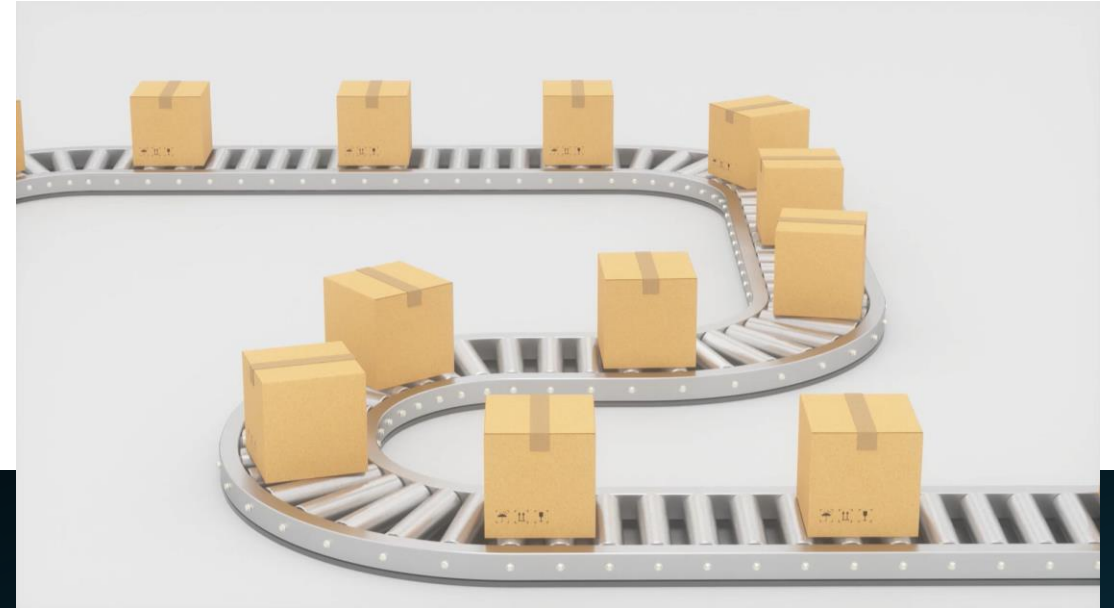


## Navigating The Future Of Supply Chains in South Africa 2025

# ***Engineering and manufacturing trends, challenges and investments***



**Sam Kgarimetsa**

*General Manager Corporate Affairs & Sustainable  
Impact*

*Anglo American Platinum - Mogalakwena Complex*

## Navigating The Future Of Supply Chains in South Africa 2025

### Engineering & Manufacturing sector requires adaptability...

**FACTUAL STORY ABOUT THE SECTOR:** *Manufacturing industry trends are largely driven by technological advances, marketplace needs and the objectives of the business.*

Smart  
Factories

Talent for  
Future  
Manufacturing



Sustainability  
and carbon  
neutrality

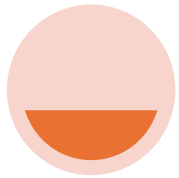
Stable &  
Predictable  
Supply Chains



# Navigating The Future Of Supply Chains in South Africa 2025

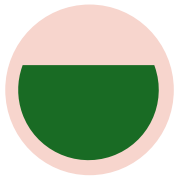
## Growing investment in Smart Factories

- Manufacturers investing to enhance **operational efficiency and reduce costs.**



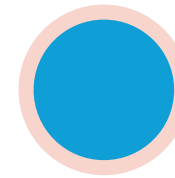
AI & Modern database technologies

**Data acquisition**



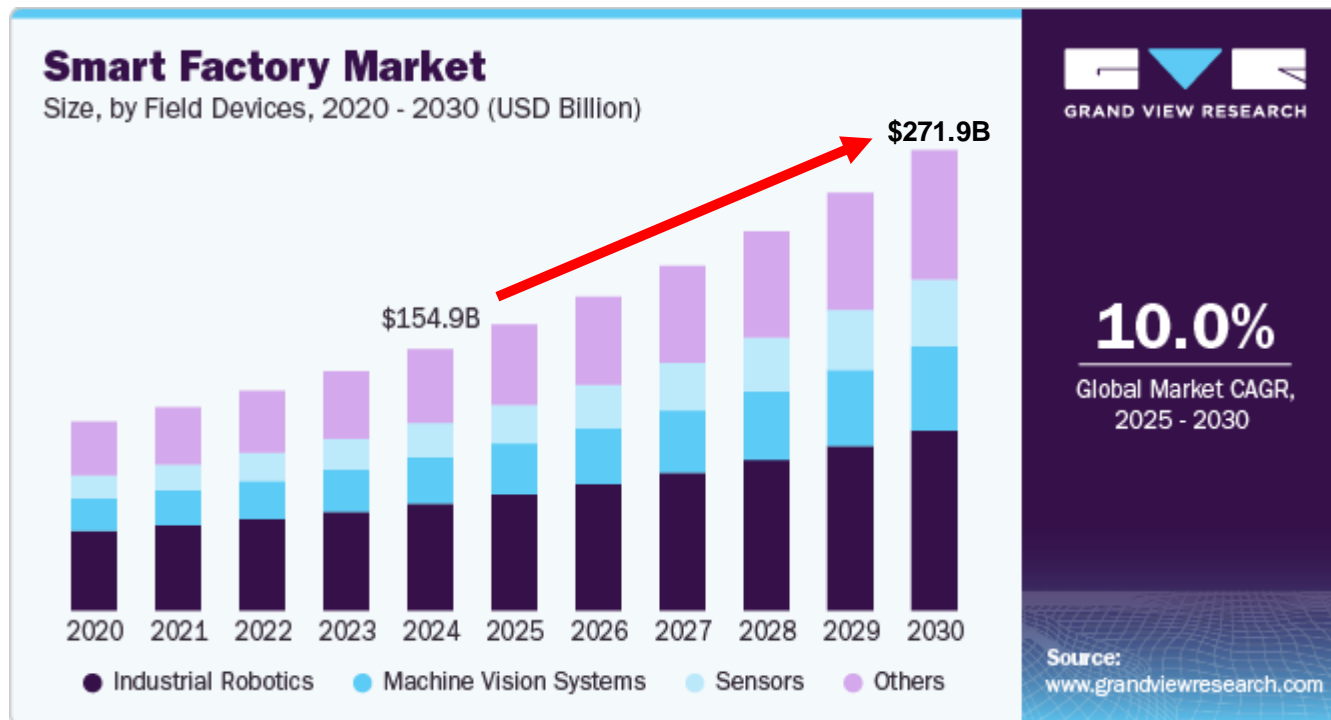
Advanced analytics

**Data analysis**



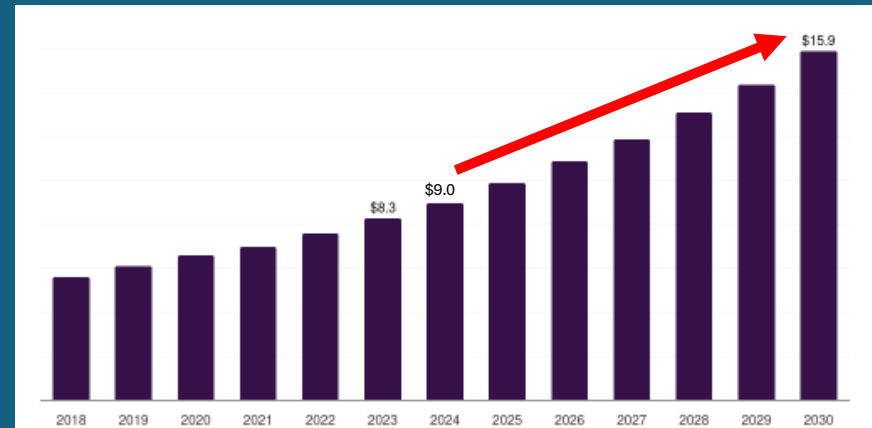
Established workflows & instructions

**Intelligent factory automation**



### Middle East and African

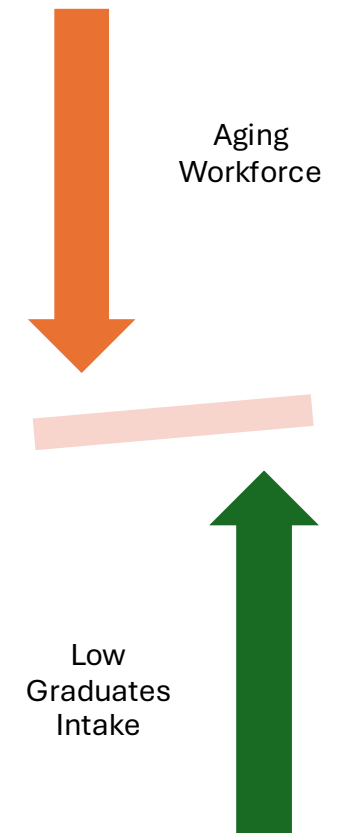
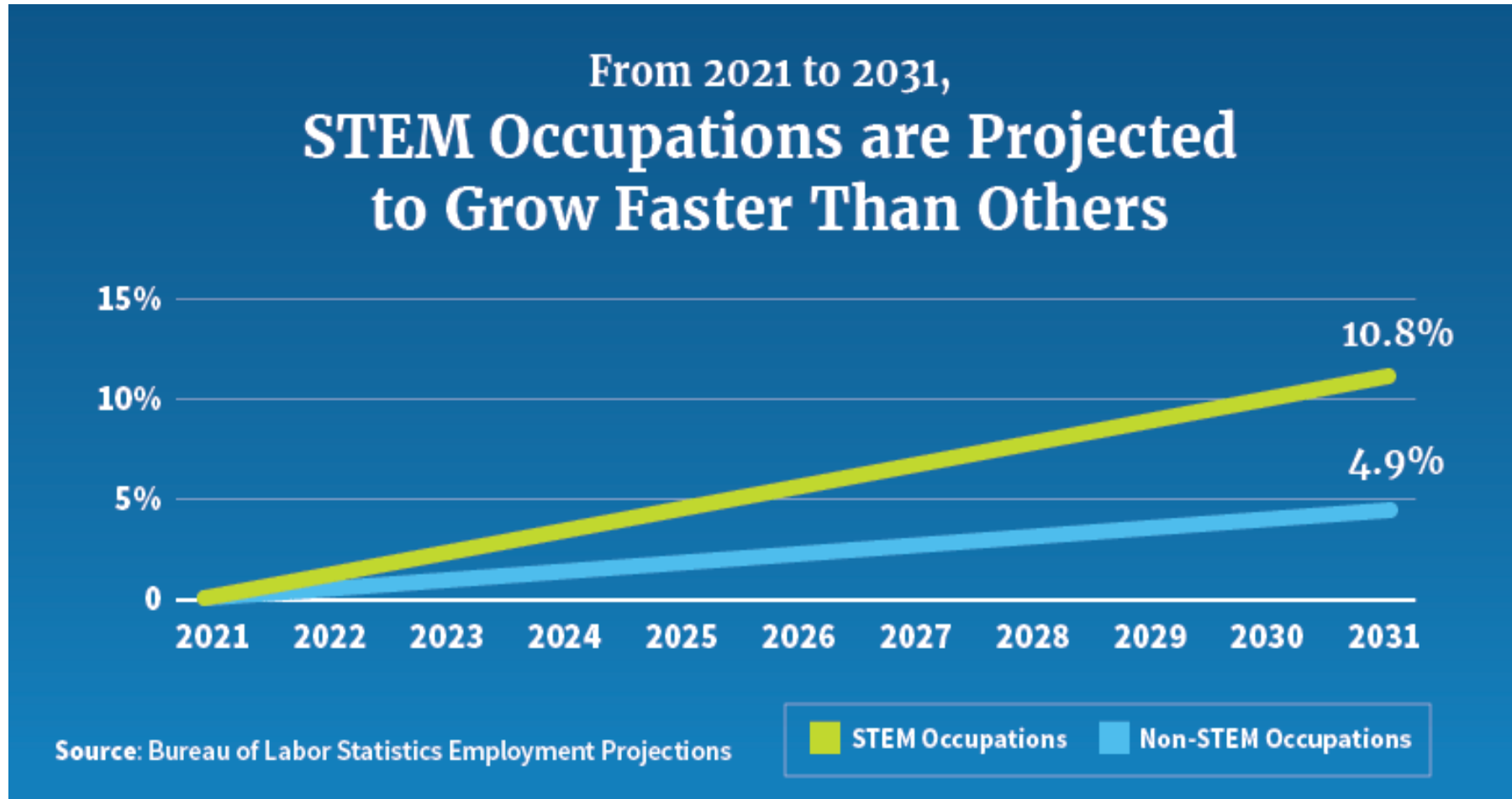
- MEA smart factory market generated a revenue of USD 9.0 million in 2024.
- Market is expected to grow at a CAGR of 9.9% from 2025 to 2030.



## Navigating The Future Of Supply Chains in South Africa 2025

### Global talent challenge to support growth

- Significant challenges **in retaining and attracting talent** for engineering and manufacturing

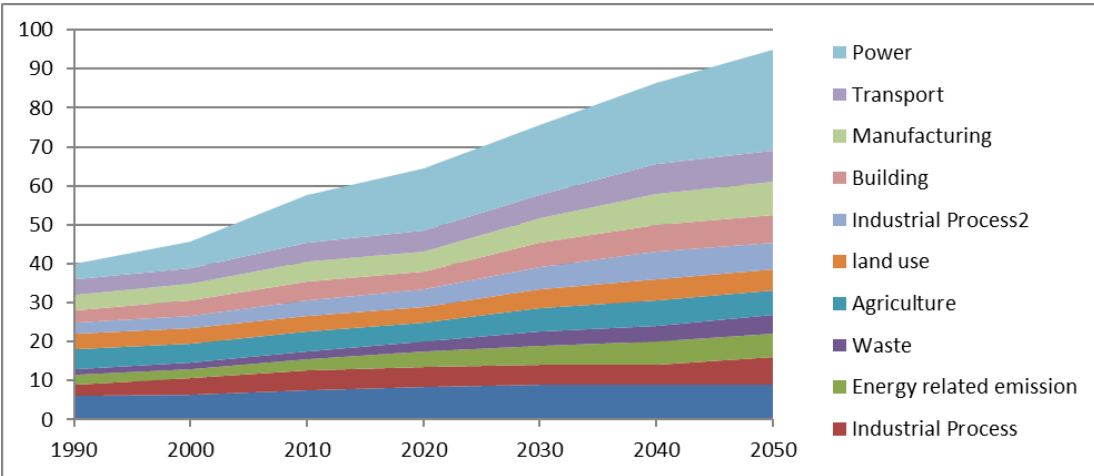


# Navigating The Future Of Supply Chains in South Africa 2025

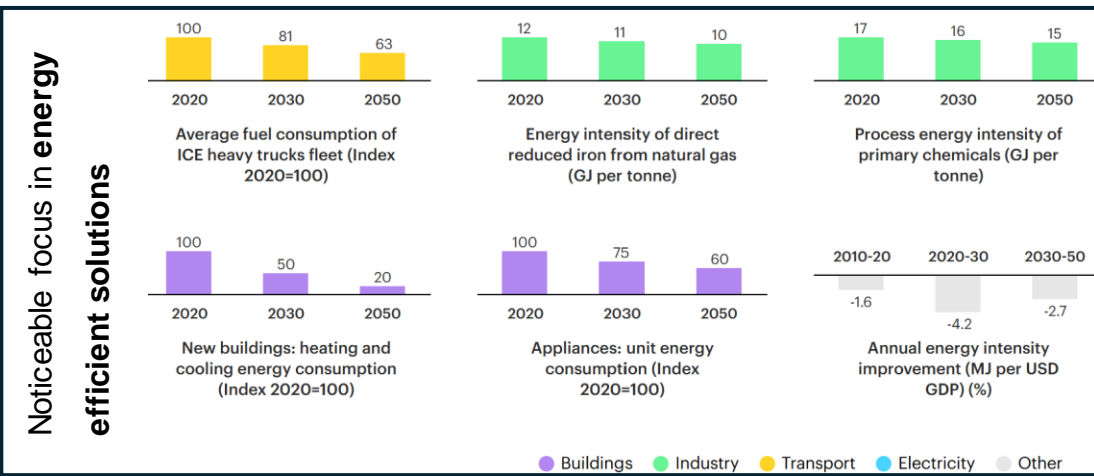
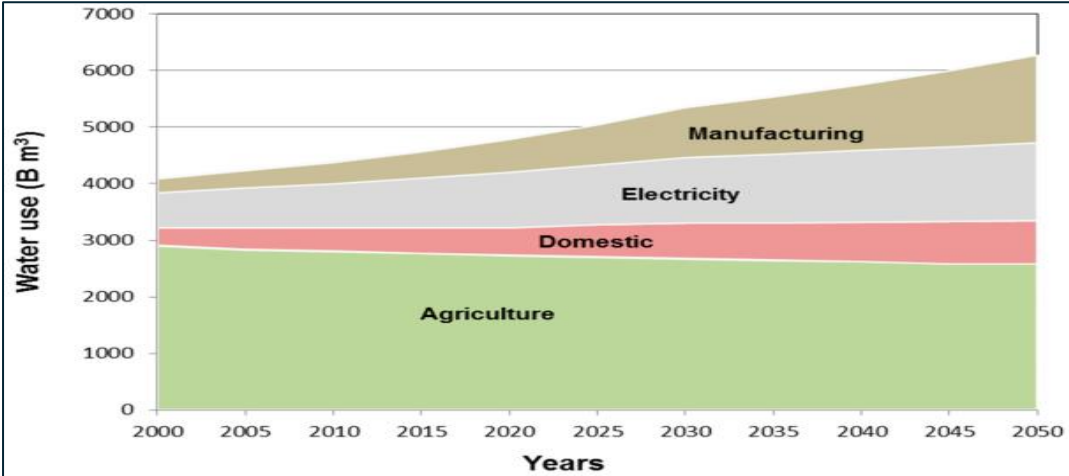
## Growing need for Sustainability investments in the sector...

...to deliver **Low Impact Manufacturing**

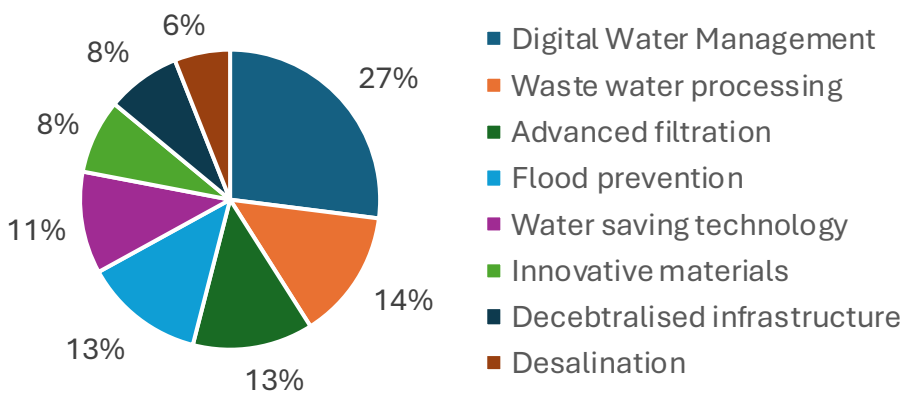
Expected Greenhouse gas emissions by 2050 in different segments



Expected increase in freshwater consumption, requiring interventions



Water management trends and innovations



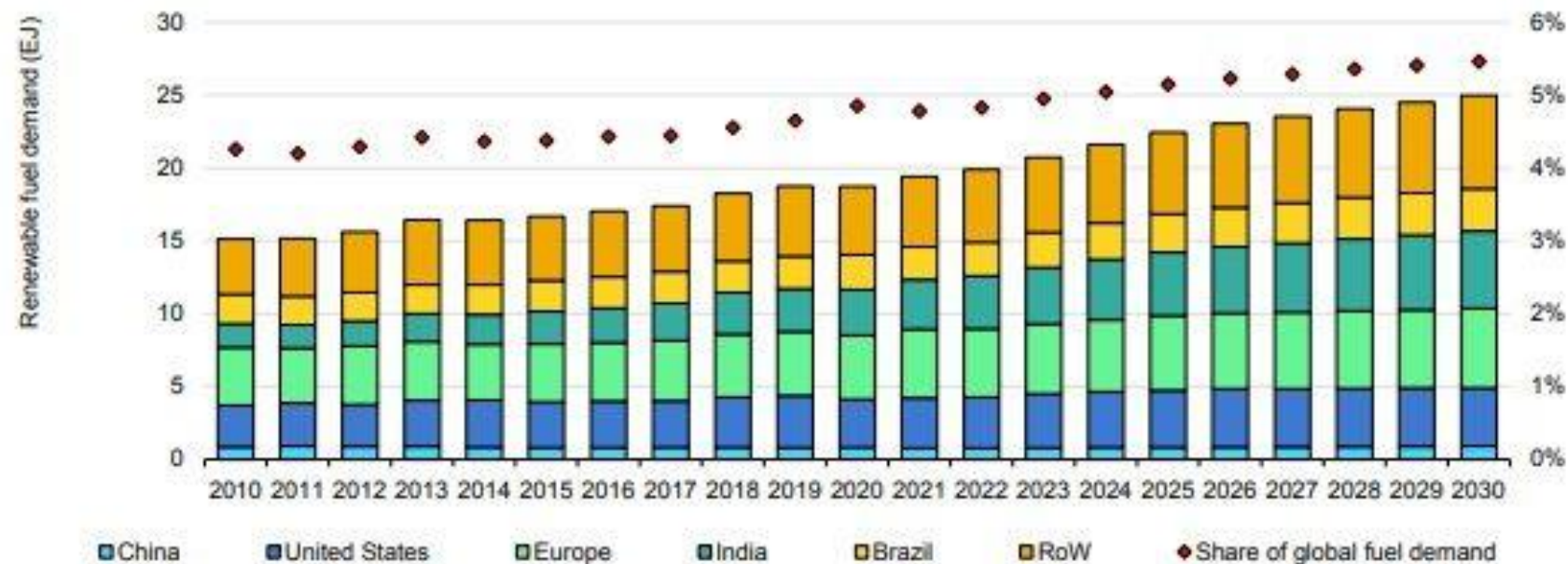


## Navigating The Future Of Supply Chains in South Africa 2025

### Energy transition outlook ...

...to deliver **Low Impact Manufacturing**

Renewable fuel demand, main and accelerated cases, 2023-2030



IEA. CC BY 4.0.

Notes: RoW = rest of world. Shares are based on global fuel demand in final energy consumption.

Source: Total final energy consumption from IEA (forthcoming). [World Energy Outlook 2024](#).

- Energy transition in engineering & manufacturing involves a **shift from fossil fuels to renewable sources**
- **Share of renewable fuels in total energy demand is expected to remain below 6% in 2030 despite accelerated growth**

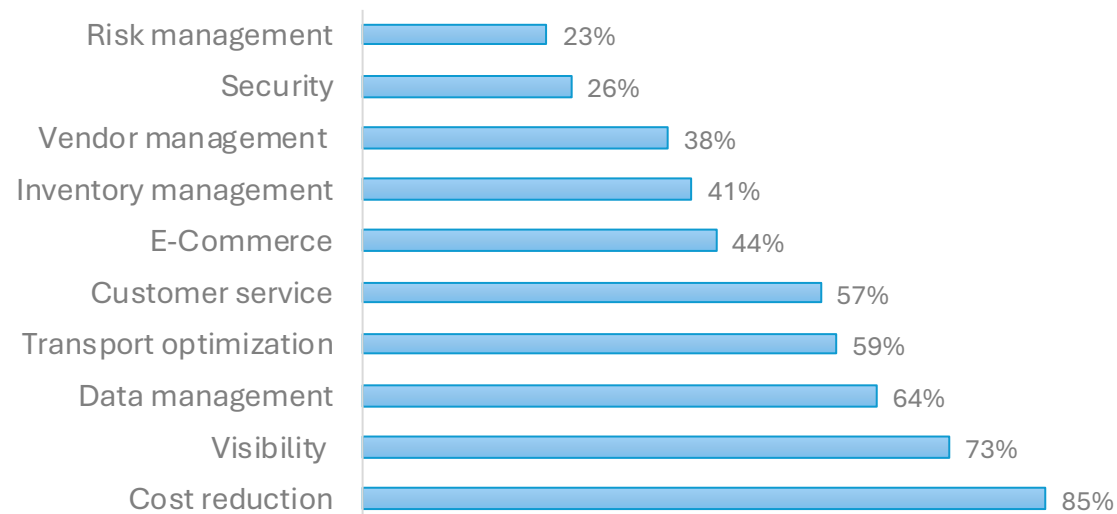
## Navigating The Future Of Supply Chains in South Africa 2025

### Stable and Predictable Supply Chains are Critical for the sector...

- Many companies today handle their supply chain activities in-house

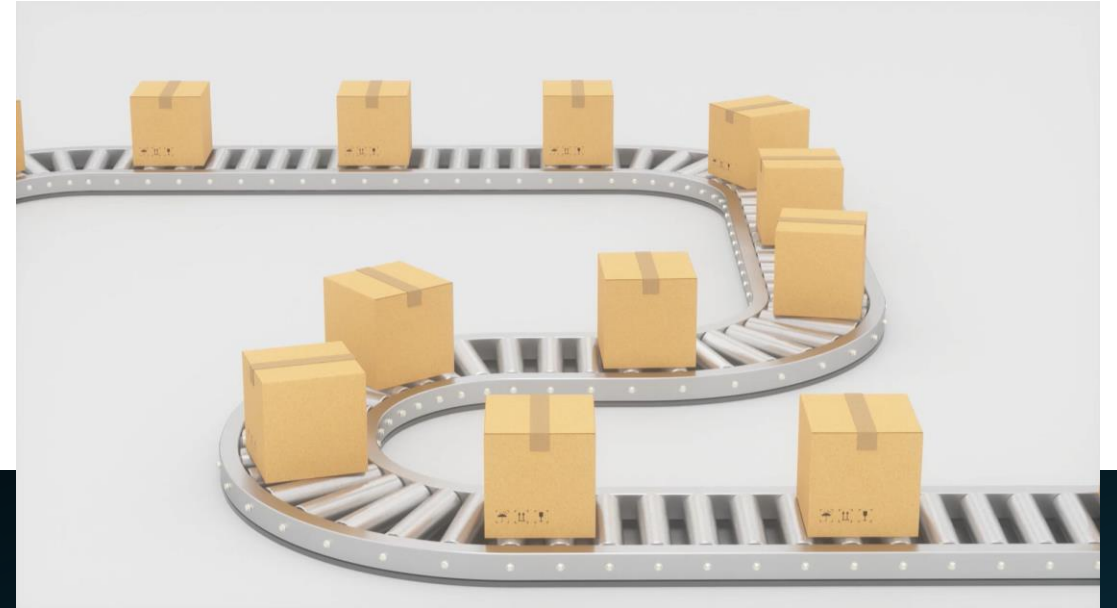


#### Challenges Most Critical to Customers



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