

Information Technology Standardization Directions at the NRO

Presentation to GSAW 2000
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February 2000

Standards Scope

- **Spaceborne systems**
- **Ground systems**
 - Workstations
 - Ground infrastructure
- **Links between ground and space**
- **NRO management information systems (MIS)**

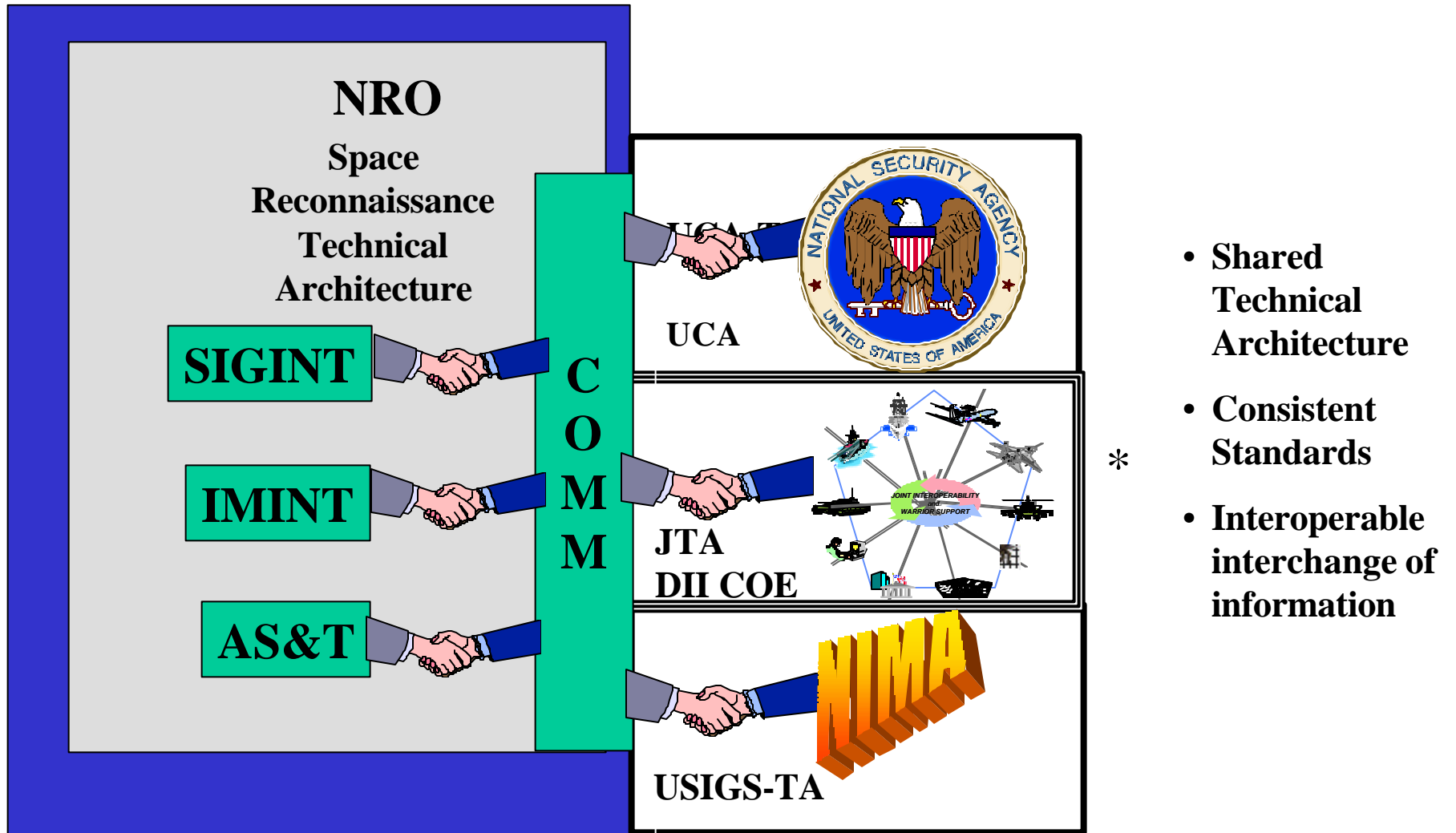
Standards Sources

- **DoD Joint Technical Architecture (JTA)**
- **Uniform Cryptologic Architecture (UCA)**
- **United States Imagery and Geospatial Information System (USIGS) Technical Architecture (UTA)**
- **Internal NRO applied standards**

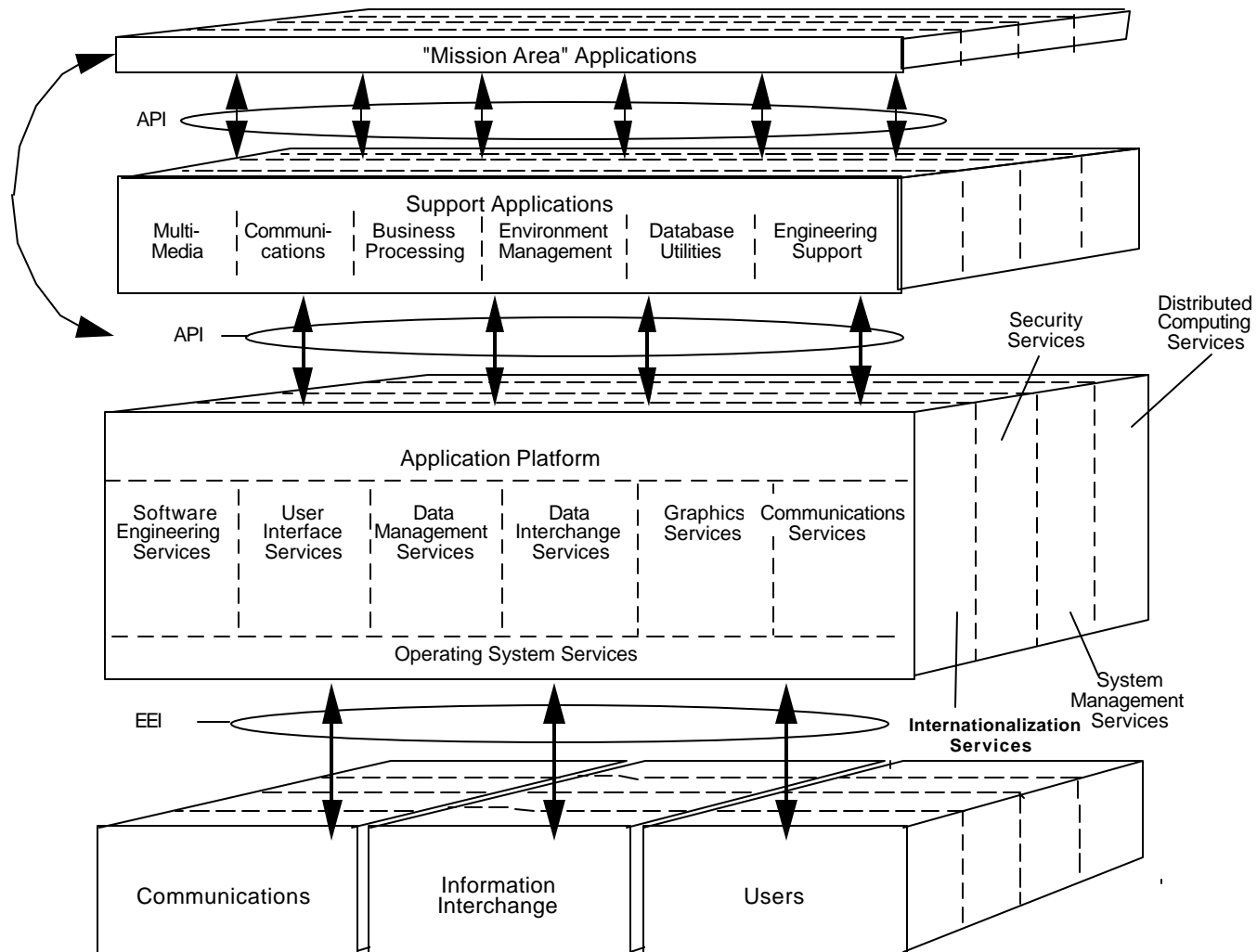
Methodology

- **Establish a functional architecture and reference model**
- **Develop a structure of technical service areas and services**
- **Create a standardization database**
- **Collect standards in use from programs, projects, and systems**
- **Adjudicate differences in application of standards across the enterprise**
- **Establish an NRO standards baseline**
- **Use standards baseline as a basis for proposing changes to external baselines such as JTA**

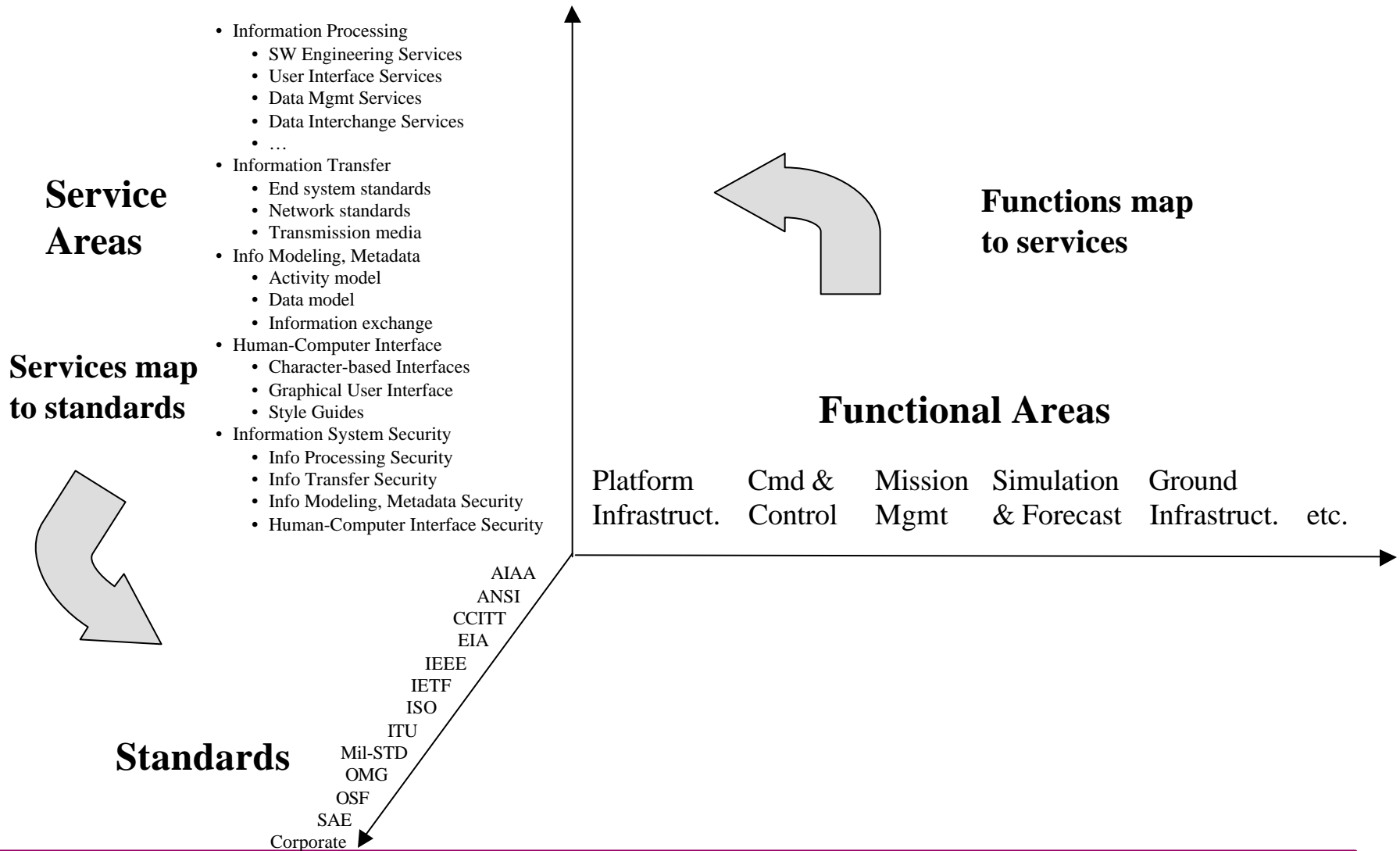
NRO Interoperability Vision



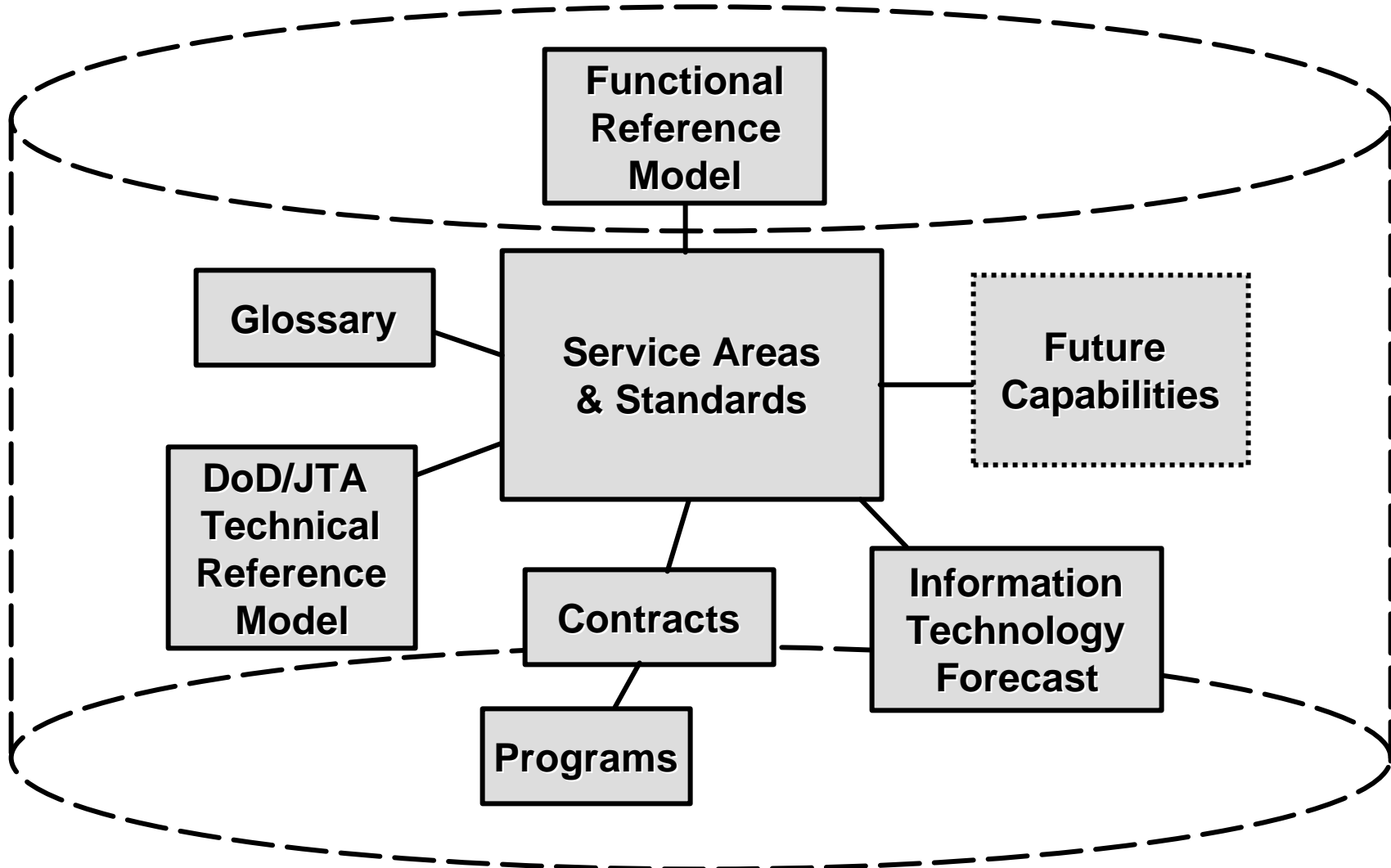
Original JTA Technical Reference Model



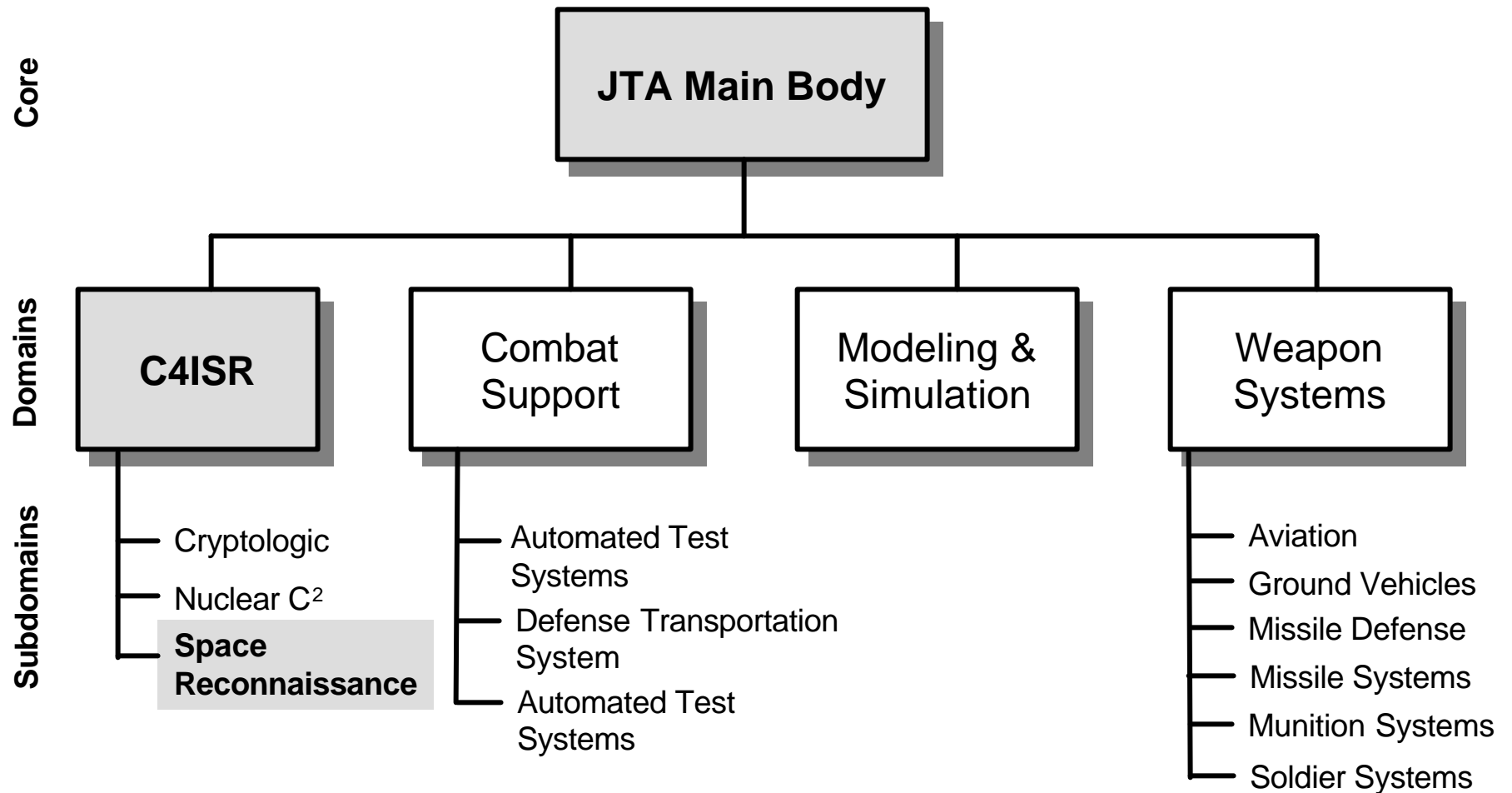
Structure and Use of NRO Standards



Automated Tool Block Diagram



JTA Hierarchy Model and Input Points



Standardization Benefits

- **Improved interoperability and portability**
- **Reduced costs**
- **Reduced time to implement solutions**
- **Creation of new information opportunities for warfighters**

Standardization Issues

- **Cost**
- **Restriction of technology**
- **Operational constraints**
- **Vulnerability**
- **Define “standard”**
- **Interoperability and portability**
- **New IT opportunities**
- **Space community involvement**
 - C4ISR Domain
 - Space Reconnaissance Subdomain

Points of Contact

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