



Defense Information Systems Agency

Department of Defense

ACTD/JCTD Transition (Focused on NECC)

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Agenda

- **Introduction**
- **Breaking the Transition Code**
- **Lessons Learned and Challenges**



What is DISA's Advanced Concepts Division's Role?

- **Provide an environment conducive to delivering capability to the warfighter faster, more effectively, and with greater accuracy.**
- **Technical Manager**
 - Plans, coordinates, and directs development activities
 - Develops life cycle cost estimates
 - Manages ACTD funding
 - Acquisition and programmatic support
 - Supports MUAs conducted by Operational Manager
- **Transition Manager/Transition Support**
 - Orchestrates transition planning and execution
 - Leads Transition IPT
 - Develops, updates, refines transition agreement
 - Supports TM and Lead Service in sustainment planning
 - Ensures out-year O&M funding



Entry Point for all JCTD's requiring DISA Participation



The most important thing
we do in an AC/JCTD is:
Rapidly transition new
capability to the warfighter!



Breaking the Transition Code



ACTD Process

(As Is)

- **Warfighter has a need**
- **Develops a proposal**
- **Enters proposal into the ACTD Process**
 - Review
 - Selection
- **Conducts the ACTD**
 - Development
 - Joint Military Utility Assessment (JMUA)
 - Extended User Evaluation
- **Transition**

JCTD candidates are currently generated in a separate process not tied or related to either the JCCD or the Program of Record



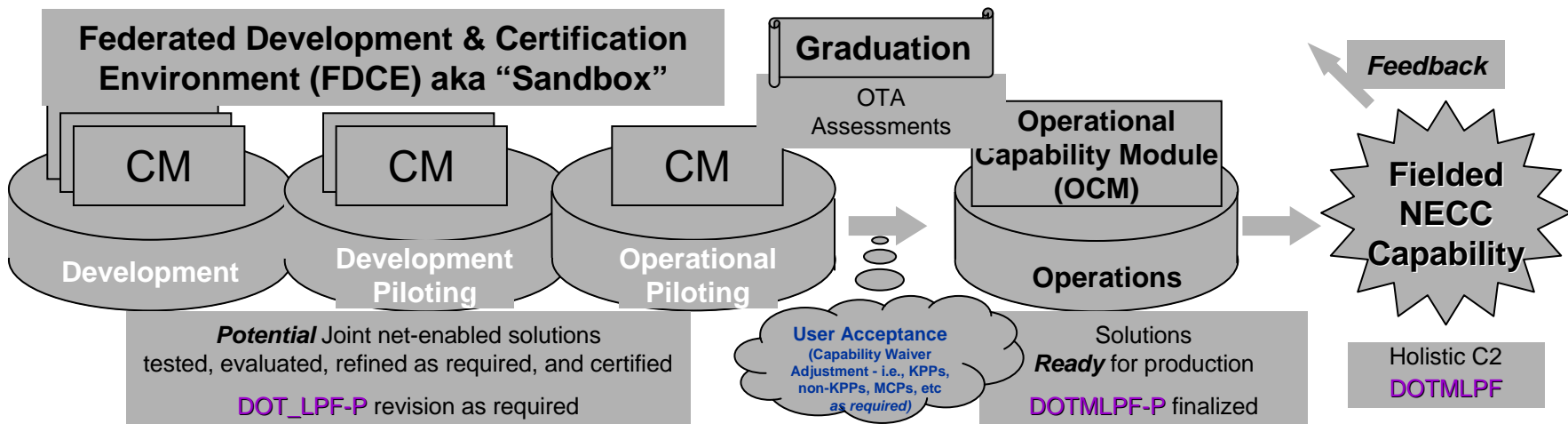
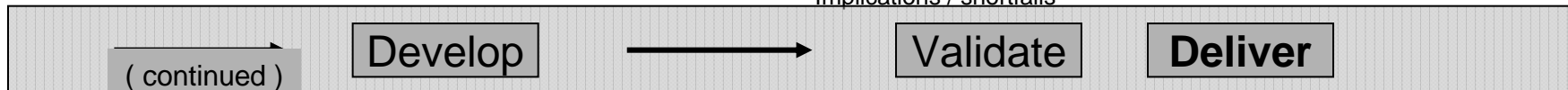
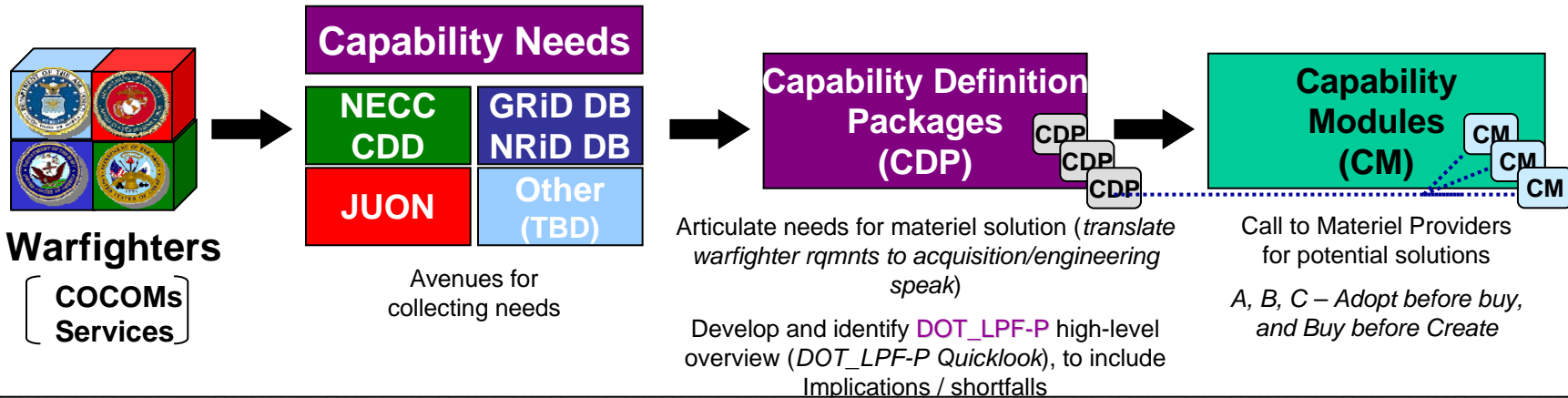
Conceptual JCTD Transition Process (To Be)

- **Requirements Generation**
- **Gap Analysis**
 - Metrics
 - Artifacts
- **OSD JCTD Process (~70% of new starts based on above 2 bullets)**
 - Proposals
 - Review
 - Selection
 - Based on agreement to transition
- **Agile Integration Environment (Fed Develop & Cert Environ (FDCE))**
 - Entry Criteria
 - Exit Criteria
- **Feedback Loop**

A consortium of players that work through this loop from start to finish

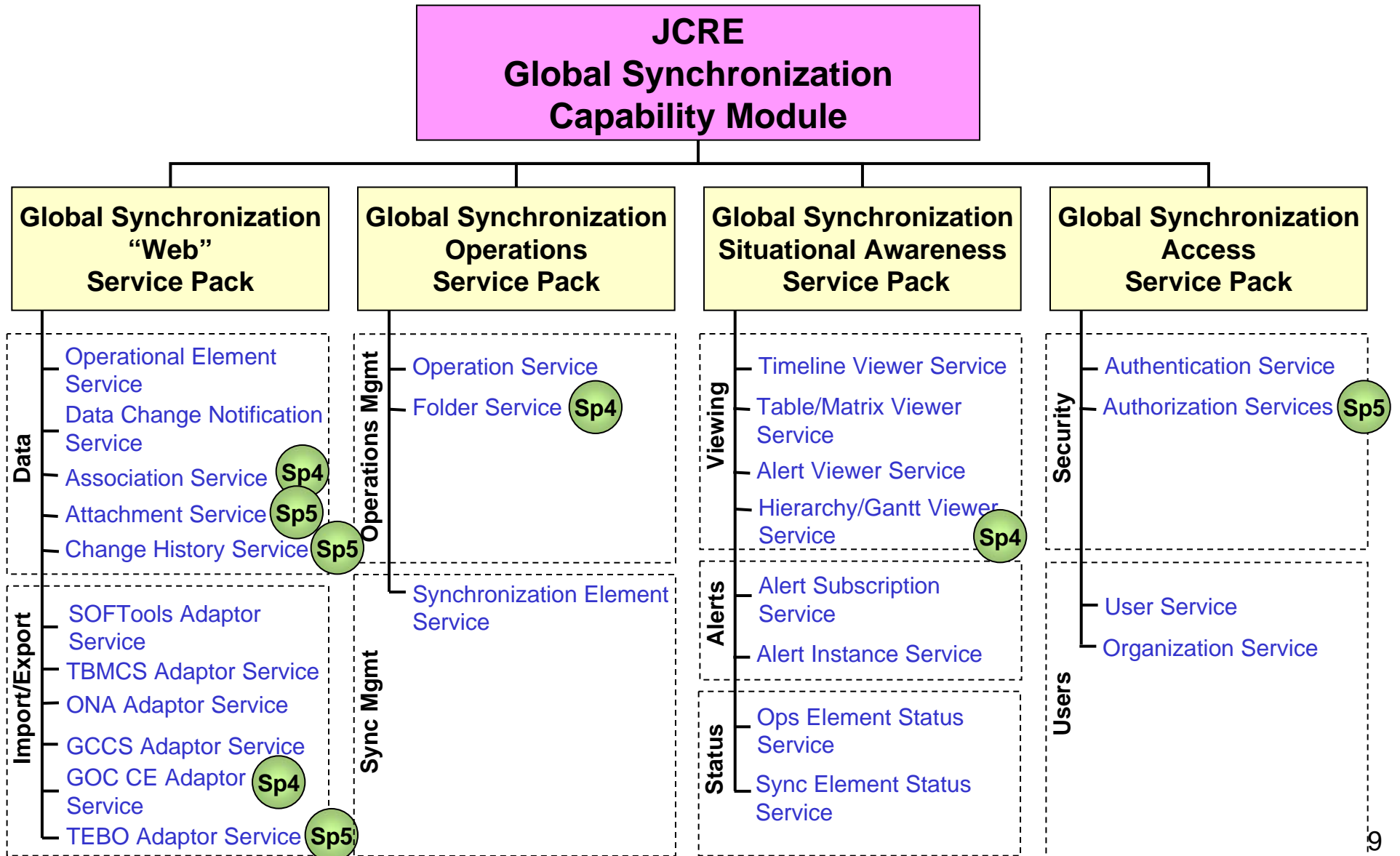


NECC Capability Development Integrated JCCD/FDCE Process





Capability Module





Entry Criteria

- **Map JCTD Capabilities to NECC CDD Requirements**
- Submit a work package for the Capability Module your JCTD fulfills
- Register as a Capability Module in the FDCE
- Fill out a component profile for each capability in the JCTD
- Create Architecture Assertions for the JCTD
- Schedule capability cataloging session with the POR Functionality Transition Team
- Participate in Capability Provision Events, as required by NECC (operational and technical)
- Map JCTD Capability Delivery Schedule to NECC CDP Development Schedule.
 - This will highlight the timeframe in which the JCTD will transition.
 - This will also highlight if additional funds are needed for further sustainment of the JCTD for transition to NECC
- Meet with NECC JPMO to further refine transition possibilities
- POR accepts Transition Manager Role



Exit Criteria

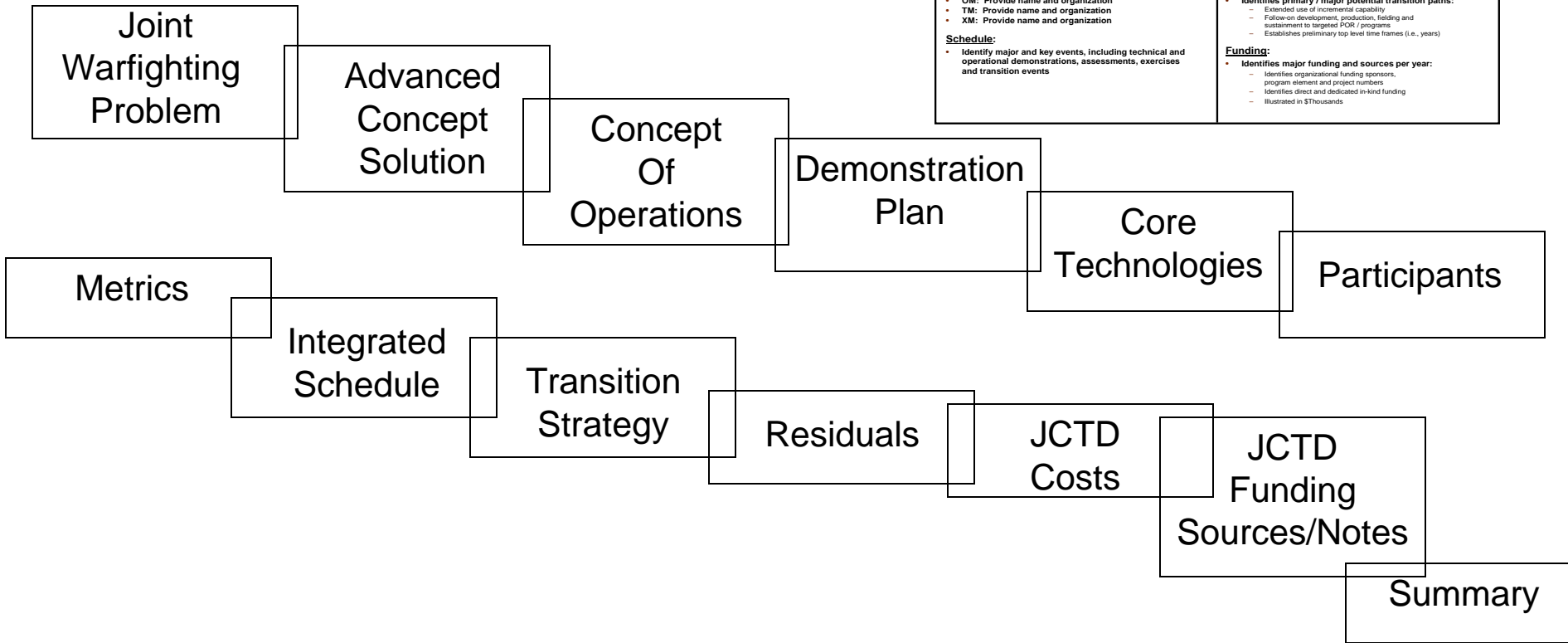
- **Successful JMUA**
- **Satisfies POR CDD requirement(s)**
 - ✓ **Demonstrated capabilities linked to CDD**
 - ✓ **OM coordinates concurrence with JFCOM JCCD Lead**
- **Transition and Sustainment Funding committed**
- **OM provides final CONOPS**
- **JCTD compliant with POR architecture compliant**
 - ✓ **Not a “up” or “down: call**
 - ✓ **Determine degree of compliance achieved and delta remaining for integration into the POR baseline**
- **JCTD achieves security accreditation and ATO issued**
- **Meet documentation requirements**



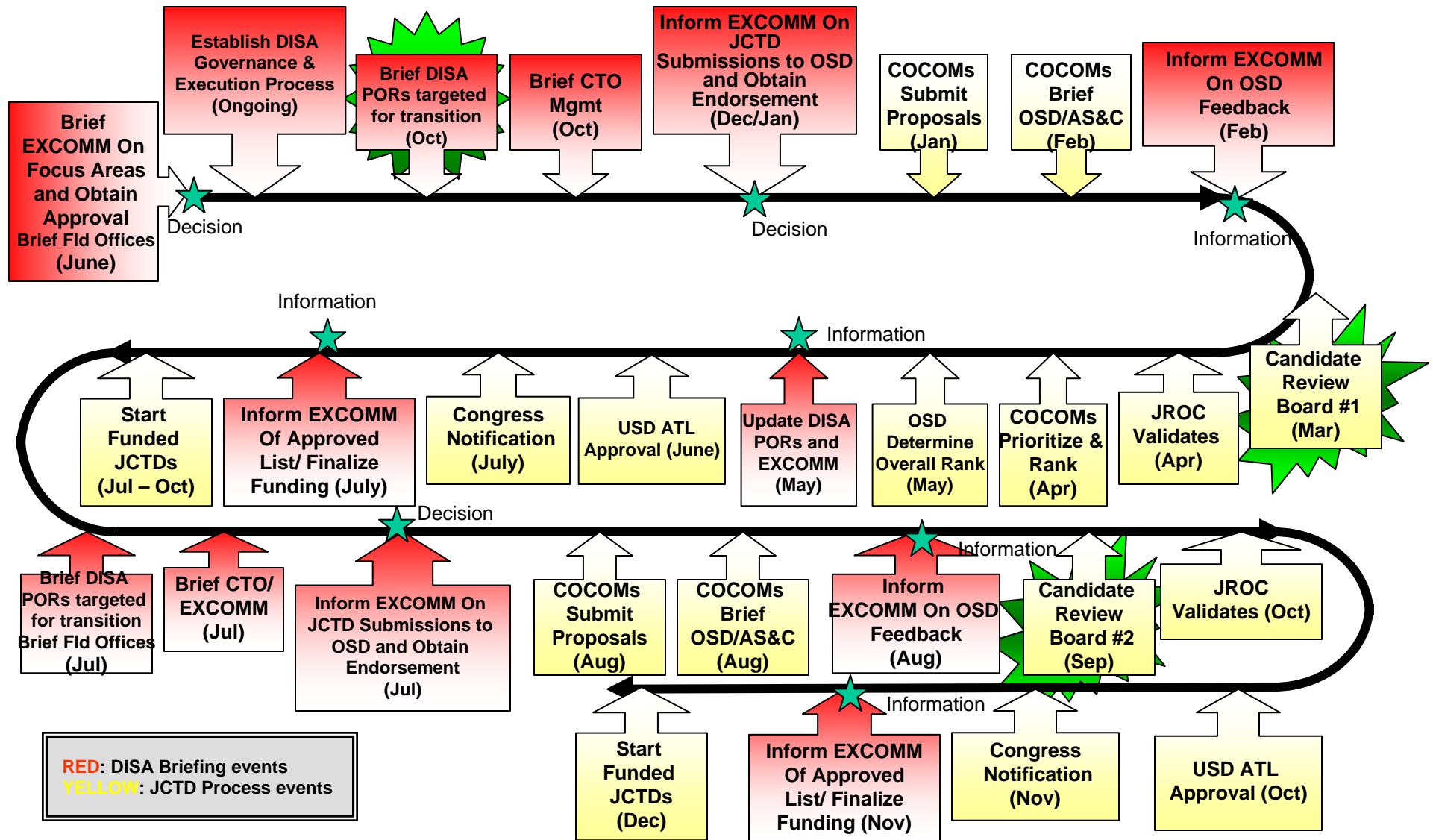
Candidate Proposal Package

1. White Paper
2. Quad Chart
3. Proposal Briefing Format

<p>Operational Problem:</p> <ul style="list-style-type: none"> Describe operational deficiencies / needs within an intelligence or operational organization that cannot be performed or is unacceptably limited <p>QV-1:</p> <ul style="list-style-type: none"> Operational concept graphic—top-level illustration of JCTD use in operational environment: <ul style="list-style-type: none"> Identifies the operational elements / nodes and information exchanges required to conduct operational intelligence analysis Serves to support development of the SV-1 architecture Format as a high-level structured cartoon like picture Illustratively describes the CONOP Supports development of the CONOP and TTP 	<p style="text-align: right;">FYXX</p> <p>Capabilities Solution:</p> <ul style="list-style-type: none"> Identifies: <ul style="list-style-type: none"> Key elements and components (e.g., sensors and processors, communications and systems) Operational organizational components (e.g., local sites and national control centers) Operational interoperability (e.g., external users COCOMs, Services, DHS, International partners) Defines: <ul style="list-style-type: none"> Operational and technical functionality / capabilities Information and technologies usage and sharing (e.g., exportability and classification) <p>Technologies:</p> <ul style="list-style-type: none"> Identifies key and core technologies for successful technical and operational demonstration of the Capabilities Solution Provides Technical Readiness Level (TRL) for each: <ul style="list-style-type: none"> Baseline at start of JCTD Projection at completion of last operational demonstration
<p>Participants:</p> <ul style="list-style-type: none"> User sponsor: Identify COCOM Lead agency: Identify lead service / agency OM: Provide name and organization TM: Provide name and organization XM: Provide name and organization <p>Schedule:</p> <ul style="list-style-type: none"> Identify major and key events, including technical and operational demonstrations, assessments, exercises and transition events 	<p>Transition:</p> <ul style="list-style-type: none"> Defines top-level overall transition strategy as Driven by Desired Capabilities, CONOP and Capabilities Solution Identifies primary / major potential transition paths: <ul style="list-style-type: none"> Extended use of incremental capability Follow-on development, production, fielding and sustainment to targeted POR / programs Establishes preliminary top level time frames (i.e., years) <p>Funding:</p> <ul style="list-style-type: none"> Identifies major funding and sources per year: <ul style="list-style-type: none"> Identifies organizational funding sponsors, program element and project numbers Identifies direct and dedicated in-kind funding Illustrated in \$Thousands



DISA FY08 DISA JCTD Process Timeline



CTO is the POC for ALL Proposals coming into DISA

The Players in the JCTD Process

- DUSD(AS&C) - “DoD’s Program Office”
- User Sponsor- JFCOM (COCOMs)
- Lead Service/Agency
- Oversight Executive (OE)- DUSD(AS&C) SME staff
- Joint Requirements Oversight Council (JROC)
- FCB WGs/FCBs/JCB
- Technical Manager (TM)- Service Lab, Agency
- Operational Manager (OM) - COCOM or Component
- **Transition Manager (XM)- PEO or SPO**

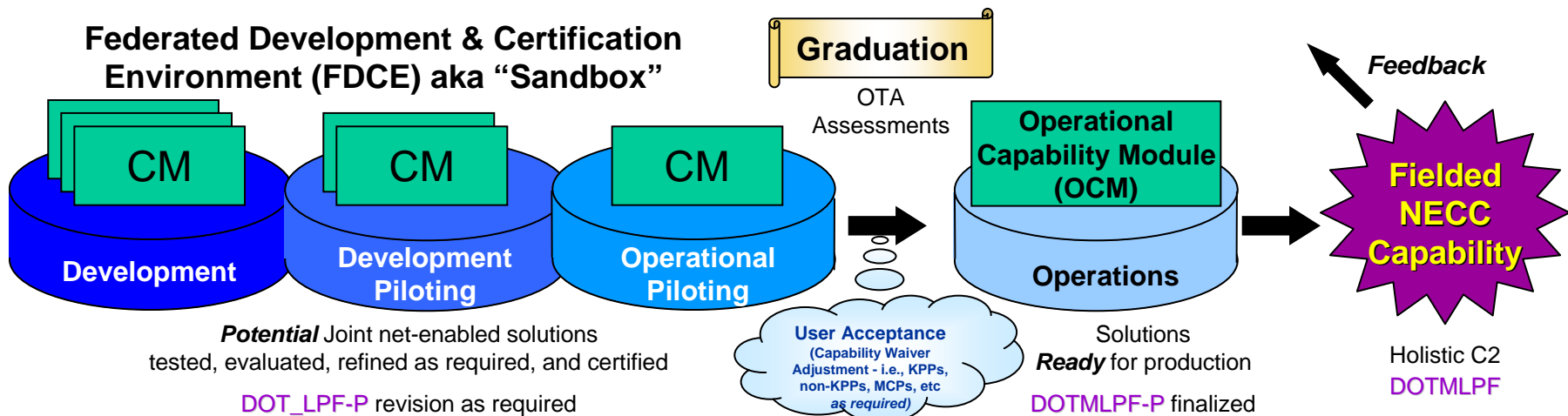
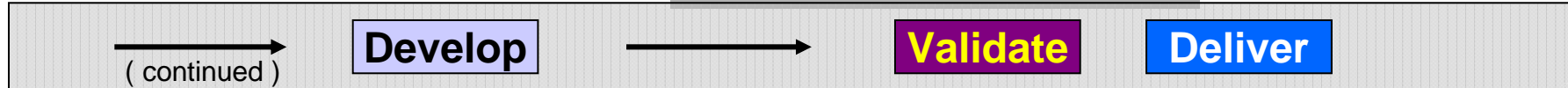
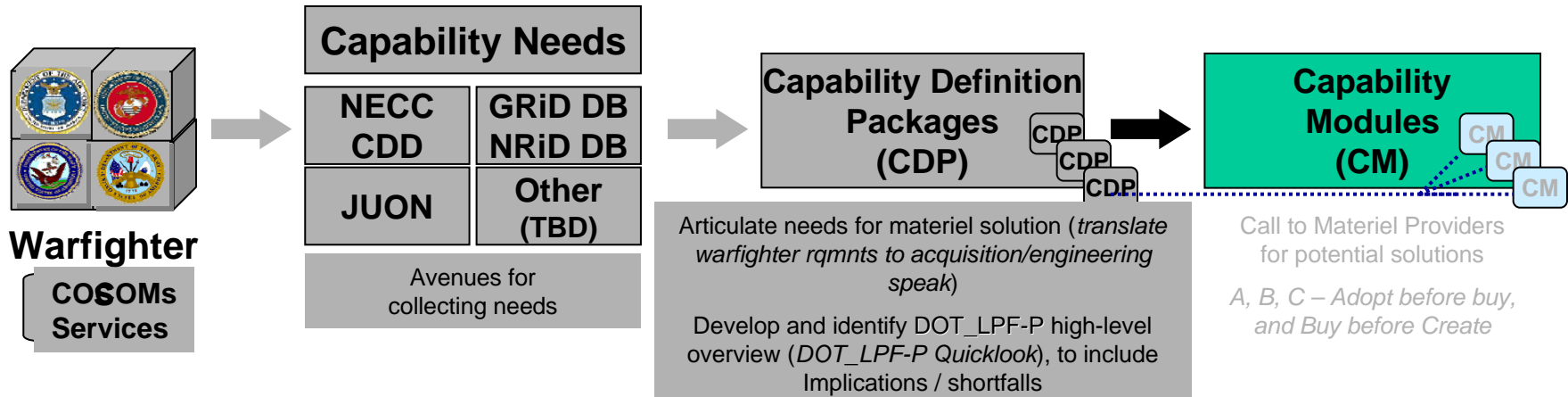
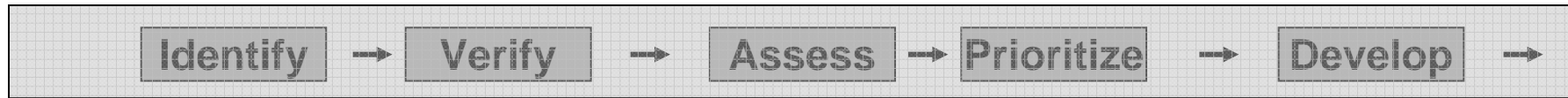


Transition Manager (XM)

- Provides day-to-day transition direction
- Serves as member of IMT (OM, TM, XM, OE)
- Co-develops Implementation Directive, Management and Transition Plan
- Plans for and supports possible EU of interim capability
- Leads the Transition IPT
- Participates and contributes to the OUA planning
- Participates and contributes to the CONOP and TTP development
- Identifies and facilitates funding for transition and EU support
- Leads required document development (ICD, CDD, Capabilities Production Document [CPD]), as needed
- Leads budget and POM development for transition to acquisition and coordinates with Services and agencies

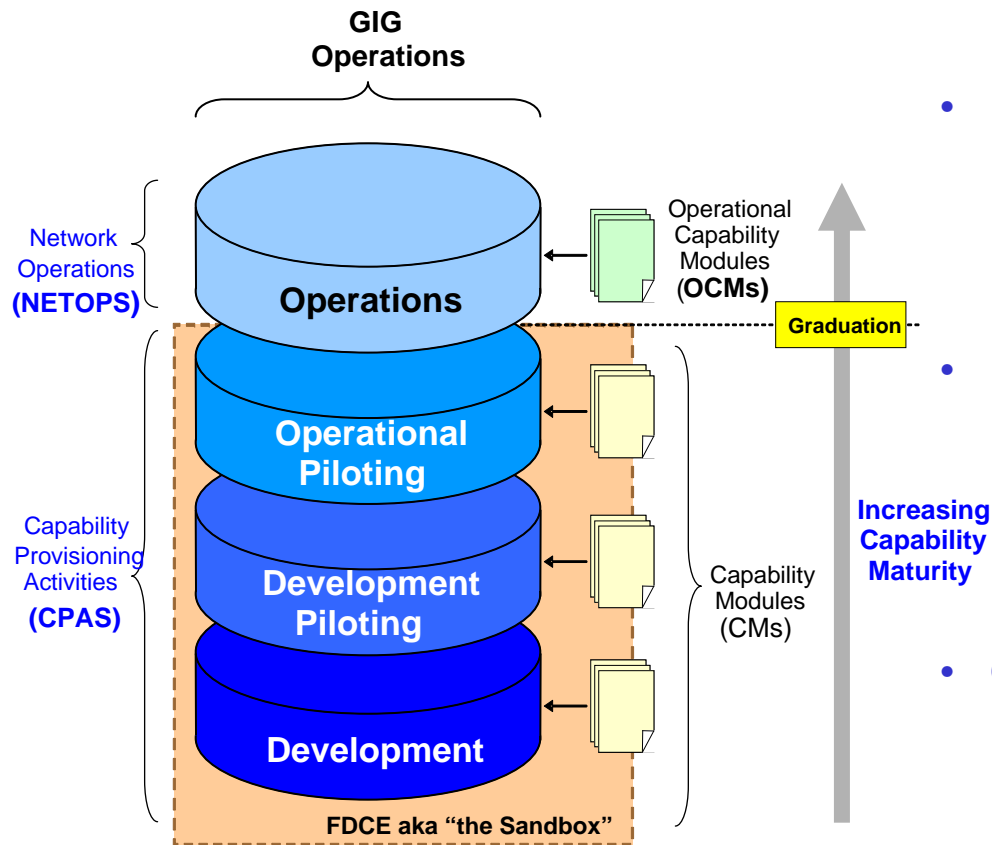


NECC Capability Development Integrated JCCD/FDCE Process





Maturing through the NECC FDCE Prototype



- **Development Stage**
 - Entry stage of maturity for CM development and certification
 - Focused on initial CM development, debugging, and technical exploration
 - Entrance criteria for this stage set as low as possible to minimize the barriers to participate
- **Development Piloting Stage**
 - Second stage of maturity for CM development and certification
 - Focused on testing and certifying the net-ready status of CMs
 - Entrance criteria for this stage is focused on a sufficient level of technical stability to ensure the CM is well behaved
- **Operational Piloting Stage**
 - Final stage of maturity for CM development and certification
 - Focused on evaluating and certifying the operational utility of CMs
 - Entrance criteria for this stage includes net-ready certification and demonstrated operational utility

• **A Capability Module is a collection of one or more services that provide an operationally useful capability**

- **Operational Capability Modules (OCMs) are Capability Modules that have been certified as sufficiently mature to support military operations**
- **Capability Modules (CMs) are Capability Modules that are not yet sufficiently mature for operations and are in process of being developed and certified**



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Advanced Concepts Office CTO/T02

Active ACTDs

- AT 21 ACTD
- CMS ACTD
- COSMOS ACTD
- EMF ACTD
- JCRE ACTD
- JFP ACTD
- Large Data JCTD
- TEBO ACTD
- TISC JCTD
- TSP JCTD
- Turbo Planner ACTD

Transitioned ACTDs

- HLS-D C2 ACTD
- ABA ACTD
- D-SIDE Project
- Gridlock ACTD
- JBFS ACTD

Additional Links

- CWID
- Media Center
- OSD-JCTD

Mission:
The Advanced Concepts Office provides the technical management, project management, and transition expertise to demonstrate the military utility of mature technology solutions. Working closely with the Deputy Undersecretary of Defense, Advanced Systems and Concepts (DUSD AS&C), CTO/T02 coordinates and manages the development, implementation, and transition of Advanced Concept Technology Demonstrations (ACTD) and Joint Capability Technology Demonstrations (JCTD).

Focus:
The right information, to the right person, in the right place, at the right time.

- Portfolio approach to managing our COCOM customers highest priority emergent requirements;
- Shaping the DOD net-centric force via DISA frameworks (e.g. NCES and NECC) and operational capabilities (e.g. DISN and DECCs);
- Experience and technical expertise of Technical Managers and Transition Managers; and
- Streamlined systems engineering process for small inter-related projects.

Scope:

- Command and Control (C2) and Combat Support (CS)
- Information Sharing
- NetOps
- Network Infrastructure

Registered Users

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