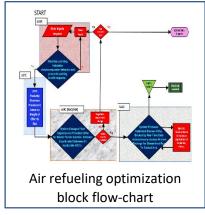


## **Air Refueling Optimization**

**Project Summary:** The concept of air refueling optimization refers to opportunities across the air refueling enterprise for modernization using machine-learning and automation. Our current A/R Enterprise systems lack a key attribute: optimization algorithms that provide a range of strategic decision space (both in planning and in real time execution) while not relying on user knowledge, expertise, or 'rules of thumb.' Commercial market research indicates optimization software readily exists which can pull



proprietary data from multiple systems to include real-time weather and flight restriction resources to minimize the number of A/R assets needed to accomplish a requested mission, manage fleet capacity, and maximize leadership decision space.

**Benefit:** Modernization opportunities exist that the current A/R planning systems lack: optimization algorithms that provide a range of strategic decision space (both in planning and in real time execution) while not relying on user knowledge, expertise, or 'rules of thumb.

**Duration of project:** FY21 – FY22

Participants: Air Mobility Command

**Project advocacy (funding or otherwise):** United States Transportation

Command