

Semantic Integration of the C2 Enterprise

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Air Force MOIE

The logo for the MITRE Technology Program, featuring a stylized graphic of stacked blocks in yellow, orange, and blue to the left of the text.

MITRE
Technology
Program

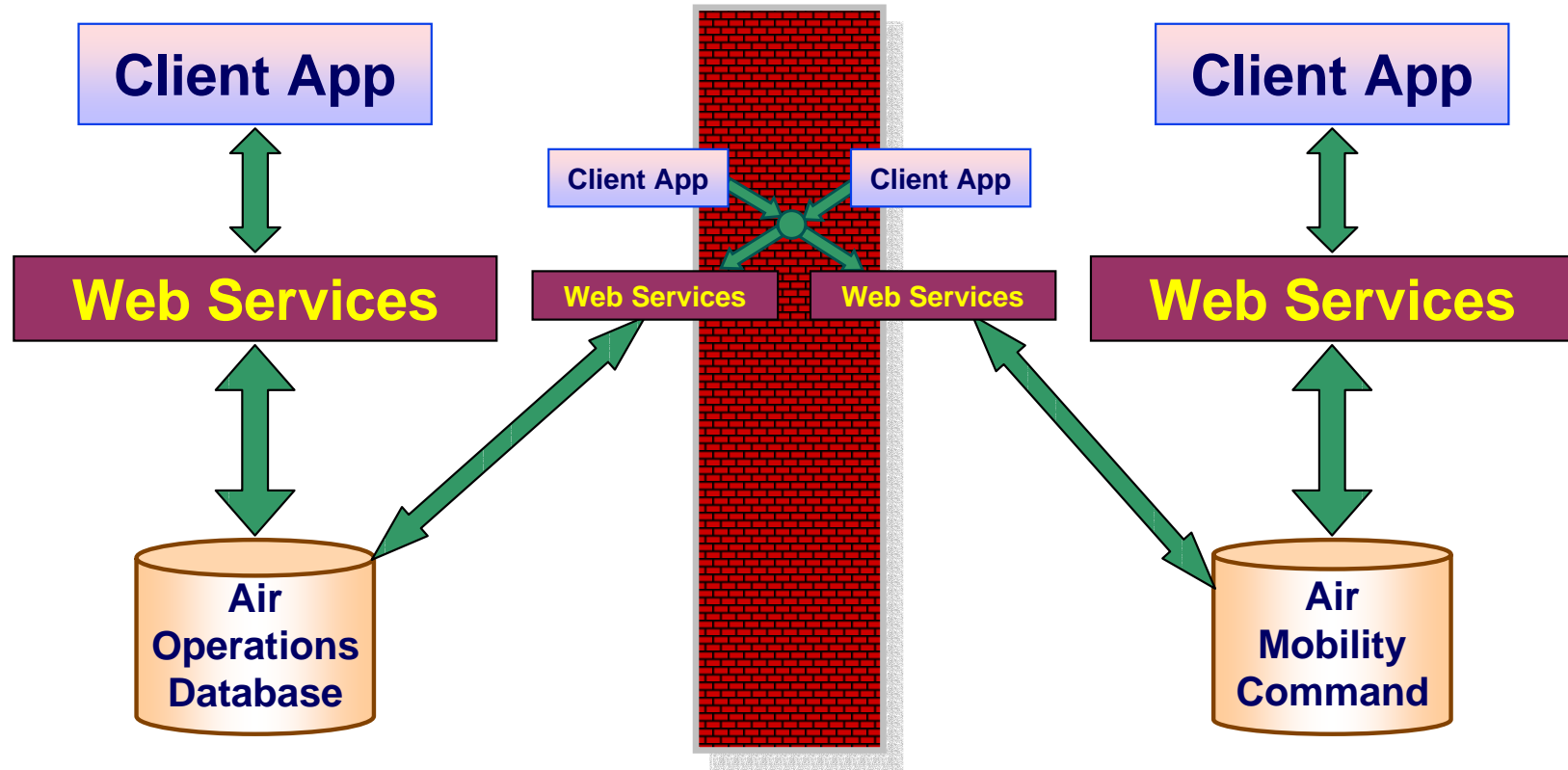
The MITRE logo, consisting of the word "MITRE" in a bold, black, sans-serif font.

MITRE

Problem

- **Enterprise integration is a key strategic Air Force initiative.**
 - **C2ERA, C2EI**
- **Are ontologies enabling technologies for enterprise integration?**
 - **How can we integrate a new data source into legacy applications?**
 - **How can we interoperate between disparate systems?**

Background



Integrating Disparate Systems Often Requires the Creation of New Web Services.

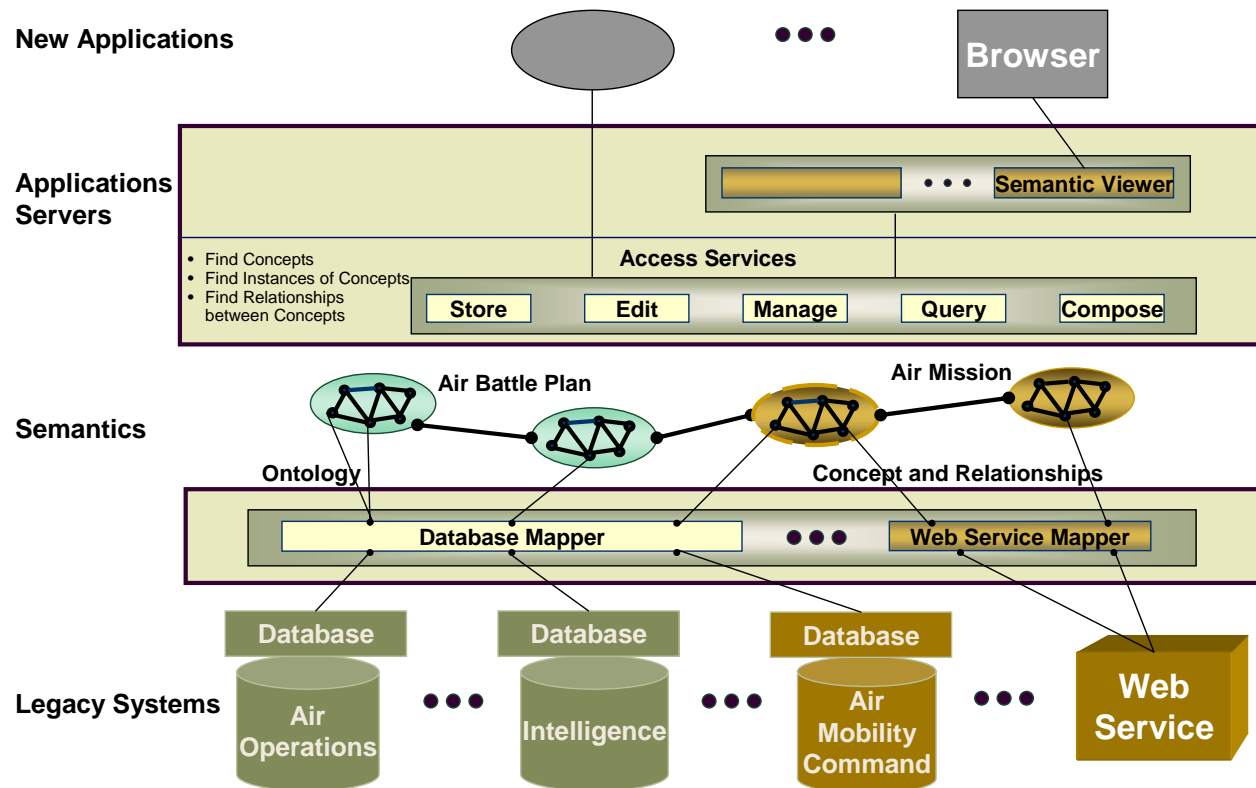
Objectives

- **Specify and prototype core capabilities for enabling enterprise integration**
- **Specify ontology-based methodologies for enabling enterprise integration**
- **Design ontologies in OWL**
- **Apply this methodology to the Combat Air Force**

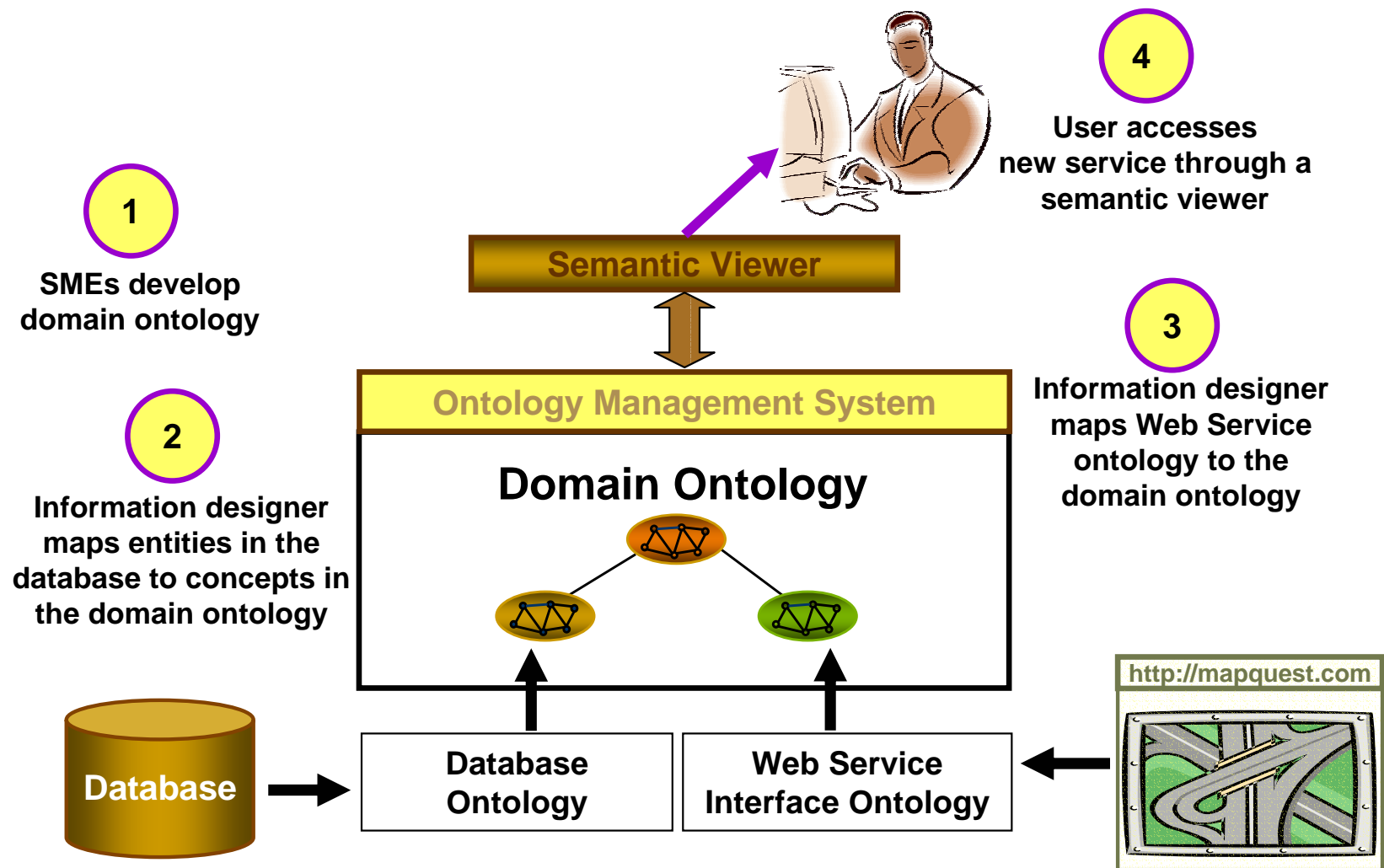
Activities

- Investigate approaches to enterprise integration
- Specify an enterprise integration methodology
- Extend methodology to work across domains
- Prototype core capabilities
- Apply to Combat Air Force
- Investigate approaches to semantic linking

Highlight



Demonstration

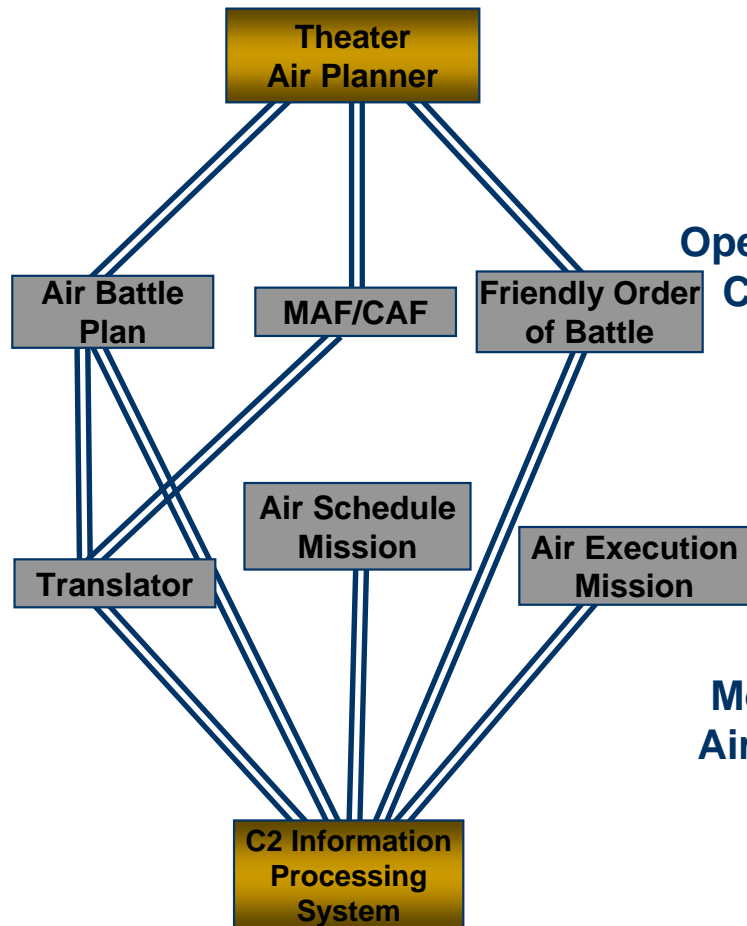


Impacts

- **Recommended approaches for enterprise integration**
- **Technology transition to partners**
 - **Engaging with leading Semantic Web researchers**
 - **OWL World Wide Web Working Group**
 - **MITRE and contractors**
- **Recommended approaches on implementing semantic linking**

Future Plans

Using XML



Using XML & Ontology

