

Company Background

Northrop Grumman is a leading global security company providing innovative systems to customers worldwide.

Our project lies in the Mission Systems sector, which creates military radar, sensors, and battlefield surveillance systems.

Opportunity



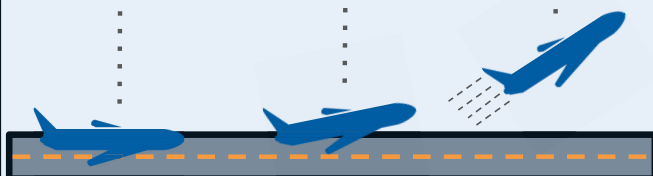
Line Manager
Northrop Grumman

The maintenance done is **95% reactive** and only **5% preventive**.

Standardize data collection to facilitate predictive model

Streamline workflows of maintenance stakeholders

Develop a prototype of a centralized database



Process Improvement

Current State

Heavy separation of preventive and reactive maintenance

Manual transfer of data from SharePoint to SAP

Limited visibility of maintenance actions among stakeholders

Ideal State

Merge reactive and preventive maintenance processes

Automatically transfer data from O.H. Database to SAP

Increase transparency of maintenance process for all stakeholders

Impact

\$510,000

yearly savings

2,600

man hours relieved



Increased stakeholder communication



Increased data transparency

Future Predictive Capability

Method



Diagram current process and identify bottlenecks and problem areas



Develop database schema to eliminate bottlenecks



Iterate database with stakeholder feedback

Deliverables

Web Application

Displays SAP data in user-friendly format

Organized based on stakeholders



Dashboard



Database

Reads maintenance orders from SAP

Writes technician actions to SAP

Secondary Recommendations

Short-term

Long-term

Remove SharePoint database

Train maintenance stakeholders

Hire technicians based on data insights



Archive current maintenance data

Use new data to create predictive failure model



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