UNCLASSIFIED
Department of Defense
Fiscal Year (FY) 2020 Budget Estimates
March 2019


Office of the Secretary Of Defense
Defense-Wide Justification Book Volume 1 of 2
Procurement, Defense-Wide

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## Exhibit P-1 FY 2020 President's Budget

Total Obligational Authority
(Dollars in Thousands)

## Appropriation

Procurement, Defense-Wide
Total Defense-Wide

| FY 2018 | FY 2019 | FY 2019 | FY 2019 |
| ---: | ---: | ---: | ---: |
| $($ Base + OCO) | Base Enacted | OCO Enacted | Total Enacted |
| - | 35,295 |  | 35,295 |
| 21,999 | 35,295 |  | 35,295 |

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Defense-Wide
FY 2020 President's Budget
Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority

## (Dollars in Thousands

## Appropriation

Procurement, Defense-Wide
Total Defense-Wide

|  |  | FY 2020 |  |
| :---: | :---: | :---: | :---: |
|  | OCO for |  |  |
| FY 2020 | Direct War | FY 2020 |  |
| Base | OCO for Base | and Enduring | Total |
| Requirements | Costs | OCO |  |

43,705
43,705

Defense-Wide
FY 2020 President's Budget
Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority

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## Defense-Wide

FY 2020 President's Budget
Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority

## (Dollars in Thousands

Organization: Procurement, Defense-Wide

Office of Secretary of Defense, OSD
Total
FY 2018
(Base + OCO)
21,999
21,999

FY 201 Base Enacted -------------

35,295
35,295

FY 2019 OCO Enacted ----------------

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Defense-Wide
FY 2020 President's Budget
Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority
(Dollars in Thousands

Organization: Procurement, Defense-Wide

Office of Secretary of Defense, OSD
Total

|  | FY 2020 |  |
| :---: | :---: | :---: |
|  | FY 2020 | OCO for |
| FY 2020 | OCO for Base | Direct War |
| Base | Requirements Enduring | Costs |

## UNCLASSIFIED

## Defense-Wide

FY 2020 President's Budget
Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority $\quad 12$ Mar 2019
Total Obligational Authority
(Dollars in Thousands)

FY 2020
Total
Organization: Procurement, Defense-Wide
Office of Secretary of Defense, OSD
$\underline{(\text { Base }+ \text { OCO) }}$

Total
43,705
43,705
Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority $\quad 12$ Mar 2019

| Budget Activity | $\begin{gathered} \text { FY } 2018 \\ \text { (Base + OCO) } \end{gathered}$ | FY 2019 Base Enacted | FY 2019 OCO Enacted | $\begin{array}{cl} \text { FY } 2019 \\ \text { Total Enacted } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| 01. Major Equipment | 21,999 | 35,295 |  | 35,295 |
| Total Procurement, Defense-Wide | 21,999 | 35,295 |  | 35,295 |

## UNCLASSIFIED

Defense-Wide
Y 2020 President's Budget
Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority

## (Dollars in Thousands)

Appropriation: Procurement, Defense-Wide


## Defense-Wide

$$
\text { FY } 2020 \text { President's Budget }
$$

$\begin{array}{cc}\text { Exhibit P-1 FY } 2020 \text { President's Budget } & 12 \text { Mar } 2019 \\ \text { Total Obligational Authority }\end{array}$

# FY 2020 President's Budget 



# FY 2020 President's Budget 

Exhibit P-1 FY 2020 President's Budget
Total Obligational Authority $\quad 12$ Mar 2019
(Dollars in Thousands)
Appropriation: 0300D Procurement, Defense-Wide


## UNCLASSIFIED

Defense-Wide
FY 2020 President's Budget Exhibit P-1 FY 2020 President's Budget

Total Obligational Authority

Appropriation: 0300D Procurement, Defense-Wide


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## Line Item Table of Contents (by Appropriation then Line Number)

Appropriation 0300D: Procurement, Defense-Wide

| Line \# | BA | BSA | Line Item Number | Line Item Title |
| :--- | :--- | :--- | :--- | :--- |
| 45 | 01 | 01 | 30 | Major Equipment OSD...................................................................................................................Volume $1-1$ |

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Line Item Table of Contents (Alphabetically by Line Item Title)

| Line Item Title | Line Item Number | Line \# Page |  |
| :--- | :--- | :---: | :---: |
| Major Equipment OSD | 30 | 45 | 01 |

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Exhibit P-40, Budget Line Item Justification: PB 2020 Office of the Secretary Of Defense
Date: March 2019


## Description:

The Office of the Secretary of Defense (OSD) is the principal staff element of the Secretary of Defense in the exercise of policy development, planning, resource management, fiscal, and program evaluation



Exhibit P-40, Budget Line Item Justification: PB 2020 Office of the Secretary Of Defense
Date: March 2019

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 1: Major | 30 / Major Equipment OSD |
| Equipment, OSD |  |



Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2018 | FY 2019 | FY 2020 Base | FY 2020 OCO | FY 2020 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I(\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | 2 / Enterprise Portals Program |  |  |  | /15.992 | 1/0.209 | 1/0.359 | 1/0.298 | - 1- | 1/0.298 |
| P-5 | $30 / \mathrm{Mentor}$ Protege |  | A | 300 | - 1424.596 | - /19.575 | - / 29.787 | - 131.700 | - 1 - | - 131.700 |
| P-40a | 1 / IT Hardware, Equipment, Software, and Licenses |  |  |  | 1 / 42.942 | 1/0.632 | 1/0.616 | 1/0.637 | $0 / 0.000$ | 1/0.637 |
| P-40a | $2 /$ CAPE Internet DMZ Migration Services |  |  |  | 1/0.000 | 1/0.000 | 1/2.297 | 1/0.913 | $0 / 0.000$ | 1/0.913 |
| P-5 | 30 / US Mission to NATO |  |  |  | - 12.780 | - 10.355 | - 10.353 | - 10.320 | - | - 10.320 |
| P-5 | 30 / Joint Capability Technology Development (JCTD) Procurement |  |  | 300 | - /19.970 | - 10.707 | - 11.636 | - /1.631 | - 1 - | - /1.631 |
| P-5 | 30 / Countering Weapons of Mass Destruction (CWMD) Systems |  |  |  | - 19.837 | - 10.471 | - 10.247 | - 1 - | - 1 - | - 1 |
| P-40a | Algorithmic Warfare Cross Functional Team (AWCFT) |  |  |  | - 1 - | / - | - 1 | - 18.206 | 1 | - 18.206 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 516.119 | - 121.999 | - / 35.295 | - 143.705 | - 1. | - 143.705 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:




 Team (AWCFT).

The FY 2020 request facilitates the National Security Strategy (NSS), National Defense Strategy (NDS) and the National Defense Business Operations Plan (NDBOP) by supporting:
Strategic Goal 1: Build a More Lethal Joint Force, and
Strategic Objective 1.2 - Lay the foundation for future readiness through recapitalization, innovation, and modernization
Strategic Objective 1.3-Enhance information technology and cybersecurity capabilities
Strategic Objective 1.4-Ensure the best intelligence, counterintelligence, and security support to DoD operations

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Office of the Secretary Of Defense $\quad$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2019 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 1 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 30 / Major Equipment OSD |  |  |  |  |  |  |  | Aggregated Items Title: Enterprise Portals Program |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 Base |  |  | FY 2020 OCO |  |  | FY 2020 Total |  |  |
| Item Number / Title [DODIC] | $\begin{gathered} \mathrm{ID} \\ \mathrm{CD} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each }) \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Enterprise Portal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 / Enterprise Portals Program |  |  | - | - | 15.992 | 0.209 |  | 10.209 | 0.359 | 1 | 0.359 | 0.298 | 1 | 0.298 | - | - | - | 0.298 | 1 | 0.298 |
| Subtotal: Enterprise Portal |  |  | - | - | 15.992 | - | - | 0.209 | - | - | 0.359 | - | - | 0.298 | - | - | - | - | - | 0.298 |
| Total |  |  | - | - | 15.992 | - | - | 0.209 | - | - | 0.359 | - | - | 0.298 | - | - | - | - | - | 0.298 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Remarks:




| Exhibit P-5, Cost Analysis: PB 2020 Office of the Secretary Of Defense |  |  |  |  | Date: March 2019 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 1 | P-1 Line Item Number / Title: <br> 30 / Major Equipment OSD |  | Item Number / Title [DODIC]: 30 / Mentor Protege |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: 300 |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2018 | FY 2019 | FY 2020 Base | FY 2020 OCO | FY 2020 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Milions) | 424.596 | 19.575 | 29.787 | 31.700 | - | 31.700 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement ( $\mathrm{P}-1$ ) (\$ in Millions) | 424.596 | 19.575 | 29.787 | 31.700 | - | 31.700 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 424.596 | 19.575 | 29.787 | 31.700 | - | 31.700 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 Base |  |  | FY 2020 OCO |  |  | FY 2020 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Support - Suballocations Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Defense Intelligence Agency | 3.694 | 3 | 11.081 | 2.500 | 1 | 2.500 | 2.027 | 1 | 2.027 | 2.500 | 1 | 2.500 | - | - | - | 2.500 | 1 | 2.500 |
| Army Mentor Protege Agreements | 9.541 | 3 | 28.623 | 3.250 | 1 | 3.250 | 5.000 | 1 | 5.000 | 5.500 | 1 | 5.500 | - | - | - | 5.500 | 1 | 5.500 |
| Navy Mentor Protege Agreements | 8.830 | 3 | 26.489 | 1.775 | 1 | 1.775 | 1.750 | 1 | 1.750 | 2.500 | 1 | 2.500 | - | - | - | 2.500 | 1 | 2.500 |
| Air Force Mentor Protege Agreements | 8.433 | 3 | 25.298 | 3.250 | 1 | 3.250 | 6.600 | 1 | 6.600 | 6.000 | 1 | 6.000 | - | - | - | 6.000 | 1 | 6.000 |
| MDA Mentor Protege Agreements | 8.584 | 3 | 25.752 | 4.500 | 1 | 4.500 | 5.500 | 1 | 5.500 | 6.000 | 1 | 6.000 | - | - | - | 6.000 | 1 | 6.000 |
| NGA Mentor Protege Agreements | 12.222 | 3 | 36.667 | 1.745 | 1 | 1.745 | 3.500 | 1 | 3.500 | 2.500 | 1 | 2.500 | - | - | - | 2.500 | 1 | 2.500 |
| SOCOM Mentor Protege Agreements | 2.015 | 1 | 2.015 | 1.000 | 1 | 1.000 | 2.500 | 1 | 2.500 | 2.500 | 1 | 2.500 | - | - | - | 2.500 | 1 | 2.500 |
| Joint Robotics Initiative Agreements | 5.756 | 1 | 5.756 | 0.000 | 1 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 1 | 0.000 | - | - | - | 0.000 | 1 | 0.000 |
| NSA Mentor Protege Agreements | 2.605 | 3 | 7.815 | 0.000 | 1 | 0.000 | 0.000 | 0 | 0.000 | 0.000 | 1 | 0.000 | - | - | - | 0.000 | 1 | 0.000 |
| Additional Mentor Protege Initiatives | 2.619 | 3 | 7.857 | 0.855 | 1 | 0.855 | 0.855 | 1 | 0.855 | 0.889 | 1 | 0.889 | - | - | - | 0.889 | 1 | 0.889 |
| Miscellaneous | 247.245 | 1 | 247.245 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| DTRA | - | - | - | 0.700 | 1 | 0.700 | 2.055 | 1 | 2.055 | 3.311 | 1 | 3.311 | - | - | - | 3.311 | 1 | 3.311 |
| Subtotal: Support Suballocations Cost | - | - | 424.600 | - | - | 19.575 | - | - | 29.787 | - | - | 31.700 | - | - | - | - | - | 31.700 |


| Exhibit P-5, Cost Analysis: PB 2020 Office of the Secretary Of Defense |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2019 <br> Item Number / Title [DODIC]: <br> 30 / Mentor Protege |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 30 / Major Equipment OSD |  |  |  |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: 300 |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 Base |  |  | FY 2020 OCO |  |  | FY 2020 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) |
| Gross/Weapon System Cost | - | - | 424.596 | - | . | 19.575 | - | - | 29.787 | . | . | 31.700 | - | . | . | - | . | 31.700 |

## Remarks:

FY 2020 funding supports the Mentor Protégé Pilot Program (MPP) that was established under Section 831 of the National Defense Authorization Act for Fiscal Year 1991 (Public Law 101-510) to assist eligible small business concerns in enhancing their capabilities to perform as subcontractors and viable suppliers under Department of Defense (DoD) contracts and other federal government and commercial contracts. This program helps to sustain a competitive supplier base which contributes to affordability in current and future defense acquisitions.

The DoD Mentor Protégé Pilot Program (MPP) focuses on several key initiatives with the intent to enable small businesses to effectively meet the Department's challenges by infusing small business utilization into the Department's major acquisition programs. The strategic focus of the DoD MPP is the cross functional alignment of DoD Service Component and Interagency Mentor Protégé Agreement's to satisfy the Department's objectives and mission; this is accomplished through the utilization of socio-economic disadvantaged small businesses. The DoD MPP identifies small businesses that possess unique mission critical capabilities; then, through technological transfer and business development efforts, it leverages these capabilities for the benefit of the Department and ultimately the warfighter. This program continuously pursues small business firms that are agile and innovative to strengthen the manufacturing and industrial base throughout the DoD enterprise.

By leveraging the Mentor Protégé Program, large firms (DoD Mentors) receive financial and credit incentives to provide technical and business assistance to Small Disadvantaged Businesses (SDBs), Womenowned Small Businesses (WOSBs), Service-Disabled Veteran-owned Small Businesses (SDVOSBs), Historically Underutilized Business Zone (HUBZone) firms, and firms that employ the disabled persons. The incentives provided to DoD Mentors are either a direct cost reimbursement or credit towards established subcontracting goals for approved mentoring costs incurred. Additionally, DoD Mentor-Protégé agreements (MPAs) often provide strategic technology-inclusion engagements with minority serving institutions (MSIs), including Historically Black Colleges and Universities (HBCUs), Tribal Colleges and Universities, Hispanic Serving Institutions, and other minority institutions that provide advanced developmental assistance to DoD Protégés. DoD MPAs align to DoD Service Component and Other Defense Agency (ODA) requirements toward resolving operational challenges or other critical national security needs characterized by science and technology thrusts identified by each agency, thus concentrating on key mission needs.

Over the past 5 years (FY 2014 - FY 2018) DoD/IC Protégé participating in the program have been awarded more than $\$ 5.4 \mathrm{~B}$ in contracts, increased annualized revenues by an average of $\$ 2.3 \mathrm{~B}$, and for every year a protégé firm participates in the program their workforce is increased by an average of 13.4 full-time employees (FTEs). The Department projected to award over 58 MPAs valued at 26.2 million in Fiscal Year 18.

The Department's new program initiatives are currently aligned with the Secretary of Defense priorities focusing on Lethality, Readiness, Affordability and Sustainment. The Mentor Protégé Program has targeted the ten technology areas and industrial base challenges addressed in the National Defense Strategy. The department has also utilizes the Mentor Protégé Program to address the cyber security challenges facing small business industrial base. In addition, fostering the productivity and innovation to sustain and increase benefits to the warfighter, Defense Industrial Base industry sector, and the DoD MPP thereby reducing total costs of ownership and management costs to include: 1) Consolidated Mentor-Protégé Agreement (MPA) solicitation framework with agile project management processes deployed to optimize workflows and approval processes to rapidly increase efficiencies of DoD MPP resources and assignments across DoD service components and Other Defense Agencies (ODAs). 2) Scaling Hybrid MPAs, the blending of Credit MPAs and Cost-Reimbursable (RE) MPAs, to meet or exceed complex Department of Defense/Intelligence Community (DoD/IC) requirements thus allowing more DoD and IC Prime contractors with new technologies for weapon systems and platforms to receive partial reimbursements for approved mentoring costs while concurrently receiving credit toward established DoD/IC subcontracting goals; the latter directly resulting in more DoD and IC Protégés leveraging credit MPAs to receive mentoring without additional funds, which is the most cost effective alternative for the government. 3) Federate Service Component and ODA MPP data to automate OSBP and MPP resource assignments for rapid MPA approvals, enhanced data tracking, capturing metrics, and providing digital analytics to OSBP and DOD/IC mission partners to improve targeted utilization of DoD MPP resources and DoD MPP interoperability across other programs in OSBP's portfolio.

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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Remarks:






 and effective requirements analysis, CAPE continues to align procurement expenditures for maximum efficiency in order to fund higher priority requirements in the Department

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| Exhibit P-5, Cost Analysis: PB 2020 Office of the Secretary Of Defense |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2019 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 30 / Major Equipment OSD |  |  |  |  |  |  |  | Item Number / Title [DODIC]: 30 / US Mission to NATO |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 Base |  |  | FY 2020 OCO |  |  | FY 2020 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Gross/Weapon System Cost | - |  | 2.780 | - |  | 0.355 | - |  | 0.353 | - |  | 0.320 | - |  |  | . |  | 0.320 |

Remarks:
FY 2020 funding provides for collaborative environments required for processing, analyzing, and distributing critical intelligence information between the U.S., NATO allies, and coalition forces. Funding supports expansion of U.S. and NATO allied multinational and bi-lateral intelligence information sharing capabilities via expanded terrestrial and satellite communications, information technology systems, integrated wide area and meshed networking, deployable command and control containers/elements, and information applications exploitation as it relates to U.S./NATO/coalition activities within USEUCOM Intelligence Fusion Center, NATO Special Operations Coordination Center, US Battlefield Information Collection and Exploitation System(s) and US JOIC world-wide architectures. In addition, funding provides work stations, computing clusters, data servers, security accreditation, and network connections for co-located strategic, operational and forward deployed elements.

| Exhibit P-5, Cost Analysis: PB 2020 Office of the Secretary Of Defense |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2019 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 30 / Major Equipment OSD |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> 30 / Joint Capability Technology Development (JCTD) Procurement |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: 300 |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2018 |  | FY 2019 |  | FY 2020 Base |  |  | FY 2020 OCO |  | FY 2020 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 19.970 |  | 0.707 |  |  |  |  | 1.631 |  | - |  | 1.631 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 19.970 |  | 0.707 |  |  |  |  | 1.631 |  | - |  | 1.631 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 19.970 |  | 0.707 |  |  |  |  | 1.631 |  | - |  | 1.631 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  | - |  | - |  |  |  |  |  |  | - |  | - |  |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  | - |  | - |  | - |  | - |  |  | - |  | - |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or  <br>  Prior Years |  |  |  | FY 2018 |  |  | FY 2019 |  |  | FY 2020 Base |  |  | FY 2020 OCO |  |  | FY 2020 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Support - JCTD Procurement Projects Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected JCTD procurement projects | - | - | 19.970 | - | - | 0.707 | - | - | 1.636 | - |  | 1.631 | - |  | - - | - | - | 1.631 |
| Subtotal: Support - JCTD Procurement Projects Cost | - | - | 19.970 | - | - | 0.707 | - | - | 1.636 | - |  | 1.631 | - |  | - - | - | - | 1.631 |
| Gross/Weapon System Cost | - | - | 19.970 | - | - | 0.707 | - | - | 1.636 | - |  | 1.631 | - |  | - - | - | - | 1.631 |

## Remarks:

FY 2020 funding supports initial acquisition of equipment for rapid transition of operational "joint unique" capabilities that have not yet completed transition into a program of record (PoR). The aim is to achieve efficiencies by aligning resources to fully integrate these more mature capabilities sooner into either an existing system or a new system being deployed or employed. In addition funding supports completion of JCTDs and prototypes in order to complete extended user evaluations and provide transition support to PoR's or fieldable prototypes. JCTDs efforts enhance DoD capabilities by gaining an "on ramp" to conventional acquisition processes for emerging capabilities.


## Remarks:

Funding supports Countering Weapons of Mass Destruction Systems that address the needs of the National Technical Nuclear Forensics (NTNF) and the Countering Nuclear Threats (CNT) Defense-wide materiel development programs.

| Exhibit P-5, Cost Analysis: PB 2020 Office of the Secretary Of Defense |  | Date: March 2019 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: $\text { 0300D / } 01 \text { / } 1$ | P-1 Line Item Number / Title: <br> 30 / Major Equipment OSD | Item Number / Title [DODIC]: <br> 30 / Countering Weapons of Mass Destruction (CWMD) Systems |
| ID Code (A=Service Ready, B=Not Service Ready) : $\quad$ M |  | MDAP/MAIS Code: |
| NTNF is the collection, analysis and evaluation of pre- and post-detonation radiological and nuclear materials, devices, and debris as well as the immediate effects created by a nuclear detonation to support attribution of an actual or attempted nuclear attack. NTNF will develop prototype ground-based prompt diagnostic detection systems (DISCREET OCULUS) to record signals emitted immediately following a nuclear detonation. Funds system installation in strategic cities to support transition to the Air Force for operation and sustainment. NTNF will also develop the Harvester Particulate Airborne Collection Systems (PACS) and the Modular Whole Air Airborne Collection Systems (M-WACS) for post-detonation nuclear debris sampling. Harvester PACS particulate and M-WACS gaseous sampling combine to augment WC-135 capabilities. |  |  |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2019 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 0300D / 01 / 1 |  |  |  |  |  |  | P-1 Line Item Number / Title: 30 / Major Equipment OSD |  |  |  |  |  |  |  | Aggregated Items Title: Algorithmic Warfare Cross Functional Team (AWCFT) |  |  |  |  |
|  |  |  | ior Yea |  |  | Y 2018 |  |  | Y 2019 |  |  | 2020 B |  |  | 2020 O |  |  | 2020 T |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|l\|l\|} \hline \text { MDAP/ } \\ \hline \text { ID } & \text { MAIS } \\ \text { CD } & \text { Code } \end{array}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| Algorithmic Warfare Cross Functional Team (AWCFT) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Algorithmic Warfare Cross Functional Team (AWCFT) |  | - | - | - | - | - | - | - | - | - | - | - | 8.206 | - | - | - | - |  | 8.206 |
| Subtotal: Algorithmic Warfare Cross Functional Team (AWCFT) |  | - | - | - | - | - | - | - | - | - | - | - | 8.206 | - | - | - | $\cdot$ |  | 8.206 |
| Total |  |  |  |  | - |  |  | - |  |  | - | - | 8.206 | - |  |  |  |  | 8.206 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Remarks:

Algorithmic Warfare Cross Functional Team (AWCFT) funds Project Maven, a rapid fielding Artificial Intelligence (AI) program to augment and automate Processing, Exploitation and Dissemination (PED) for Full Motion Video (FMV) Tactical Unmanned Aerial Vehicles (TUAVs), Medium Altitude, High Altitude, and Wide Area Motion Imagery (WAMI) Intelligence, Surveillance and Reconnaissance (ISR) platforms in support of defeat-ISIS and National Defense Strategy (NDS) peer/ near peer competitor strategy. Maven also brings Al to Captured Enemy Material (CEM), Acoustical Intelligence (ACINT), Overhead Persistent Infrared program (OPIR) and Public Available Information (PAI) exploitation. Maven uses Al, deep learning, and computer vision algorithms to detect, classify, and track objects within FMV images (e.g., person, vehicle, and weapon) and other Al algorithms for CEM and text based projects. Maven algorithms increase the intelligence value of ISR, reduce the human burden of screening so analysts can multi-task increasing productivity, and seeds the generation of insight from Geospatial Intelligence (GEOINT). Project Maven is a commercial technology initiative that inserts commercial Al into existing programs of records. Most military intelligence exploitation systems were designed pre-Al and require specialized integration to enable the insertion of algorithms into their software baseline. Project Maven is the pathfinder Al initiative for the DoD and is investing in critical Al architeccure to support the rapid expansion of Al to other mission areas besides GEOINT. As Maven algorithms increase in capability, the algorithms will move to the edge (on the sensor platform).

