MONTEREY TECHNOLOGIES, INC.

HUMAN ENGINEERING | SW DEVELOPMENT | SYSTEMS ENGINEERING

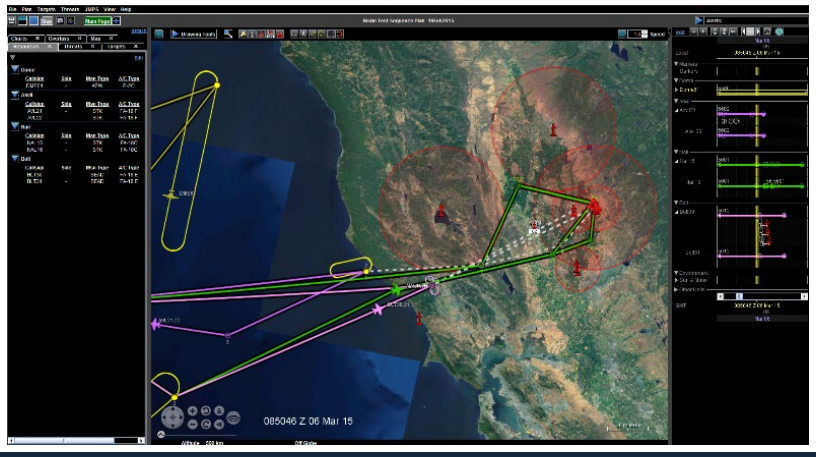
Visualization, Planning, Execution, and Review (ViPER)

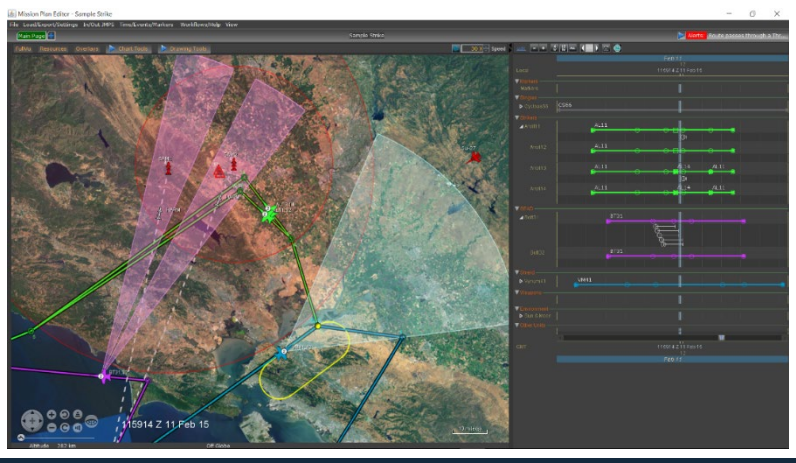
Collaboratively Create and Easily Distribute Effective Mission Plans

The most significant constraint planning teams have is time. Planning for multiple assets such as aircraft, ground forces, and unmanned vehicles is complex. Many planning teams still use manual tools such as paper maps, Excel spreadsheets, and PowerPoint briefings to develop and analyze plans. This is time consuming, tedious, and error prone. Teams need integrated information and situational awareness to rapidly develop robust plans.

MTI develops the ViPER suite of mission planning tools. ViPER brings together plan considerations from multiple sources, displays the integrated information in familiar, easy-to-use geographic and temporal formats, and allows planning teams to collaboratively plan in an electronic map. ViPER digitally exports critical planning products (e.g. events schedules, decision briefs, tasking orders) to other systems, saving significant time and allowing planners to focus on creating higher quality plans. Key features:

- Rapid course of action (COA) sketching in an electronic map
- Imports and integrations avoid tedious data entry (e.g., threats, targets, overlays)
- Intelligent Planning Assistant identifies errors and conflicts
- Interfaces with sensor, weapon, and vulnerability algorithms to rapidly refine plan
- Automatically generates Decision Briefs and Mission Briefs
- Planning product generation such as event schedules and synch matrices
- Containerized, open architecture for rapid development of additional domains, platforms, sensors, weapons
- Designed for interoperability and integration with other systems





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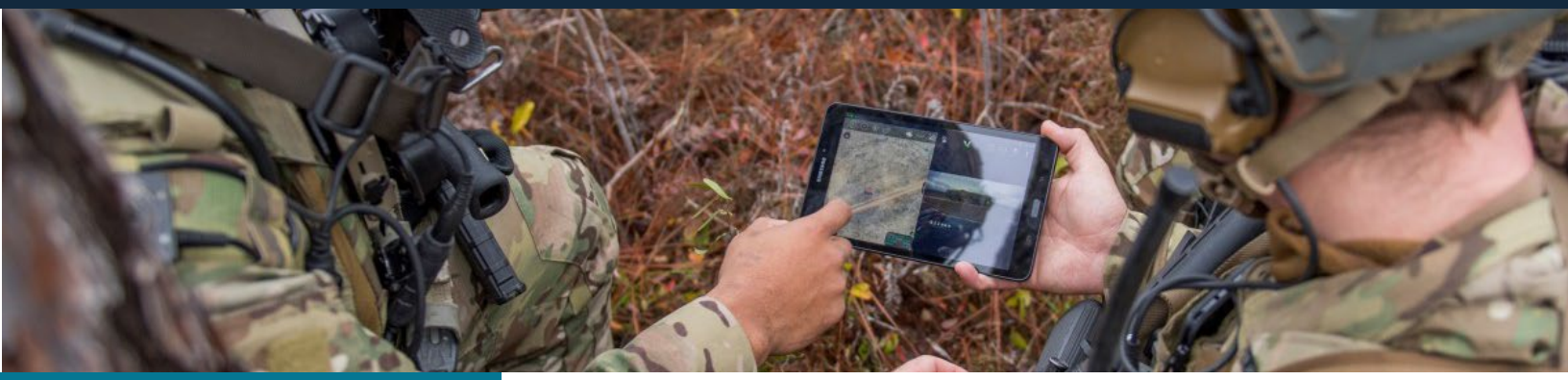

KEY PROJECTS

USSF / SciTec – MDPAP
USN & USAF – NOMS/JOMS
USAF / Tapestry – JMPS WPS
USAF – WPS SBIR
USN – LCAC Mission Planner
USA / BAE – OMFV
USAF / NGC – EPS-CAPS
RAAF (Aus) – E-7A Wedgetail
DOT FRA – UCD-Rail

CONTRACT VEHICLES

NASA VLTD & RVLTD
FAA / CS SETIS
GSA MAS

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MTI's User-Centered Engineering Approach

Monterey Technologies, Inc. (MTI) specializes in agile, user-centered systems engineering to maximize mission success. Key tenets of this approach include:

- Considering the needs of all stakeholders and fully understanding the problem space
- Experimenting with innovative solutions that take advantage of state-of-the-art technological capabilities and human factors research through rapid prototyping, learning, and adapting quickly
- Emphasizing delivering value iteratively and often; minimizing non-value-added effort
- Empowering collaborative, cross-functional teams with shared decision-making and problem-solving
- Incorporating of technical and non-technical solutions for a total system approach – crafting impactful design solutions to meet stakeholder and business needs across the lifecycle
- Continuous learning about stakeholders, problems, and solutions, applying knowledge to strategically shape solution roadmaps to deliver long-term and short-term value

Our holistic approach spans the system development lifecycle from concept creation to solution validation. It relies on proven practices from across DoD and commercial industry to uncover stakeholder needs, deliver highly usable solutions, and validate mission effectiveness iteratively and often. We incorporate state of the art digital engineering approaches including modeling integrated human-system performance, reducing risk and enhancing design.