

Enterprise Lifecycle Investment Management

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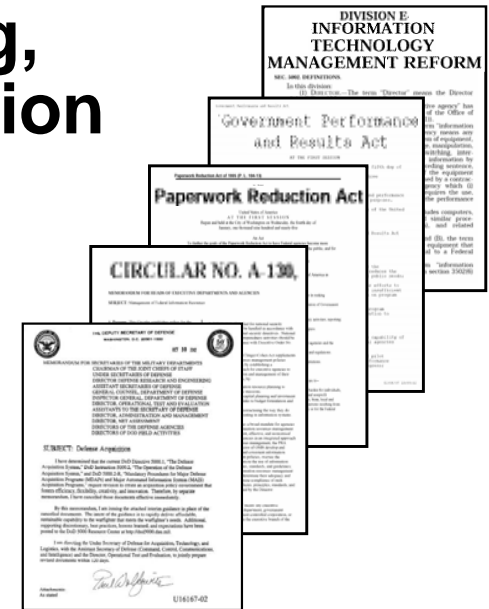
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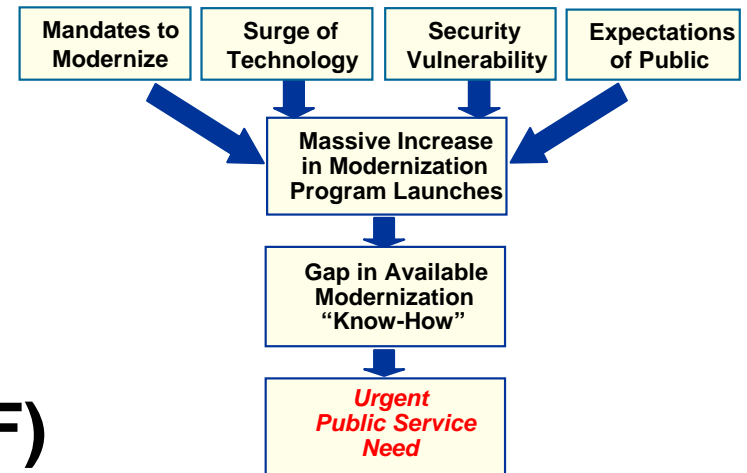
Problem

- Federal agencies must make sound, results-oriented resource allocation and investment decisions across the full investment life cycle.
- Federal guidance—including OMB’s revised Circular A-11 and DoD’s new Planning, Programming, Budgeting, and Execution (PPBE) process—now requires a capability-based capital planning and investment control process that is linked to current and target architecture products.
- Thus, there is a strong need for an analytically based decision-making process that is consistent with the organization’s existing enterprise architecture framework.

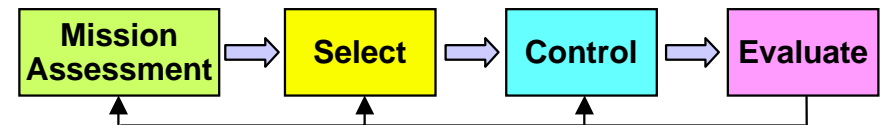


Background

- Center for Enterprise Modernization (CEM) is seminal in the development and implementation of enterprise architecture frameworks (e.g., TEAF, FEA-F) for government agencies.



- Center for Acquisition and Systems Analysis (CASA) is the home for analysis of investment strategy processes, methods, and tools (e.g., PALMA™).



- Together, these resources provide a foundation for creating a powerful Enterprise Life Cycle Investment Management “Toolkit.”

Objectives

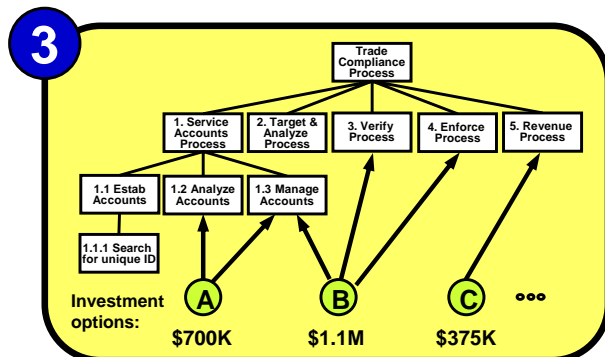
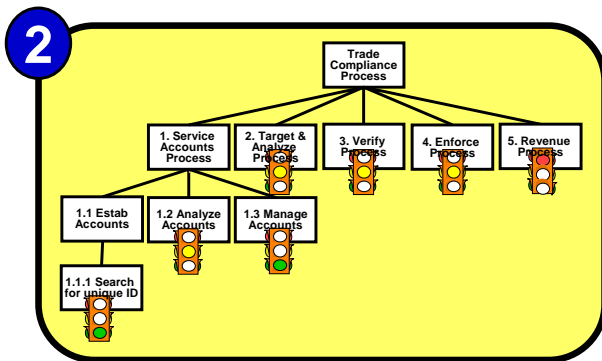
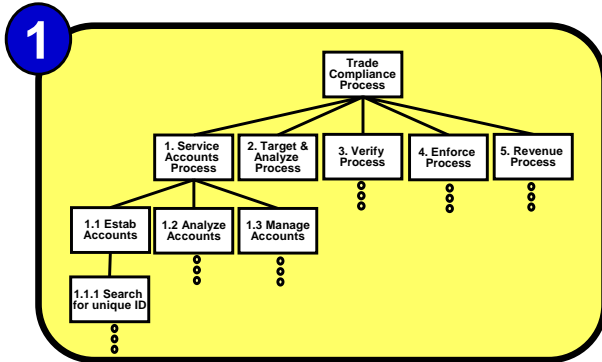
- **Establish a "gold standard" in investment management analyses for federal agencies, government oversight organizations, and the vendor community**
- **Integrate and extend current investment analysis methods, tools, and processes by encompassing the full investment management life cycle in order to**
 - **Ensure consistency and alignment with established enterprise architecture frameworks (e.g., TEAF, FEA-F)**
 - **Provide a robust capability to achieve repeatable, traceable, defensible investment decisions**

Activities

- **Phase I – Exploration**
 - Review literature and evaluate products
 - Integrate and extend MITRE-developed prototype tools including
 - Multiple-year investment planning “roadmap”
 - Multiple budgets (i.e., “colors of money”)
 - Investment option dependencies
 - Comparison of predicted vs. actual performance
- **Phase II – Implementation**
 - Conduct U.S. Coast Guard case study
 - Investment options to improve readiness
 - Supports OPSTAGE planning
 - Document and disseminate lessons learned

Demonstration

■ Typical steps in the investment selection process



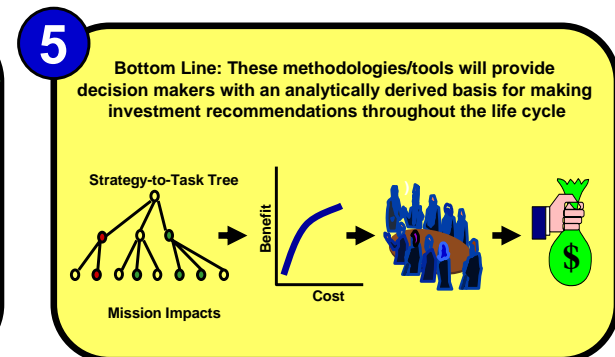
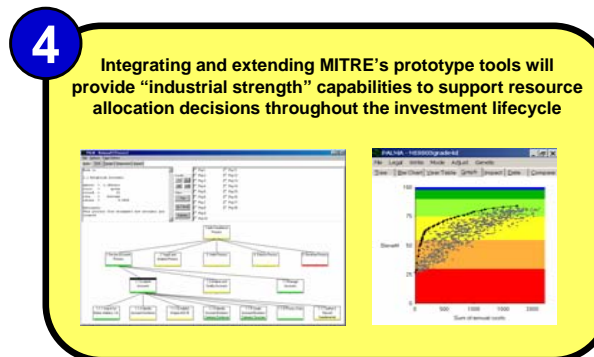
1 Construct capability hierarchy and define decision environment

2 Develop baseline assessments and rollup rules

3 Identify capability improvement options

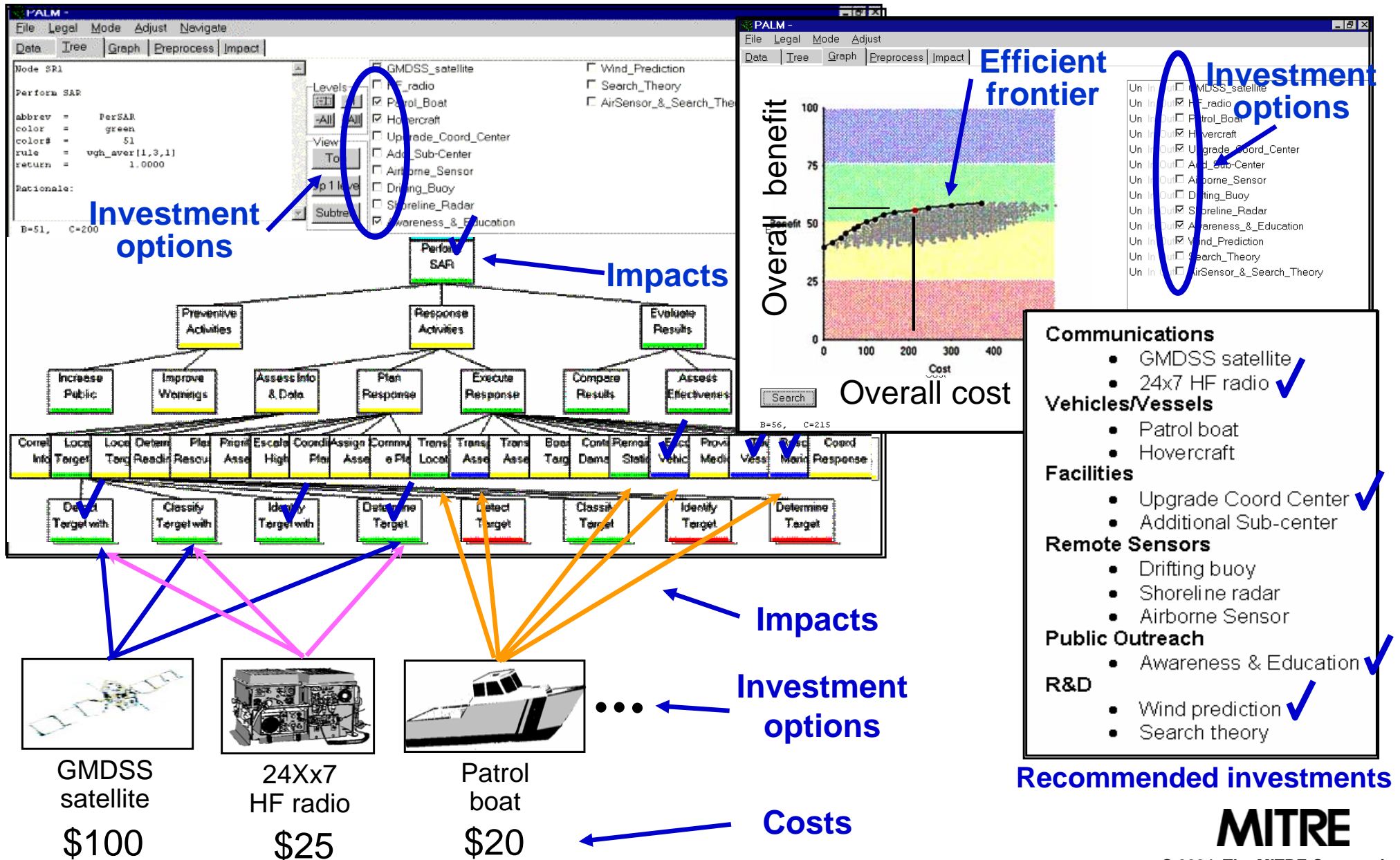
4 Apply decision analytic methodologies

5 Gain insights and make investment recommendations



Highlight

■ Search and rescue investment scenario



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Impacts

- **Updating and expanding literature review on portfolio methods and tools**
- **Establishing a “way ahead” for integrating enterprise architecture frameworks with investment strategy processes**
- **Establishing lifecycle process and integrating existing tools**
- **Conducting case study with U.S. Coast Guard**
- **Incorporating lessons learned from sponsor’s investment processes and tool applications**

Future Plans

- Complete Phase II of U.S. Coast Guard case study
- Finish development of integrated tool and associated documentation
- Capture and disseminate lessons learned

