

Metrics For Capability Based Acquisition

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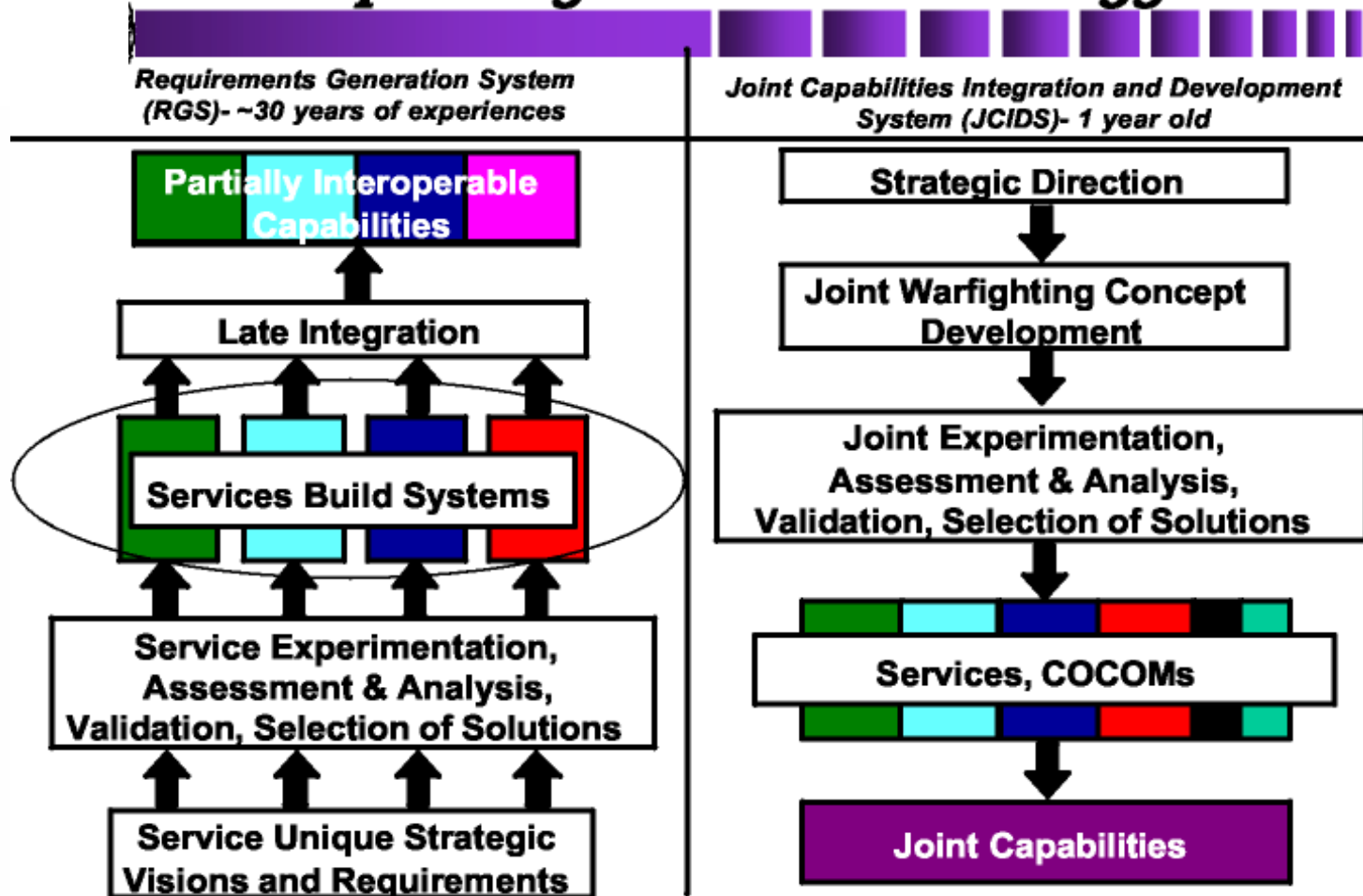
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OVERVIEW OF RESENTATION

- Review Definition of Capability
- Show How Capability is Decomposed into Activities and Sub activities (Leading To Task Lists, UJTLs, UMTLs).
- Review USJCOM'S Capability Development Overview.
- Highlight The Need For Capability Measure and the Characteristics Required By Such Measure .

Capability Based Methodology



Joint Capability Integration and development System (JCIDS) Now Better Understood After 2 years old

CAPABILITY

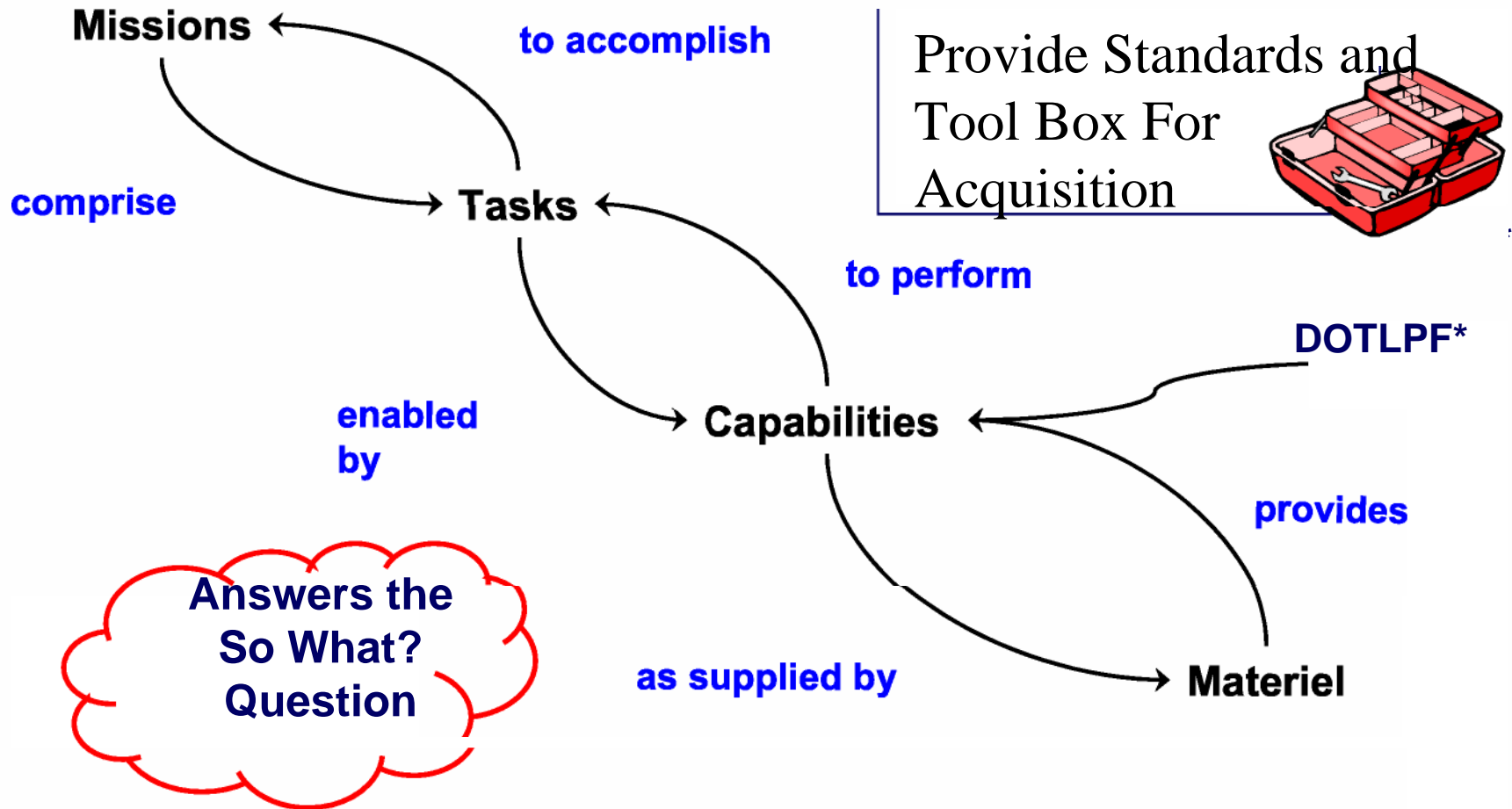
DEFINITION * :

- The ability to achieve a desired effect under standards and conditions through combinations of means and ways to perform a set of tasks:
 - defined by an operational user
 - expressed in broad operational terms
 - in the format of a joint (DOTMLPF**) change recommendations

* US Army Future Combat Systems

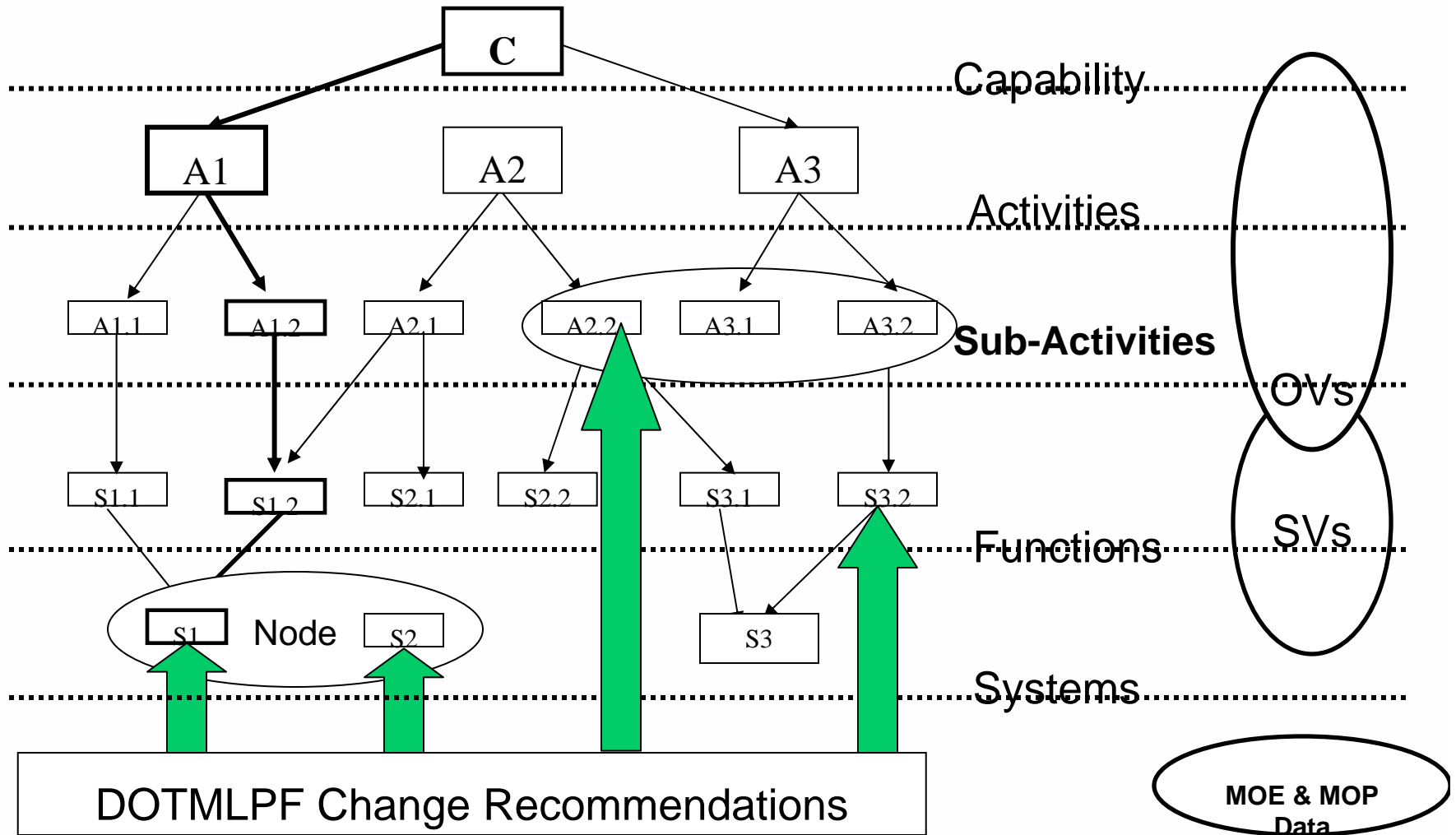
**Doctrine, Organization, Training, Material, Leadership and Education, Personnel and Facilities

Missions, Tasks, Materiel & Capabilities Relationships

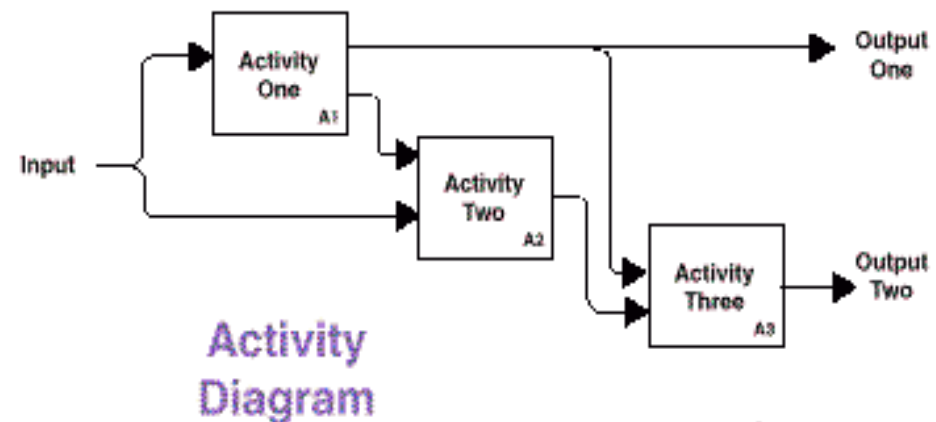
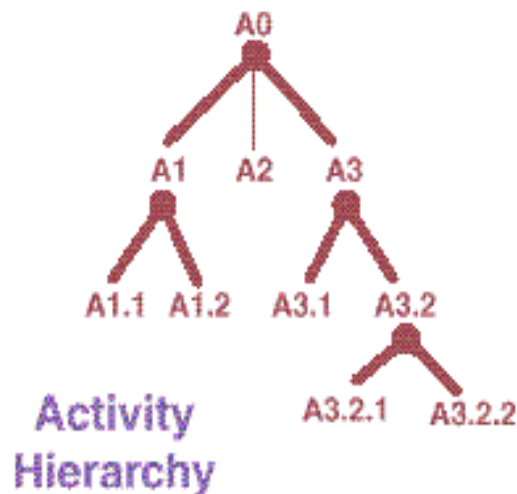


* Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities

Capability is Achieved Through Activities



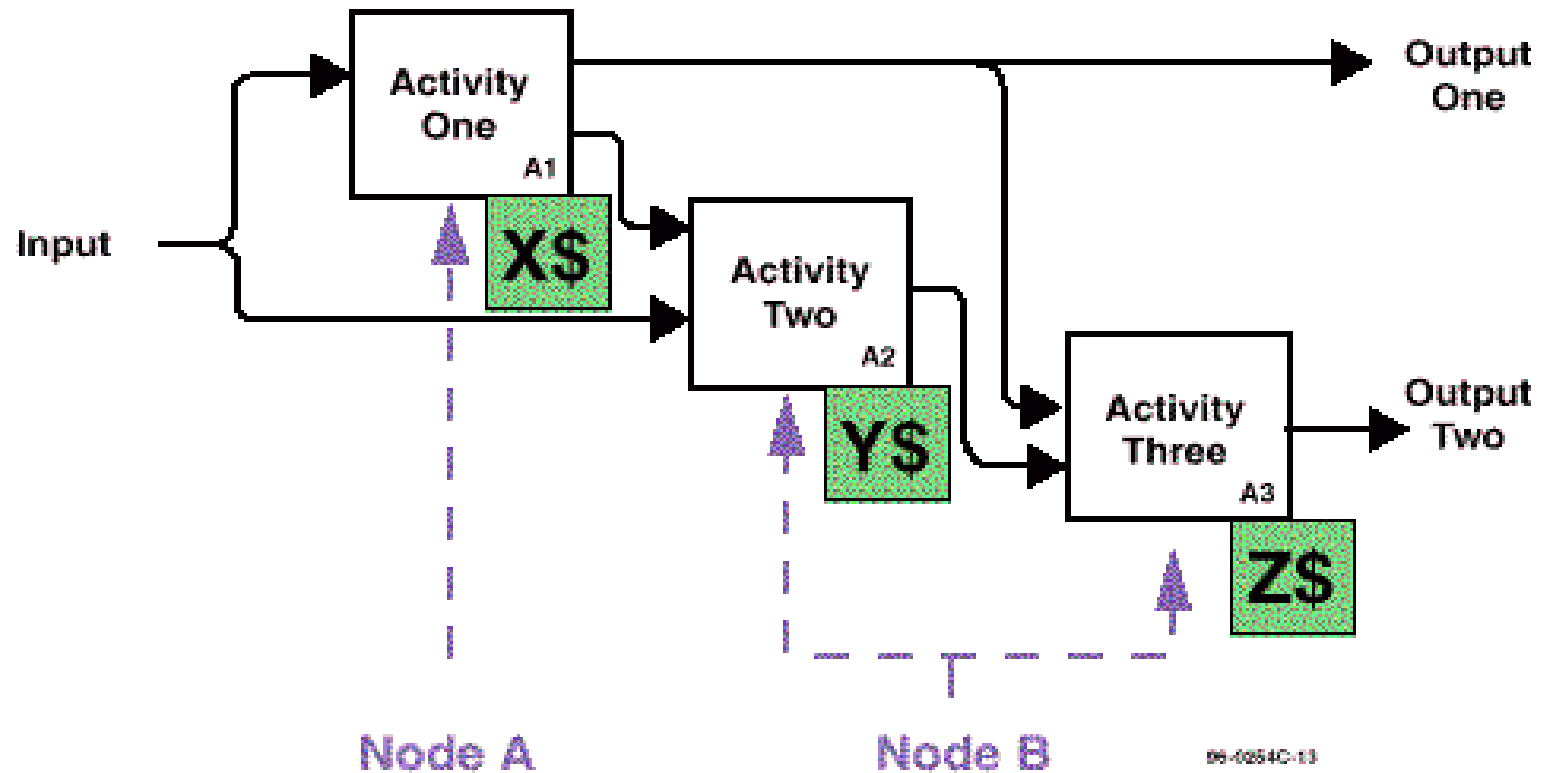
Activities Can Be Decomposed To Sub Activities



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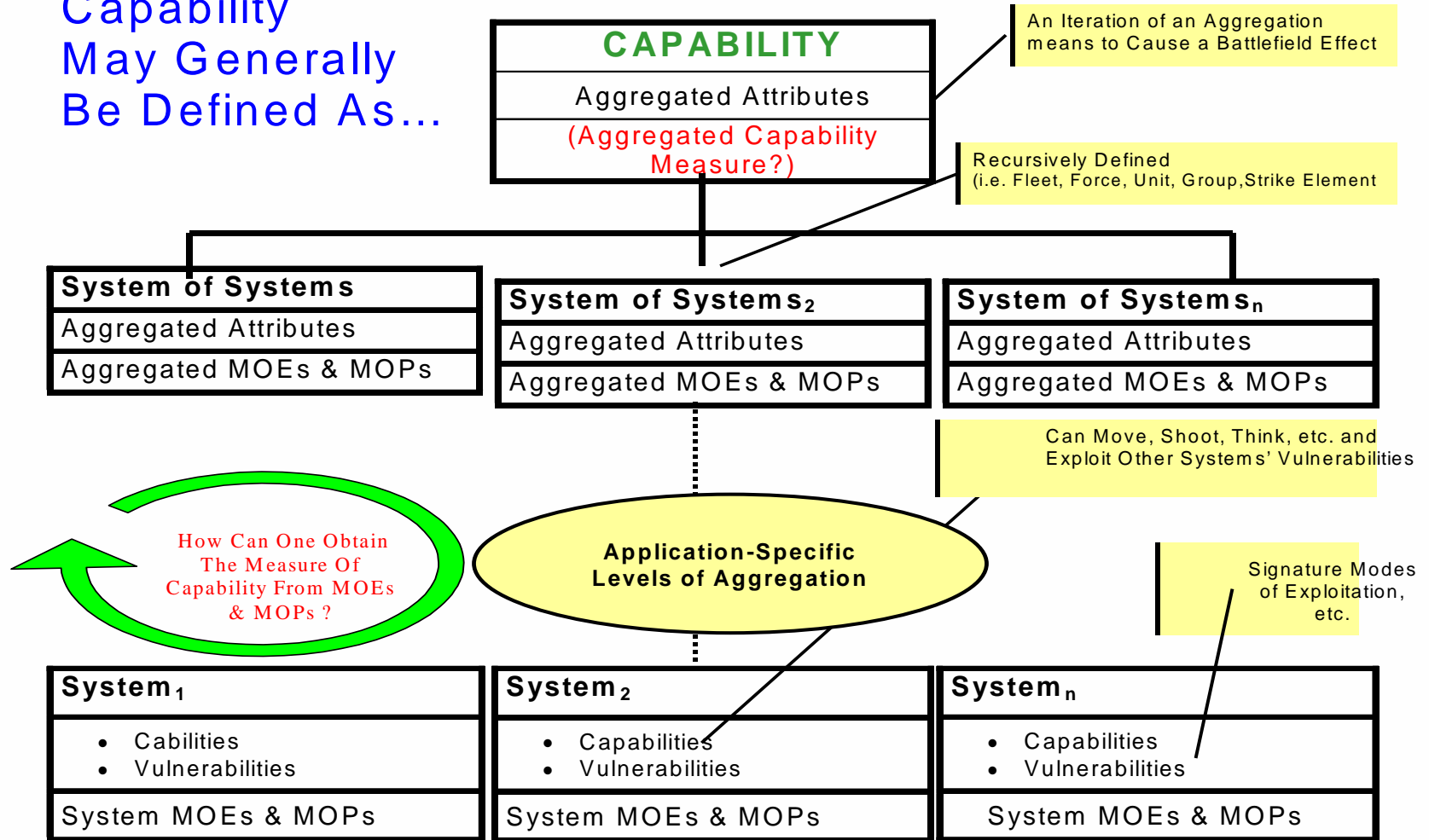
Features:

- Keyed to warfighter (e.g., UJTL) activities
- Activities assigned to nodes (organizations, facilities, workstations, etc.), depending on level of architecture

**Features:**

- Activity Model serves as template
- Variety of data may be overlaid on template (e.g., nodes, costs)

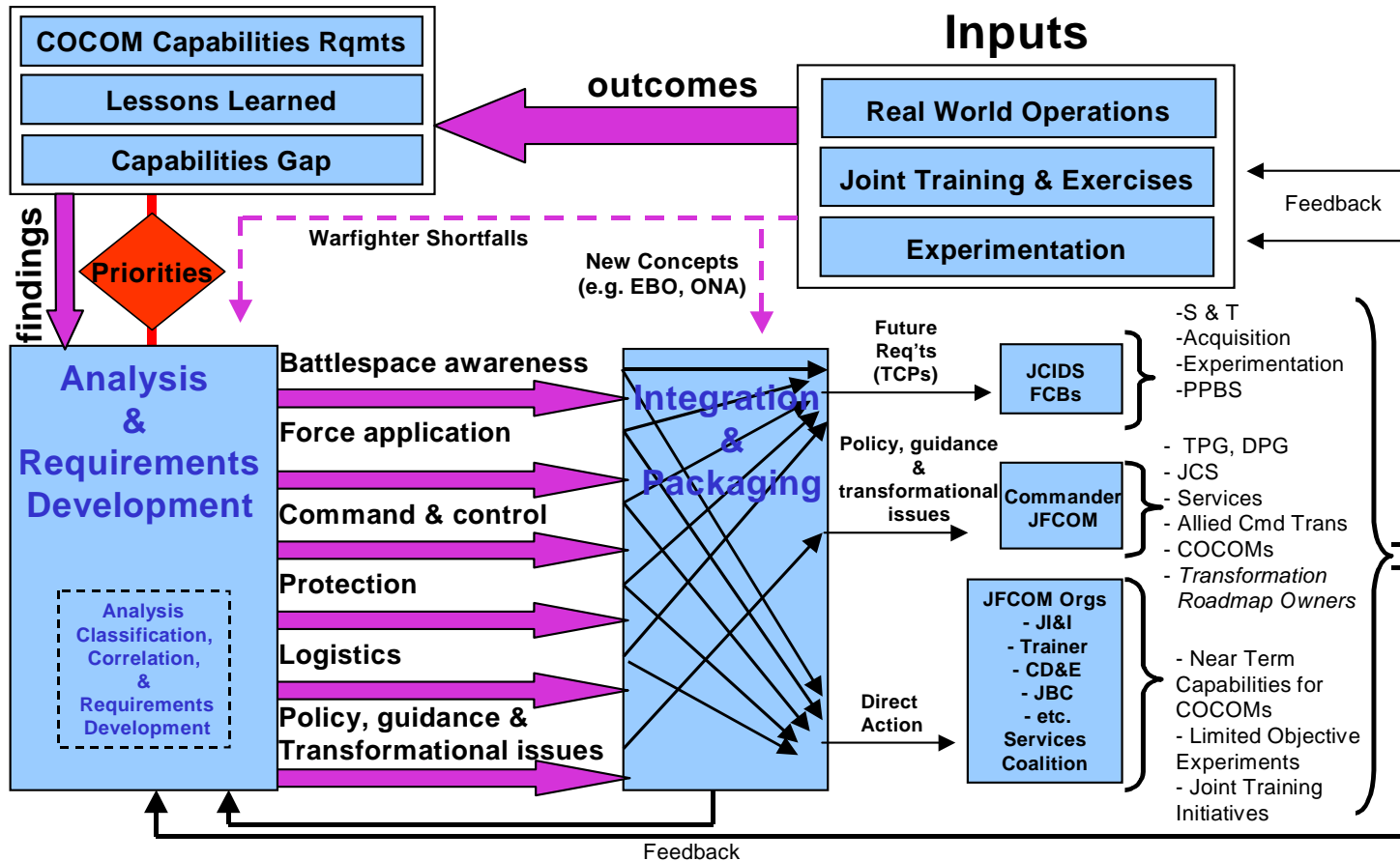
Capability
May Generally
Be Defined As...



FROM USJFCOM

UNCLASSIFIED

Joint Capabilities Development Process



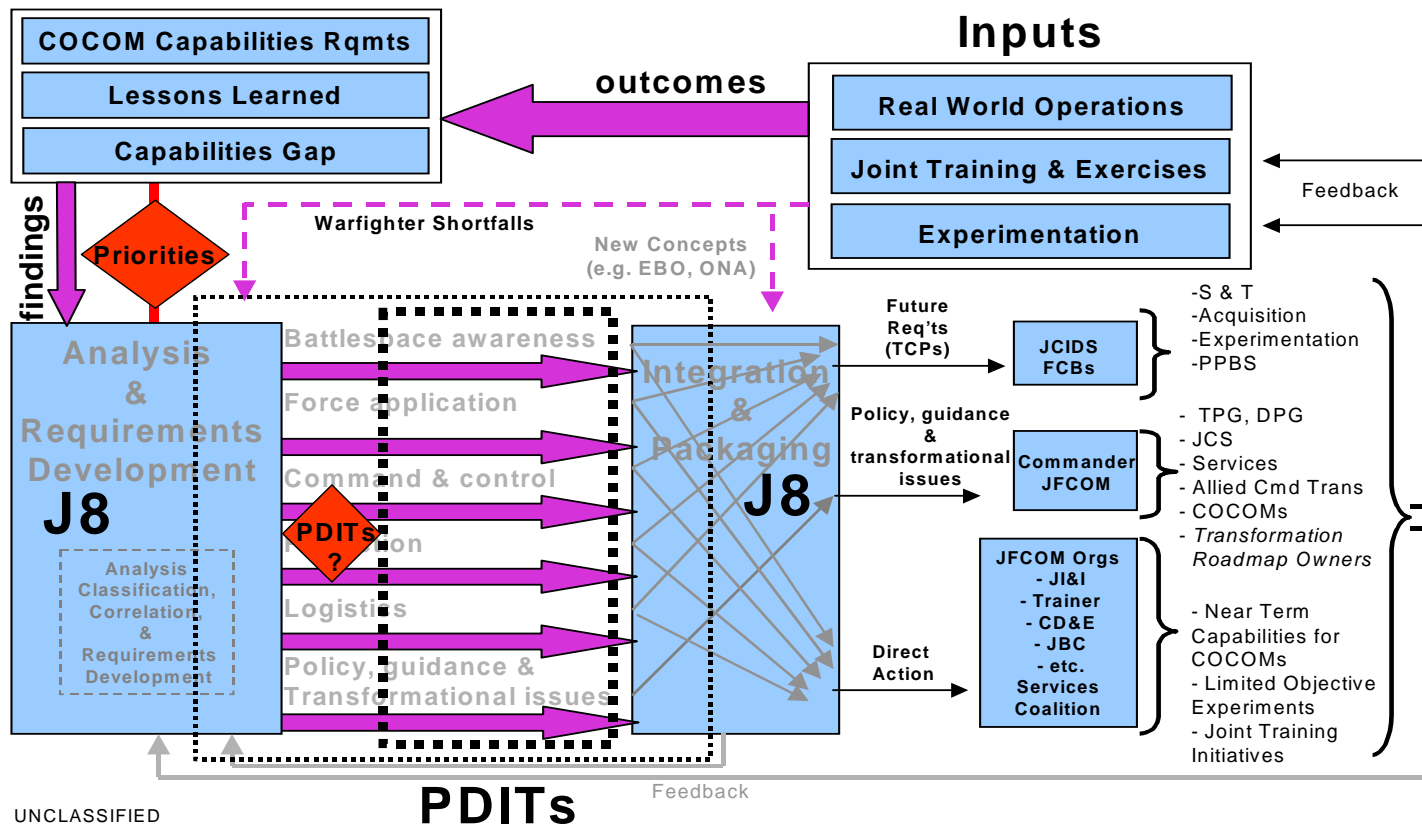
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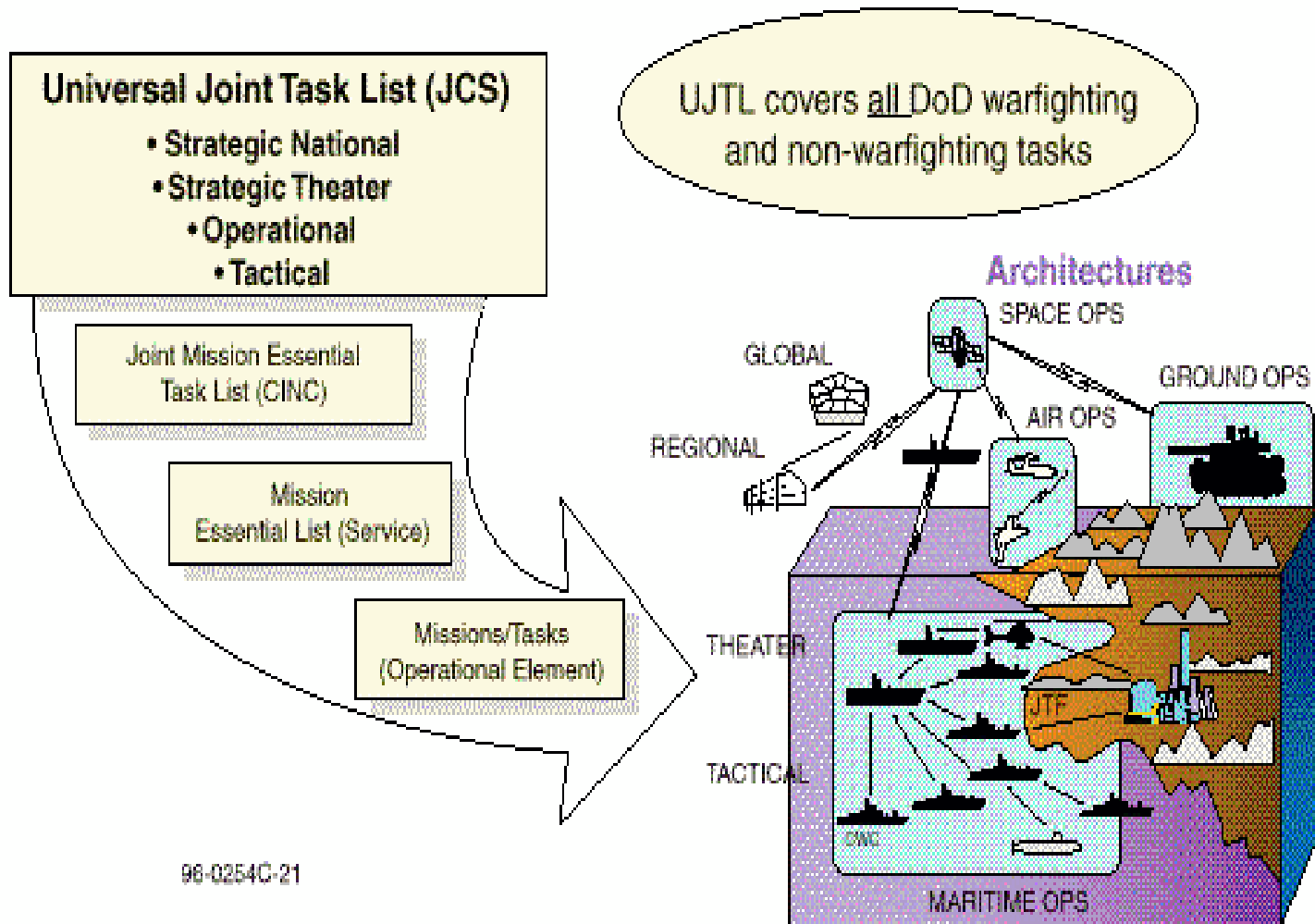
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Joint Capabilities Development Process

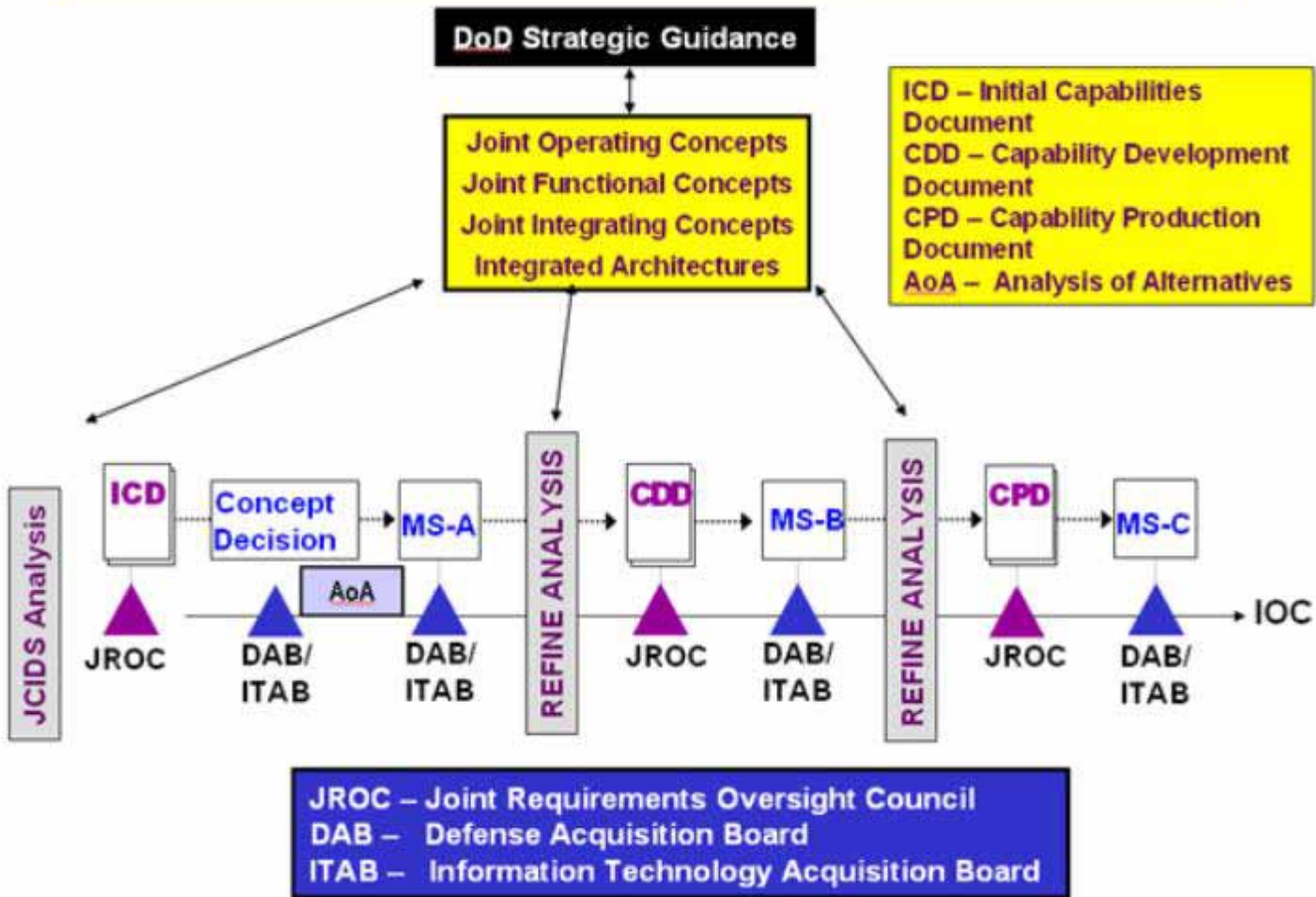




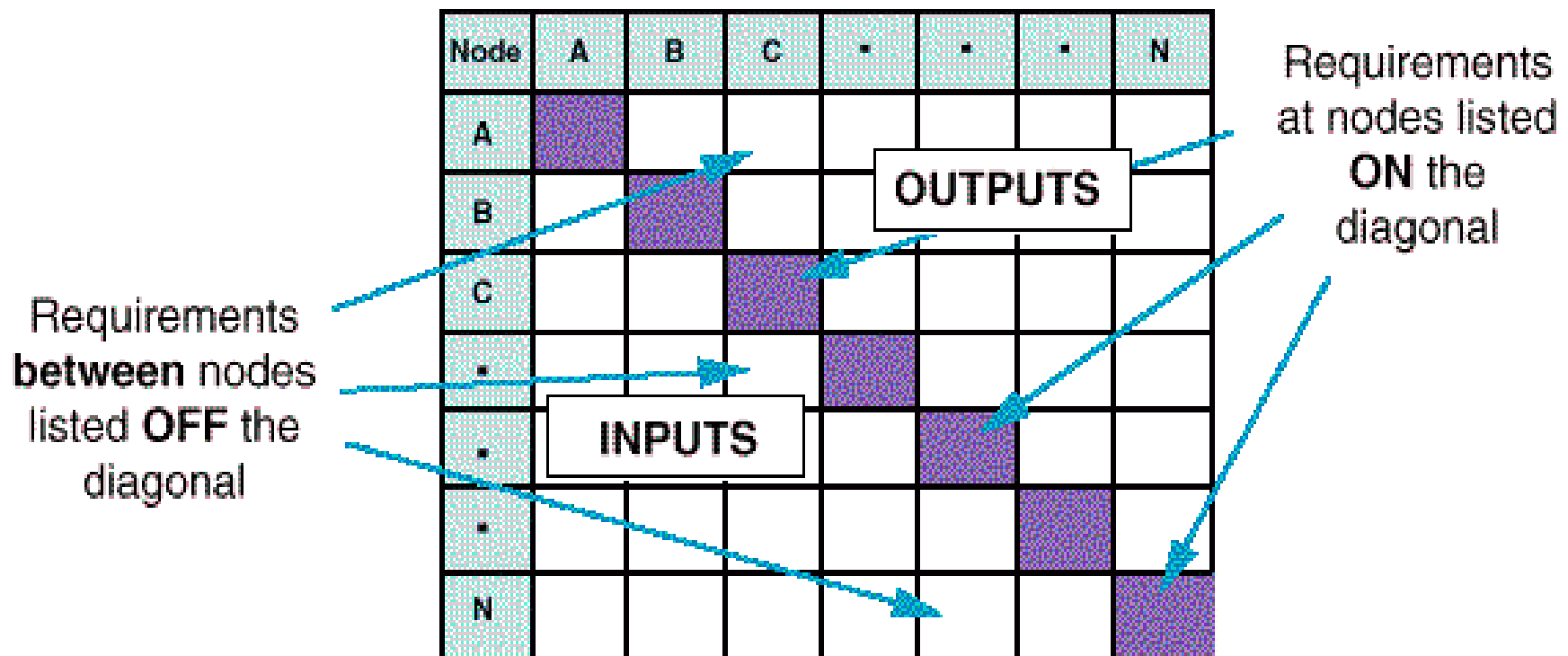
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: Common Basis for Defining Missions and Tasks

JCIDS AND DEFENSE ACQUISITION

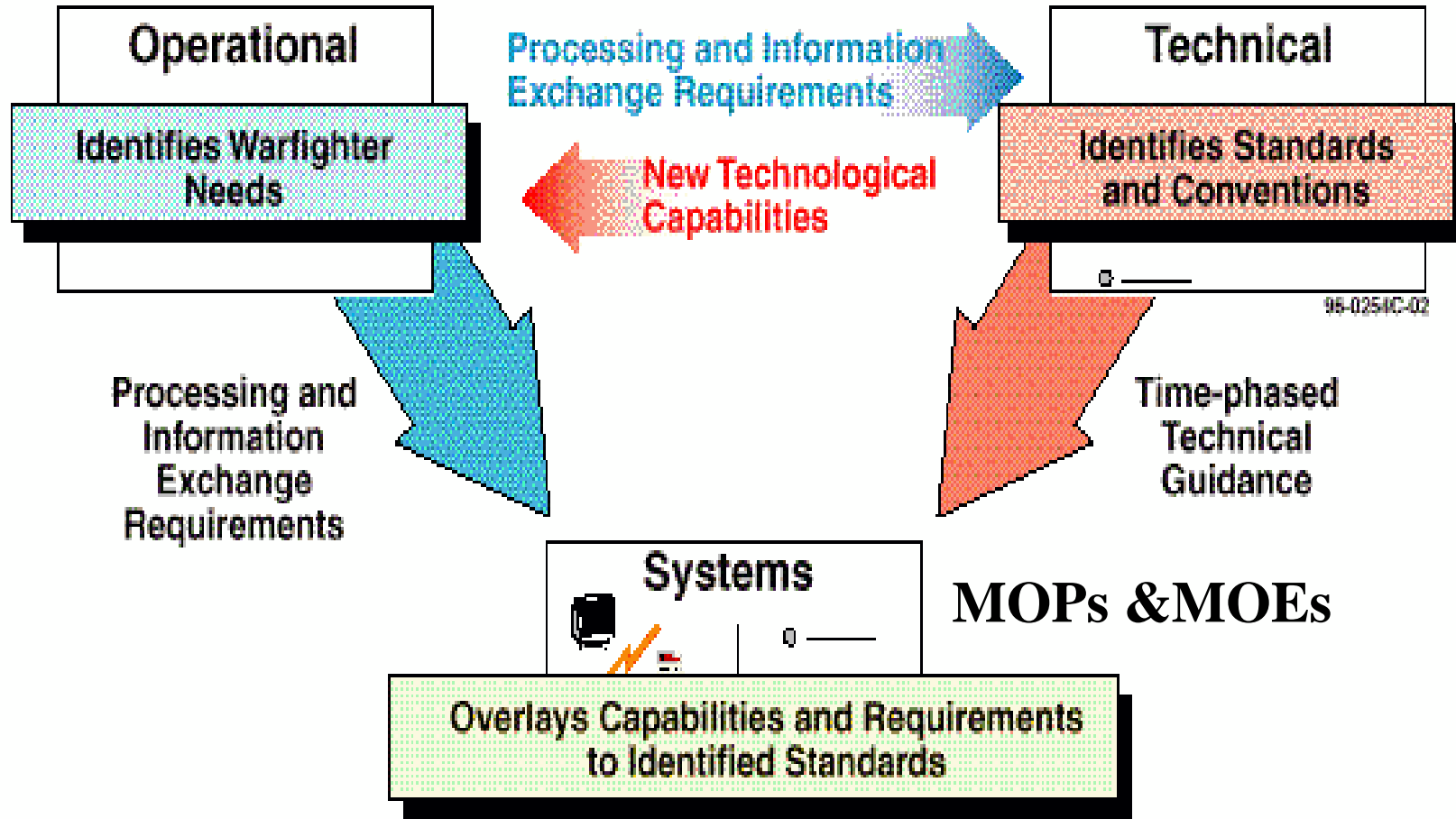


- Describes required capabilities (e.g., communications, interoperability) between any two nodes or at single nodes (e.g., processing)
- Separate charts used to focus on particular categories of requirements



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Required Capabilities Matrix



How Are System MOPs & MOEs Related To Capability?

How Can We Define A Measure OF CAPABILITY(MOC)?

- **MUST BE:**

- In terms of

- how well a combinations of means and ways are able to achieve a desired effect under standards and conditions through DOTMLPF*

- Which

- (a) is able to compare alternative combinations of activities

- (b) account for chance events, and

- (c) be conditioned on the MOPs and MOEs of systems involved in the activities associated with the particular capability

- **MORE WORK IS NEEDED!**

* Doctrine, Organization, Training, *Materiel*, Leadership and Education, Personnel, Facilities

SUMMARY AND CONCLUSIONS

- Reviewed The Concept and Methodology Of Capability-based Acquisition.
- Reviewed the Joint Capabilities Integration and Development System or JCIDS.
- Identified A Need For A Well defined Measure For Capability
- Indicated What Properties Such A Measure Must Have To Be Useful For The War Fighter.