Logistics Readiness Center Decision Support Tool Helps Improve Readiness

SITUATION

The U.S. Army has 73 Logistics Readiness Centers (LRC) located in the United States, Europe, and East Asia. The fundamental mission of an LRC is to ensure installation readiness and perform logistics activities. The Army Sustainment Command (ASC) has direct responsibility for managing the LRCs.

The LRCs integrate and synchronize ASC capabilities in support of senior commanders and installations. An LRC serves as a single hub and is responsible for managing installation logistics, which include supply, maintenance, transportation, food service, ammunition supply, clothing issue facility/clothing initial issue point, hazardous material, bulk fuel, personal property/household goods, passenger travel, non-tactical vehicles, rail, and garrison equipment.

ASC desired a decision support capability to improve efficiency and increase readiness in the face of continual budget cuts. ProModel Corporation (the subcontractor) executed a proof-of-concept (POC) that developed an initial capability. The scope of the trial project focused on the 407th AFSB.

OBJECTIVE

- To demonstrate how ASC at the enterprise level and LRCs at the tactical level can manage their capabilities and resources while maximizing efficiencies

- To provide ASC and its subordinate commands with an analysis and evaluation of the most effective and efficient courses of action (COAs) for LRC operations.

RESULTS

The proof of concept provided decision support that revealed a potential cost savings of over $300,000 in one fiscal year in just one shop at one LRC. Given the uncertainty in both the Army's worldwide commitments and the budget environment to support them, the use of leading edge, low-risk decision support tools are critical to the Army's decision-making process. ASC and AMC continue to leverage decision support to forecast requirements

Workflow and Critical Functionality

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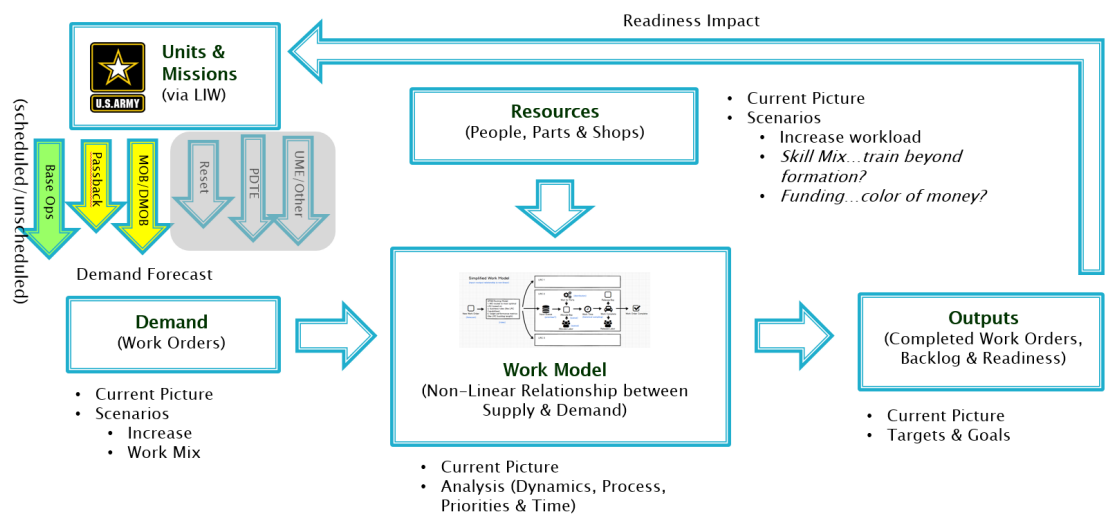
and seek greater efficiency while sustaining and improving readiness. The use of a model based platform to manage the LRC maintenance and food service operations now and into the future will provide ASC and the Army critical capability to generate Army readiness and truly lead from the front.

SOLUTION

ProModel developed a solution set that enabled analysis of five (5) maintenance value streams (Automotive, Combat/Heavy Equipment, Special Purpose Equipment, Armament, and Communications/Electronics) of nine (9) LRCs assigned to 407TH AFSB.

The following scenarios can be studied with the solution:

1. Work loading and dynamic capacity across the 407th LRC enterprise
2. Recommend standardization of processes across designated LRCs
3. Define and quantify the impact of Centralization or Regionalization of LRC efforts
4. Identify opportunities to reduce cost and predict impact on service level
5. Predict impact of variable demand based on drawdown and changes in Force Structure
6. Determine required FTE's for LRC logistic support mission in designated maintenance value streams
7. Determine possible efficiency gains within LRC support operations (i.e. shop or facility layouts)
8. Identify supply shortages workload impacts to the service support processes
9. Determine mean time by outputs for different scenarios (i.e. Turn Around Time, customer waiting times, and customer support times)
10. Determine feasibility of integrating the model into an enterprise system applying the data resident in LIW and other logistics domain information source
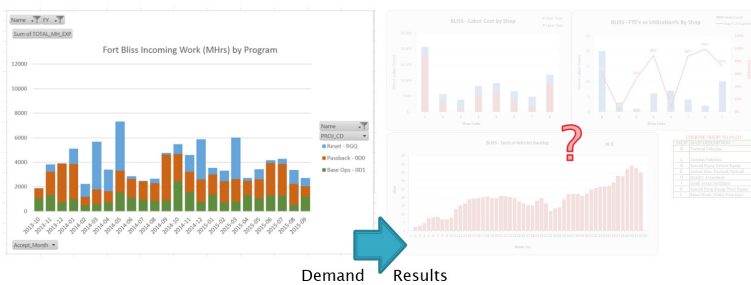
Example Decision Support Scenario Set 1

Scenarios – Only Base Ops

If Fort Bliss only had to do Base Ops work, how many people would they need and what would it cost to hit they target KPI?

Demand   Results
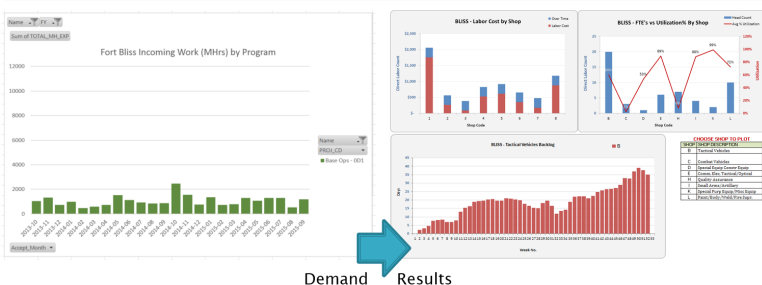
Scenarios – Base Ops + Reset & Passback

How does adding Reset & Passback change the story?

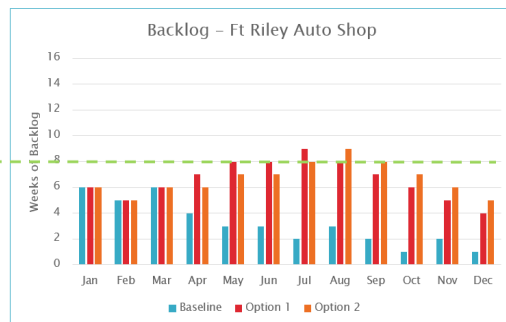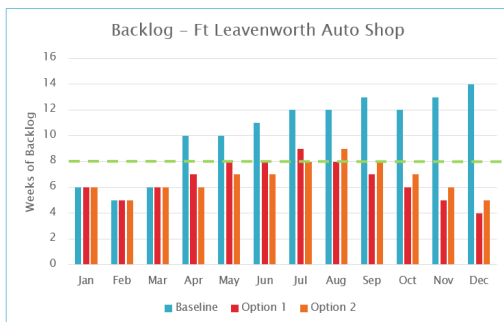Demand   Results

Example Decision Support Scenario Set 2

Scenarios – Work Transfer

Option 1:
Send X% of the work from Ft Leavenworth to Ft Riley. Cost $X million.

Option 2:
Send X number of mechanics from Ft Riley to Ft Leavenworth. Cost $Y million.

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