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Headquarters U.S. Air Force

Integrity - Service - Excellence

Technology/Automation for Munitions Management



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9 Oct 2017

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Overview

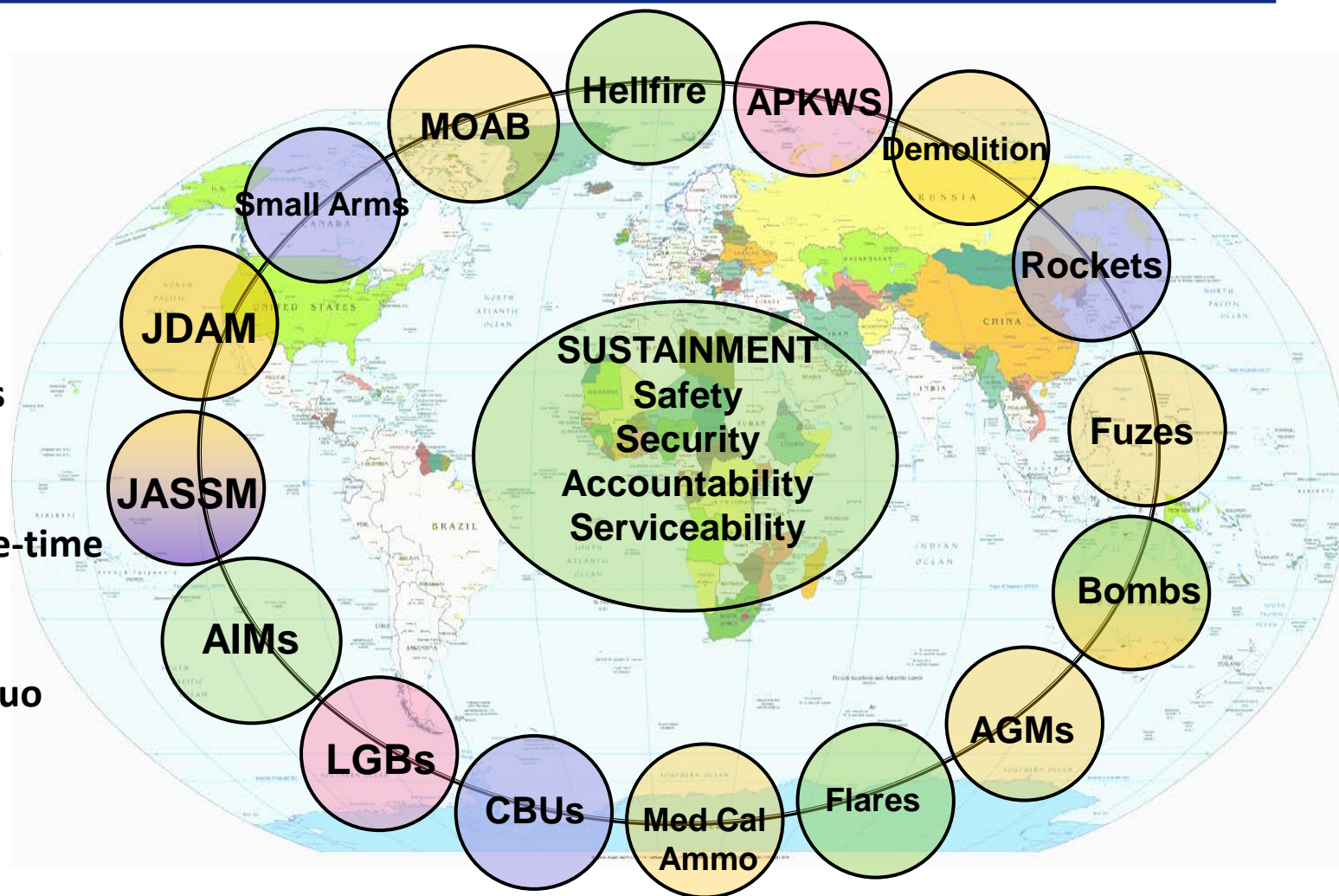
- 🔦 Issues/Challenges
- 🔦 Benefits
- 🔦 Opportunities



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Issues/Challenges

- Large, diverse stockpile (single bullets to PGMs/Missiles)
 - Safety ... Variables based on explosives/chem effects
 - Security ... Very high risk, pilferable, controlled inventory
 - Accountability ... 100%
 - Serviceability ... Confidence to users
- Acquisition
- Long lead times, stringent rules, one-time use items
 - Sustainment concepts not always addressed leading to static/status quo approach



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Benefits

Technology and Automation are key enablers to munitions sustainment activities/objectives

ENABLERS

- Total Asset Visibility
- In Transit Visibility
- Item Unique Identification (IUID)
- FIAR
- Health Monitoring
- Automation
 - Munitions Integrated Tablet
 - IUID
 - Integrated Business System

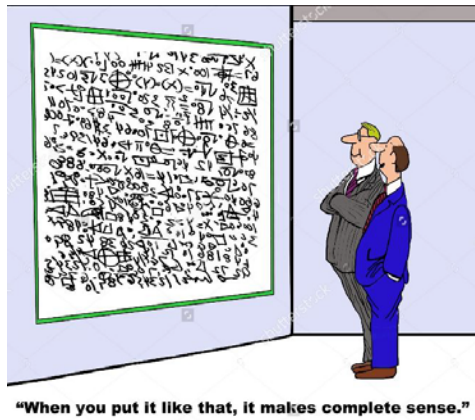
MANAGEMENT OBJECTIVES

- Safety
- Security
- Accountability
- Serviceability

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Operational Experience



■ Current Operational Experience

- Log into 8 systems 20+ modules resulting in excess hours to support day-to-day tasks
- No single source for core logistics records
 - Health, monitoring
- Decisions based on incomplete, inaccurate, unreliable and untimely data (e.g. Whiteboard calculations, excess inventory)

■ Desired Operational Experience

- Single munitions enterprise system
- All the information needed to make decisions
- Ability to add modular capabilities (sensors, data loggers, gps, etc)
- Total asset visibility for all items
- Agile Methodology; No cumbersome CSRD process





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What do we need?

- 8 **FIAR/DLMS compliant system(s) ... achieves Congressional/OSD mandates**
- 8 **Scan capability (connected/disconnected) ... reduced errors/increased efficiency**
- 8 **IUID and Ownership/Purpose Code ... OSD compliant/accurate CFO reporting**
- 8 **Joint use/Reusability ... increases Joint Logistics interoperability/support**
- 8 **Foundation for autonomous technology (temp, humidity shock, location) sensors**
- 8 **Responsiveness to requirements (modular) ... rapidly adjust changing environment**
- 8 **Capability to interface with DoD/AF supply chain ... interface with suppliers, JS/OSD**
- 8 **ITV/TAV; USTRANSCOM integrated ... accurate delivery time/status**
- 8 **User customizable dashboards ... process improvement**
- 8 **Improved command and control ... worldwide posture/capabilities**
- 8 **Print and scan from Munitions Integrated Tablet ... efficient inventories/movements**
- 8 **Improved real-time accountability ... improved contingency planning/capability reporting**
- 8 **Improved safety ... full visibility = reduced explosives movements**
- 8 **Never legacy; core constantly updated ...**



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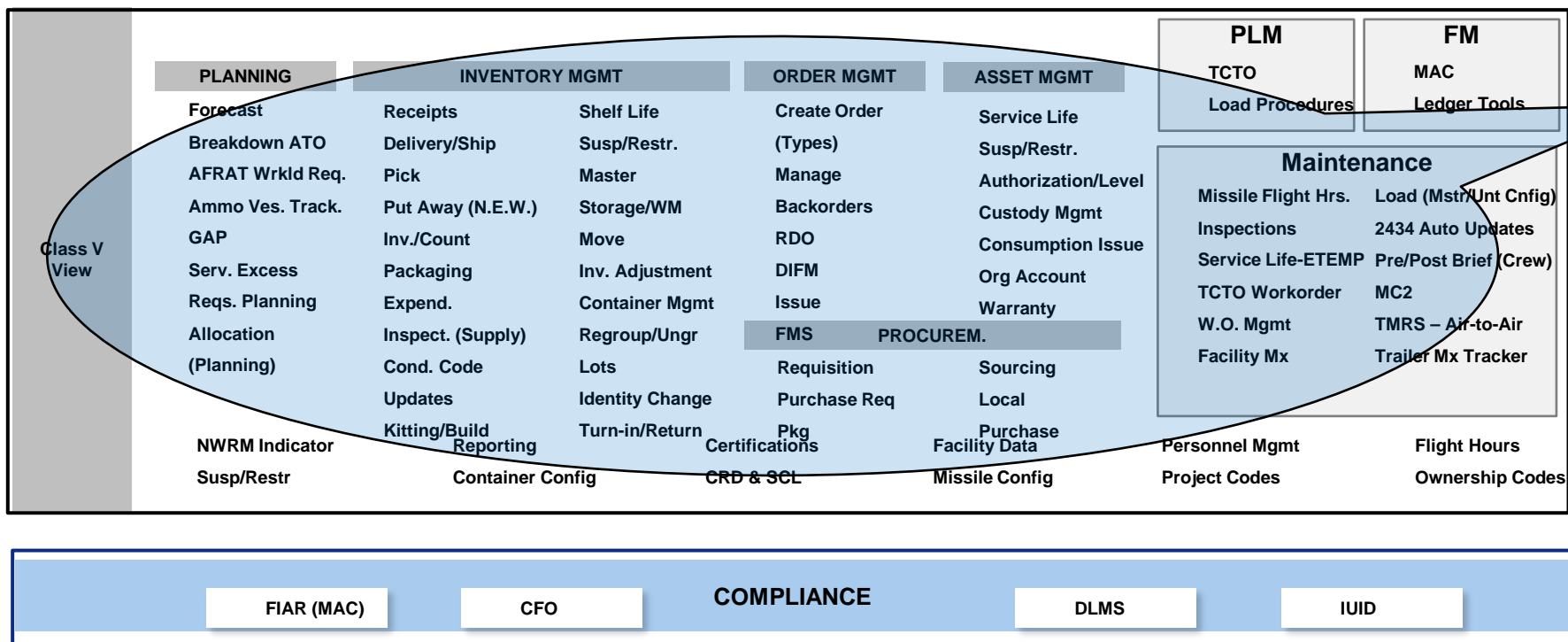


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Process Touch Points

Opportunities

Constantly assessing technology/automation for injection into our existing processes?



Ideally, technology will link/enhance many of these functions resulting in improved efficiency and mission performance



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Questions