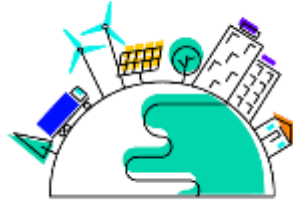


# 2024 CRC Conference



**Tyrone Ellis**  
**Aftermarket Engineering Leader, Americas**





## A purpose-driven global climate innovator

Trane Technologies is a global climate innovator advancing sustainability through our brands Trane® and Thermo King®, which bring efficient and sustainable climate solutions to buildings, homes and transportation.

Video link:

[https://youtu.be/POaLm\\_RPdxI?si=2ZohJL\\_yXcZINof6](https://youtu.be/POaLm_RPdxI?si=2ZohJL_yXcZINof6)

# One company can change an industry and one industry can change the world

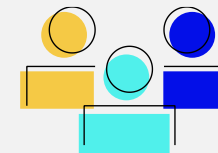
With innovative technology that transforms the way we heat and cool buildings and protect the cold chain, we can help reduce global carbon emissions.



**100%**  
focus on  
sustainability



**\$17.7B**  
annual revenue



**40,000+**  
employees

“It’s not often you find the incumbent that’s also a disruptor. But that’s who we are.”



**Dave Regnery**  
Chair and CEO





# Positioned to Meet Global Challenges

Addressing GHG Emissions, Water, Waste, Food Loss and Stakeholder Opportunity

## Our 2030 Commitments



### Gigaton Challenge

Reduce customer emissions by **1 gigaton\***

Design systems for circularity

Increase access to comfort

Increase access to fresh food

\*1B metric tons of CO<sub>2</sub>e



### Leading by Example

Carbon neutral operations

Zero waste to landfills

Net positive water use

Reduce absolute energy consumption by 10%<sup>†</sup>

<sup>†</sup>Compared to 2019 baseline



### Opportunity for All

Workforce diversity reflective of our communities

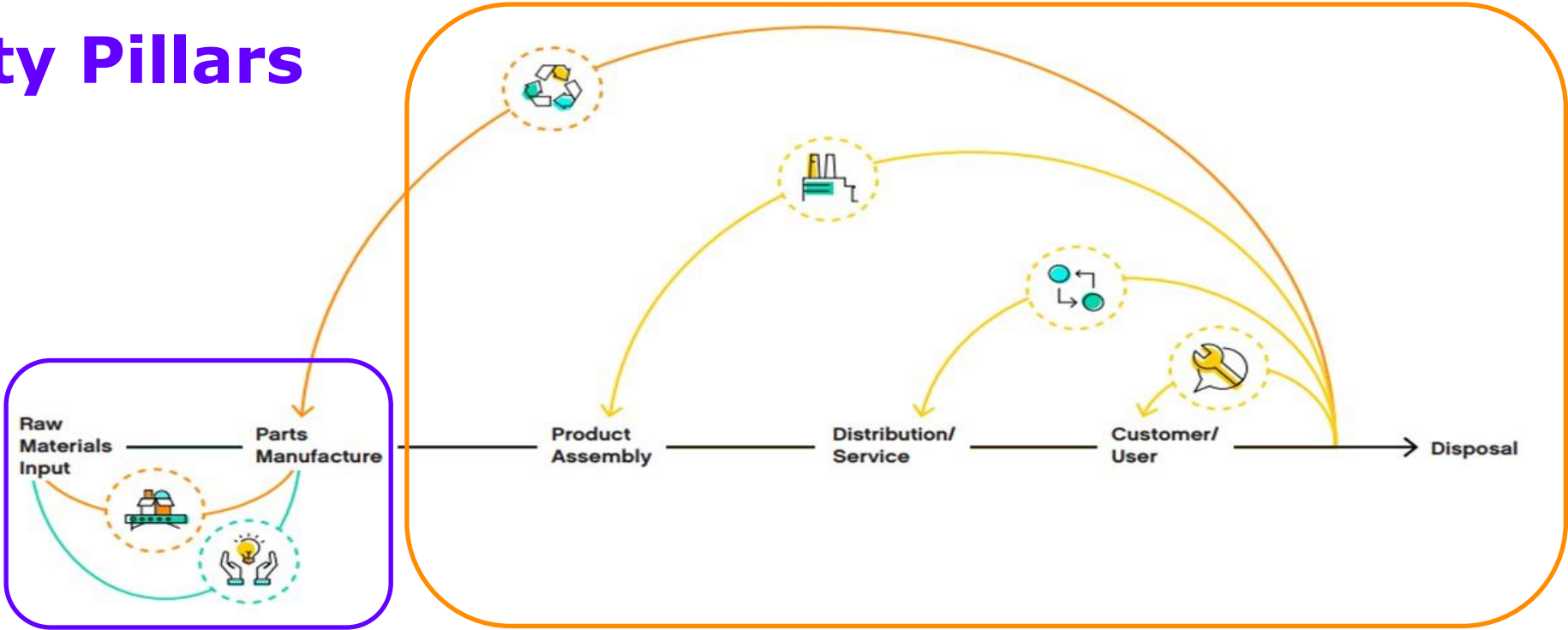
Gender parity in leadership roles

World-Class safety metrics

\$100M committed to building sustainable futures for under-represented students

500,000 hours of employee volunteer engagement

# Circularity Pillars



**Note:**  
Circularity strategies span external entities including suppliers, distributors and other 3P service providers



## Material Selection

Procure materials with low environmental impact through incentivizing a circular supply chain.



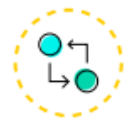
## Sustainable Design

Create products that are easily disassembled for repairs, refurbishment and recycling.



## Maintain, Prolong, Share

Keep products and materials in use by extending their lifespan for as long as possible and ease updates.



## Reuse, Redistribute

Utilize a product or component on repeat, for its intended purpose without significant modification.



## Remanufacture, Repair

Return product or components to good working order through upgrade, repair, refurb., or replacement to return to usable and intended state.



## Recycle

Transform a product or component into its basic materials or substances and reprocess them into new materials.

# Designing Systems for Circularity

## Circular Materials



### Recycle

- End of life manuals
- Takeback programs

### Material Selection

- Selection of recycled or renewable materials
- Sourcing lower carbon materials
- Key for reducing embodied carbon



## Circular Design



### Sustainable Design

- Design for Sustainability and Circularity (DfSC)
- LCA/EPD's
- Modular design
- Component standardization
- Design for service, reuse, retrofit, and remanufacturing



## Circular Services



### Remanufacture/Upgrade

- Remanufacturing of parts
- Additive manufacturing
- Robotics

### Maintain/Prolong/Share

- Predictive maintenance AI
- Virtual reality for services

### Reuse/Redistribute

- Refrigerant reclaim
- Product as a service
- Returnable packaging

