

UNTER  
NEHMER  
TUM



# AirCare

We Make Jet Engine Maintenance  
Smart, Comprehensible and Hassle Free.



## Problem

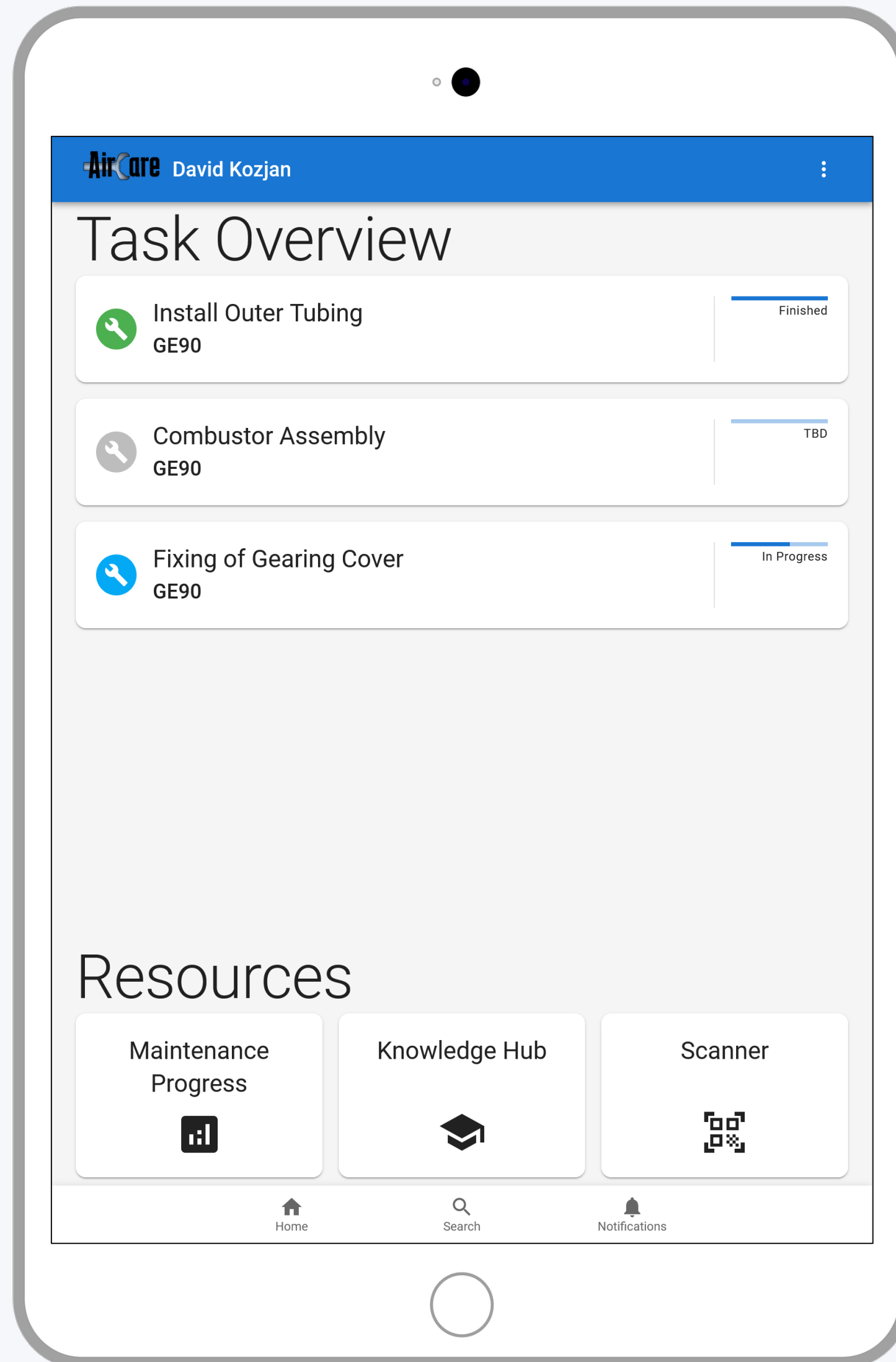
- Airplane Engines must go through maintenance after a certain amount of flight hours or if damages occur.
- During Maintenance, engines are disassembled, cleaned, repaired, reassembled and tested.
- 75% of all tests after Maintenance fail due to air, oil or fuel leakages
- Most Leakages are caused by human error during assembly.
- If a test after maintenance fails, the whole maintenance process must be repeated
- Failed tests are costly and a waste of resources.



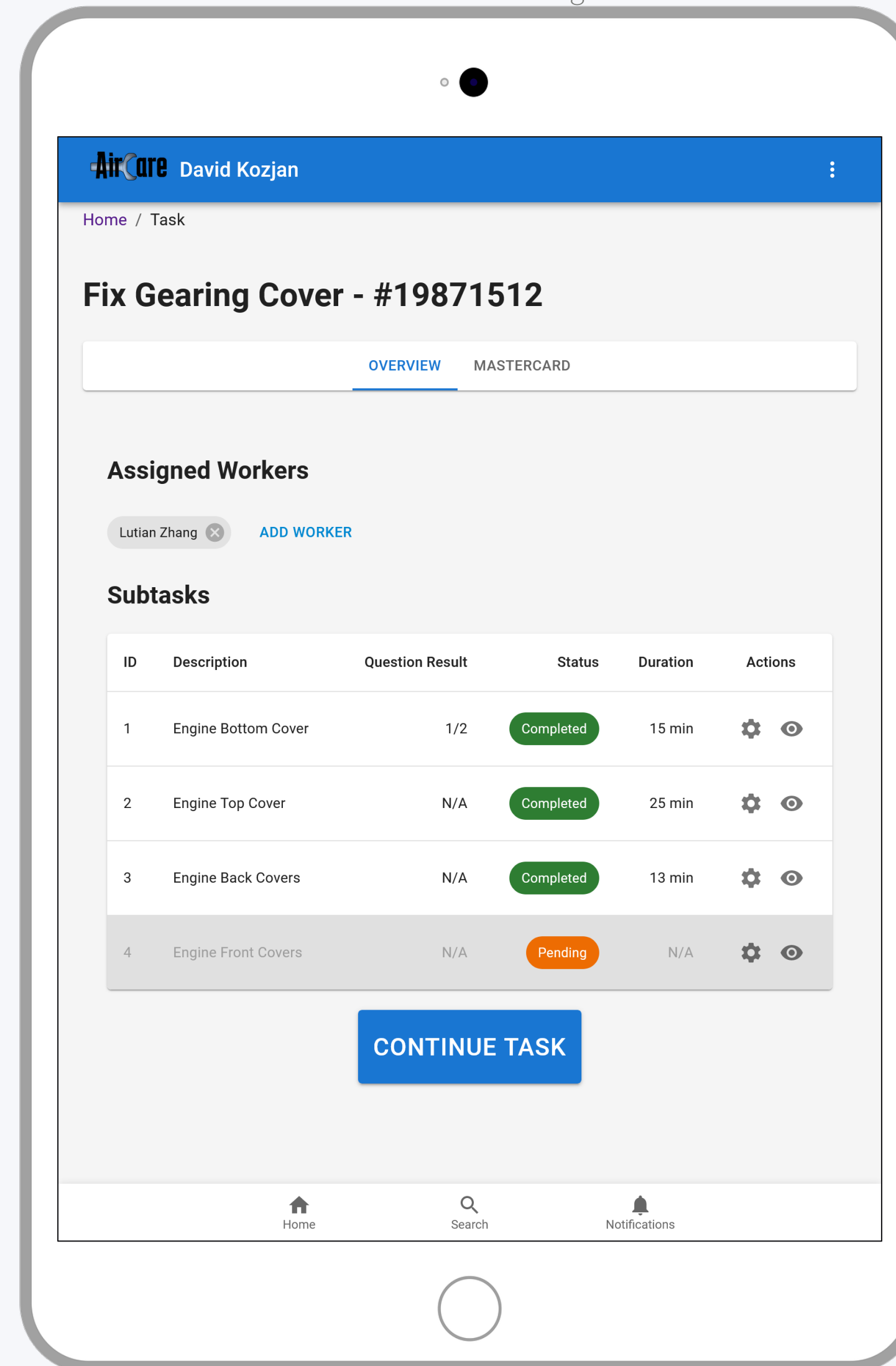


# Solution – Our App and Core Functionalities

Start Screen



Task Overview Page



Our App can be used to

- Track the work done by mechanics
- Make the specific work steps more comprehensible & raise awareness about difficult tasks
- Collect data on issues
- Get more insights through the knowledge hub

Team Leads to track progress in real-time by:

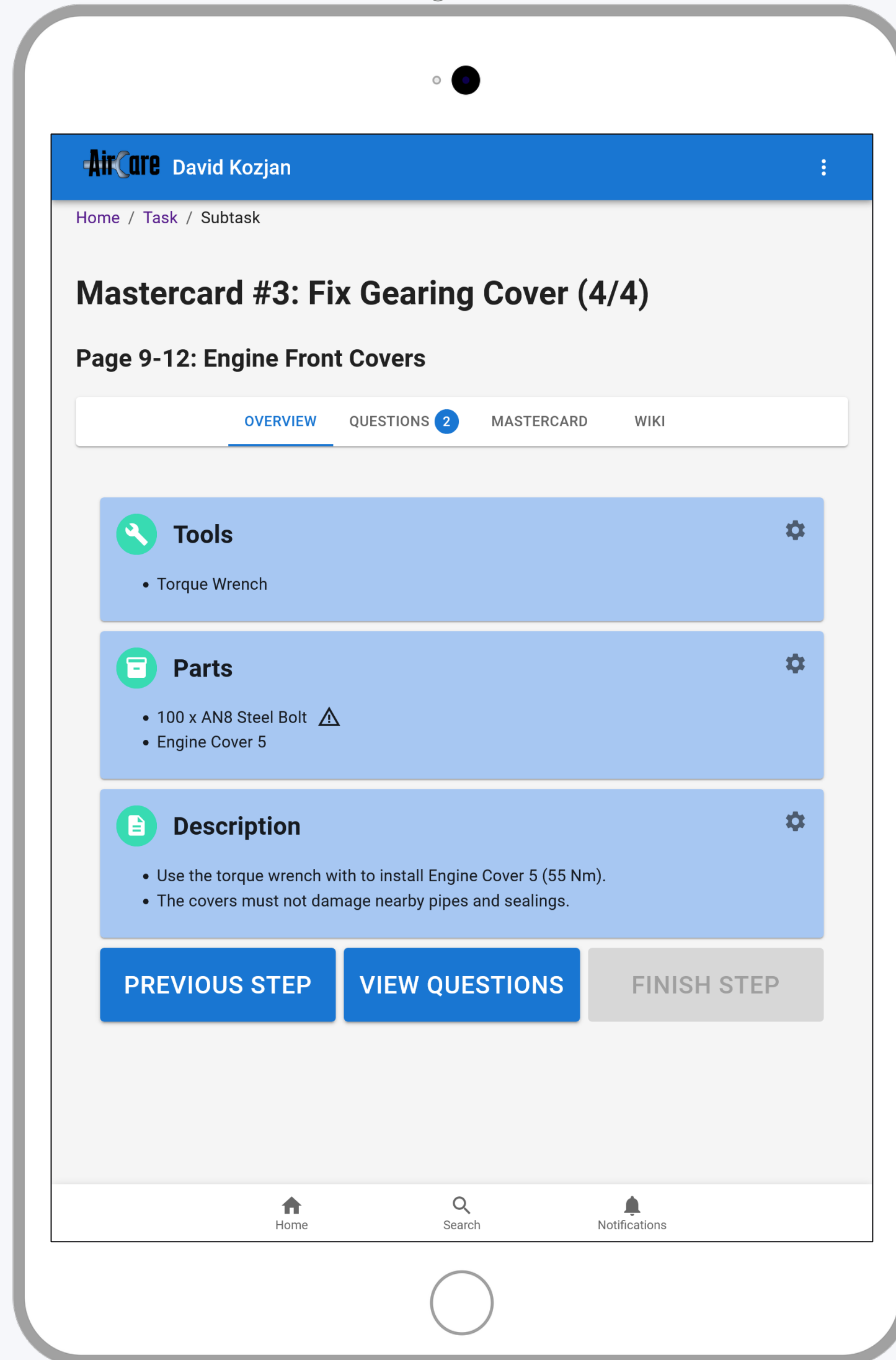
- Planning workloads
- Planning resource occupations

Within the Task Overview Page:

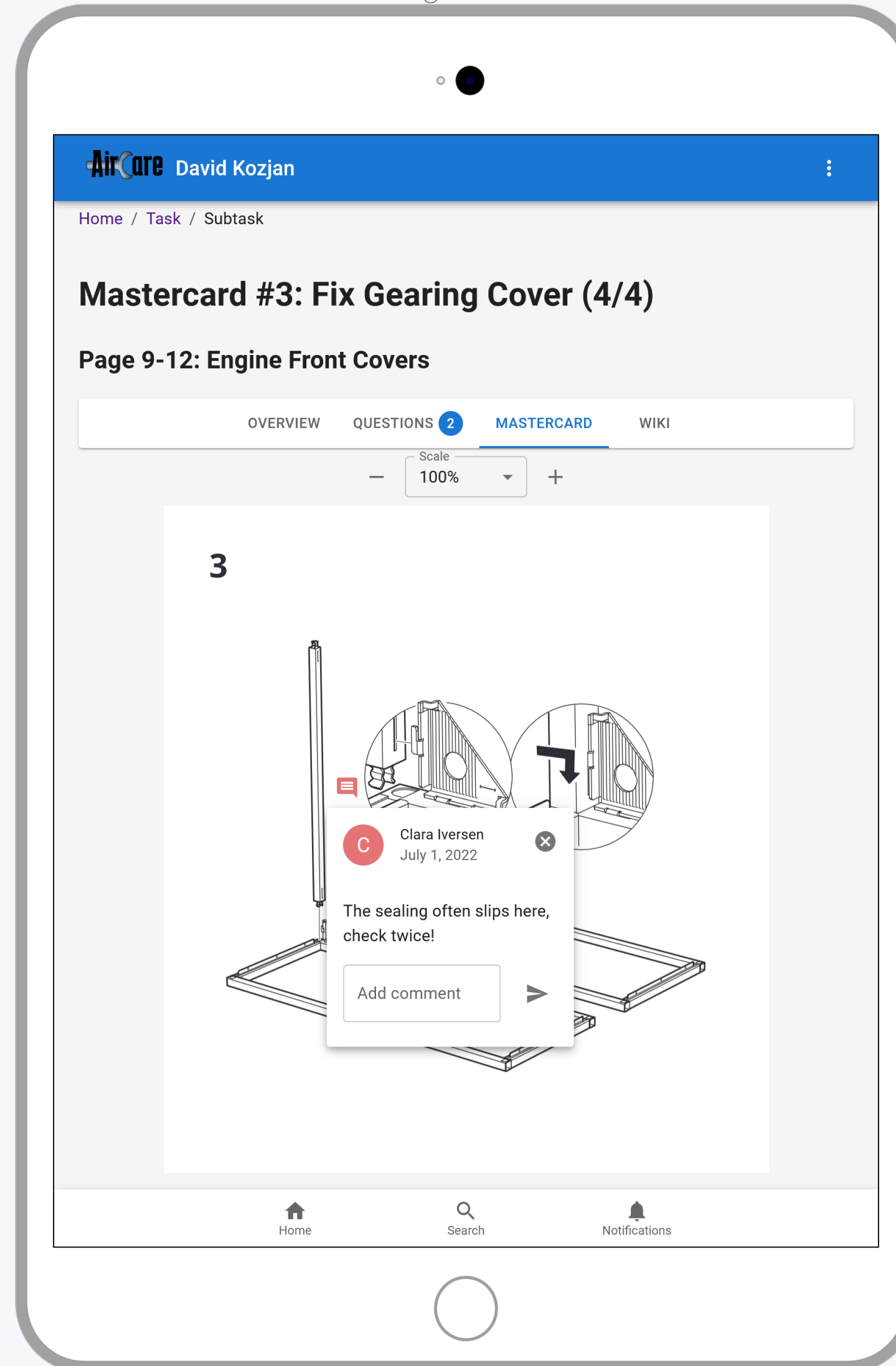
- Each task may contain multiple subtasks with estimated durations
- Workers can be assigned to the task

# Solution – Our App and Core Functionalities

Task Detail Page – Overview Tab



Task Detail Page – Mastercard Tab



In the Task Detail Page, engineers can:

- Find a comprehensive overview over their upcoming tasks
- See the steps involved in the task
- Get instructions for the task
- Find reminders about critical steps and specific measures
- Ask colleagues for help or refer to the Knowledge Hub
- Confirm the completion of a task
- Open the correct Mastercard page automatically from the subtask (in the Mastercard Tab)
- add Mastercard annotations with tips to share knowledge where they think it's needed (Mastercard Tab)

# Solution – Key Value Proposition

Our App compromises 6 key features to guarantee ease of use and the best support possible during maintenance:



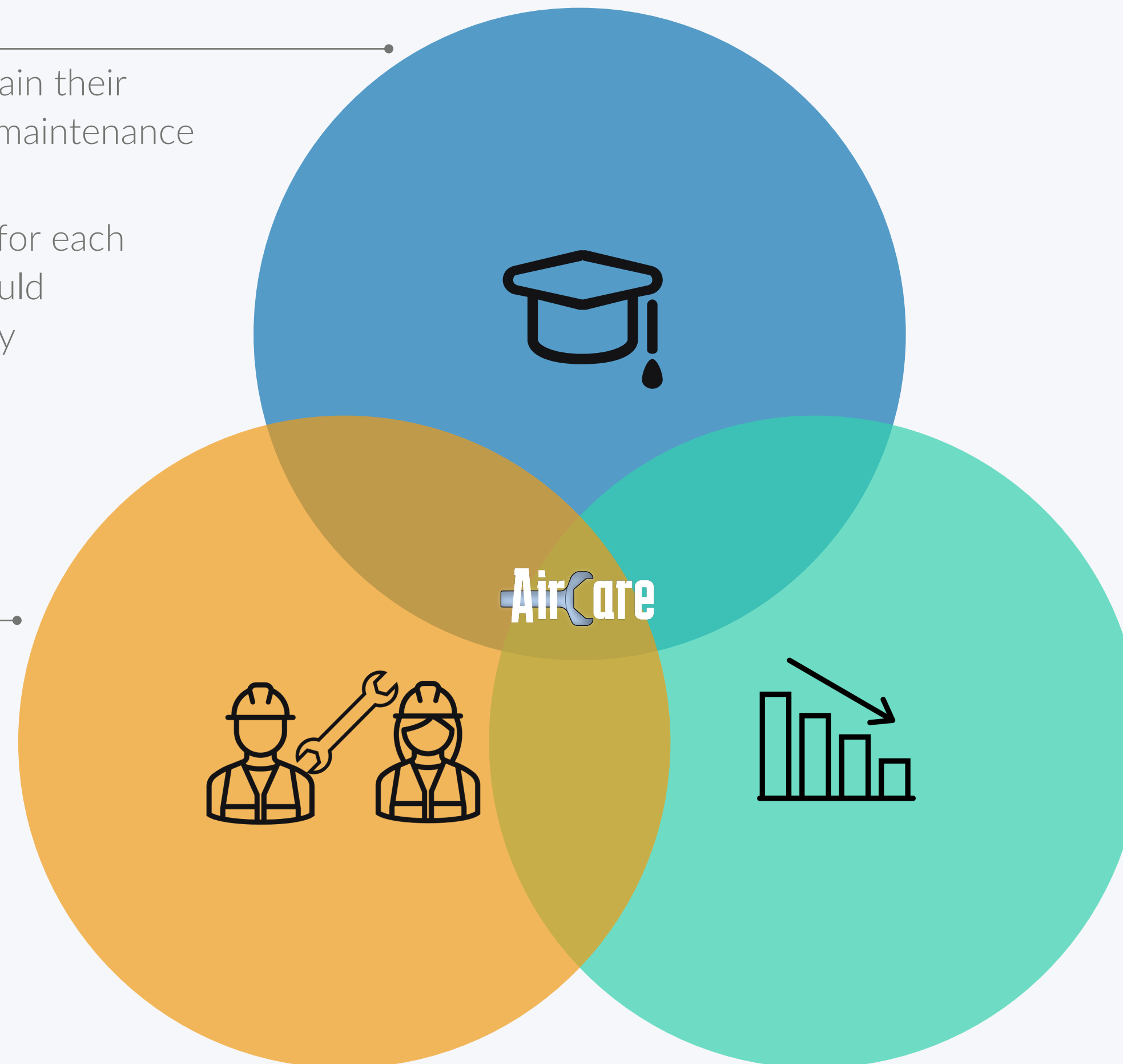
# USP – Minimization of Human Error

## Elimination of Knowledge Gaps

- We can help their mechanics build and retain their knowledge much better than a traditional maintenance manual can
- By providing the most critical information for each task, we eliminate knowledge gaps that could otherwise lead to mistakes during assembly

## Support in Repetitive Tasks

- Mastercards are usually not looked at anymore for repetitive tasks
- By integrating the original maintenance manuals into our App, we can direct the mechanics to the information they need



## Reduction of Part and Instruction Mix-ups

- Most Leakages are caused by human errors during assembly
- Oftentimes, mechanics forget certain instructions or never check for updated manuals
- We can support in identifying the right part and right instruction step during assembly

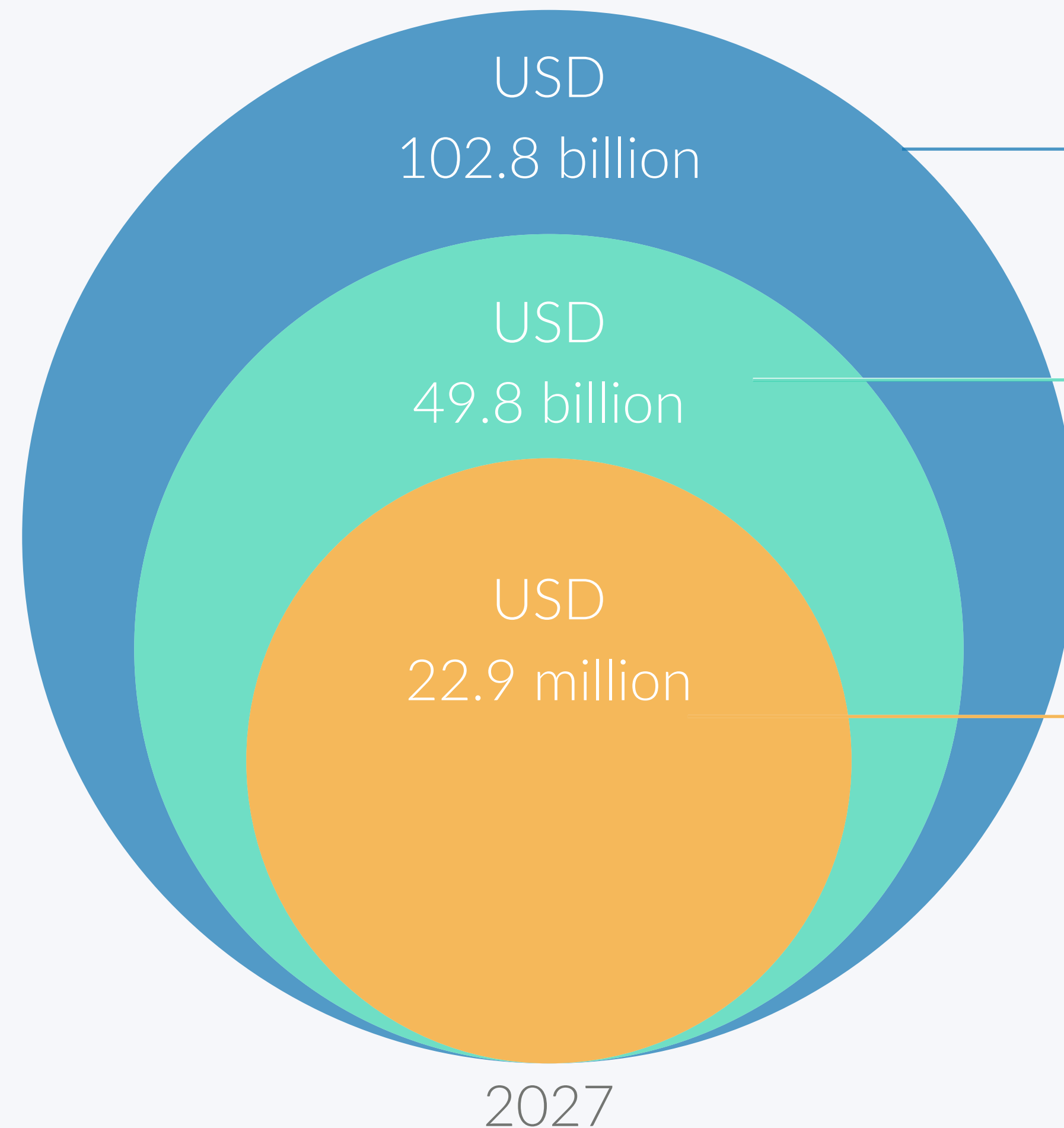
# Competitor



Digitized Maintenance Tracking	✓	✓
Real-Time Process Tracking	✓	✓
Integrated Maintenance Instructions for Check Lists	✓	X
Integrated Mechanics Feedback	✓	X
Data Collection and Analysis	✓	~
IoT Connectivity	✓	X



# Market



## Total Addressable Market

- Global MRO Market
- Growth Potential 2022-2032: ↑ 61.5%

## Service Addressable Market

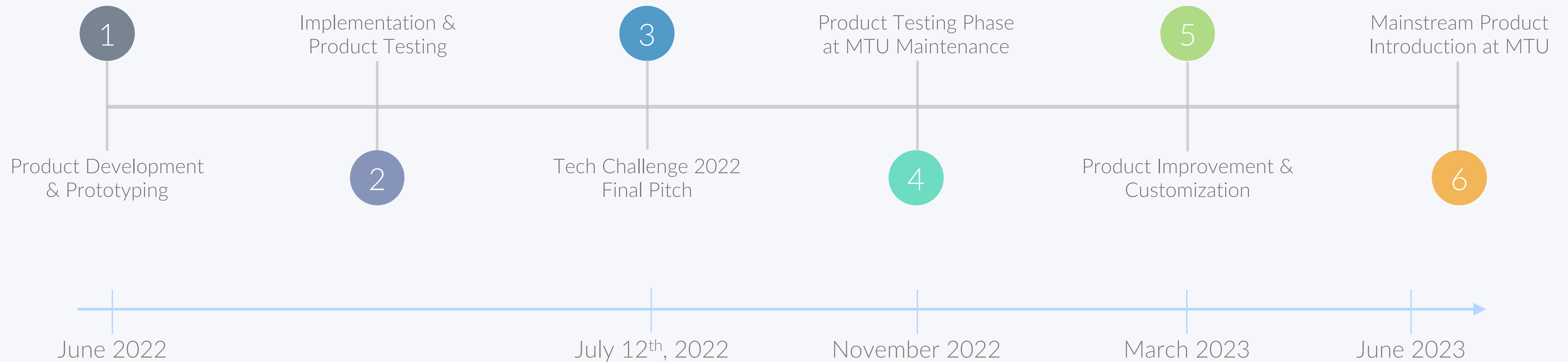
- MRO Segment: Aircraft Engine Maintenance
- Growth Potential 2022-2032: ↑ 91.8%
- 48.4 % share of TAM

## Service Obtainable Market

- Air Care Market Share
- 0.5% share of expected MTU Maintenance Market Revenue
- 0.05% share of SAM



# Project Roadmap





## Meet our Team



Maximilian  
Geitner

M. Sc. Informatics

-  
Application  
Developer



Lutian  
Zhang

B. Sc. Information  
Systems

-  
Customer Success  
Manager



Clara  
Iversen

M. Sc. Consumer  
Science

-  
Project  
Manager



Maximilian  
Pfleger

M. Sc. Information  
Systems

-  
Product  
Manager



Felix  
Neumeyer

M. Sc. Informatics:  
Games Engineering

-  
Application  
Developer