

DIAMOND

Digital Intelligent Assistant for Predictive Maintenance









Challenge

• Predictive maintenance (PdM) is information-intensive

- Applying PdM requires employees with
 - data science skills and/or
 - competencies in using PdM software
- >Acquiring skills and competencies is costly





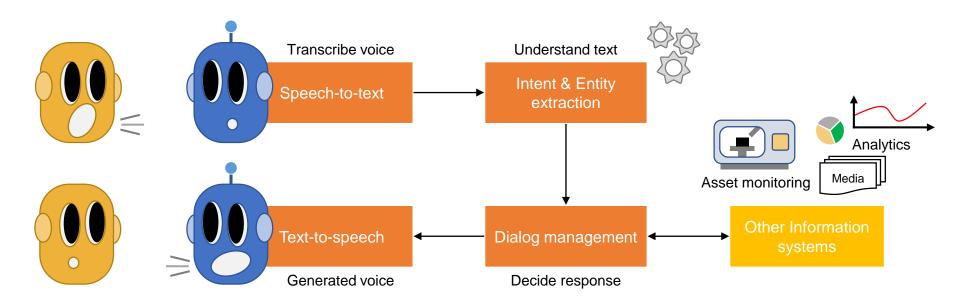


Solution

*s*tryker[®]

Whirlpool

- Digital Intelligent Assistant for Maintenance
 - Employees interact with PdM software via voice-first
 - Fast, intuitive, and potentially hands-free
 - Split complex tasks into many simple tasks









Solution architecture

1

BASIC FUNCTIONS

Help Repeat Capabilities Paraphrase Greet

For minimum use

2

UTILITY FUNCTIONS

Alerts
Timers
Stopwatch
To-Do Lists
Check lists

For frequent general tasks

3

MAINTENANCE FUNCTIONS

Monitoring processes
Task execution
Reporting
Problem solving
Maintenance planning

For domain specific tasks







Features and conversation snippets

Machine fluid management

- Detect outliers in historic data
- Check if added volume is outlier
- Predict how much fluid to refill





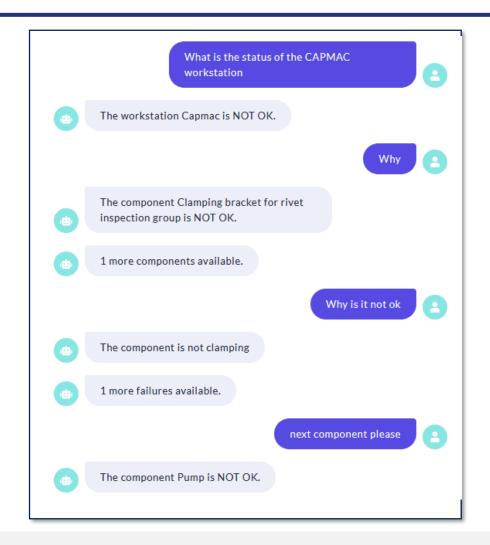




Features and conversation snippets

Root-cause analysis

- Check machine and part health
- Get maintenance documents









Benefits

Reduces the time to access maintenance information

Provide intuitive interaction with PdM software

Usable by maintenance coordinators and technicians







Digital assistants matter!

Voice assistants and chat bots are among the fastest growing digital tools. They will play a substantial role for leveraging Artificial Intelligence at home and at work. Digital assistants offer potential to integrate less skilled employees in high-value, knowledge-intensive work.



In 2017, Accenture interviewed 352 CIOs and CTOs. **Only 3%** indicated they use chat bots in manufacturing



74% of the 18-24 years old used a voice assistant



The market for Enterprise Digital
Assistants will grow to 8.9B USD in 2025



