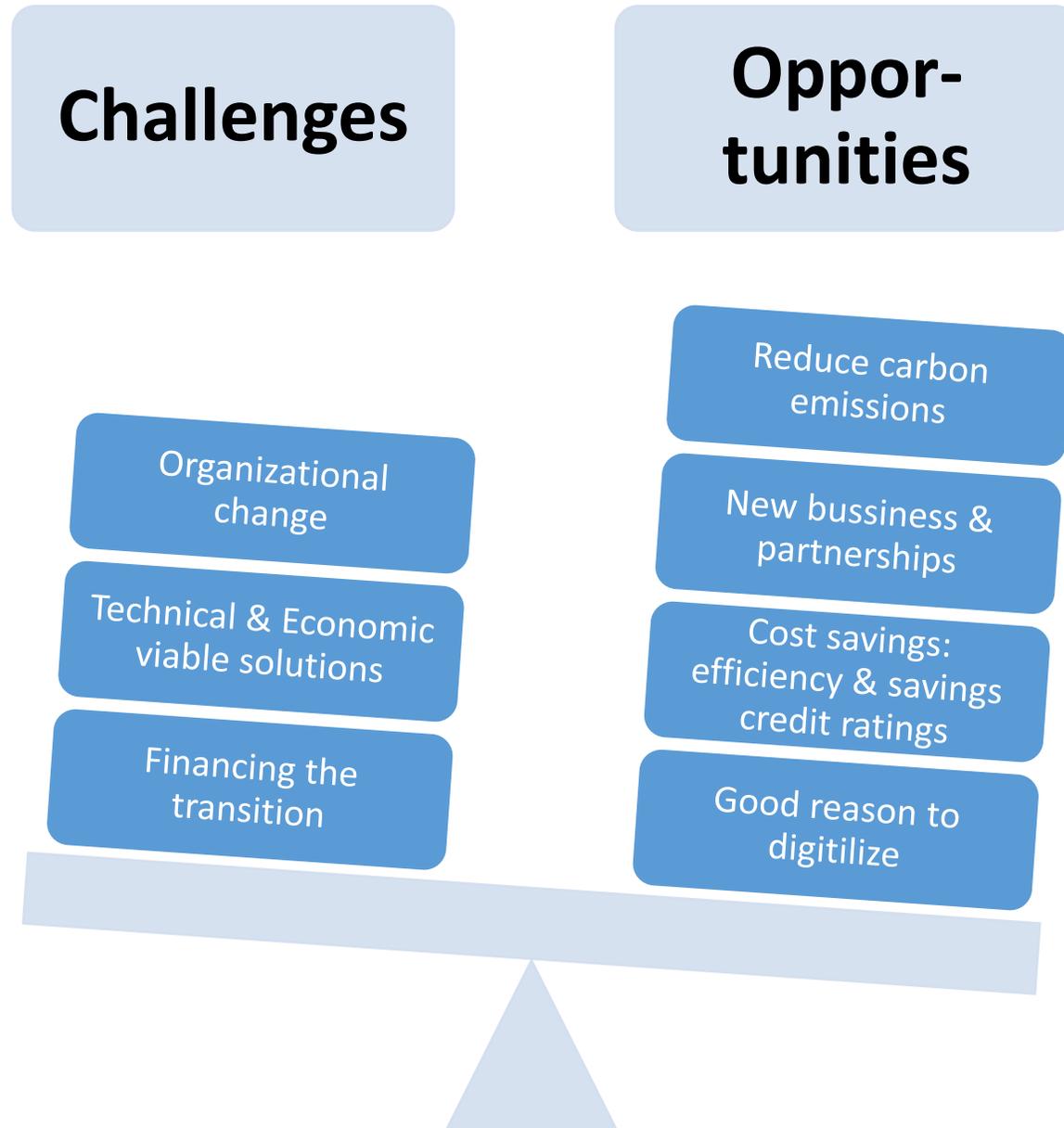
Define, promote and adopt standards that will enable the cargo handling industry to embrace the 4<sup>th</sup> industrial revolution

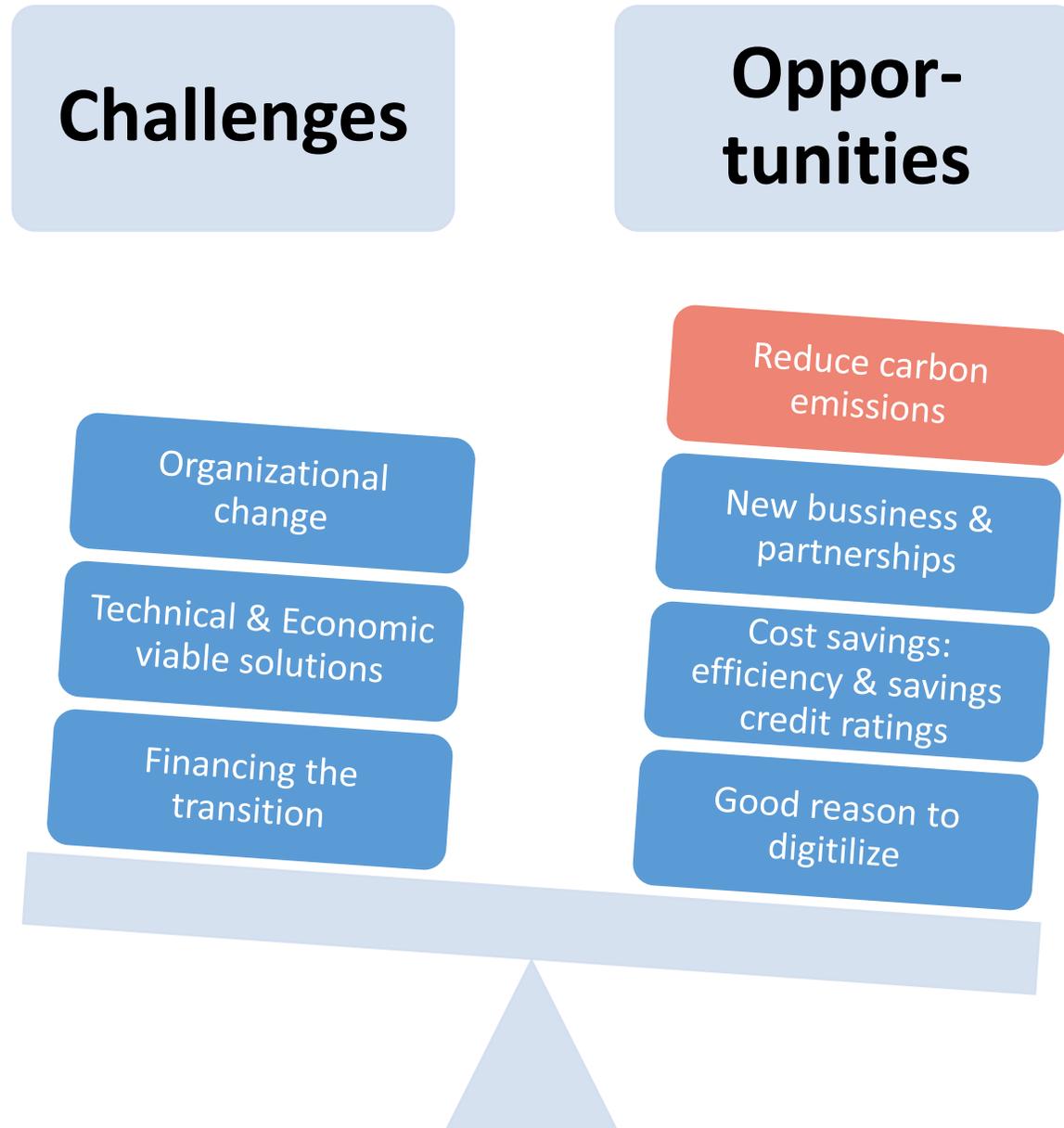
<sup>1</sup> Scope 1 and 2 emissions of greenhouse gases acc. to German Klimaschutzgesetz KSG §2 (1)



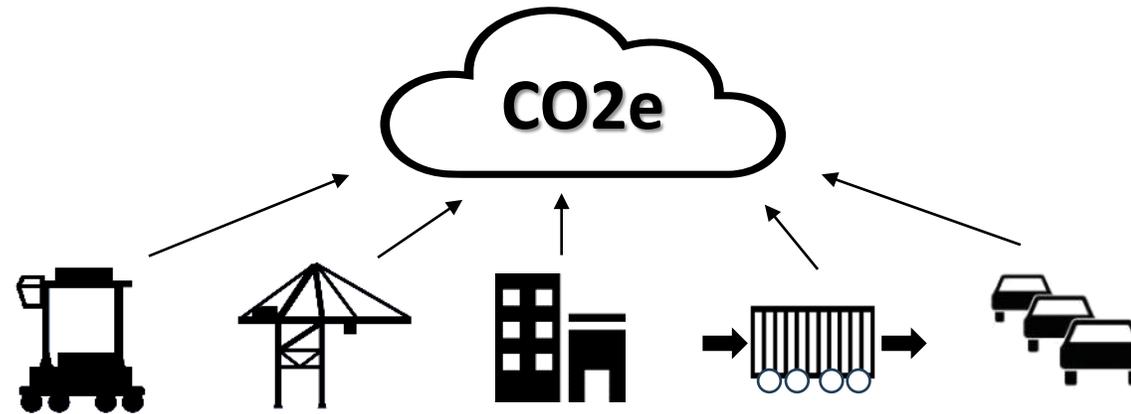


**Energy transition  
Challenges &  
Opportunities**





# Report & Reduce Carbon Emissions

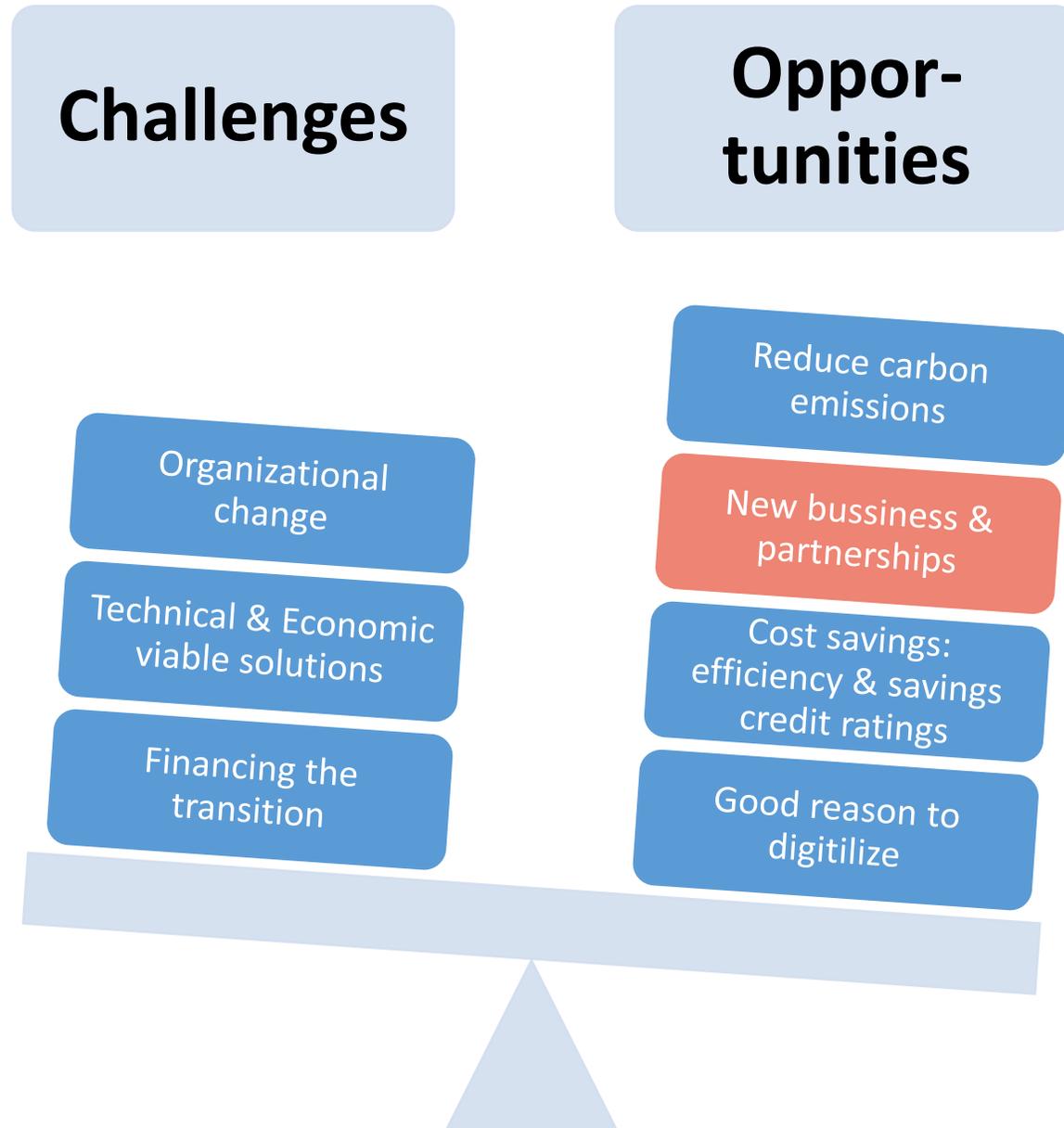


GHG Protocol is the standard

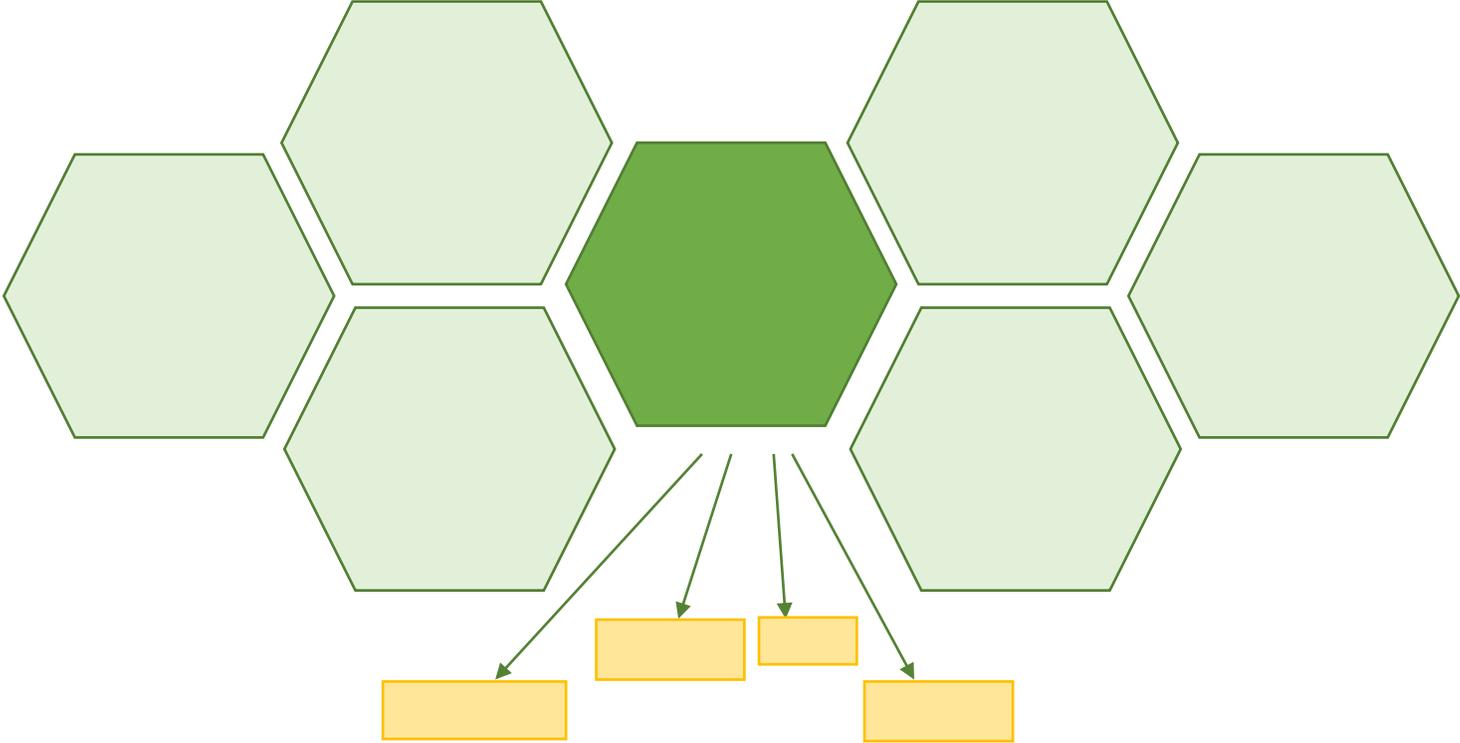
Reporting is a challenge

Opportunities: drives digitization & reduces cost

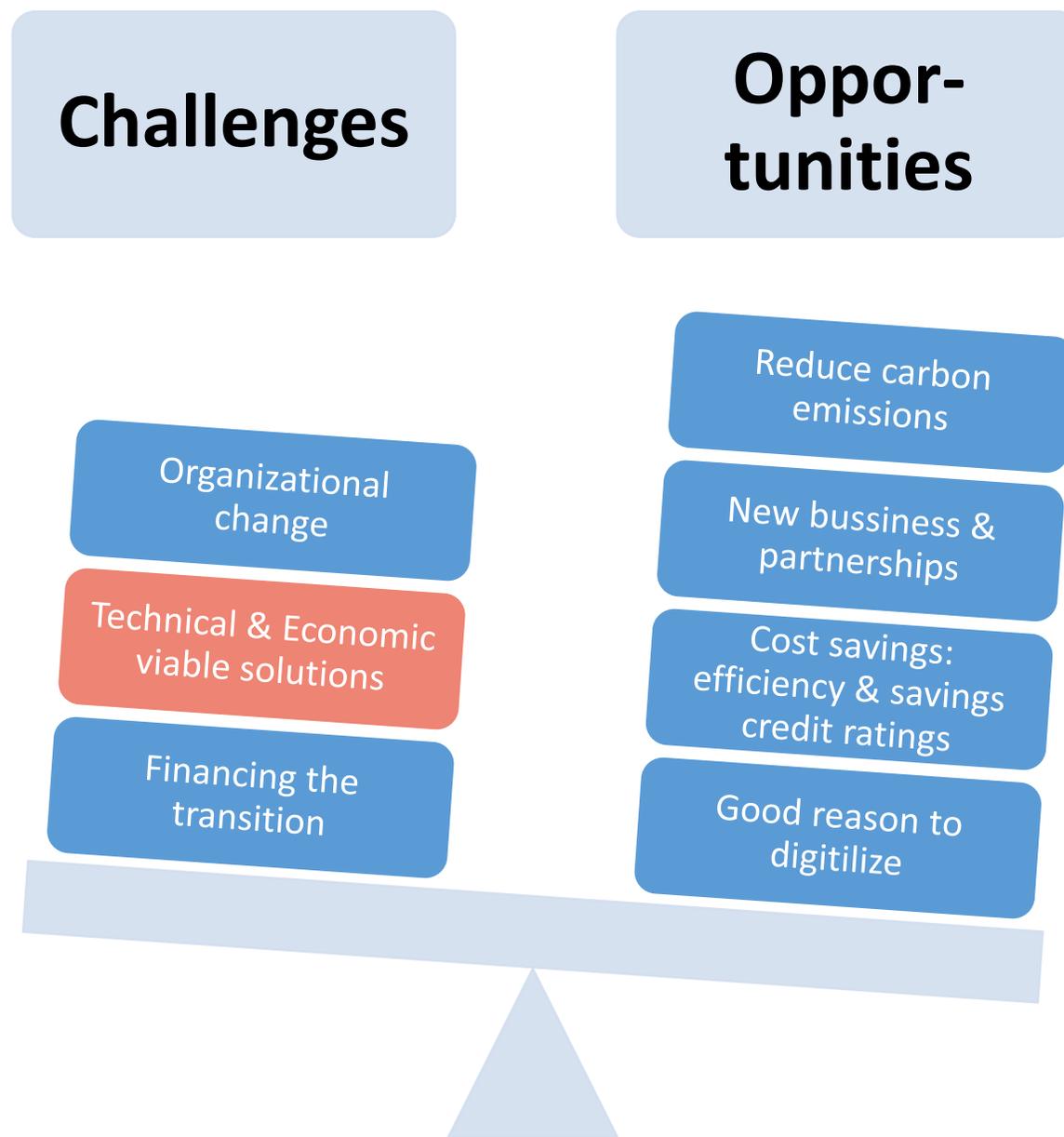
Transparency is required to focus reduction activities



# Big challenges require a new perspectiveness & openness for new business, new solutions and partnerships

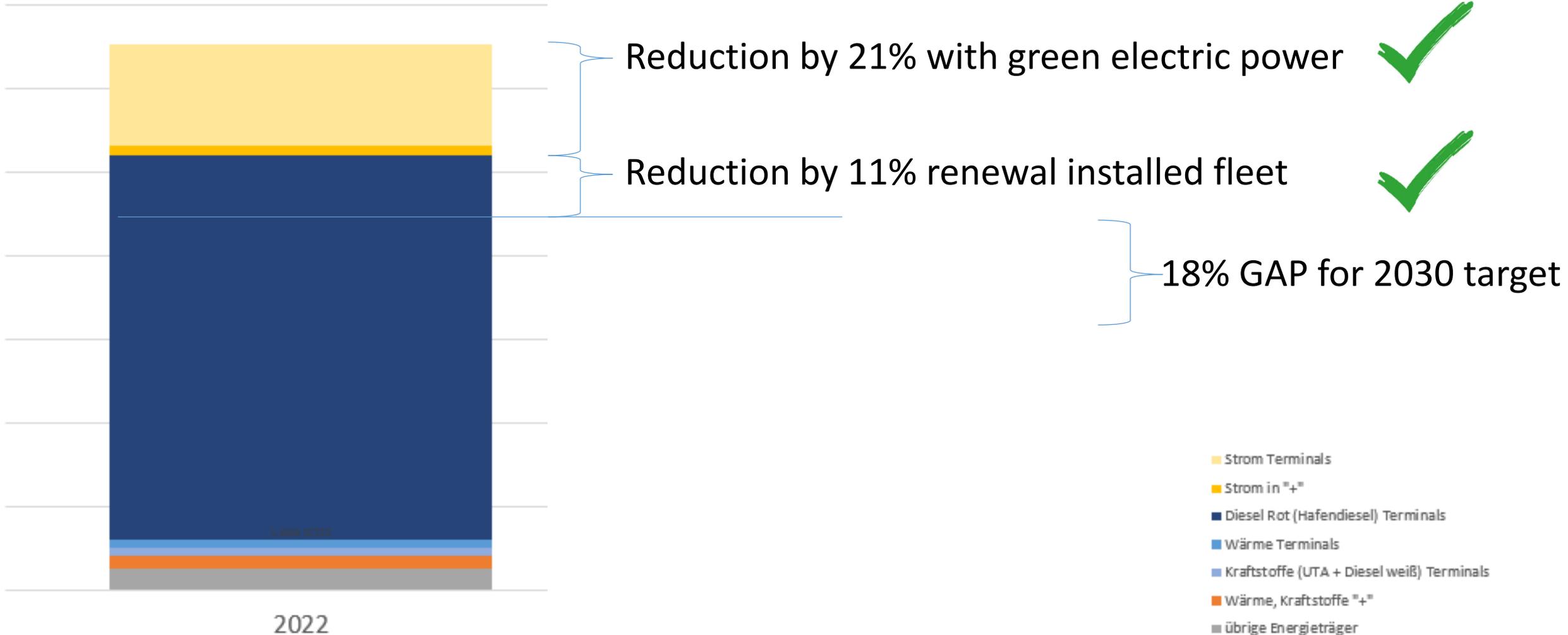






# Prognosis CO2 Emissions 2022 vs. 2030

Measures: green electric power & renewing SC fleet with hybrid  
EUROGATE German Terminals + Services





## What can you do? Terminal operator



- Take this topic seriously – it is a topic for the big boss – the long term future!
- Implement a functioning structure within your organization and assign resources
- Include the reporting of the measures in your day2day and strategic initiative reporting
- Adapt your operational processes:  
battery-electric operation is different to fossil fuel operation
- Act now: a reachstacker you buy today influences your CO2 footprint the next 8 – 15 years
- Reducing energy for a „sustainable future“ is a powerful motivation for people



## What can you do? OEM or solution provider



- Take this topic seriously – it is a topic for the big boss
- Assign resources
- Develop solutions (new investment + installed fleet)
- Include the longer term benefits in your sales strategy and convince your customers
- Calculate your product carbon footprint „cradle to gate“ acc. to GHG Protocol
  - STS Cranes
  - Straddle Carrier
  - Reachstacker, Forklifts, Empty Handler
  - Spare parts
  - Services & Solutions



## What can you do? Employee



- Take this topic seriously – it is a topic for everyone
- Show and tell your „big boss“ that the topic is important for you
- Take your share to reduce energy consumption and the CO2 footprint in your professional and private life.





# Net-zero

by 2040

Let's go into a greener  
and brighter future.

