Temasek Defence Systems Institute



Operation Model for Rapid Response to **Unscheduled Aircraft** Maintenance

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Introduction

- Aircraft-On-Ground (AOG) events are random and unpredictable. Its impact associated with financial losses, service disruption and reputation tarnished
- · Airlines and MROs design their service organisation to respond to AOG. Many has built in redundancies to absorb unpredictable events, but not necessarily cost efficient

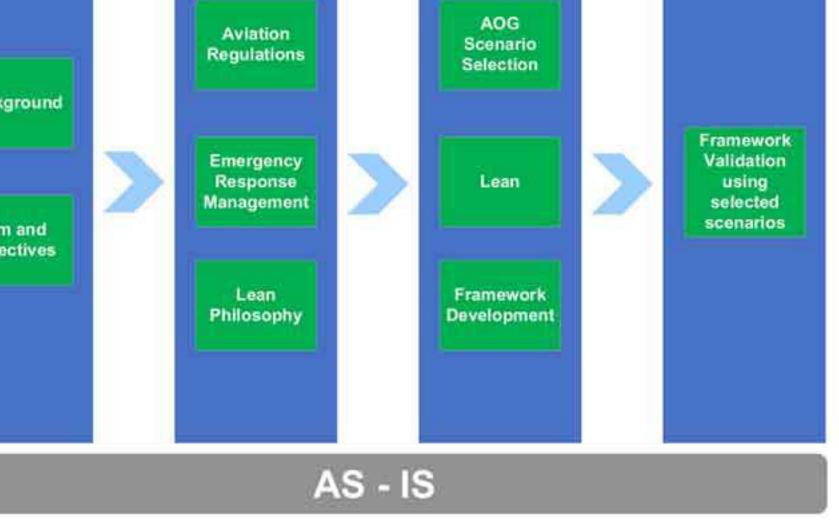


Aim & Objective

- To develop a framework that serves as a checklist for AOG service providers to review their Aim existing AOG response services in terms of process and planning
- Objectives To identify best practices through review of existing AOG services being offered as well as emergency response processes and/or models from other domains
 - To create fictitious Company ABC as representative research case study
 - To apply Lean concepts to improve existing AOG response in terms of process and planning

Methodology

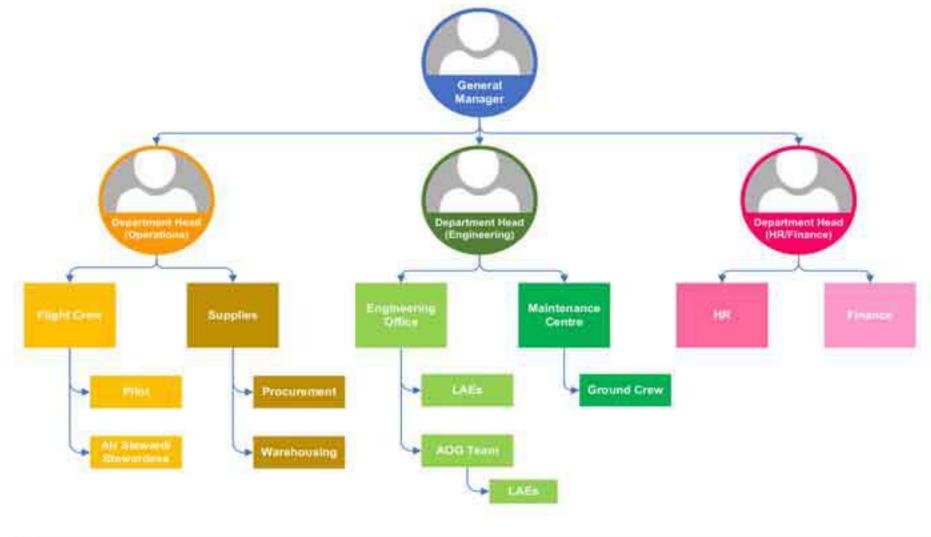






- Predict
 - Preventive Maintenance
- Prepare
 - Ground coordination works
- Plan
 - Long-term strategic planning
- Partnership
 - Forming alliance

TO - BE



Conclusion

- · Framework provides a mean to evaluate existing AOG response processes
- Together with Lean concepts, framework facilitates the restructuring of work processes and business structure

Recommendations

- Validate practicality of framework using actual company information
- Extend usage of framework to scheduled aircraft maintenance

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