

## **Professional Introduction**





- Tarun Chopra, Head of Manufacturing Services, Danfoss Grouph Islandes
- Bachelors of Engineering Computer Science
- Masters in Information Systems
- Work experience 22 years
  - Continental AG
  - Samsung Electronics
  - Siemens AG
- Global Experience
  - 15 years in Germany
  - 5 years in Seoul, South Korea
  - 3 years in Melbourne, Australia
- Functional area of Expertise: Business IT Strategy, Merger & Acquisitions, E2E Supply Chain, Manufacturing IT & Shopfloor systems
- What drives me Disciplined consistency, Strategy, Execution and

# **Danfoss** at a glance

### Three strong business segments with leading positions

**Danfoss Power Solutions** 

**Danfoss Climate Solutions** 

**Danfoss Drives Power Electronics and Drives** 

1933

Long track record within innovative engineering

Worldwide sales in more than 100 countries

+42,000 employees

97

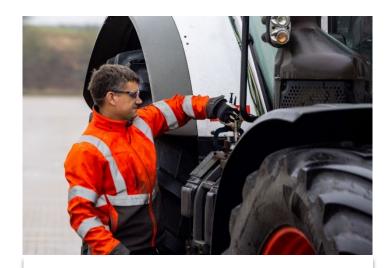
Factories in 20 countries

Preferred partner in **helping our customers** decarbonize





## Three **business segments**



### **Danfoss Power Solutions**

- 5.1bn EUR annual sales
- 18,535 employees
- 52 factories
- 3 Application Development Centers





### **Danfoss Climate Solutions**

- 3.2bn EUR annual sales
- 10,331 employees
- 31 factories
- 4 Application Development Centers



31% of Group sales



### **Danfoss Power Electronics** and Drives

- 1.9bn EUR annual sales
- 7,875 employees
- 17 factories
- 4 Application Development Centers

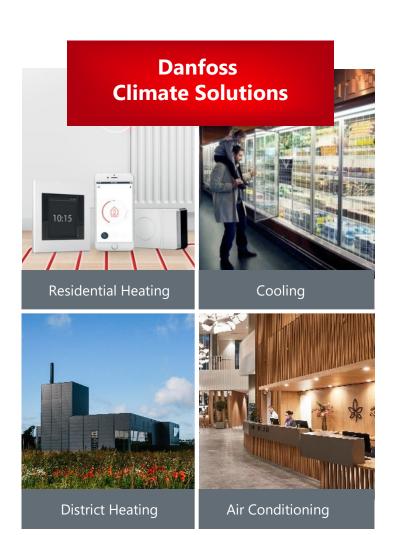


### Our world - sectors we serve

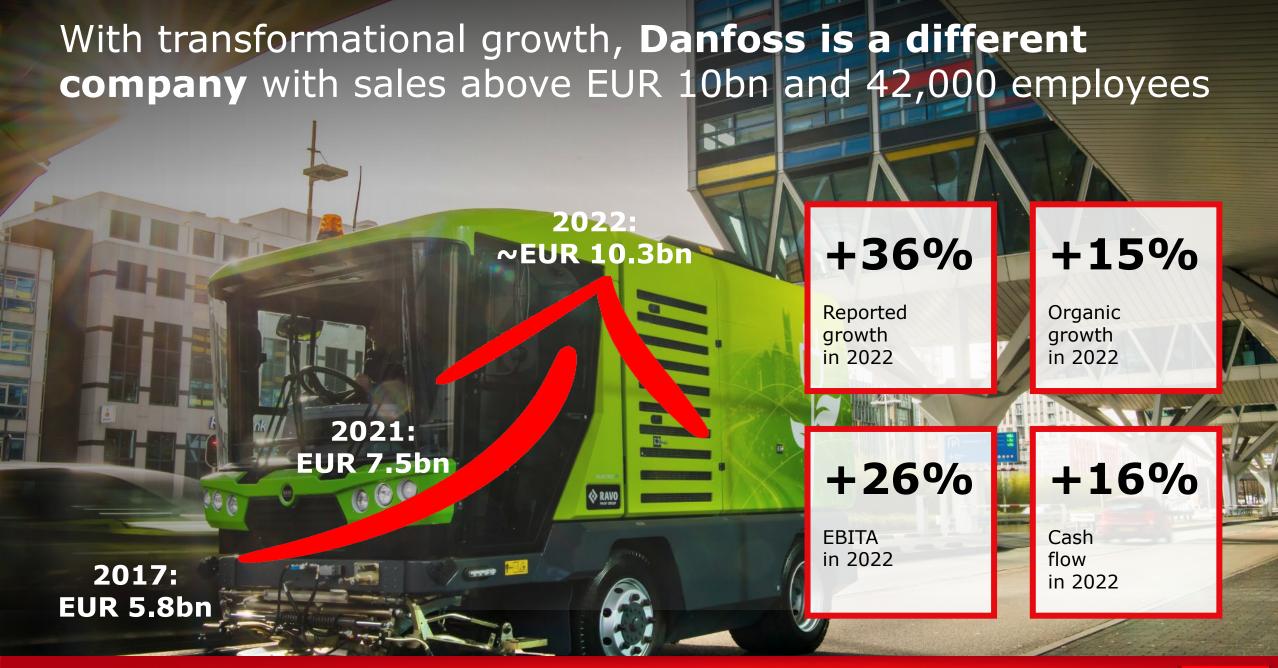






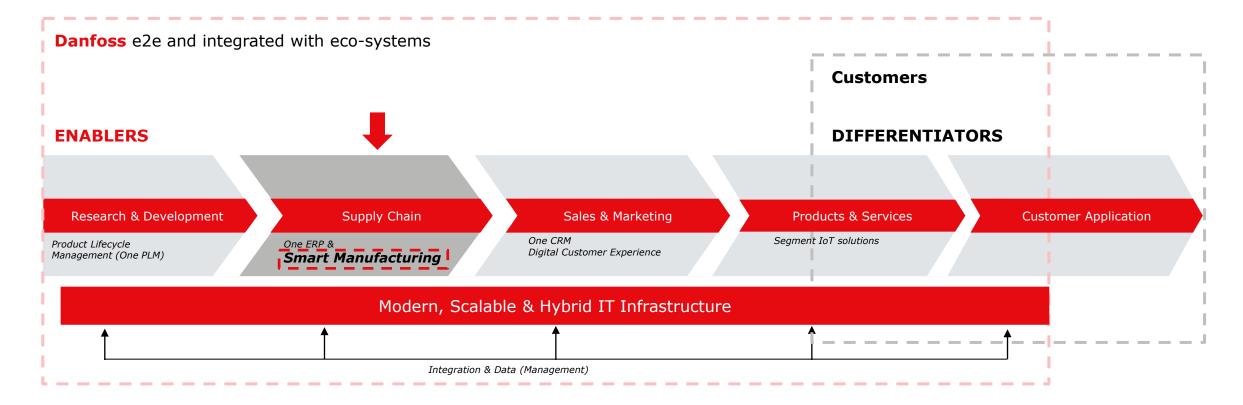






## Working towards one strong digital platform for Danfoss and our customers



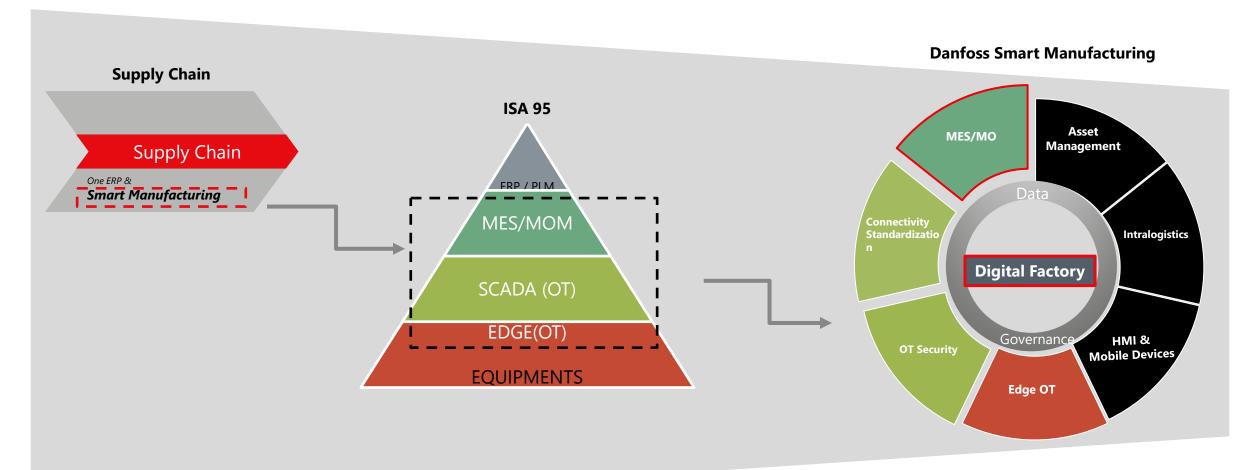


We are executing a digital transformation of our entire value chain

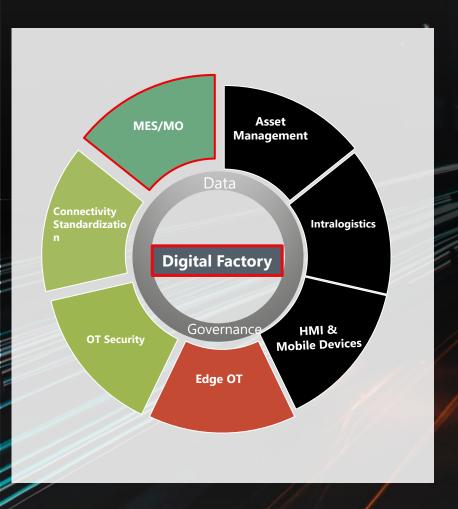


## **Supply Chain value stream Dissecting 'Smart Manufacturing'**





# Smart Manufacturing Journey <a href="Initial Focus areas">Initial Focus areas</a> – Delivering on GMM Commitments



#### MES/MOM

- Execute on MOM Platform(s) in Danfoss
- OEE Solutions
- Predictive Maintenance

### Connectivity and

- Standardization
  Flexible ISA Layer 3 Agnostic
- Interconnected systems via APIs

### **OT Security**

- Risk assessment and build Standard
- Prepare and start rollouts
- Trainer the trainers

### **BUSINESS VALUE**

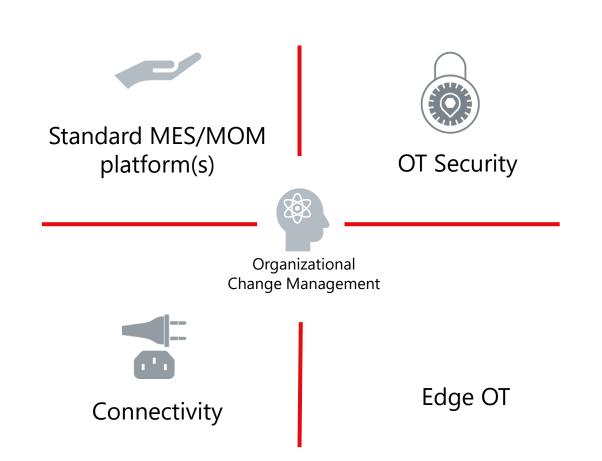
1 High Quality Data -30 %

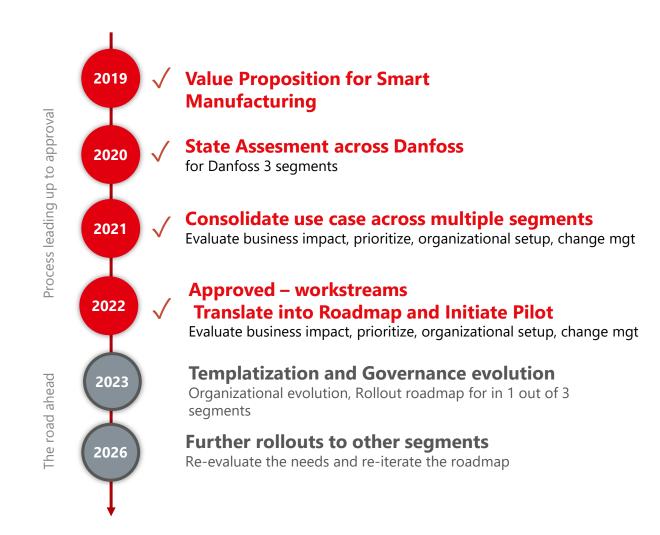
- No Touch Processes- 10%
- Improved Salaried Productivity (10-15%)
- Enabler for e2e Process automation



# Smart Manufacturing Journey

## - First 4 focus areas





## Learnings

- Top down and bottom up buy in
- Find your own sweet spot Balance between ambition and need of the hour
- This is a 'Journey' Re-evaluate every step/project Business value
- Know your strengths and weakness be bold to pause, re-iterate and re-restart
- Build a strong partner network

**ENGINEERING TOMORROW** 











90 years and ready for the future



















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