# DECISION SCIENCES INC.

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### **INDUSTRIAL BASE OPPORTUNITIES**

Greater Visibility into the Defense Industrial Base (DIB)

- Enhanced Collaboration with Government and Industry
- >An Environment that Improves Supply Chain Resilience
- A Government and commercial system with data to perform supply chain analysis
- >The ability to utilize data and a system to Mitigate Risks
- >Understanding of manufacturing minimum and maximum sustainment rates



### **DECISION SCIENCES INC. (DSI)**

Established in 1986

- Small Tech Company Headquartered in Fort Walton Beach, FL
- Awarded Numerous DoD and Commercial Contracts
  - Multiple SBIR/STTR
  - > 4 Consecutive 5-Year Sole Source Army IB Efforts
- DSI Developed Industrial Preparedness Planning System of Record for Industrial Base Analysis

Sponsored by the U.S. Army, Navy, and Office of Secretary of Defense (OSD) and fully supports the Joint Munitions Command (JMC)



OSD - IBAT is the Gold Standard for How to Perform Industrial Base Analysis

### **INDUSTRIAL BASE ANALYSIS TOOL (IBAT)**

- > Developed in 1990's with the Lean Aerospace Initiative
- Created a system with MIT utilizing agile and lean manufacturing
- Focused on supply chain visibility for Government and Industry
- > Highlights supply chain shortages and risks
- In 2003 -began creation of a digital twin of ammo and munitions supply chain for the Joint Munitions Command
- > Has been the program of record for 20 years.



### **IBAT SYSTEM OVERVIEW**

- ➢ IBAT System Includes:
  - Manufacturing and Facility Information
  - Inventory and Demand Data
  - Attribute Data
  - > Metrics
  - > Reports
  - Generated Output
  - Production Source Data —

Information from End-Items to Rare Earth Minerals

Originates from Military Source Repositories from the Services

NIIN, DODIC, NSN, Pictures, Suppliers, Services, PM, CAGE codes, and more

Watch List, Single Point Failure, Foreign Source, Key and Critical Designations

Custom Reports, Quad Charts, Detailed Cut-away Charts, and more

Graphical Networks, Demand Parameters, Schedules and Due-ins, Inventory, Analytics (dynamic networks, advanced filtering, chokepoint analysis, and more)

Manufacturing Capabilities, Lead-Times, Cold and Warm Production Lines, Surge and Baseline Production Rates

Integrated into Comprehensive Industrial Base System

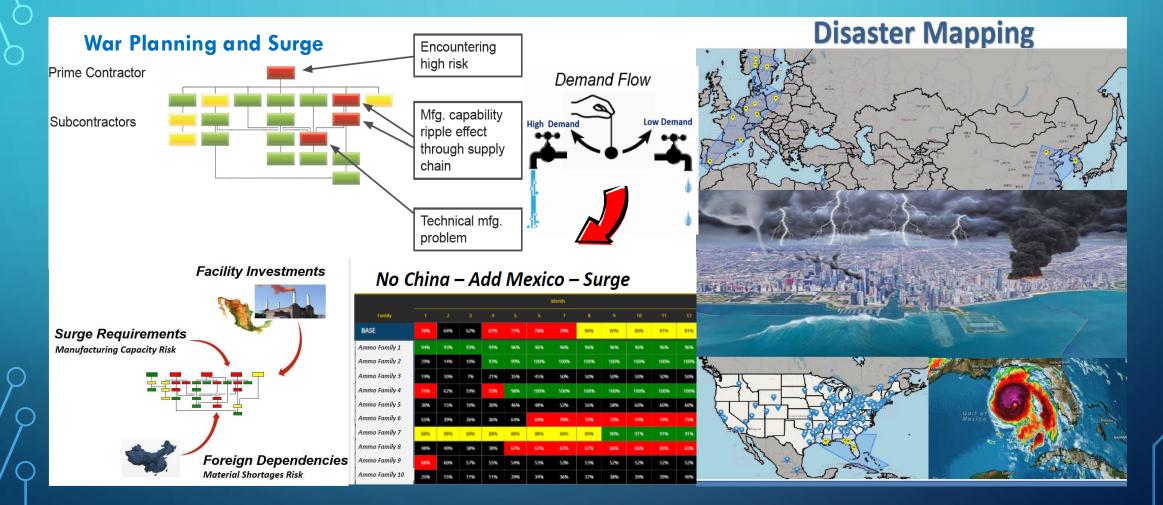
### **IBAT CAPABILITIES**

### KEY INFORMATION ON SUPPLY CHAIN INCLUDES:

- ➤ Lead times
- Production rates
- ➤ Capacities
- Critical bill of materials
- Supplier location disaster mapping
- Risk analysis war planning & surge



### IBAT ANALYSIS & SUPPLY CHAIN RISK IDENTIFICATION



## **IBAT DEMONSTRATION**

### **IBAT SUCCESS STORIES & FUTURE TRANSITION**



Approved for public release

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### **GOAL FOR IBAT**

Leverage decades of DOD investment and continuous improvement to develop an enterprise wide Supply Chain Digital Twin connecting critical systems across the joint command.

### MORE PROJECTS ON THE HORIZON

Commercial Portal
 IBAT Commercial and DOD
 Missile and Munitions Sectors

Aircraft Sector – COMFRC Supply Chain Submarine Sector

Space



### **THANK YOU!**

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