

The attached 30 Year Roadmaps are considered forecast data for planning purposes, do not represent a pre-solicitation synopsis, do not constitute an invitation for bid or request for proposal, and are not a commitment by the government to purchase the desired products and services

The JPEO-CBD, in conjunction with DTRA/JSTO, have developed 30 year roadmaps for each of the CBDP, and Radiological /Nuclear, Core Capability Areas, see below. The 30 year roadmaps were developed to visualize the current and future Science and Technology and Advanced Development Programs and how these programs relate to each other and fulfill capability gaps.

The 30 Year Roadmaps provide the Government's Intended Direction and Estimated Time Frames but the roadmaps must be viewed strategically, and not as stove piped efforts. We are looking for Capability Sets and Family of Systems.

The roadmaps are an indication of where we might be in 30 years based on current Science and Technology. JPEO-CBD/DTRA are looking to Industry to assist in reaching or exceeding the current targets and showing us the technological possibilities to redefine the targets and endpoints.

In addition to the roadmaps we have included the current Capabilities and Capability Gaps, Modernization Goals, S&T Needs and Technology Needs for each Core Capability Area

Core Capability Areas Represented:

- Respiratory and Ocular Protection
- Percutaneous Protection
- Expeditionary Collective Protection
- Personnel Contamination Mitigation
- Materiel Contamination Mitigation
- Biological Detection
- Chemical Detection
- Warning and Reporting
- Decision Analysis and Management
- Medical Diagnostics
- Biological Prophylaxis
- Chemical Prophylaxis
- Biological Therapeutics
- Chemical Therapeutics
- Expeditionary Analytics
- Radiological Detection

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Chemical and Biological Defense Program

CBDAIF Briefing Charting Our Course into the Future

Mr. Daniel McCormick
Joint Program Executive Office for Chemical and Biological Defense

May 7, 2015

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Agenda

- Intro/Welcome
- Objectives
- Changes in Business Practices
 - Better Buying Power
 - How is JPEO-CBD Doing Business Differently?
- Long-Term Planning Process
 - Assumptions
 - 30 Year Plan
 - Materiel Solutions Capability Assessment (MSCA)
 - Operational Risk Assessment
- Use of 30 Year Plan
 - What Does the 30 Year Plan Mean to Industry?
 - What is JPEO-CBD Looking For From Industry?
 - Industry Entry Points
 - Sets, Kits and Outfits
 - Demonstrations and Experiments
 - Joint United States Forces Korea Portal and Integrated Threat Recognition (JUPITR)
 - Current Advanced Technology Demonstration (ATD) Planning
 - Standard Acquisition Programs
- 30 Year Roadmaps
- Discussion of Way Forward

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Objectives

- Provide Insight to DTRA/JPEO-CBD's Future Direction and Long Term Planning

- Initiate Dialogue with Industry on 30 Year Planning Process
 - Initial Discussions with CBDAIF
 - Follow-on Discussions with Entire CBRN Commercial Industry

- Outline Where and How Industry can Participate
 - Demonstrations
 - Sets/Kits/Refresh Technology
 - Traditional Acquisition
 - Broad Area Announcement (BAA)
 - Request for Proposal (RFP)

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Better Buying Power

- Achieve Affordable Programs
 - Conducting a program at a cost constrained by the maximum resources the Department can allocate for a capability. These resources include funding, schedule and manpower.
- Control Costs Throughout the Product Lifecycle
 - The ability to understand and control future costs from a program's inception is critical to achieving affordability requirements.
- Incentivize Productivity and Innovation in Industry and Government
 - Reward contractors for successful supply chain and indirect expense management
- Eliminate Unproductive Processes and Bureaucracy
 - Unnecessary and low-value added processes and document requirements are a significant drag on acquisition productivity and must be aggressively identified and eliminated
- Promote Effective Competition
 - Real competition is the single most powerful tool available to the Department to drive productivity
- Improve Tradecraft in Acquisition of Services
 - The substantial amount of money spent on contract support services demands a management structure to strategically source these goods and services
- Improve the Professionalism of the Total Acquisition Workforce
 - It is the duty of the acquisition workforce to conduct itself with excellence, responsibility, integrity and accountability.

How is JPEO-CBD Doing Business Differently?

- Contracting
 - Joint Enterprise Research & Development Acquisition and Procurement (JE-RDAP)
- Other Transaction Authority (OTA)
 - Medical Consortium/RFI April 2015
- Industrial Base
 - Organic
 - Pine Bluff Arsenal
 - Commercial Partnerships
- Sustainment
 - Integrated/Joint Sustainment
- Long-Term Planning
 - 30 Year Plan

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Long Term Planning

Assumptions

- Chemical and Biological Defense Program (CBDP) budget will remain at about the same level
 - Distribution of CBDP budget between core capacities will remain relatively constant

- Threats will continue to evolve
 - New and Emerging Chemical Threats
 - New and Emerging Biological Threats, potential for modified/engineered organism
 - New Radiological and Nuclear Threats

The Changing Nature of the CBRN Threat



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Evolving Threat

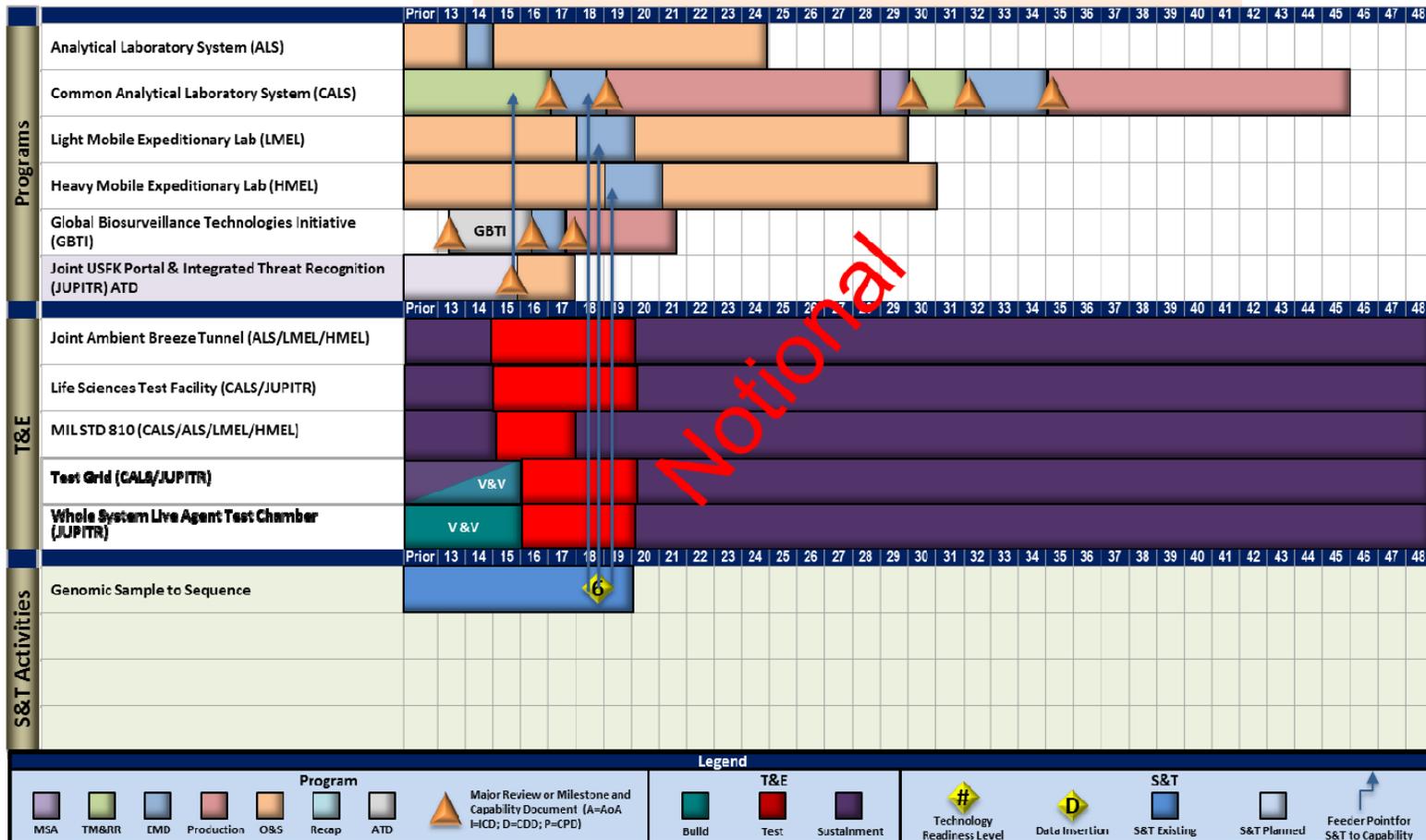
- How can we shorten delivery time of capability to counter the changing threat?
 - Insert New Technology (Shorter Refresh Timelines)
 - Modify current technology for new uses
 - Field Deployable Hydrolysis System (FDHS) (Syria)
 - Use of commercial off-the-shelf (COTS) when available
 - Military Personal Protective Equipment (PPE) was not appropriate for biological humanitarian response (Ebola)
 - Use of Developmental Medical Counter Measures
 - Increased use of Emergency Use Authorization approval from Food and Drug Administration (FDA)
 - Sets, Kits and Outfits
 - Buy and field new/adapted capability as a component

How can industry help us get ahead of the surprises?

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Long Term Planning Process

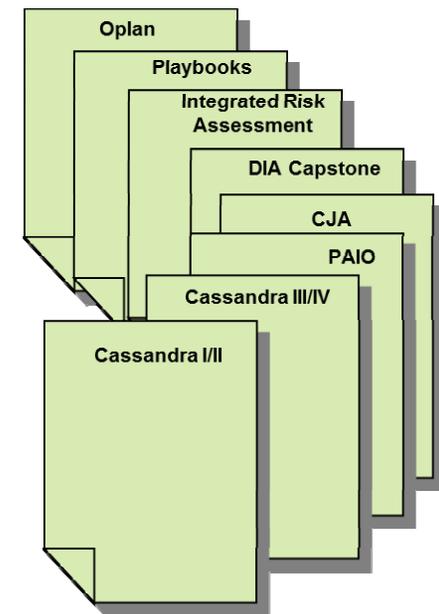
- Develop First Version of 30 Year Roadmaps to include Acquisition Phases and Time frames



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Long Term Planning Process

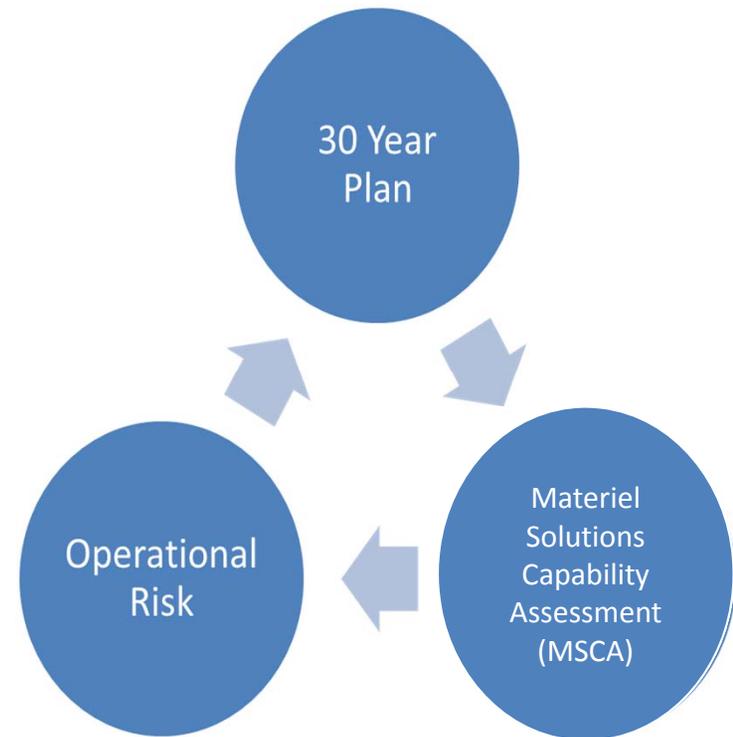
- **Operational Risk Exercises**
 - **Conduct a series of operational assessments evaluating current and near-future US CBRN-Defense capabilities against a capable and adaptable opponent.**
 - **Material Solutions available to Services during Exercises based on the Current 30 Year Plan and MSCA**
 - **Exercise Scenarios**
 - **Land Force in the Offense**
 - **Land Force in the Defense**
 - **Air Ops**
 - **Maritime/Amphibious Operations**
 - **Four Operational Risk Imperatives**
 - **Gain and Maintain Situational Awareness**
 - **Avoid Hazards**
 - **Protect from Hazards**
 - **Rapidly Restore and Regenerate Combat Power**



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Long Term Planning Process

- Revise 30 Year Plan
 - Determine S&T and Materiel Gaps based on both Operational Risk and MSCA
 - Develop programs to fill the Gaps within Fiscal Restraints
 - Modify or Accelerate programs based on Capabilities Provided through Demonstrations
- Update MSCA based on revised 30 Year Plan
- Determine the impact of Changes to 30 Year Plan on Operational Risk through additional Exercises
- Enduring planning process



Informs POM

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What Does the 30 Year Plan Mean to Industry?

- Government is looking at the Portfolio Differently
- 30 Year Roadmaps provide the Government's Intended Direction and Estimated Time Frames
 - Roadmaps must be viewed strategically
 - Not Stove Pipe Efforts
 - Capability Sets
 - Family of Systems
- JPEO-CBD/DTRA are looking to Industry to
 - Assist in Reaching or Exceeding the Targets
 - Show Us the Technological Possibilities to Redefine the Targets and Endpoints

How Can We Work Together to Give our War Fighters the Best Capability?

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What is JPEO-CBD Looking For From Industry?

- Partnership to Accelerate Introduction of New Technologies and Fielding of New Capabilities
- Insight into Emerging Technologies
 - What is possible in the future?
 - What are the Game Changing Technologies?
 - Where can industry help to solve the hard problems?

**We Want to Work With Industry to Accelerate
Fielding of Capability**

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Entry Points for Industry

- Sets, Kits and Outfits
 - Upgrade and Refresh as Technology becomes Available
- Demonstrations and Experiments
 - Insert emerging technology solutions into an operational environment for assessment
 - Evaluate Capability Sets
 - Technology Solutions to become Programs of Record within 3 Years
- Standard Acquisition Programs
 - MS B
 - MS C

Sets, Kits and Outfits

- Dismounted Reconnaissance Sets, Kits and Outfits (DR SKO)
 - Set of mission specific kits to characterize and provide full spectrum CBRNE dismounted reconnaissance capability
 - Detection and identification
 - Volatile organic compounds
 - Toxic industrial chemicals/materials
 - CWAs and BWAs
 - Oxygen levels & combustible gases
 - Individual personal protective equipment
 - Decontamination equipment
 - Marking, sampling, and reporting
 - Modernization
 - Manages Obsolescence
 - Potentially adds Emerging Threats, Unmanned Capabilities & Net-centric communications

**Sets, Kits and Outfits Refresh
to Occur as New Technology is Available**

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JPEO-CBD-CBD Demonstrations & Experimentation

Desired Outcomes

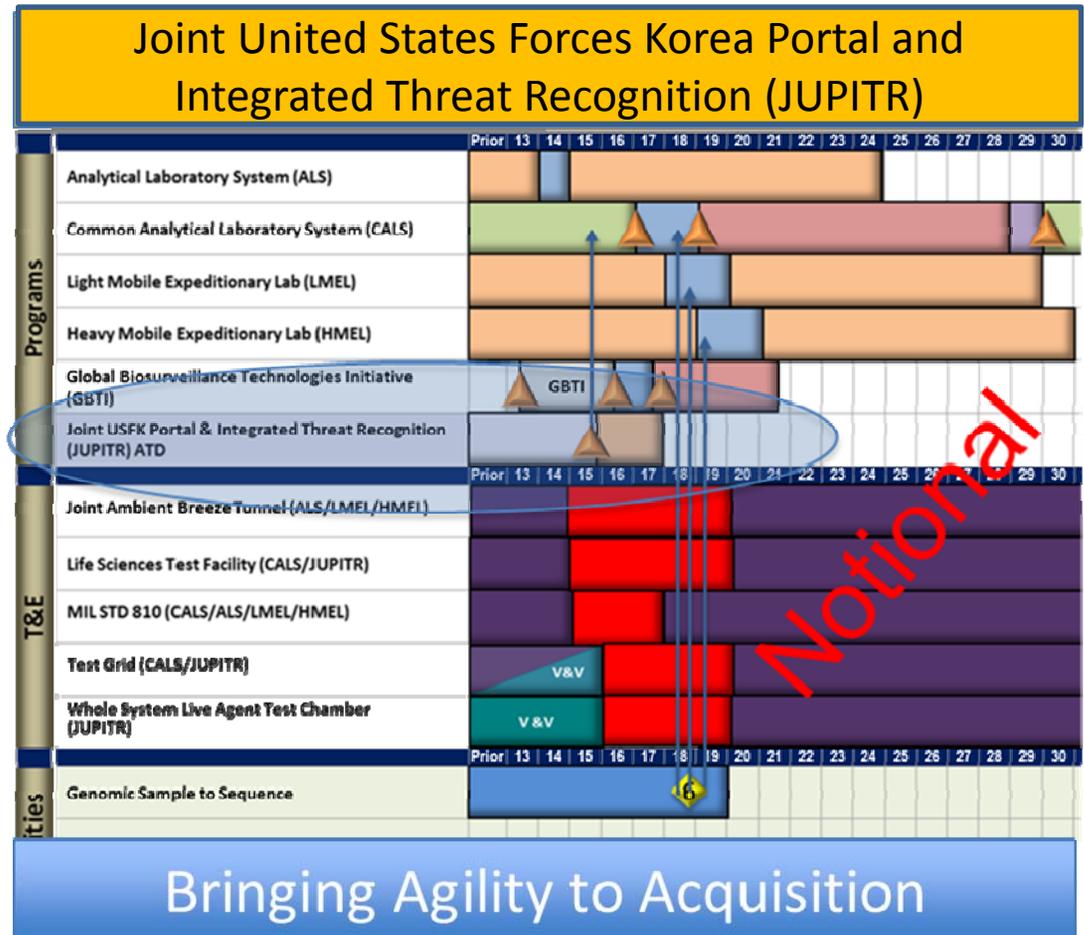
- Demonstrations and Experimentation
 - Address operational capability gaps utilizing a Family-of-Systems approach
 - Inform requirements and current programs
 - Assist in the refinement of Doctrine/CONOPS/TTPs
 - Assess and increase the TRL of technologies
- Desired Outcomes
 - Quickly deliver interim operational capability
 - Embrace Better Buying Power 3.0
 - Reduce acquisition cycle
 - Standardize COTS
 - Leverage Sets, Kits and Outfits (SKO)
 - Minimize sustainment costs

PORs to Begin 3 Years after ATD
Fielding to Begin 3 Years after Start of POR

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JPEO-CBD Demonstrations and Experiments

- JPEO-CBD-CBD demonstration topics will:
 - Employ technologies with a very high likelihood for transition and able to provide an initial increment of operational capability in the residual phase
 - Demonstrate key cross cutting and integrating concepts within the JPEO-CBD portfolio inclusive of whole Countering Weapons of Mass Destruction (CWMD) scope



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Joint United States Forces Korea Portal and Integrated Threat Recognition (JUPITR)

JUPITR has four legs:

#1: Biological Identification Capability Sets (BICS)

- Regional labs established and equipped.
- Inform Common Analytical Laboratory System (CALS)

#2: Assessment of Environmental Detection (AED)

- Address Joint Portal Shield program of record (POR)
- Reduce Risk for Joint Biological Tactical Detection System POR
- Inform Navy shipboard biological detection POR

#3: Early Warning (EW)

- Inform Integrated Early Warning Requirements generation

#4: Biosurveillance Portal (BSP)

- Provided capability to Korea
- Inform Global Biosurveillance Portal POR



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Upcoming Advanced Technology Demonstration (ATD)

Problem Statement

The Joint Force Commander requires an enhanced and integrated CBRNE operational capability to execute mission command and conduct CBRNE operations to counter the range of complex CBRNE threats.

ATD Opportunity

The Joint CBRNE problem space is vast and complex, spanning DOTLMPF domains. We need Joint participation to ensure the ATD is scoped, prioritized and executed to maximize return on investment.

ATD Goals

- **Address Each of the Focus Areas**
 - **Inform Multi-Service doctrine, organization, training, Materiel, leadership and education, personnel, and facilities and policy (dotMlpfp)**
 - **Reduce reliance on COTS and improve sustainability and mobility, while gaining efficiencies in materiel and non-materiel solutions**
 - **Develop and demonstrate operational capability sets**
 - **Inform requirements and programs**
 - **Conduct Technical and Operational Demonstrations to support an independent assessment and Military Utility Assessment (MUA)**
- **Operationalize emerging doctrine from Army Techniques Publication (ATP) 3-37.11 *CBRNE Task Force Operations*, Command CONOPS and TTPs through home-station training and CTC rotations**

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Focus Areas (FA)

Focus Areas adapted from CBRNE Task Force capabilities observed at
NTC 14-08 / ATROPIAN PHOENIX & NTC 15-05



- **FA A – Protection.** Improve tailorable, flexible, integrated protective ensemble (Family of Systems) that enhances Soldier performance



- **FA B – Contamination Mitigation.** Improve personnel and materiel contamination mitigation capabilities, which enhance mission effectiveness and reduce logistical requirements



- **FA C – Characterization.** Improve capabilities to appropriately identify, characterize, assess, exploit, and ultimately, destroy CBRNE hazards



- **FA D – Analytics.** Improve laboratory capability and capacity for sample management and Theater Validation of CBRNE and Unknown Samples



- **FA E – Situational Awareness.** Improve battlefield situational awareness and provide real-time reach back capability that supports timely and mission focused decisions across the battle space

The Goal of the ATD is to Address each of these Focus Areas

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Focus Area A

Protection. Improve tailorable, flexible, integrated protective ensemble (Family of Systems) that enhances Soldier performance

Protective Ensemble



Ensure soldiers are adequately protected against CBRNE hazards and can maintain operational tempo on the objective

- Respiratory Protection & Ocular Protection
- Percutaneous Protection
- Voice Communication
- Thermal Burden Mitigation

FA A

System w/Joint Equities:

- M53 for specialized teams
- UIPE I/II
- CBRN PPE interoperable w/EOD ensemble
- Integrated TCAPS into PPE
- Thermal burden reduction technologies
- Half mask for bio threats (N95)
- SCBA hot bottle swap

Physiological Monitoring



Maintain soldier protection using situational awareness throughout the arch of a CBRNE event

- Thermal Monitoring
- Physiological Tracking
- Temporal Geo-location in threat situations

FA A

System w/Joint Equities:

- Physiological Monitoring Harness
 - Blood Pressure, HR, EKG, Resp, Temp, Accelerometer
 - Geospatial Tracking
 - Wireless Transmission (E.2.2)
 - Dashboard/Presentation Application (E.2.2)

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Focus Area B

Contamination Mitigation. Improve personnel and materiel contamination mitigation capabilities, which enhance mission effectiveness and reduce logistical requirements.

System w/Joint Equities:

- Scalable Decon SKO (MOPP/Bucket/ Disclosure FoS/Coatings/etc.)*
- Disclosure FoS
 - CIDAS
 - NGCD Variant 2/3
 - M256A2
 - M8/M9
- Candidate technologies for Next Generation Personnel Decon (NGPD)
- Expand capability of Joint Service Equipment Wipe (JSEW)
- Coatings
 - CARC
 - Sealant
 - Omniphobic
 - Field Expedient (covers, tarps, etc.)

Contamination Mitigation

Ensures enterprise limits the number of soldiers that are contaminated and simplifies subsequent mitigation steps and supplies required to maintain operational readiness



- Technical Decontamination
- Pre-exposure (e.g. Coatings)
- Sensitive Equipment
- Decontamination Assurance

FA B

Focus Area C

Characterization. Improve capabilities to appropriately identify, characterize, assess, exploit, and ultimately, destroy CBRNE hazards.

Individual Analytics

Provides personalized protection data to enhance task force effectiveness and individual protection



- Radiological Dosimeters
- Operational integration of physiological monitoring

FA C

System w/Joint Equities:

- NGCD 1/3 Candidates (low level)
- IndentiFINDER (Isotope Det)
- Gamma Spectrometer HR RIID
- CIDAS (Colorimetric capability)

Field Analytics

Synchronizes field analytics capability in support of the maneuver commander to provide effective situational awareness of the CBRNE threat



- Low-level/Non-intrusive detection
- Improved metal detection for EOD
- Standoff Rad detection
- Log simplified CBRN sampling

FA C

System w/Joint Equities:

- IndentiFINDER (Isotope Det)

Situational Threat Characterization

Enables JTF Commander to identify areas of concern and provide a comprehensive CBRNE operational assessment



- Hazard Mapping
- Use of drones and unattended sensors to map zone
- Information tools to organize zone mapping

FA C

System w/Joint Equities:

- Unmanned platform sensor integration
- Radiological Air Monitoring (Pending OSD-NM \$)
- Collection and Analysis (Pending OSD-NM \$)

* Opportunity to edit/exercise/validate NTA Commanders Guide

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Focus Area D

Analytics. Improve laboratory capability and capacity for sample management and Theater Validation of CBRNE and Unknown Samples Soldier performance

Laboratory Analytics

Provides JTF Commander rapid, comprehensive and integrated source of accurate CBRNE information



- Biodetection Tech Refresh
- Augment Forensic Lab Capability
- Sample Screening
- Lab Info Management System

FA D

System w/Joint Equities:

- Laboratory Information Management System (LIMS)

Focus Area E

Improve battlefield situational awareness and provide real-time reach back capability that supports timely and mission focused decisions across the battle space

Command, Control, & Communications

Enables reach back, data, and information to the enterprise for CONUS assessment. Improves. Enables the sharing of operational data with maneuver commander



- Multi-echelon Integrated Communication
- Improve TOC solutions
- Integrated CBRNE C2 System

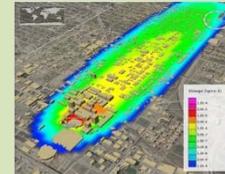
FA E

System w/Joint Equities:

- Separately Funded Army Excursion

Decision Management & Analysis

Consolidates information for the commander to make effective and timely decisions for CBRNE operations



- Physiological Monitoring Tool
- Operational Decision Support Application
- Contamination Mapping Tool

FA E

System w/Joint Equities:

- COP Applications for Physiological Status Monitoring System
- COP Applications for Contamination Mapping Capability
- COP Applications for Laboratory Information Management System (LIMS)
- COP Application for Sample Tracking
 - Shout Nano
 - RFID Tags (TaCDOGS expansion, etc.)

Warning & Reporting

Enables task force to provide accurate information to subordinate and higher echelon units for assessment and sample management



- Improved Situational Awareness
- Sample Information Management Tool Set

FA E

System w/Joint Equities:

- Integrated Sensors
 - Dosimetry
 - CBRN Sensors
 - RN Monitors
- HazCam

ATD - Wave Approach

WAVE #1

Protective Ensemble



FA A

- Respiratory Protection
- Ocular Protection
- Percutaneous Protection
- Voice Communication
- Thermal Burden Mitigation

Physiological Monitoring



FA A

- Thermal monitoring
- Physiological tracking
- Temporal Geo-location in threat situations

Contamination Mitigation



FA B

- Technical Decontamination
- Pre-exposure (e.g. Coatings)
- Sensitive Equipment
- Decon Assurance

WAVE #2

Individual Analytics



FA C

- Radiological Dosimeters
- Operational integration of physiological monitoring

Field Analytics



FA C

- Low level detectors
- Improved metal detection for EOD
- Standoff rad detection
- Logistically simplified CBRN sampling

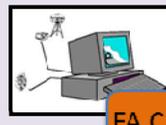
Laboratory Analytics



FA D

- Replace M1-M Biodetection
- Augment forensic lab capability

Situational Threat Characterization



FA C

- Hazard Mapping
- Use of drones/unattended sensors to map zone
- Information tools to organize zone mapping

WAVE #3

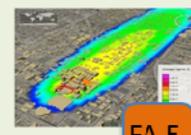
Command, Control, & Communications



FA E

- Multi-echelon integrated communication
- Improve TOC solutions
- Integrated CBRNE C2 System

Decision Mgmt & Analysis



FA E

- Physiological monitoring Tool
- Operational Decision Support Application
- Contamination Mapping tool

Warning & Reporting



FA E

- Improved situational awareness
- Sample information management tool set

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ATD Schedule & Industry Opportunities

FY15	FY16	FY17	FY18	FY19	FY20	FY21	Wave Total
	Wave 1 Execution	Wave 1 Residual					
		Wave 2 Execution	Wave 2 Residual				
			Wave 3 Execution	Wave 3 Residual			

- NEAR TERM
 - Solicit Industry (FEDBIZOPS Request For Information).
 - Identifying potential candidates for each wave.
 - TRLs, Effectiveness, Suitability, Multi-purpose Utility, Cost, Available Test Data, Size Weight and Power (SWaP)

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30 Year Roadmap Topics

- Gaps
- Programs and efforts Planned or ongoing to meet gaps/goals
- Key attributes within programs and efforts designed to close gaps
- When industry “good ideas” have opportunity to transition
 - Experimentation/Demonstration
 - JPEO-CBD ATD/Limited Objective Experiment
 - DTRA ATD
 - Tech refresh
 - Improved technology available
 - Traditional program
 - BAA
 - MS A
 - MS B
- Who can industry talk to for each project?

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30 YEAR ROADMAPS

- CORE CAPABILITY AREA DISCUSSIONS BEGIN

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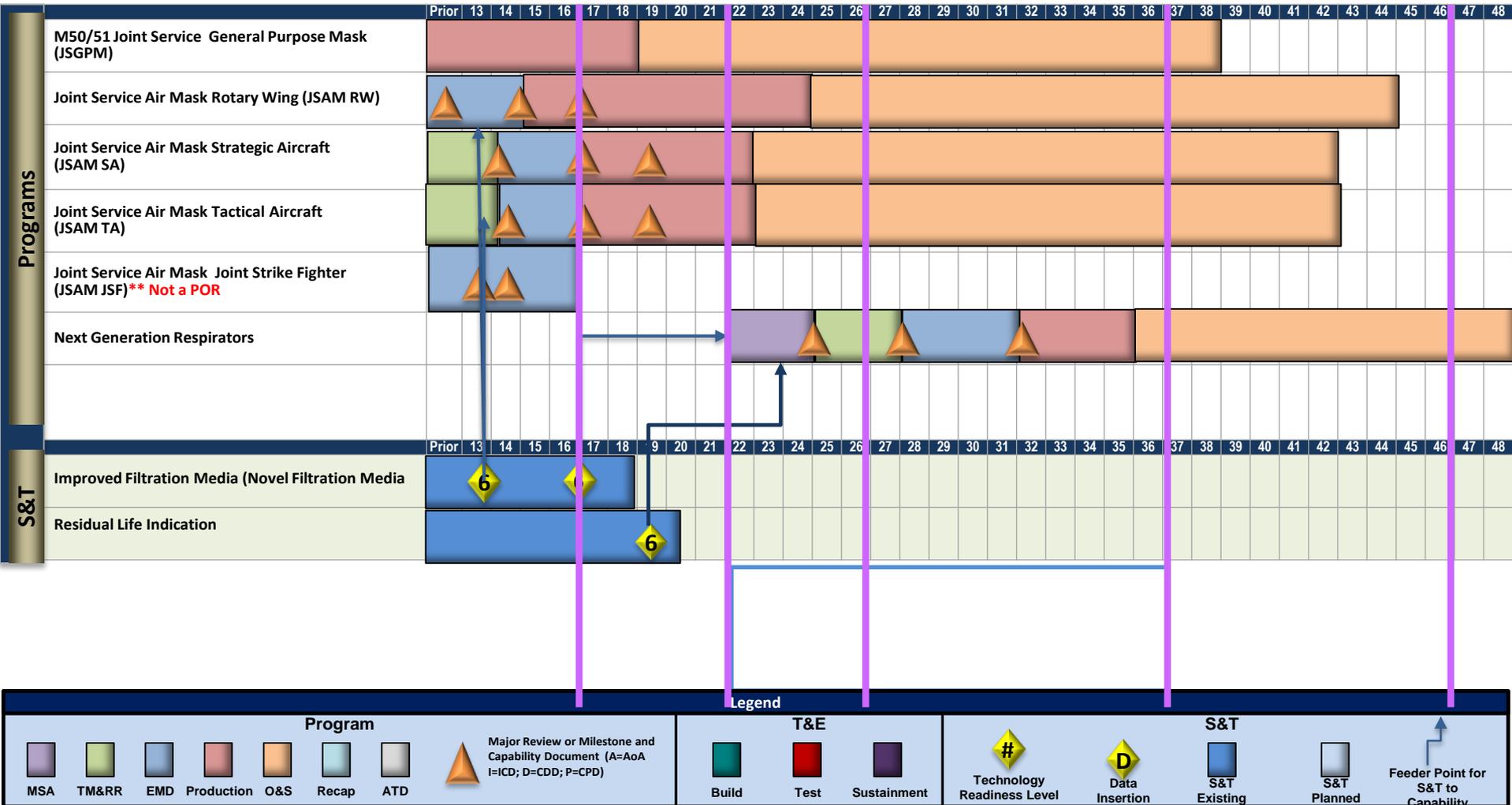
Chemical and Biological Defense Program

CBD AIF Briefing Charting Our Course into the Future Core Capability Area Roadmaps

May 7, 2015

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Respiratory and Ocular Protection

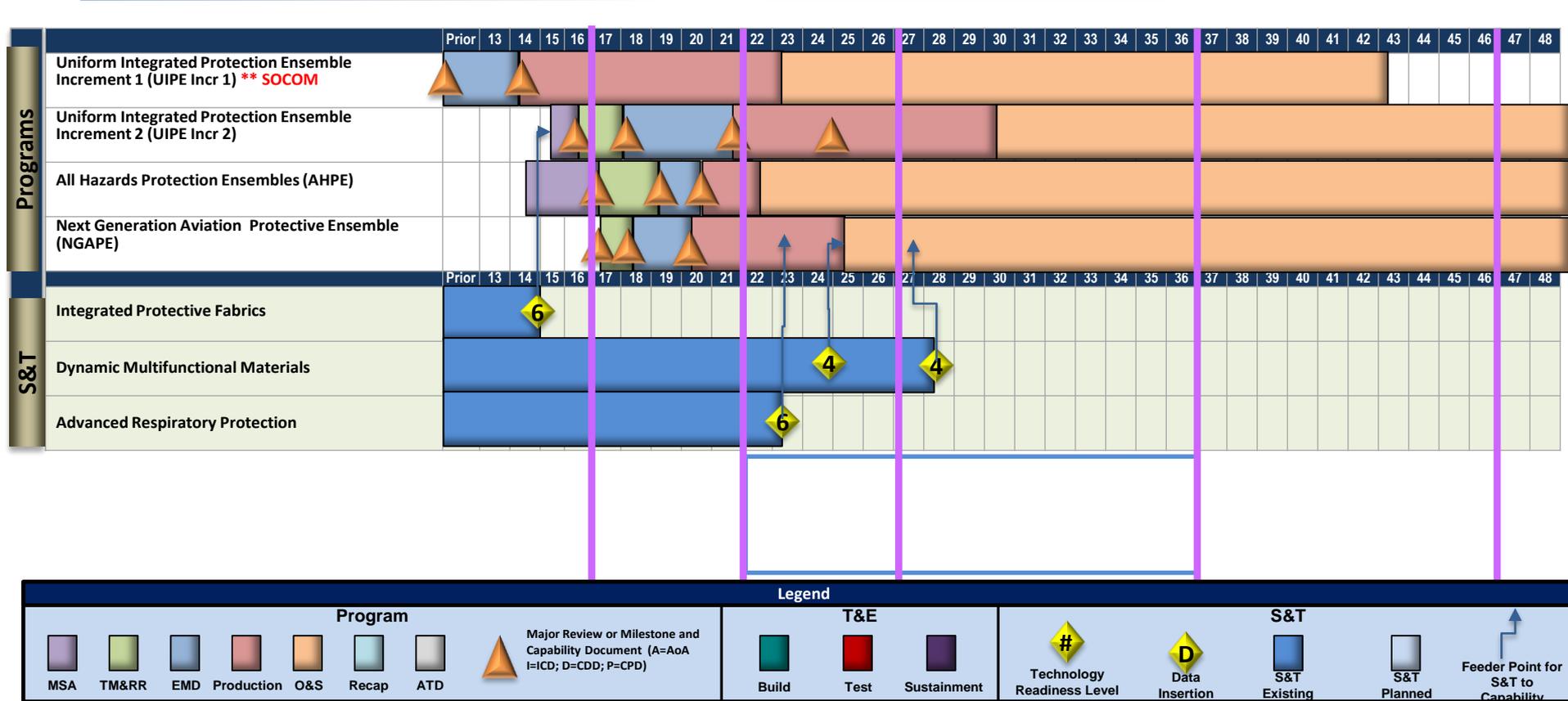


Current as of 20 April 2015

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Percutaneous Protection

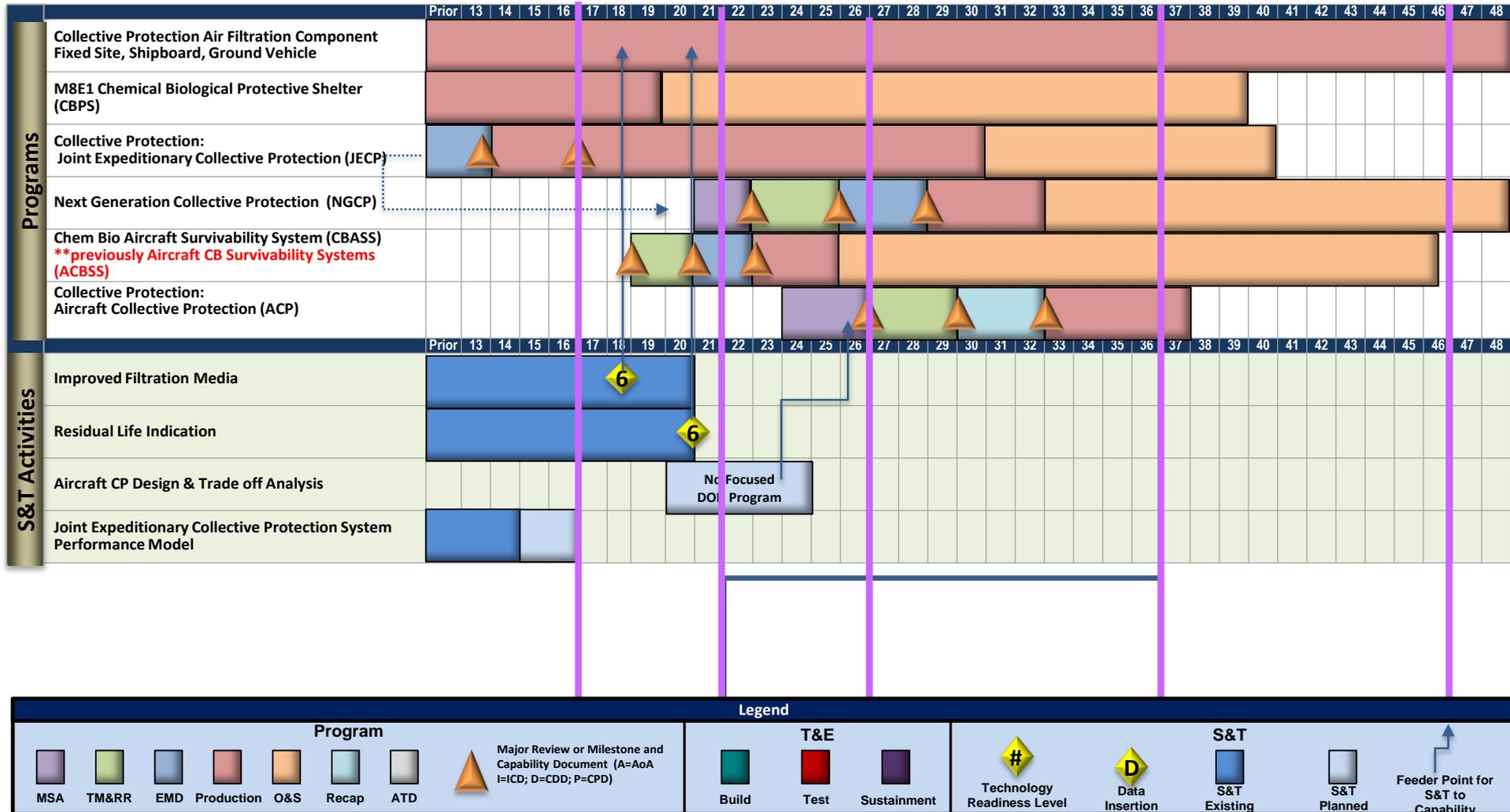


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Expeditionary Collective Protection

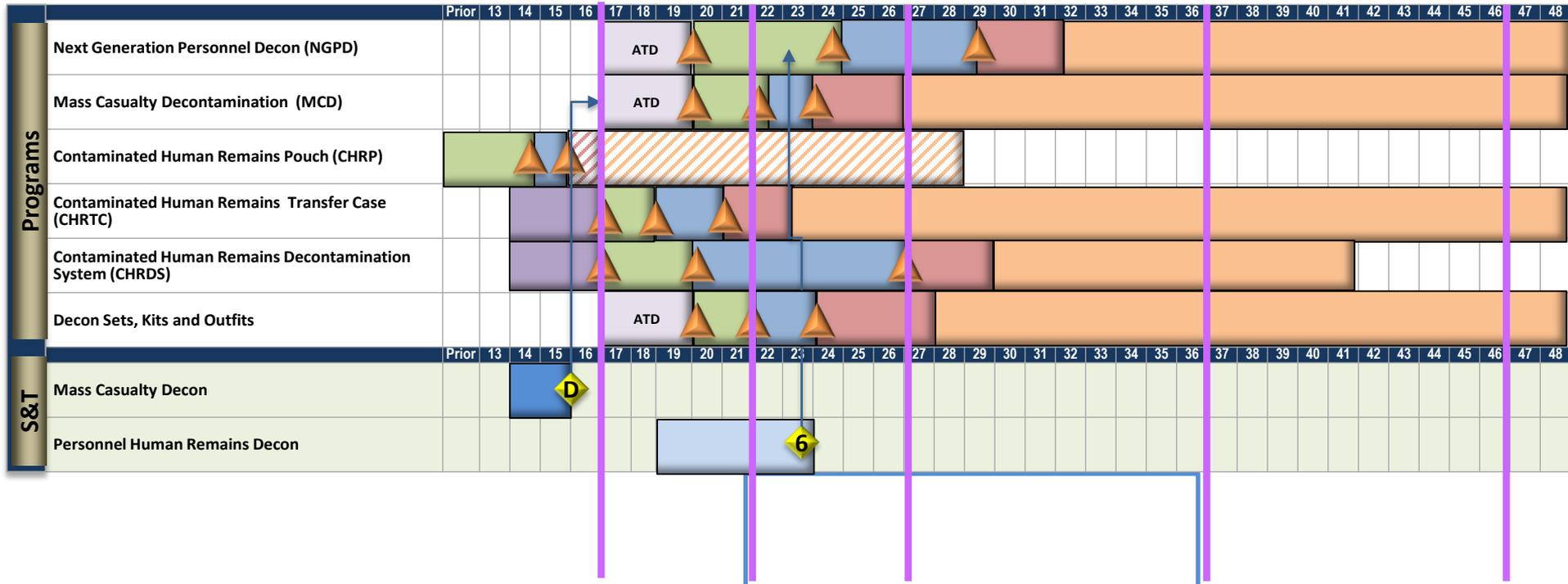


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Personnel Contamination Mitigation

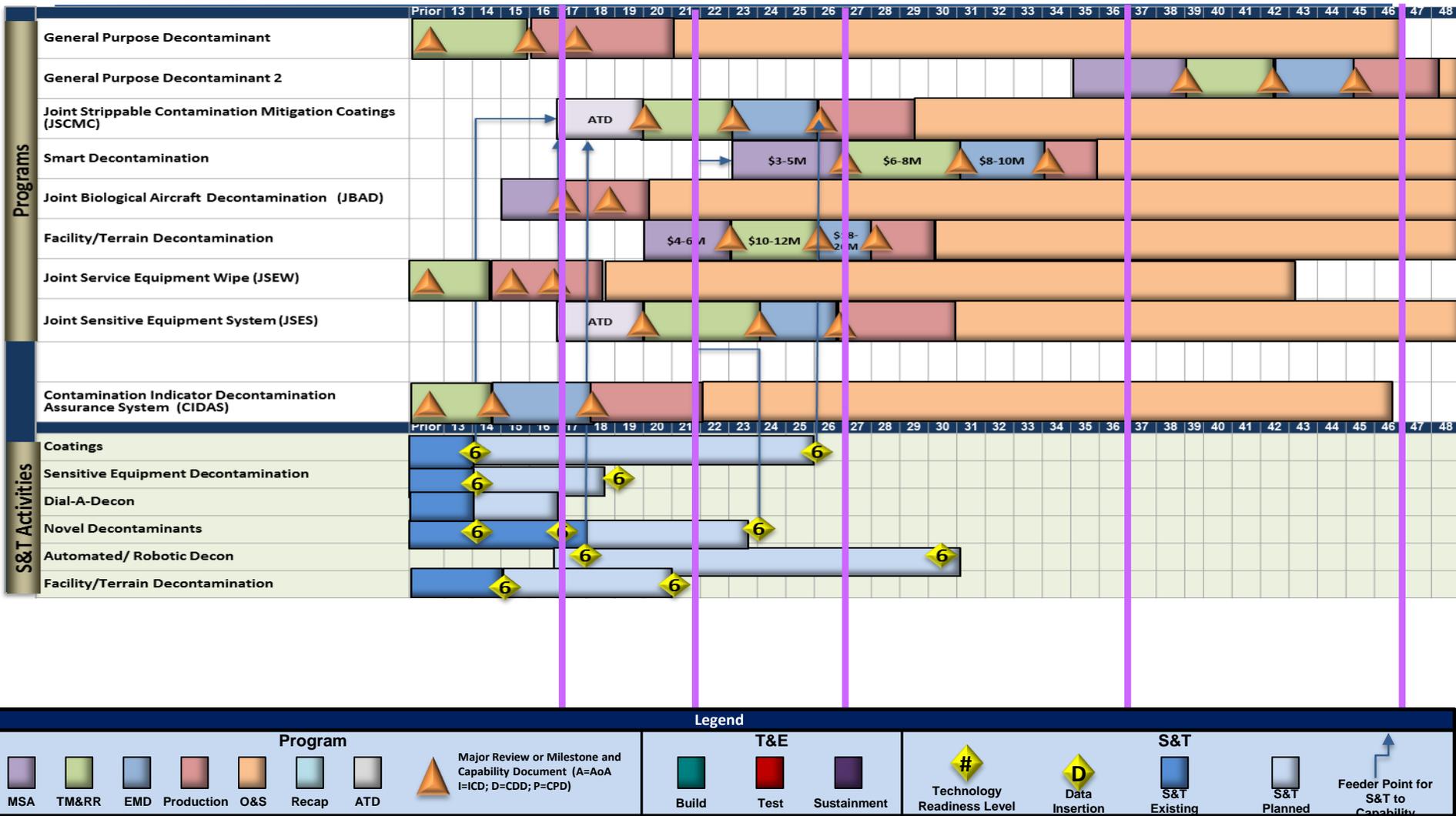


Current as of 20 April 2015

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DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

Materiel Contamination Mitigation

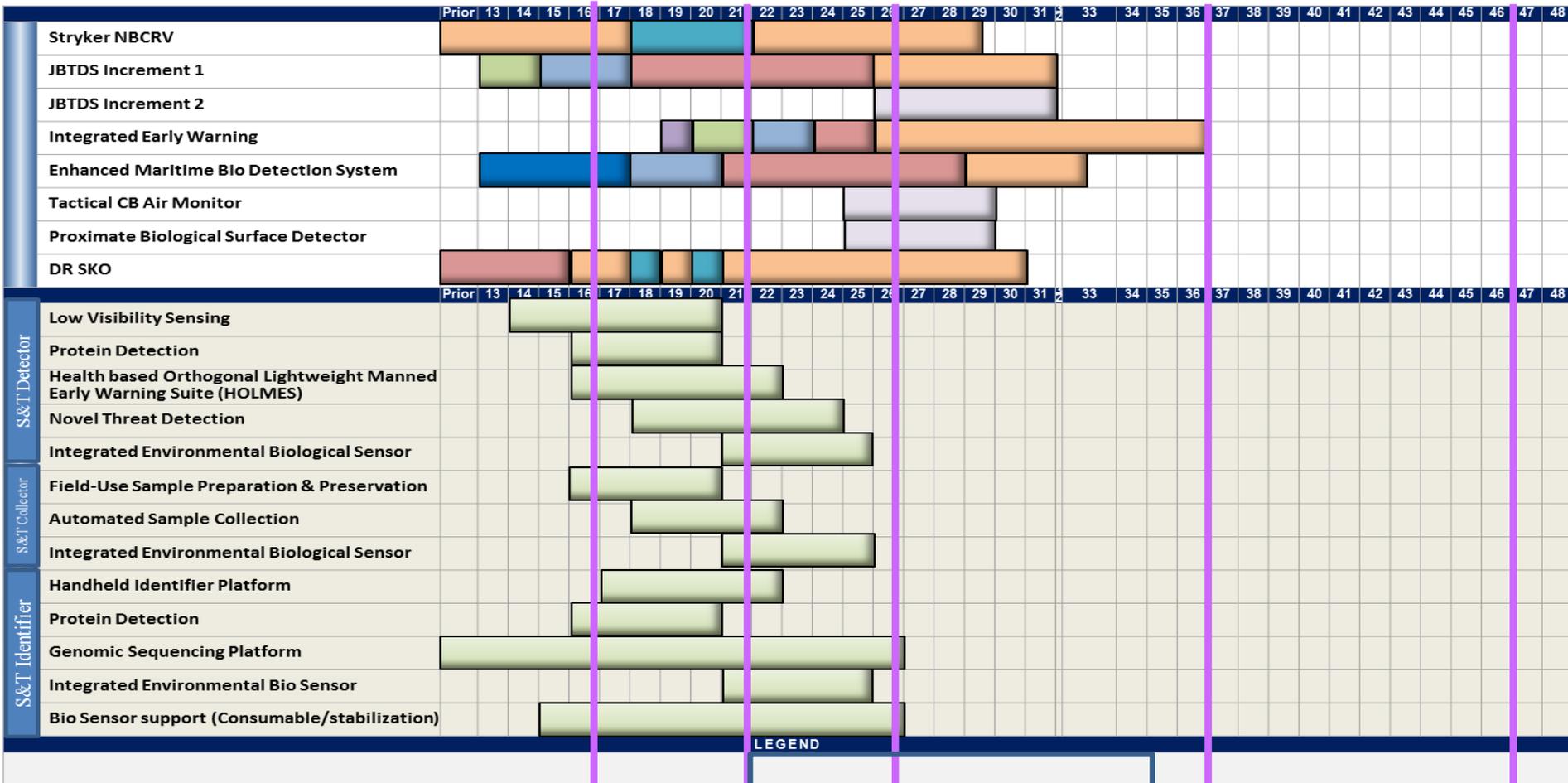


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Biological Detection



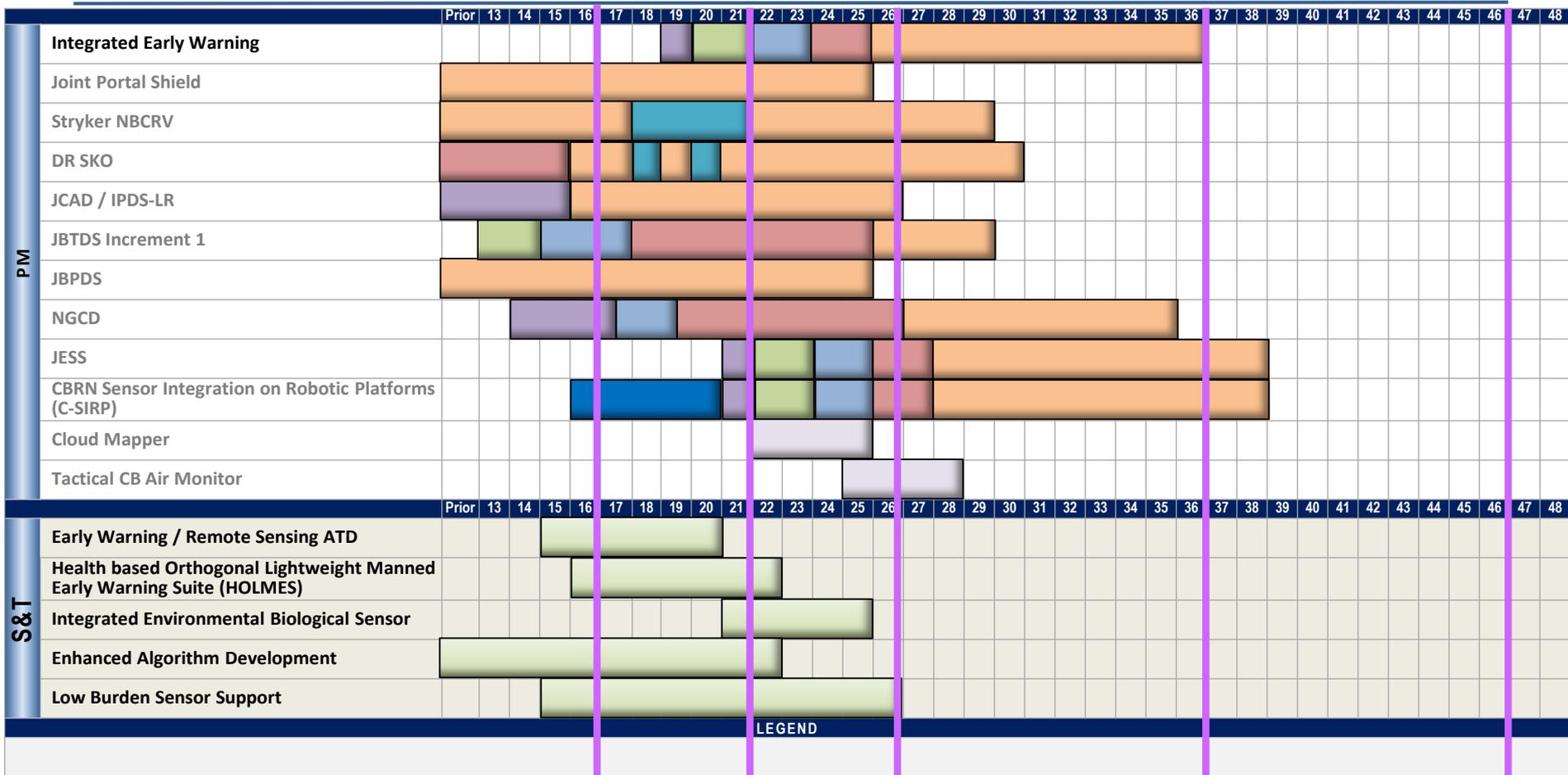
Current as of 20 April 2015



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Early Warning



LEGEND

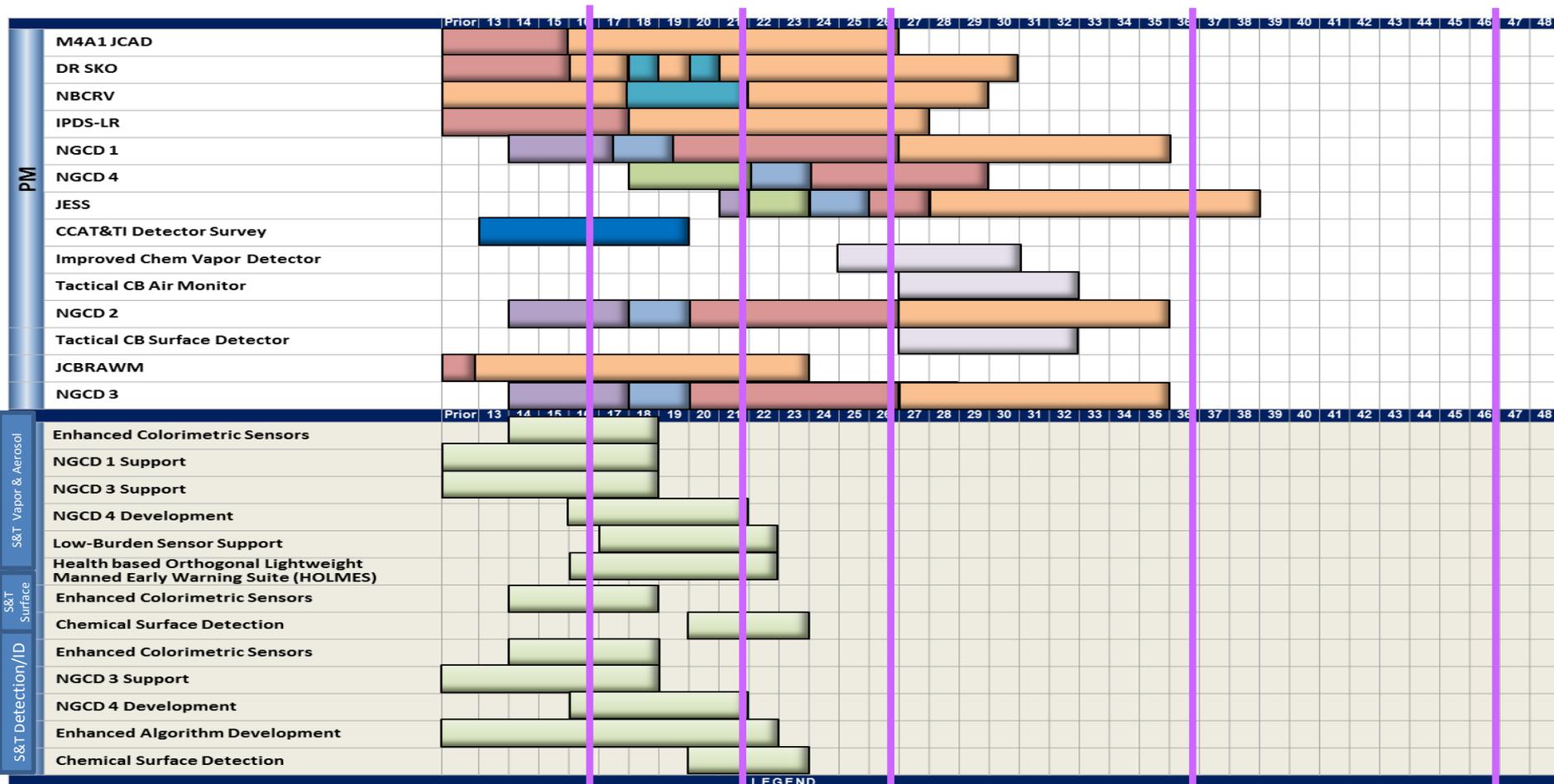


Current as of 20 April 2015

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Chemical Detection



LEGEND

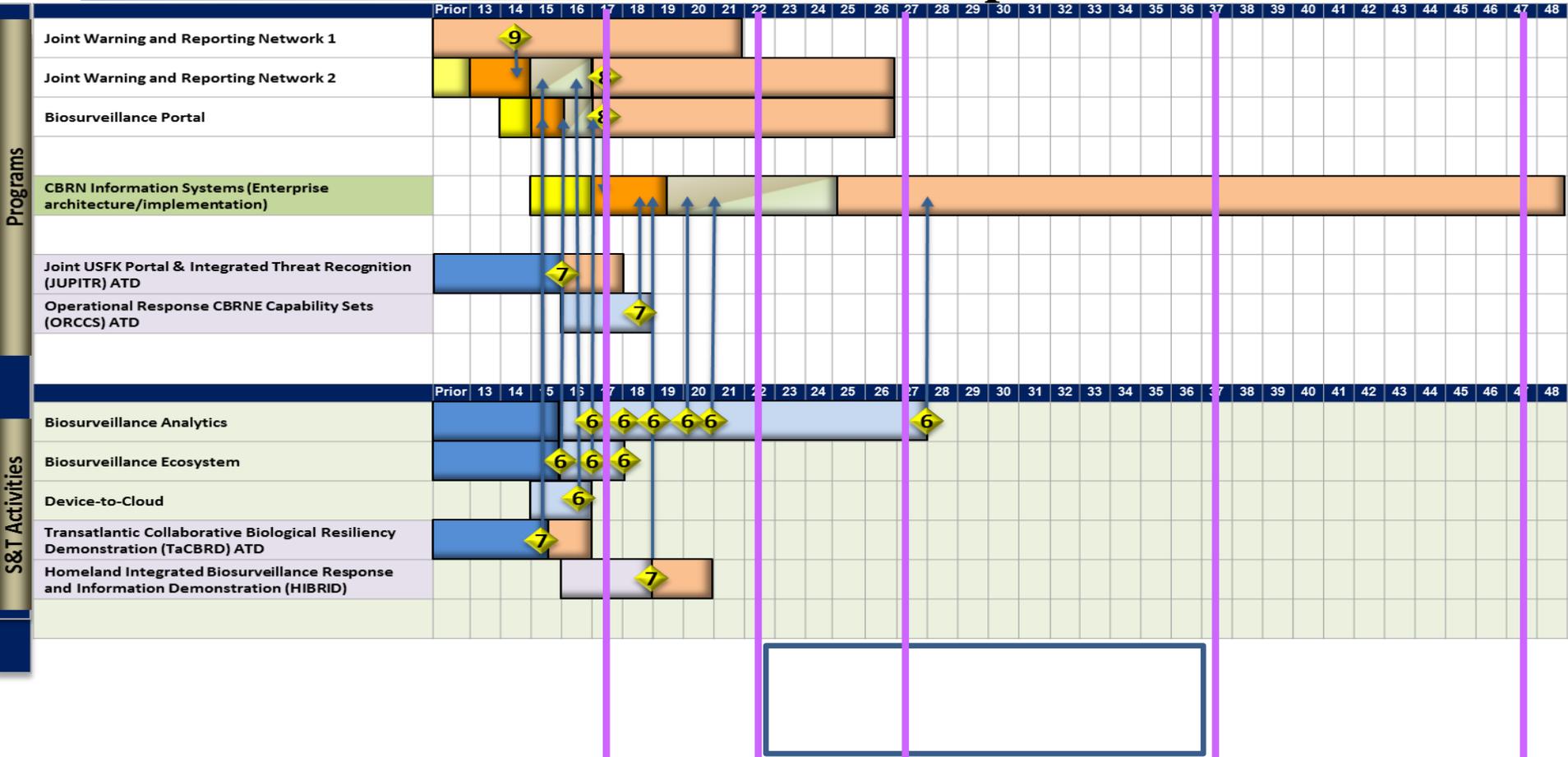


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Warning and Reporting: Modified Roadmap



Legend

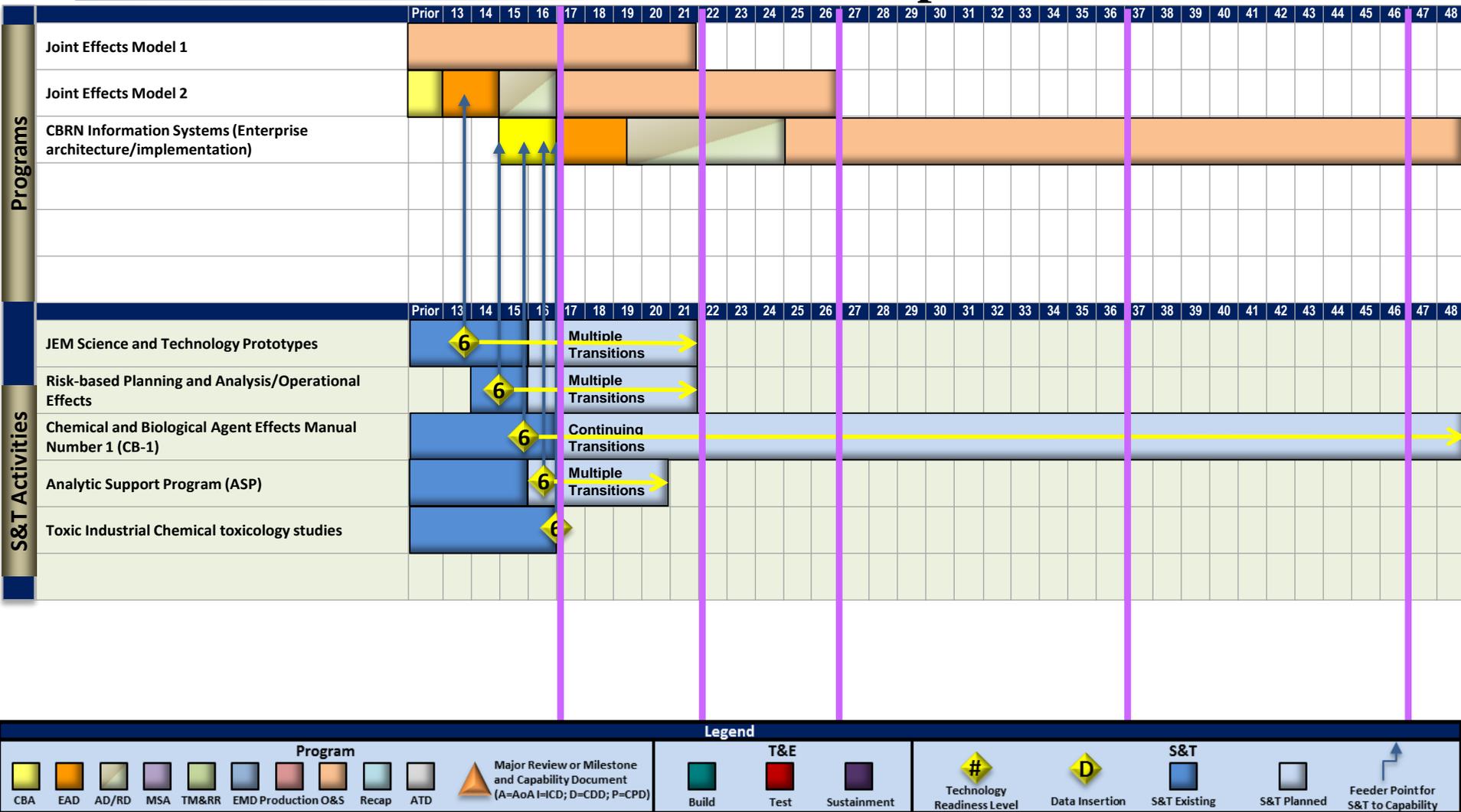
CBA	EAD	AD/RD	MSA	TM&RR	EMD	Production O&S	Recap	ATD	Major Review or Milestone and Capability Document (A=AoA I=ICD; D=CDD; P=CPD)	Build	Test	Sustainment	Technology Readiness Level	Data Insertion	S&T Existing	S&T Planned	Feeder Point for S&T to Capability

Current as of 20 April 2015

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Decision Analysis and Management: Modified Roadmap

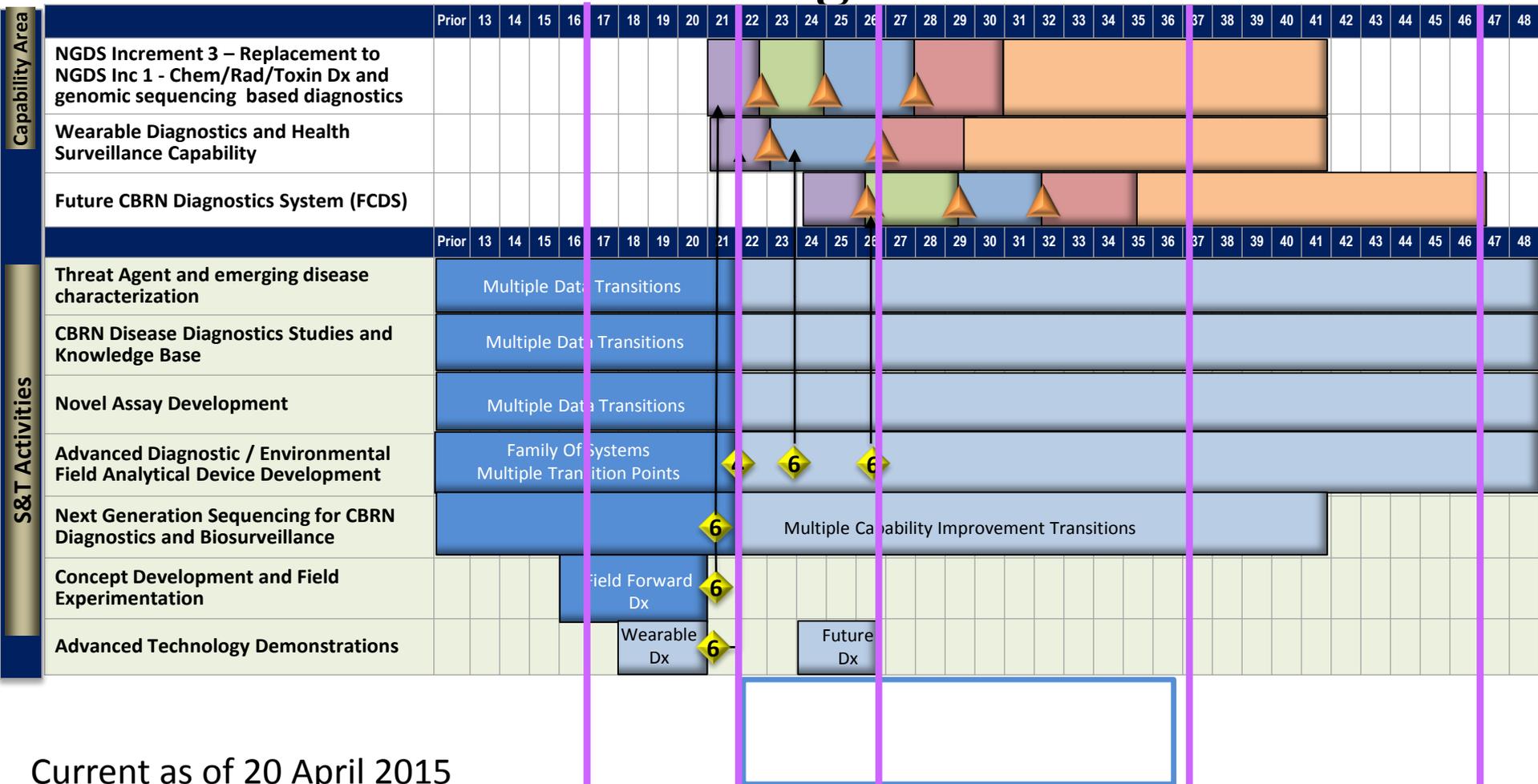


Current as of 20 April 2015

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Medical Diagnostics



Current as of 20 April 2015

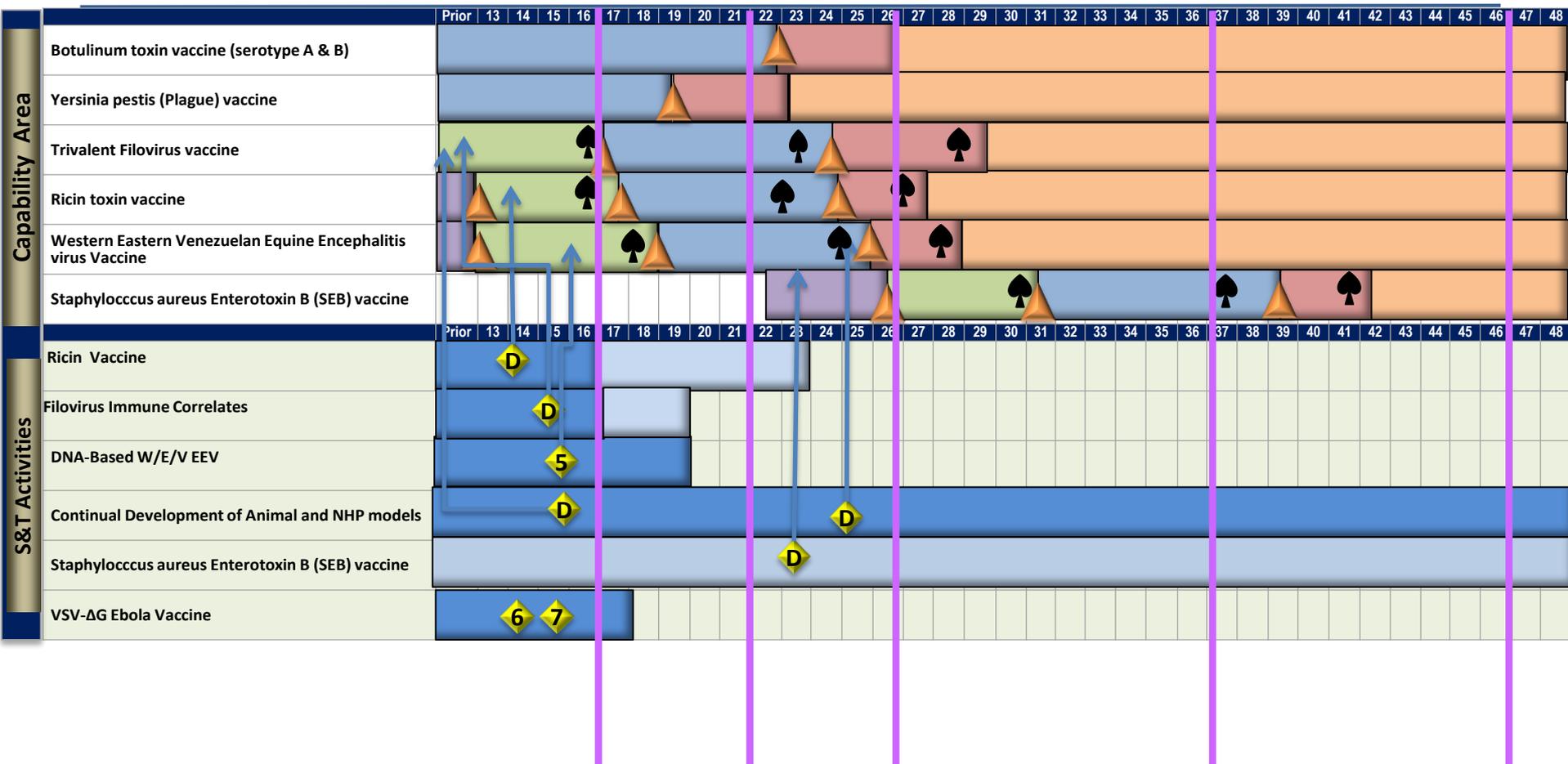
Legend

								Major Review or Milestone and Capability Document (A=AoA I=ICD; D=CDD; P=CPD)							
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Biological Prophylaxis (1 of 2)



Legend

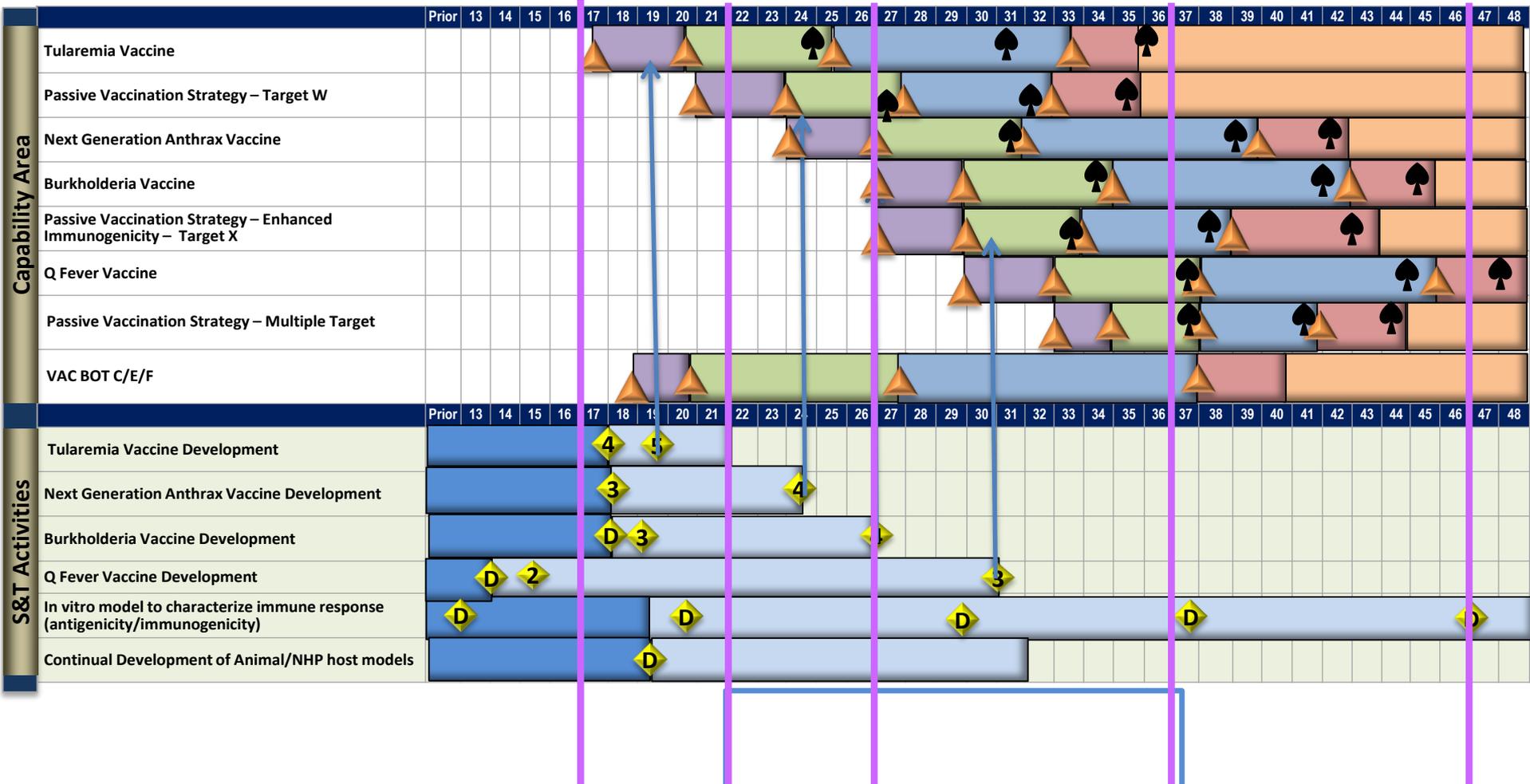
								T&E						
MSA	TM&RR	EMD	Production	O&S	Recap	ATD	Major Review or Milestone and Capability Document (A=AoA I=ICD; D=CDD; P=CPD)		Medical Readiness Level	Data Insertion	S&T Existing	S&T Planned	Potential ADMc	Feeder Point for S&T to Capability

Current as of 20 April 2015

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Biological Prophylaxis (2 of 2)



Legend

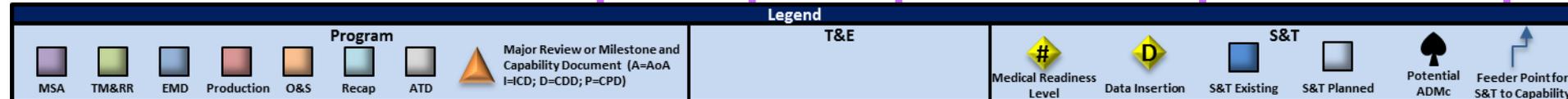
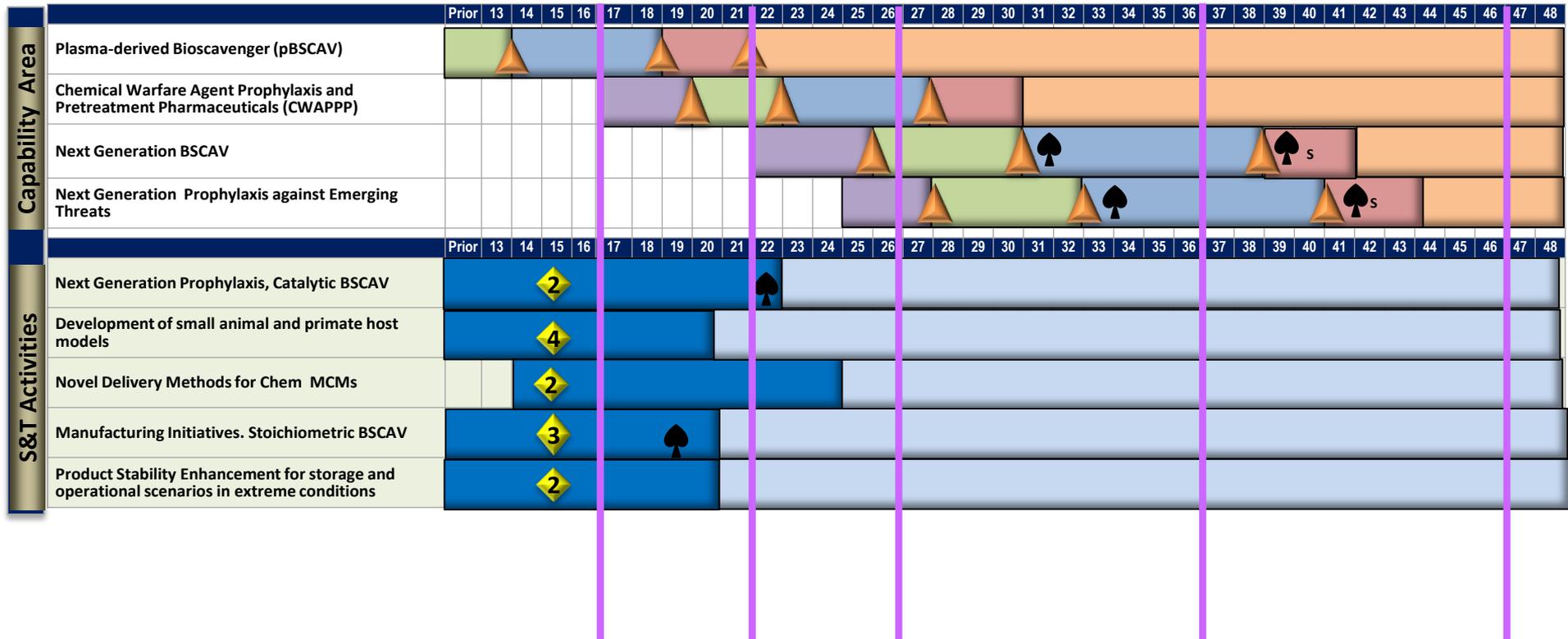
MSA	TM&RR	EMD	Production	O&S	Recap	ATD	Major Review or Milestone and Capability Document (A=AoA I=ICD; D=CDD; P=CPD)	T&E	Medical Readiness Level	Data Insertion	S&T Existing	S&T Planned	Potential ADMc	Feeder Point for S&T to Capability

Current as of 20 April 2015

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Chemical Prophylaxis

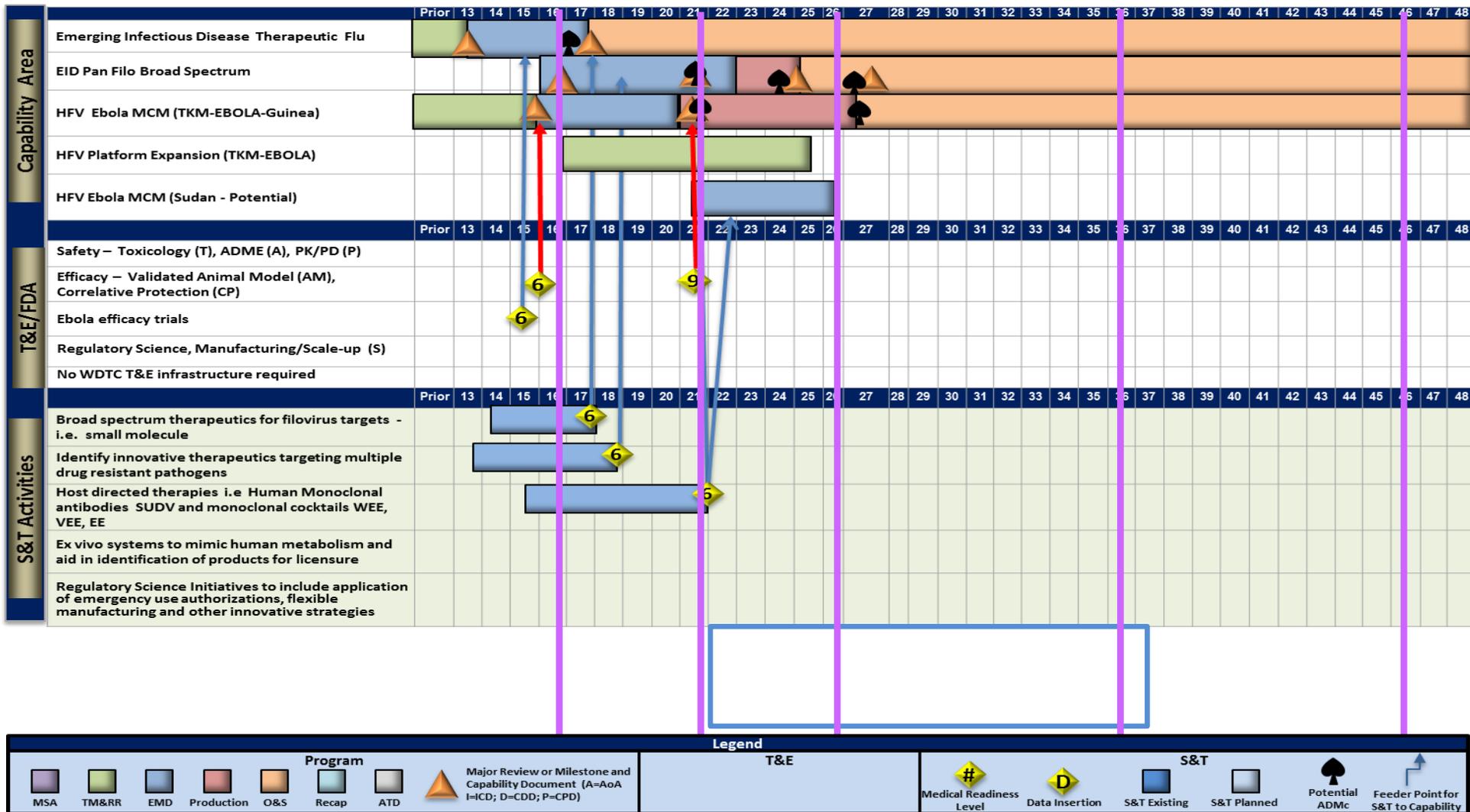


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Biological Therapeutics - Viral

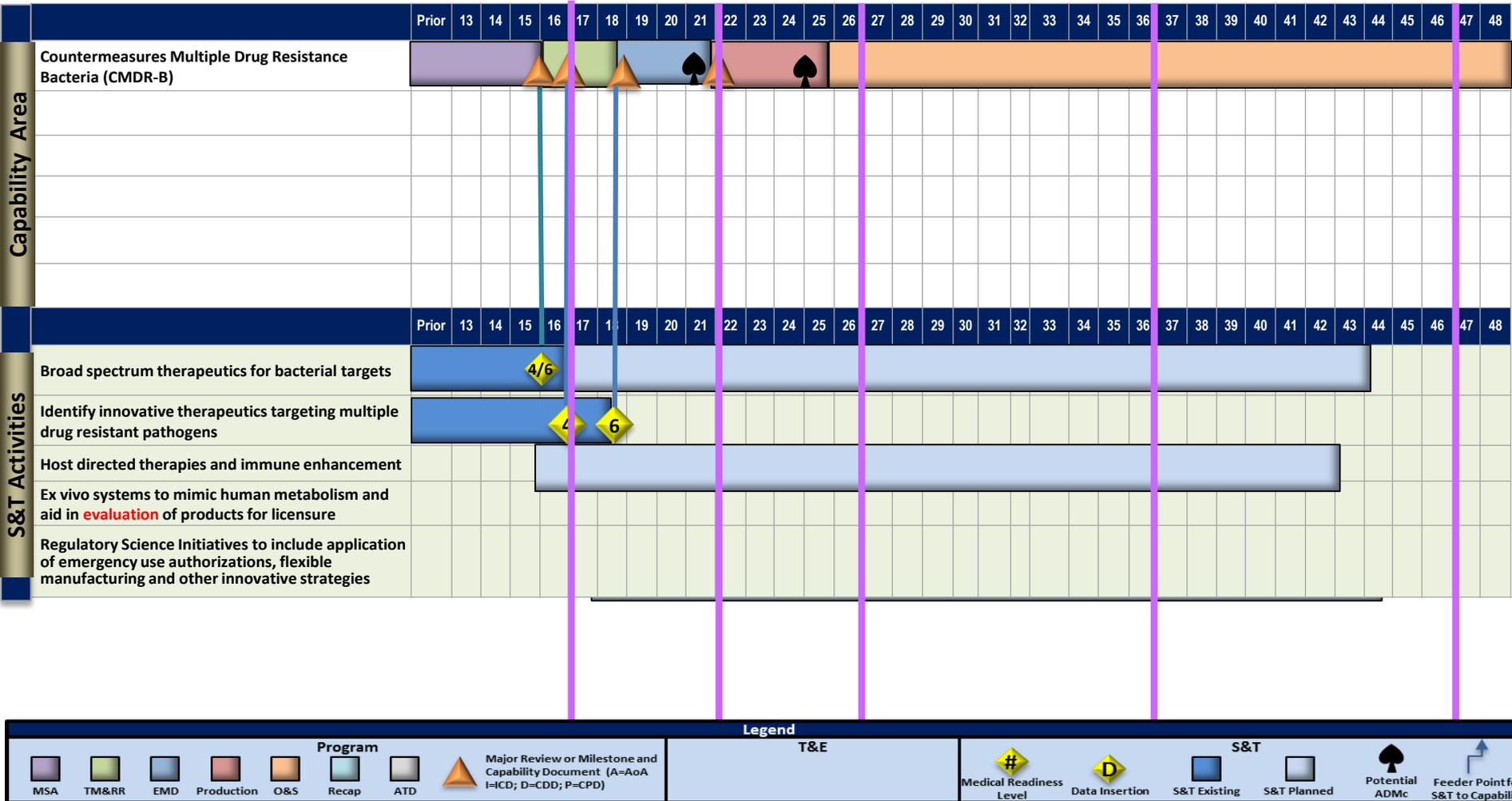


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Biological Therapeutics - Bacterial

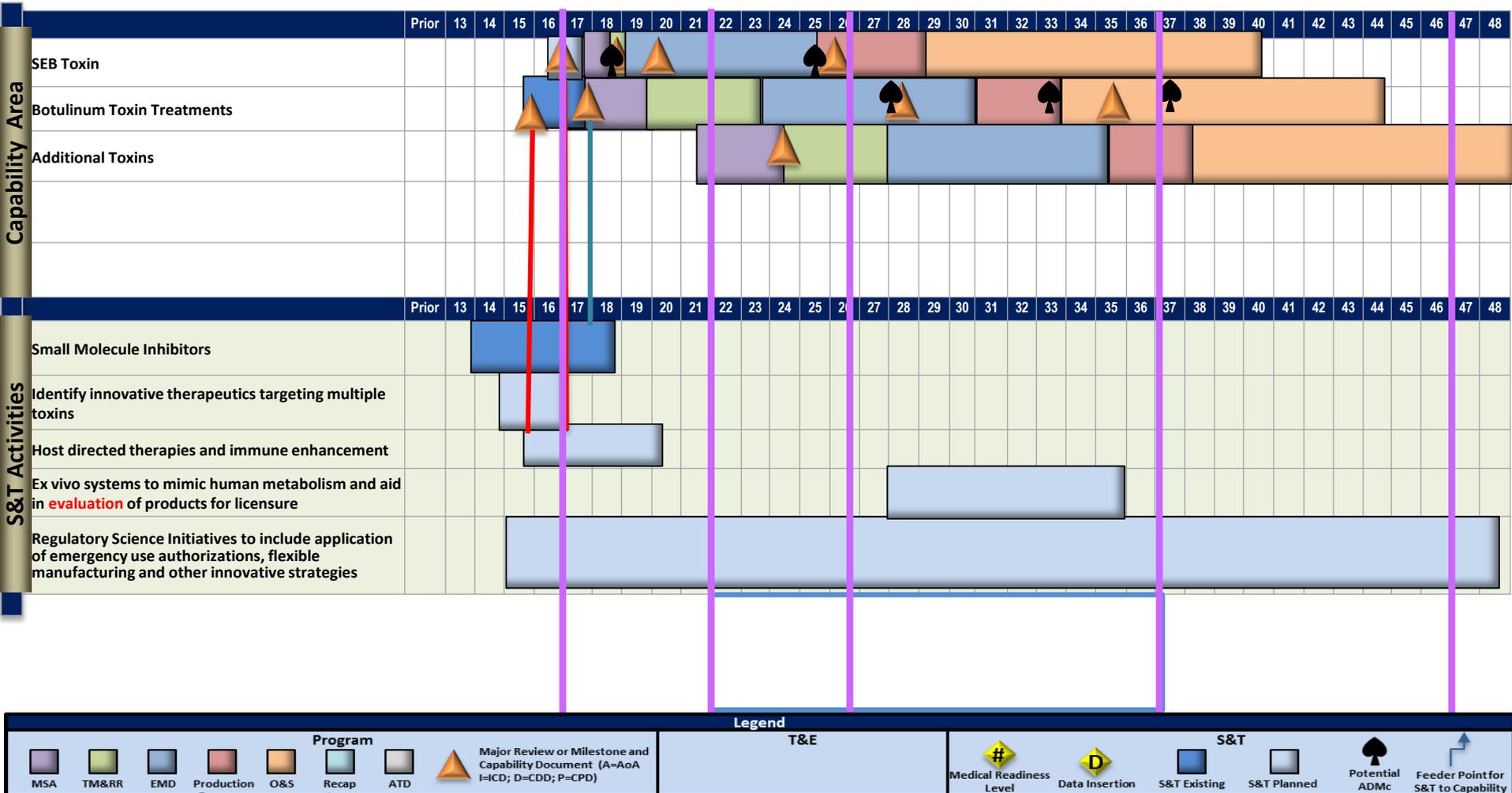


Current as of 20 April 2015

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Biological Therapeutics - Toxins

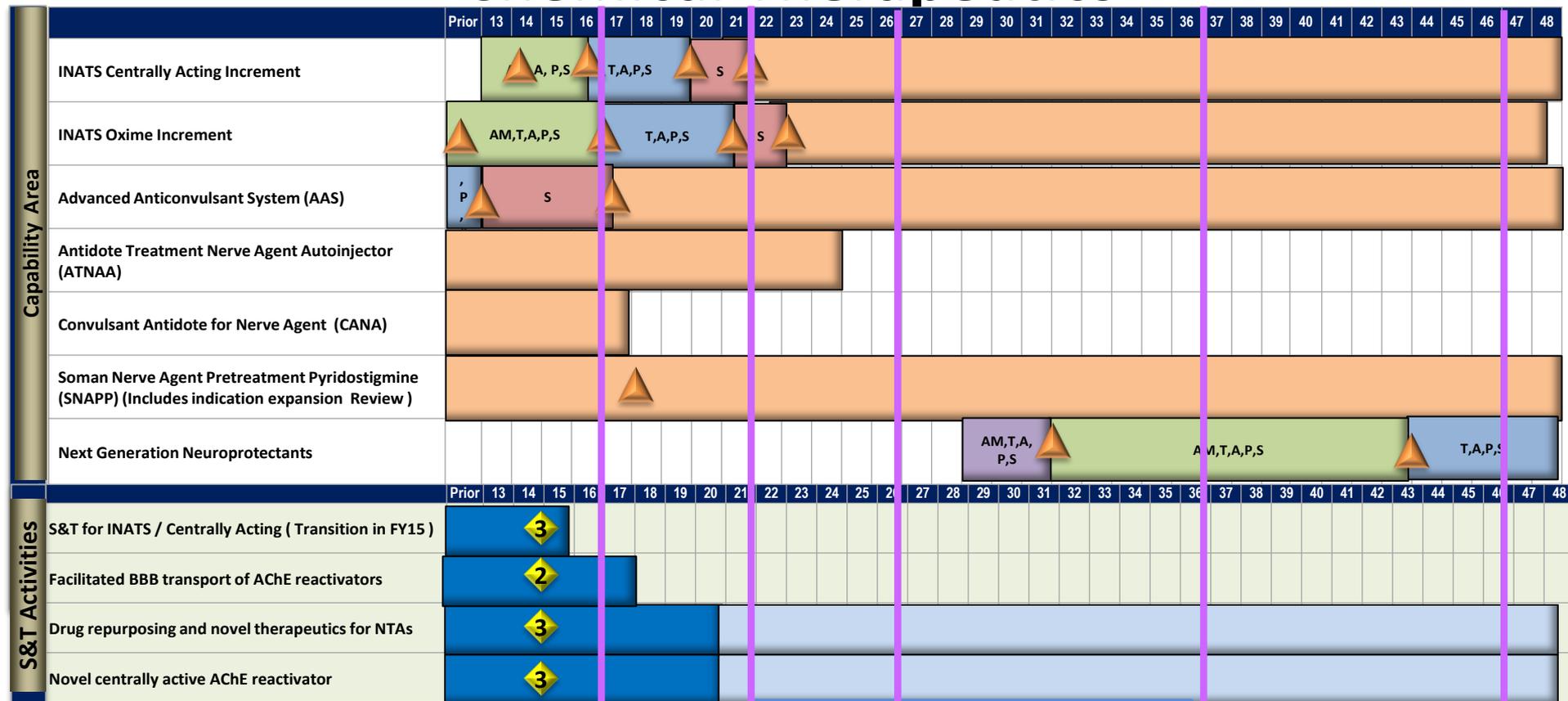


Current as of 20 April 2015

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Chemical Therapeutics



Current as of 20 April 2015

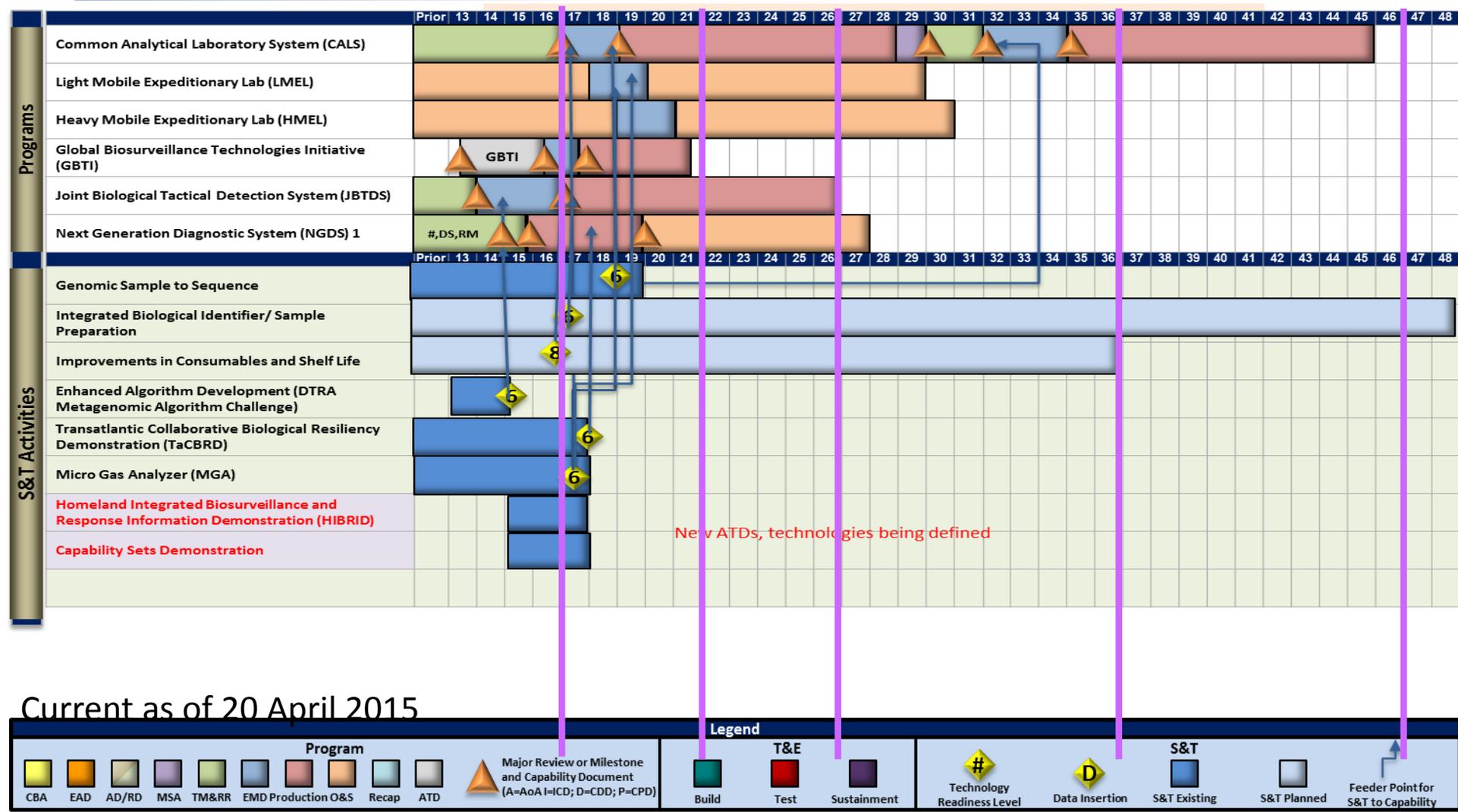
Legend

MSA	TM&RR	EMD	Production	O&S	Recap	ATD	Major Review or Milestone and Capability Document (A=AoA I=ICD; D=CDD; P=CPD)	T&E	Medical Readiness Level	Data Insertion	S&T Existing	S&T Planned	Potential ADMc	Feeder Point for S&T to Capability
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Expeditionary Analytics

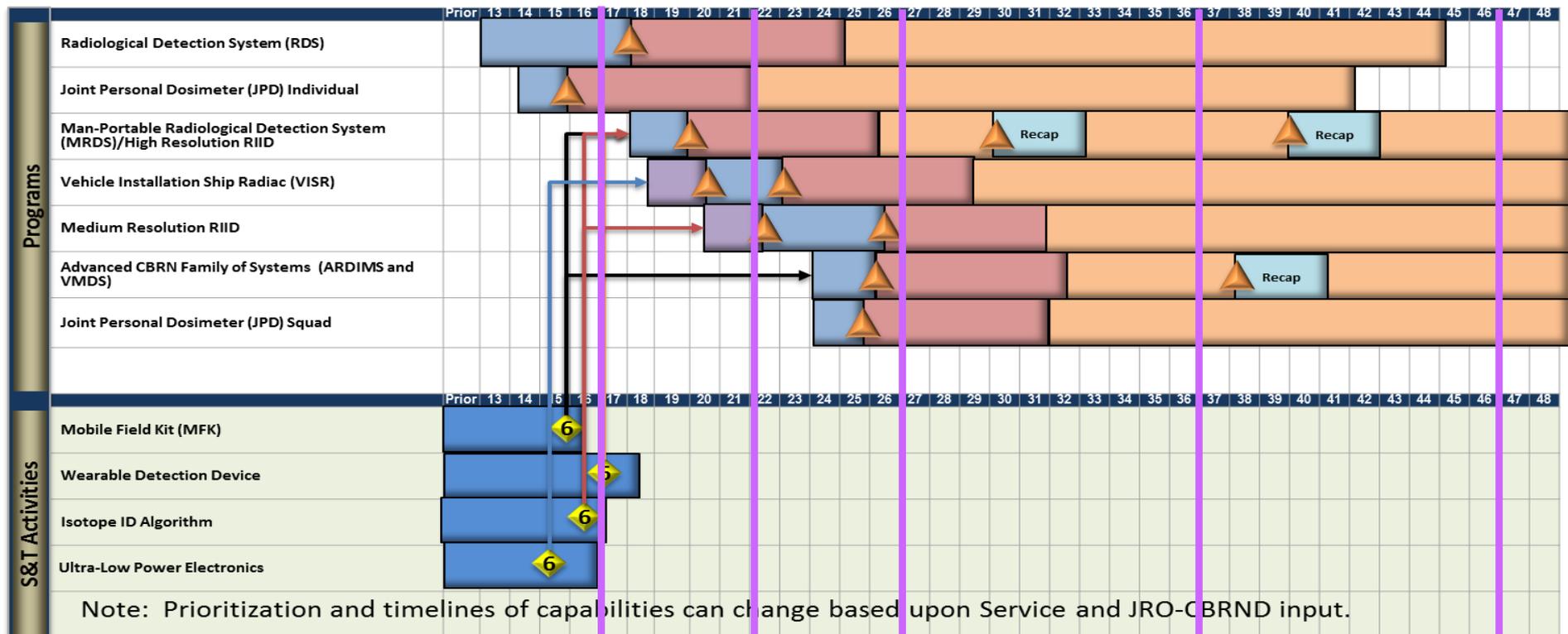


Current as of 20 April 2015

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UNCLASSIFIED Radiological Detection Mid-Term



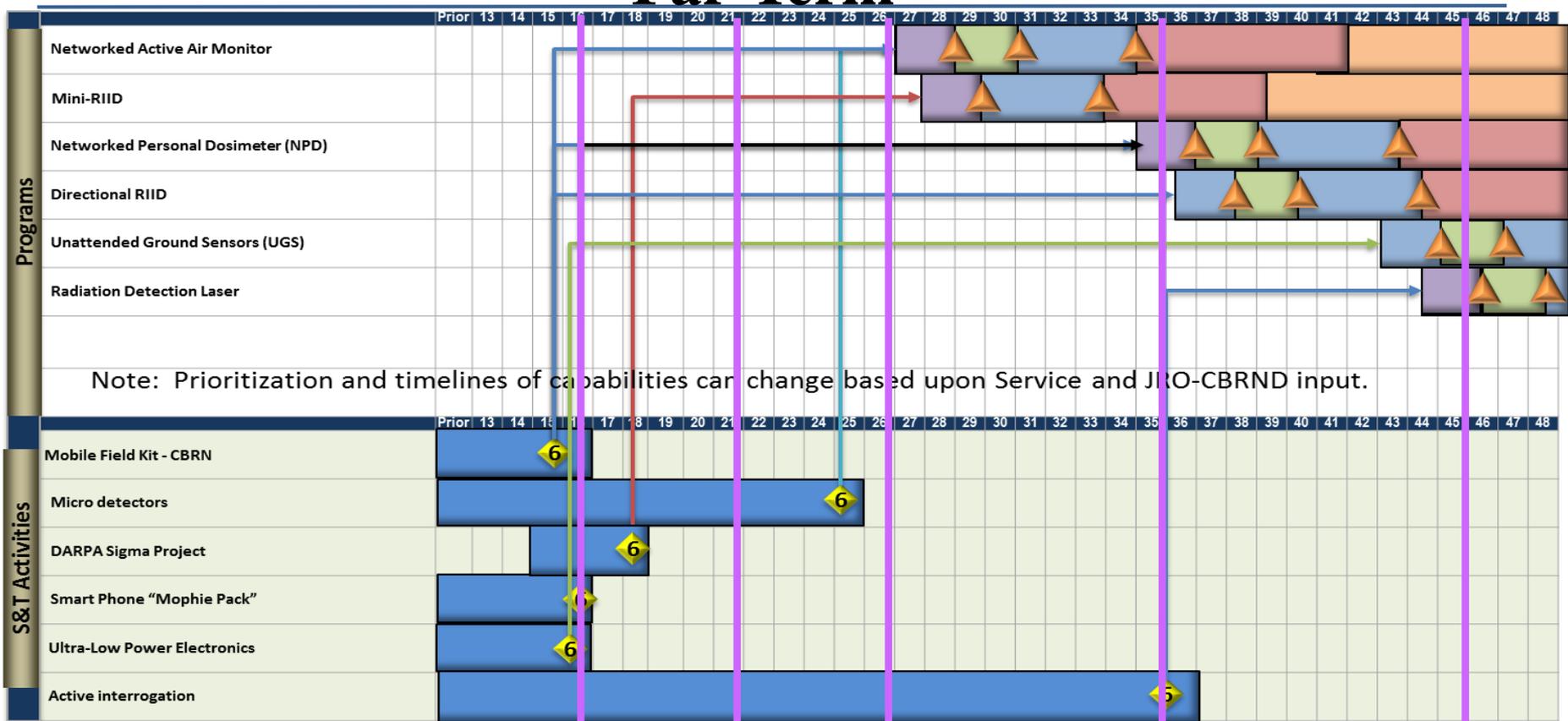
Legend									
Program						T&E		S&T	
MSA	TM&RR	EMD	Production	O&S	Recap	ATD	Major Review or Milestone and Capability Document (A=AoA I=ICD; D=CDD; P=CPD)	Medical Readiness Level	Data Insertion
						S&T Existing	S&T Planned	Potential ADMc	Feeder Point for S&T to Capability

Current as of 20 April 2015

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UNCLASSIFIED Radiological Detection Far-Term



Current as of 20 April 2015

Legend										
								T&E		
MSA	TM&RR	EMD	Production	O&S	Recap	ATD	Major Review or Milestone and Capability Document (A=AoA I=ICD; D=CDD; P=CPD)		Medical Readiness Level	Data Insertion
							S&T Existing	S&T Planned	Potential ADMc	Feeder Point for S&T to Capability

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