STANDARDIZATION IN THE ACQUISITION LIFECYCLE

29 AUGUST 2011

Report Documentation Page

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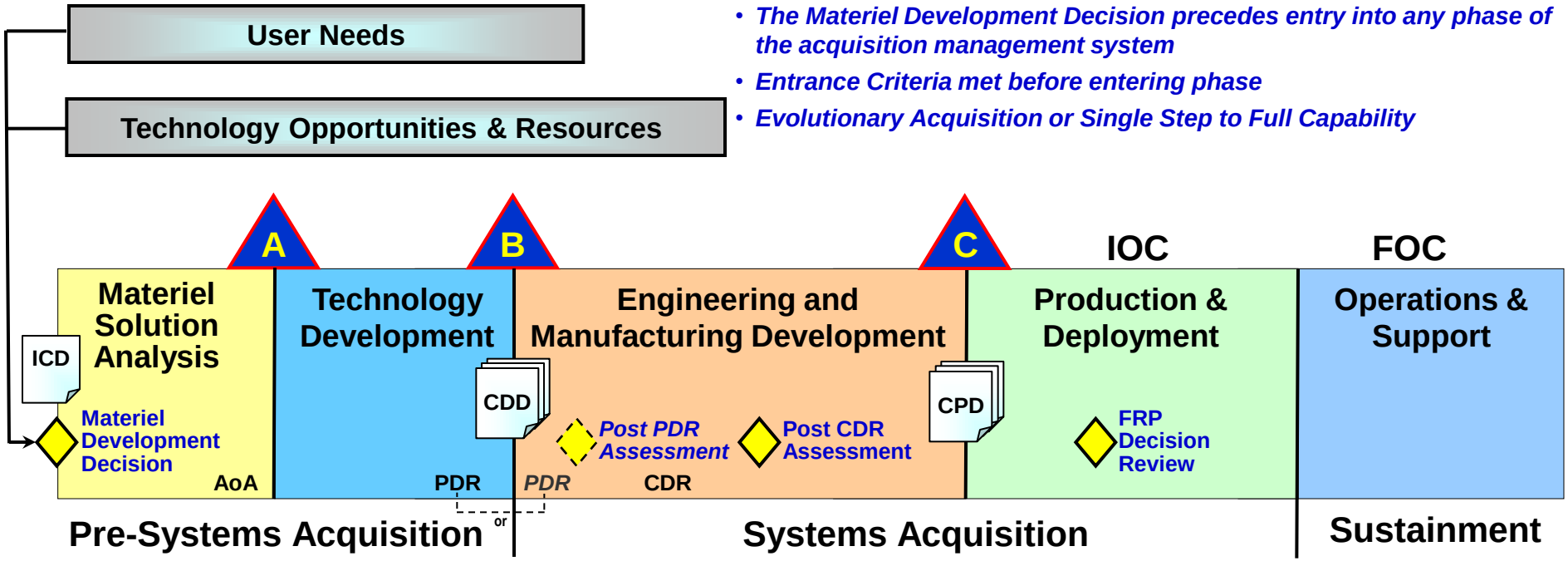
What is Standardization?

- The process of developing and agreeing on (by consensus or decision) uniform engineering criteria for products, processes, practices, and methods for achieving compatibility, interoperability, interchangeability, or commonality of materiel.

DoD Acquisition Lifecycle



- *The Materiel Development Decision precedes entry into any phase of the acquisition management system*
- *Entrance Criteria met before entering phase*
- *Evolutionary Acquisition or Single Step to Full Capability*

PDR: Preliminary Design Review
CDR: Critical Design Review
FRP: Full Rate Production

IOC: Initial Operational Capability
FOC: Full Operational Capability

Evolutionary Acquisition is the preferred approach

Learn. Perform. Succeed.

DoD Acquisition Lifecycle - 2

- Pre-Systems Acquisition focus is on identifying and maturing promising technologies
- Systems Acquisition focus is on developing, demonstrating and fielding capability
- Sustainment focus is on supporting fielded capability

Standardization in the Acquisition Lifecycle

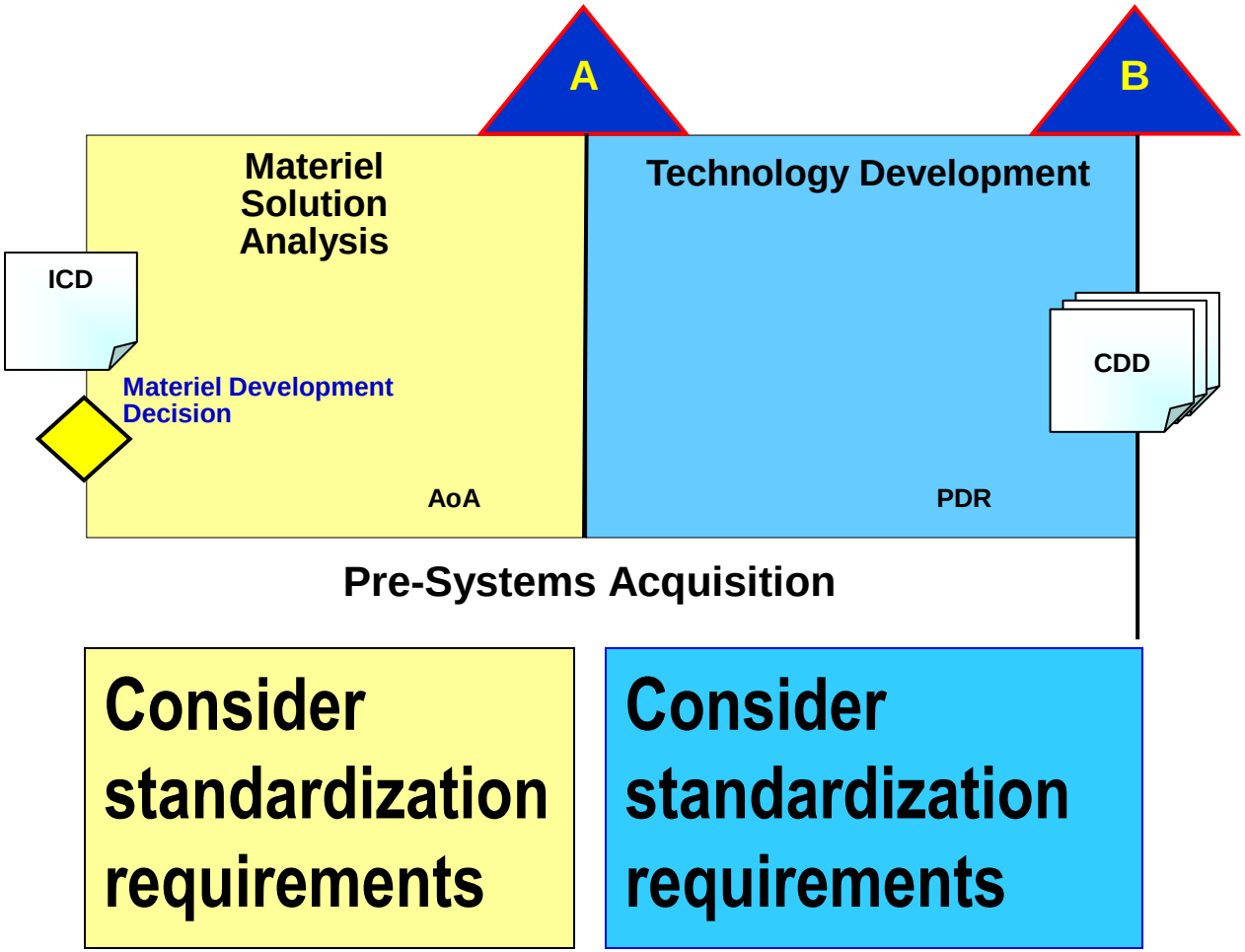
- Provides proven and demonstrated products and practices
- Helps assure users' needs will be met
- Minimizes risks
  - Cost
  - Schedule
  - Performance

Standardization in the Acquisition Lifecycle

- Area for consideration in decision-making
  - Market Research
  - Trade-off analyses
- Systems Engineering Tool
- Provides a foundation for supportability

When properly applied, standardization is an enabler of acquisition success

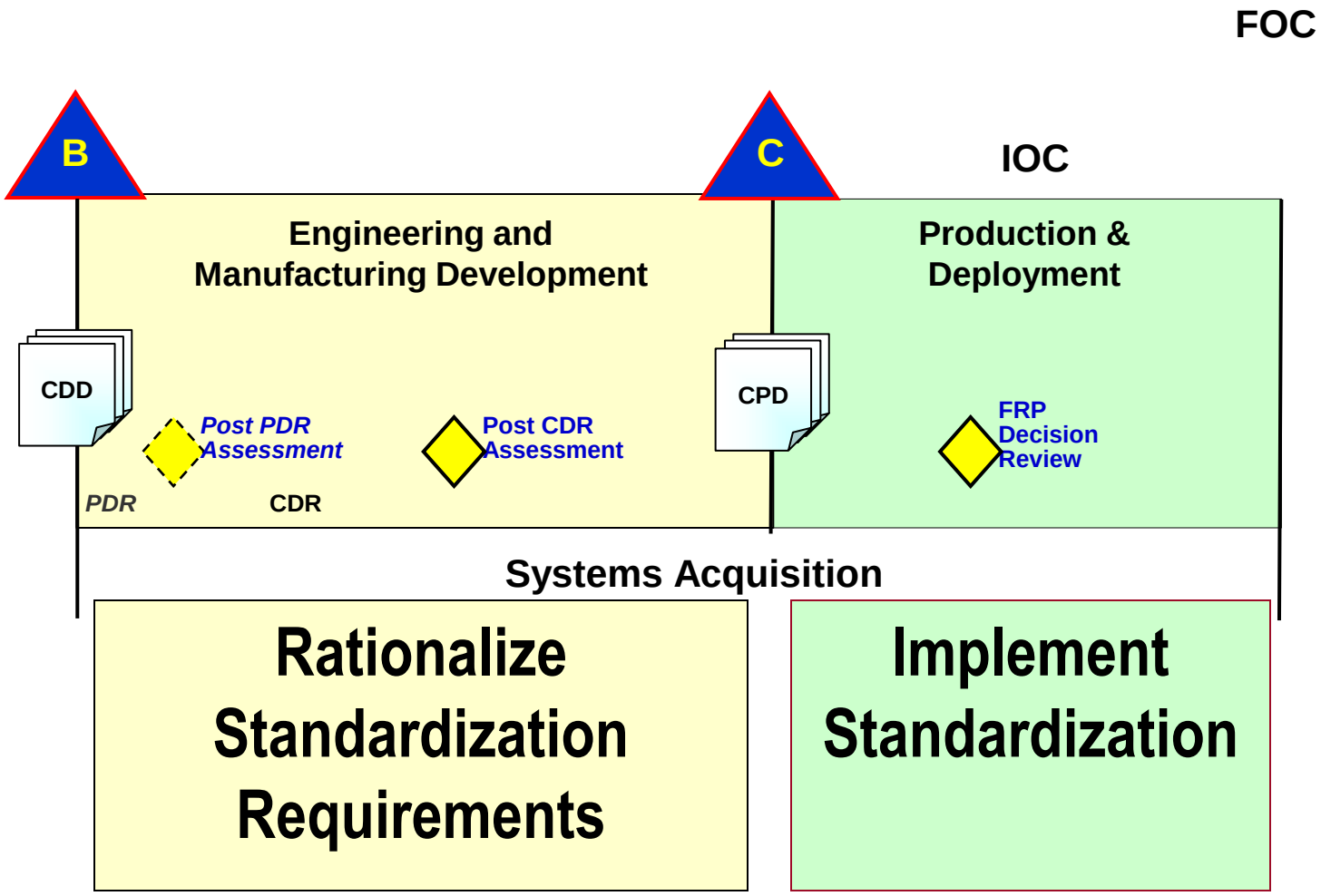
Standardization in Pre-Systems Acquisition



Consider Standardization Requirements

- Performance
- Interoperability and Interfaces
- Technology Insertion
- Sustainment
- Safety
- Compliance

Standardization in Systems Acquisition



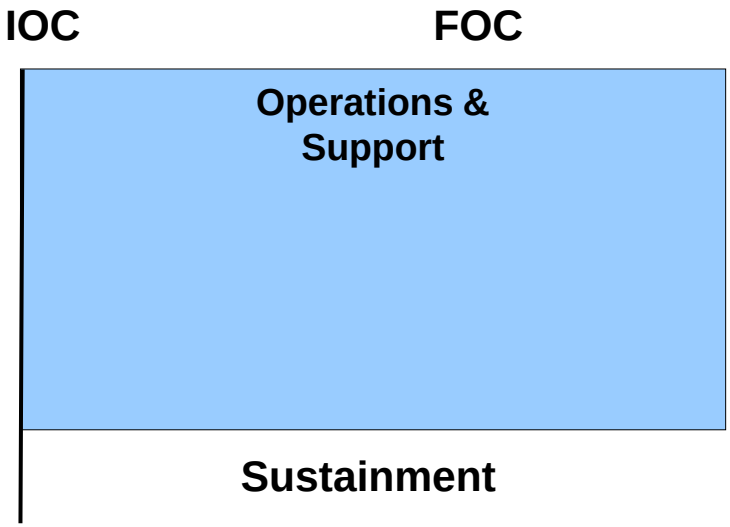
Rationalize Standardization Requirements

- Use of existing standards
- Tailoring of standards
- Development of new standards
- Parts Management

Implement Standardization

- Technical Data Package
- Parts Management
- Continuous Improvement

Standardization in Sustainment



Maintain and Improve Standardization

Maintain and Improve Standardization

- Ensure conformance
- Implement and update parts management plan
- Update documentation
- Identifying new opportunities for standardization

Standardization Management

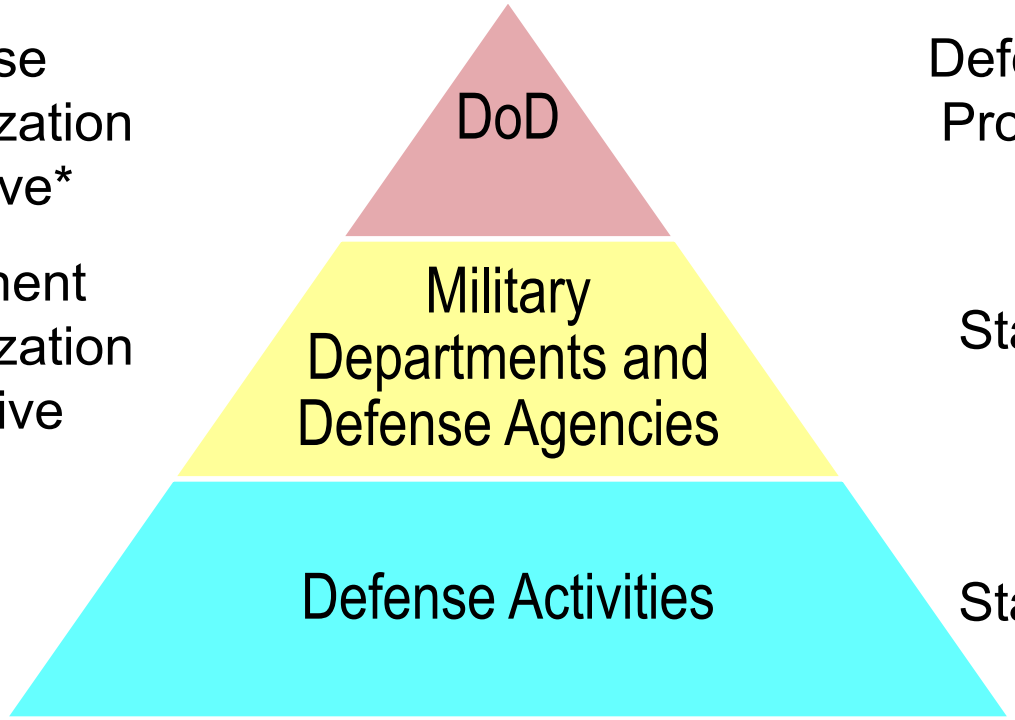
- Policy
- Technology
- Documents

Policy Management

Strategic

Defense Standardization Executive*

Component Standardization Executive



Tactical

Defense Standardization Program Office (DSPO)

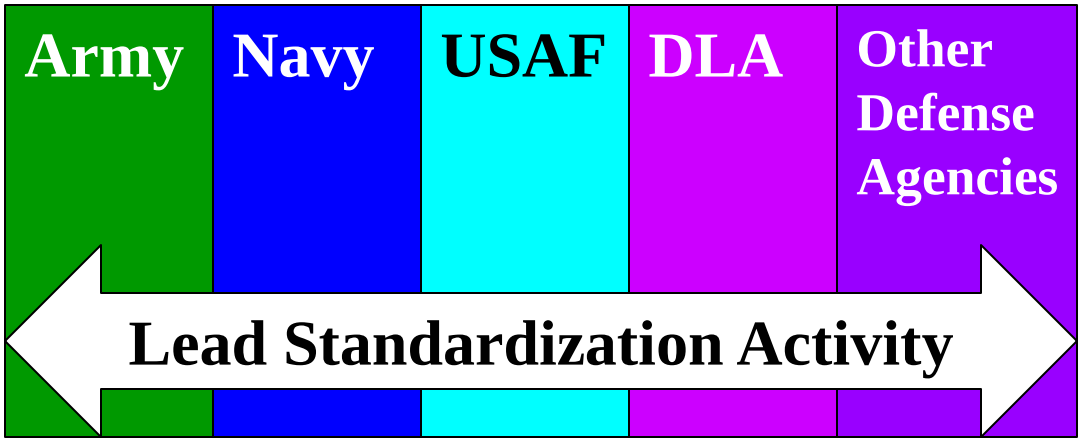
Departmental Standardization Office (DepSO)

Command Standardization Office (ComSO)

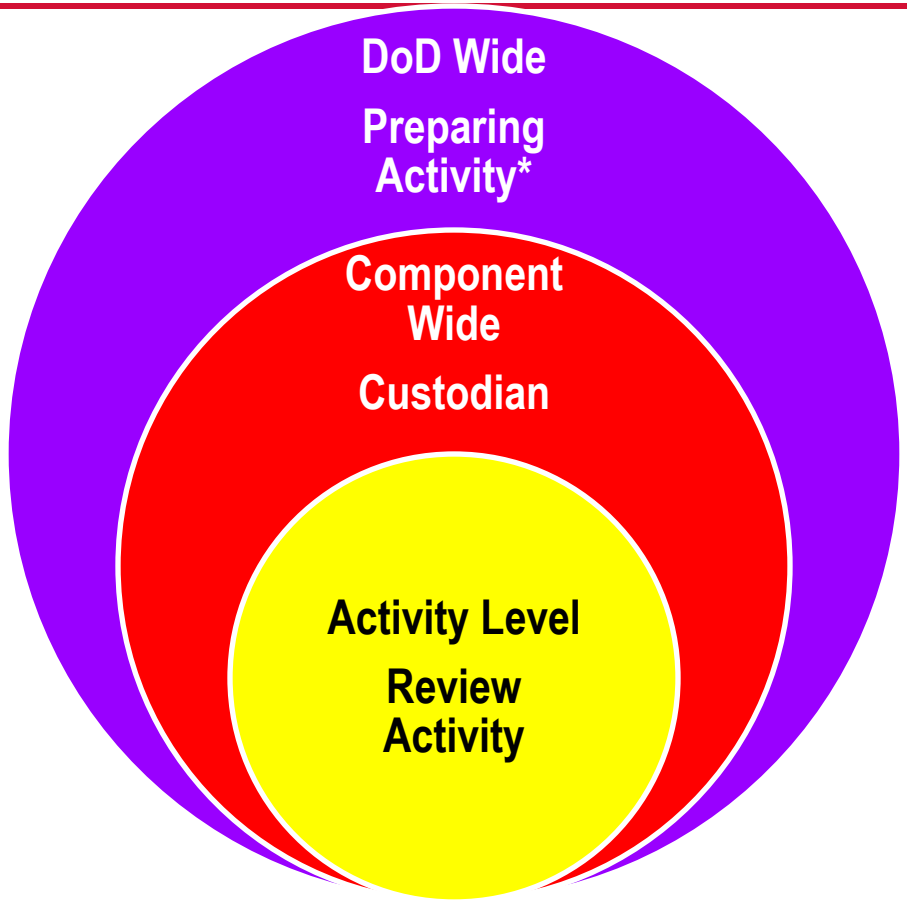
*The Defense Standardization Executive serves as the Executive Agent for the Secretary of Defense

Technology Management

- Managed by Federal Supply Class/Group or Standardization Area
- Lead Standardization Activity
- Assignments listed in ASSIST Database



Document Management



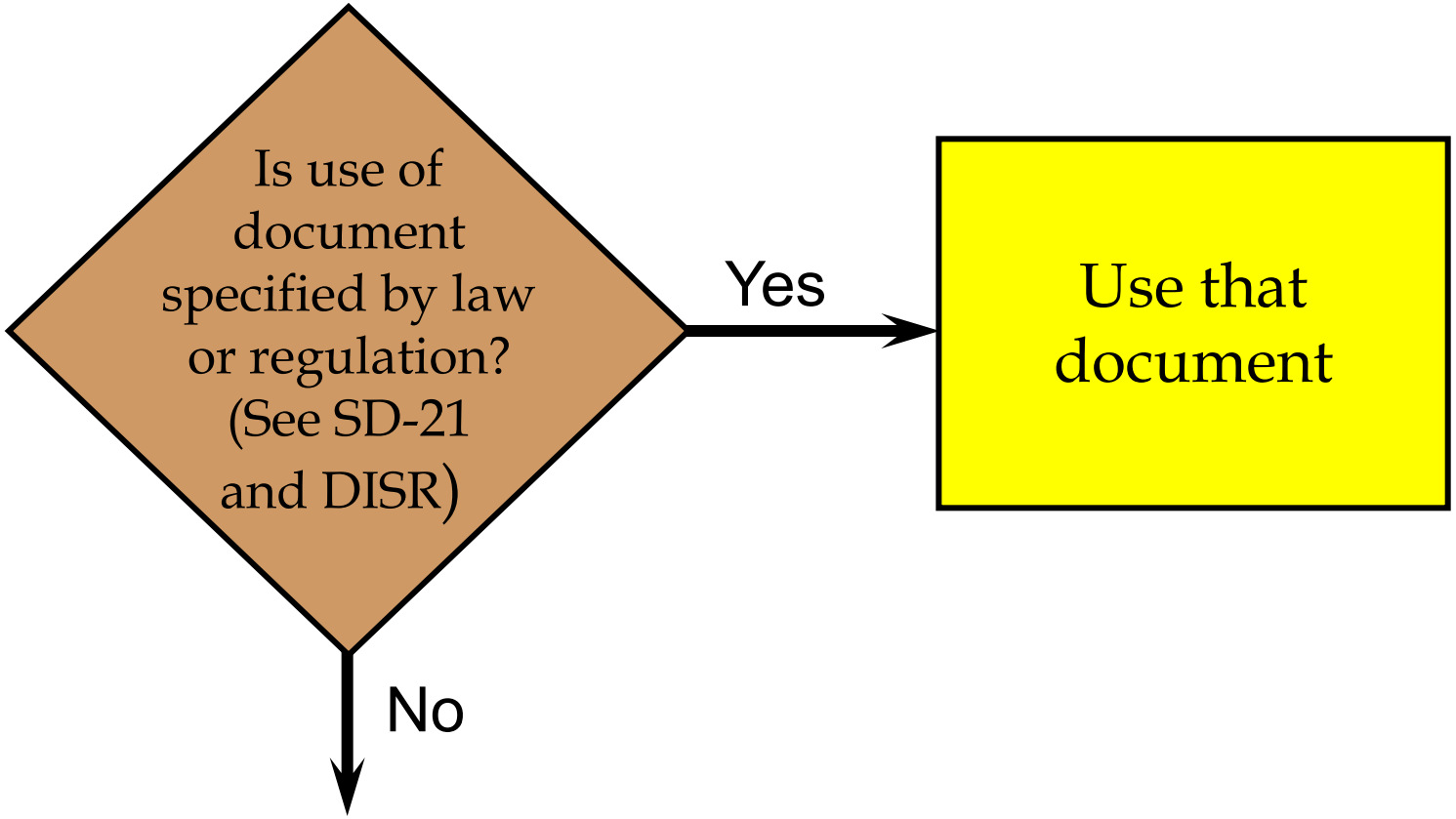
*For Non-Government Standards the Activity Responsible for DoD-Wide coordination is called an Adopting Activity

** Document responsibilities are listed in the ASSIST Database

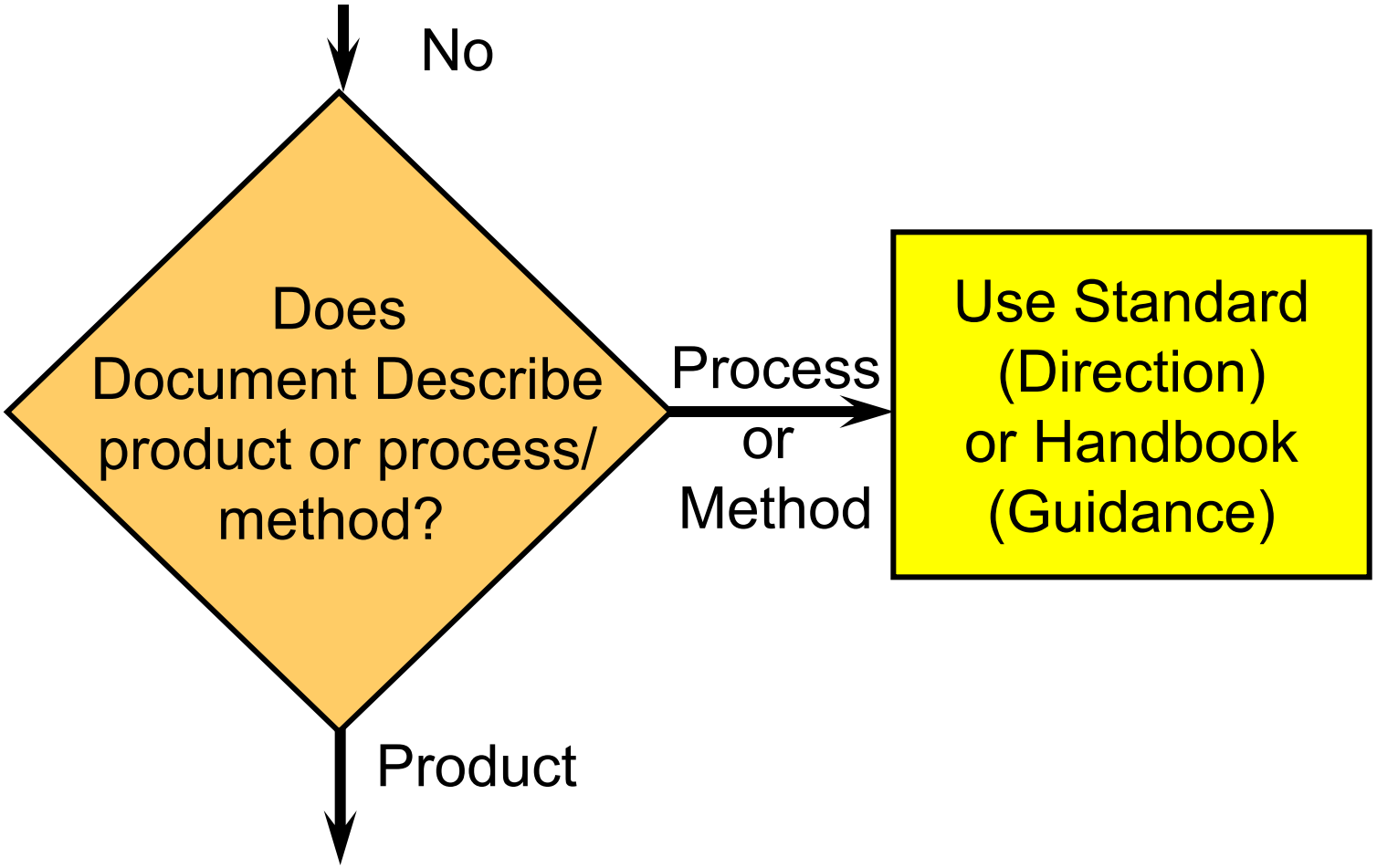
Use of Standardization Documents

- Selection
- Application
- Tailoring
- Contractual Aspects

Selection of Standardization Documents

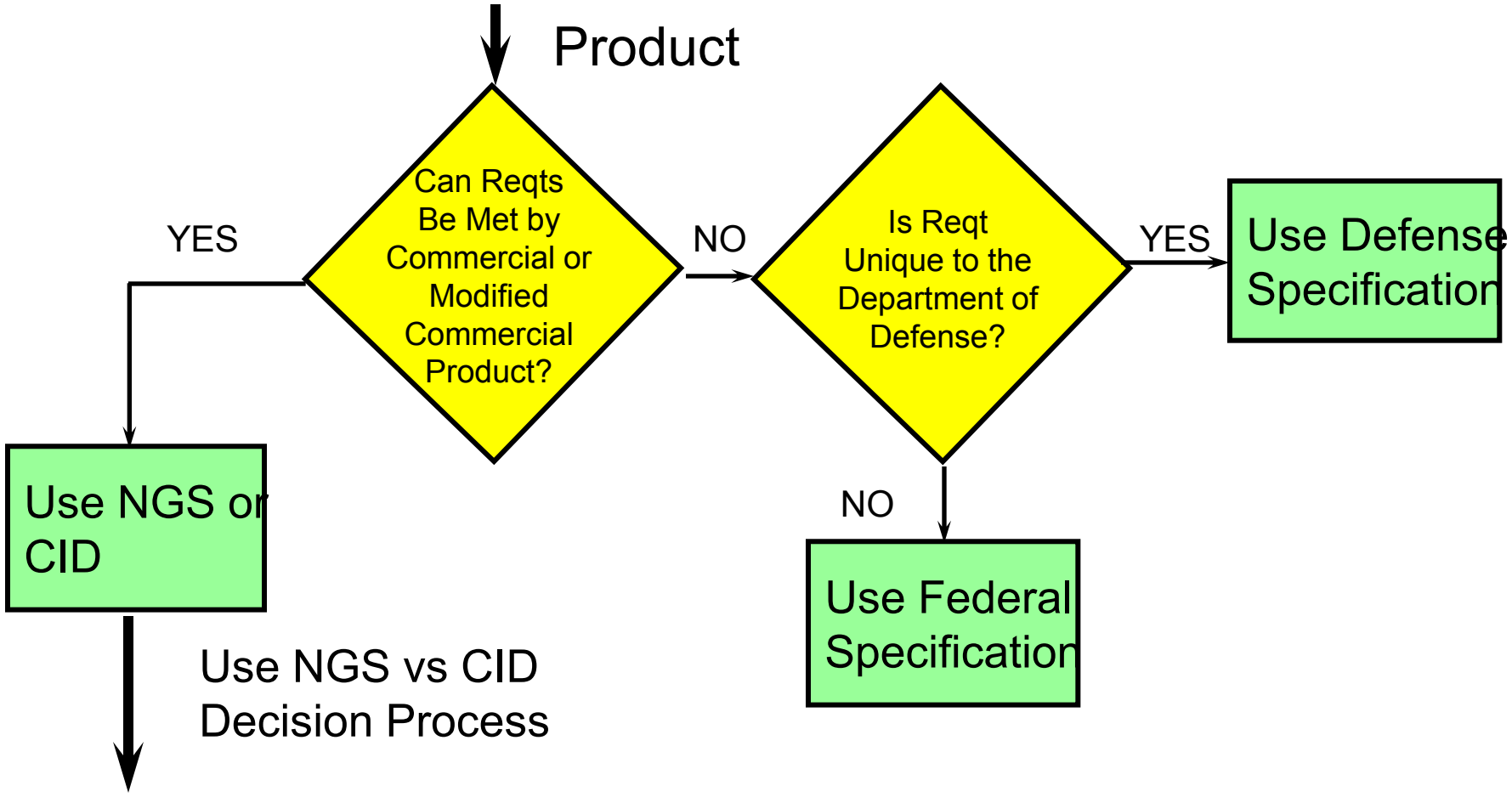


Selection of Standardization Documents - 2

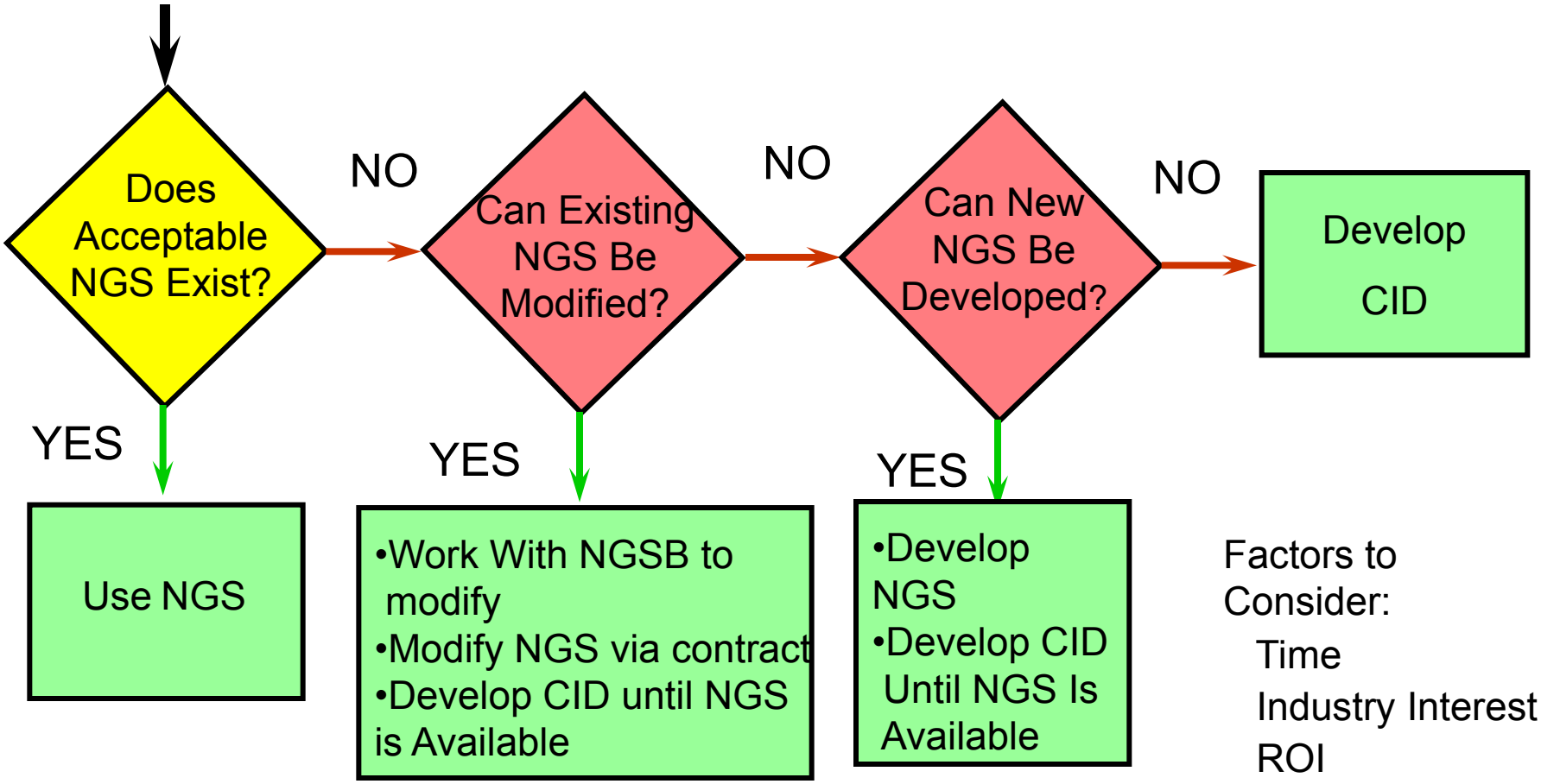


Use Standardization Product Description Decision Process

Selection of Standardization Documents - 3



Selection of Standardization Documents - 4



Factors to Consider:

- Time
- Industry Interest
- ROI

Application of Standardization Documents

Referencing

- Citation of a document
- Identify specific issue or revision
- Changes incorporated as reference is updated (may be pro or con)
- Must refer to referenced document to determine requirement

Extraction

- "Cut and paste"
- Requirements are self-contained
- Copyright issues
- Requires updating when source is updated
- May affect readability

For short references, extraction is generally preferred

Tailoring of Standardization Documents

- Limitation of requirements
  - Methods, types, classes, etc.
  - "When specified" or "Unless otherwise specified" requirements
- Modification of Requirements
- Exclusion of Requirements

Standardization Documents should always be tailored for the specific application

Contractual Aspects of Standardization Documents

- Ambiguity
  - Generally ruled against drafter of requirement
- Possibility
  - Usually addressed by contract type
- Implied Warranty of detail specifications

Questions?

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