

PROBLEM TITLE

Designing an Information Management System to Solve Big Problems

CHALLENGE

452nd Air Mobility Wing personnel need a more efficient process to track and share data on Continuous Process Improvement projects in order to reduce labor redundancies and maximize effective resource use.

BACKGROUND

The 452nd Air Mobility Wing (AMW) consists of twenty-three squadrons representing all military services. For the past six years, 452 AMW personnel have used Lean Six Sigma tools and methodologies to execute Continuous Process Improvement (CPI) and innovation projects. As the Lean Six Sigma student body grows, it is crucial to establish a sustainable system that tracks and shares data between students to support efficient project execution.

Lean Six Sigma is an eight-step process designed to identify, evaluate, and solve problems through careful analysis, planning, and execution. Students are introduced to the process's tools and methodologies first. These students, the 'green belts,' obtain a certification upon completing a project that solves wing and unit process problems. A student earns their 'black belt' when they complete an enterprise-wide project, meaning their project met the needs of multiple squadrons.

Nearly 100 students have taken a Lean Six Sigma course at 452 AMW thus far. Currently, there is no method in place that tracks information about past or ongoing projects, including their subject, relevant progress, or key stakeholders. As more students begin their projects, they run the risk of duplicating efforts and wasting resources if an existing project has already met part of their needs. It is crucial for students to contribute to and draw upon a shared repository of information to streamline Lean Six Sigma project workflow and improve decision-making for senior leaders.

OPERATIONAL CONSTRAINTS

- Must be compatible with both the Unclassified-but-Sensitive Internet Protocol Routing Network (NIPRNET) and Classified-Sensitive Internet Protocol Routing Network (SIPRNET) used on base.
- Must be extendable to be used in different environments, such as a virtual private network (VPN) or on a mobile app, for permissible information.

PROBLEM SPONSOR

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PROBLEM SPONSOR LOCATION

March Air Reserve Base, CA

SENIOR LEADER

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