Dynamic Software Solutions™

Mission Planning

OVERVIEW

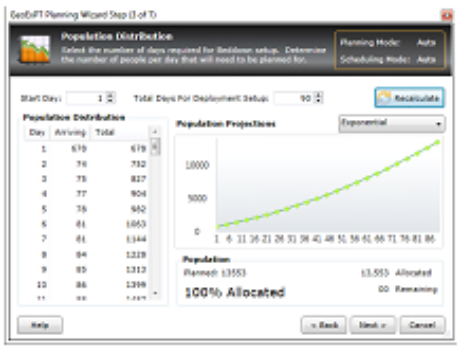
Tools for Military Planning and Civil Engineering Communities

DoD mission planners across all services provide warfighters with the world's best mission planning capabilities needed to plan and execute missions. DS2 software engineers are experienced in mission planning systems for ground, maritime, and air operational domains. DS2 personnel designed and developed Defensor Fortis to support the airbase defense mission, developed software for the Navy's Landing Craft Air Cushion (LCAC) vehicle, developed the Basic Expeditionary Airfield Resources Order of Battle time-phased planning visualization tool for facility modeling and beddown planning, and have been involved in the development of USAF mission planning software for over a decade.

DS2 current and past mission planning projects have included:

- Geospatial Expeditionary Planning Tool (GeoExPT) with Joint Construction Management System (JCMS)
- Airfield Pavement Evaluation (APE)
- Airfield Damage Repair (ADR) Analysis
- Installation Recovery After Attack (IRAA)
- Rapid Airfield Damage Assessment System (RADAS)
- Basic Expeditionary Airfield Resources (BEAR) Order of Battle (BOB) Planning Factors

DS2 is presently in advanced development of the USAF Geospatial Expeditionary Planning Tool providing additional integration of a common geospatial data baseline for DoD's Joint Construction Management System; re-engineering the Air Force's airfield pavement evaluation process; designing and developing software to assist in the recovery of an installation after an attack from non-friendly adversaries; integrating advanced robotics into the Air Force airfield damage assessment and rapid runway repair processes; and implementing the DoD Architectural Framework for evolving mission systems.



FLIGHT MISSION PLANNING

Helping the Warfighter with Critical Strategic Planning

Mission Planning for the Air Force is an essential task that involves the analysis and development of flight plans relevant to targets, terrain, weather, aircraft configuration and performance capabilities. This includes planning for cargo, weapons, fuel requirement calculations, and route assessment based on location and type of enemy threats that may be encountered. Plans are reviewed and briefed by mission planners to achieve maximum effectiveness and efficiently prior to downloading the mission to on-board aircraft avionics.

We have the knowledge and experience with Air Force mission planning products, toolsets, libraries, and frameworks including:

- Portable Flight Planning Software (PFPS)
- Execution Planning Software (XPlan)
- Joint Mission Planning System (JMPS)
- FalconView

At DS2, our staff has had a close working relationship with Air Force mission planners and have been involved in the development of various components of Portable Flight Planning Software (PFPS), Execution Planning Software (XPlan), and the Joint Mission Planning System (JMPS) over the last 15 years. In addition , we have been involved with Army and Air Force Installation Geospatial Information and Services (IGI&S) from the outset of those programs, specializing in custom geospatial applications development, training, deployment, and support.

Hands-On Integration and Development Experience