



# F-35 Enables and Supports U.S. 2018 National Defense Strategy

- Building a More Lethal Joint Force
- Strengthening Alliances and Attracting New Partnerships
- Reforming Business Practices for Greater Performance and Affordability







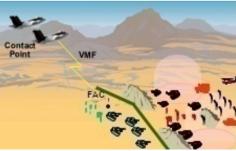
# F-35 Multi-Mission Capability

#### Destroy Targets Deep in Enemy Territory



Strategic Attack

### Protect Ground Troops Engaged in Combat



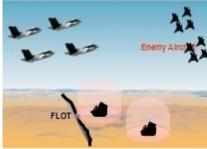
**Close Air Support** 

#### "Knock Down the Door" for Other Platforms



Suppression/Destruction of Enemy Air Defenses





Air Superiority



### What's Different From Legacy Aircraft

Sensor Fusion

- Stealth
  - Ability to go undetected

Maneuver at Will Throughout Battlespace



Provides Superb Battlespace Awareness

Combine many sources of info



- Interoperability
  - Pass vital information and data to legacy platforms

Makes Everyone in Battlespace Smarter

Survivable Against World's Most Sophisticated Threats Now and in the Future

Critical to U.S. and Allied Air Dominance for the Next 50 Years



# F-35 Weapon System Overview



**Conventional Take-off & Landing** 

Partners - 464 **FMS - 166\*** 

### F-35 Program More than Just the Aircraft

Partners - 168

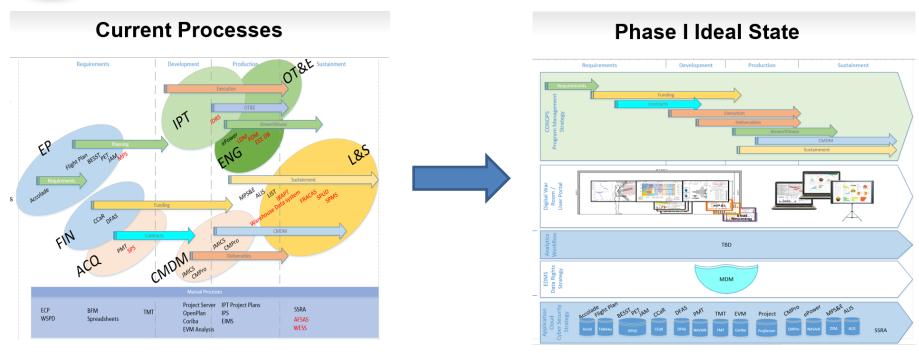


1 Program / 3 Variants / 15 Customers / 3,359 Aircraft Big, Complicated Program with Significant Allied Participation

<sup>\*</sup> Japan's latest National Defense Program Guidelines states that Japan will procure an additional 105 F-35s over the next 10+ years. MOU signing Fall 2019; 63 F-35As and 42 F-35Bs, taking the overall total to 147



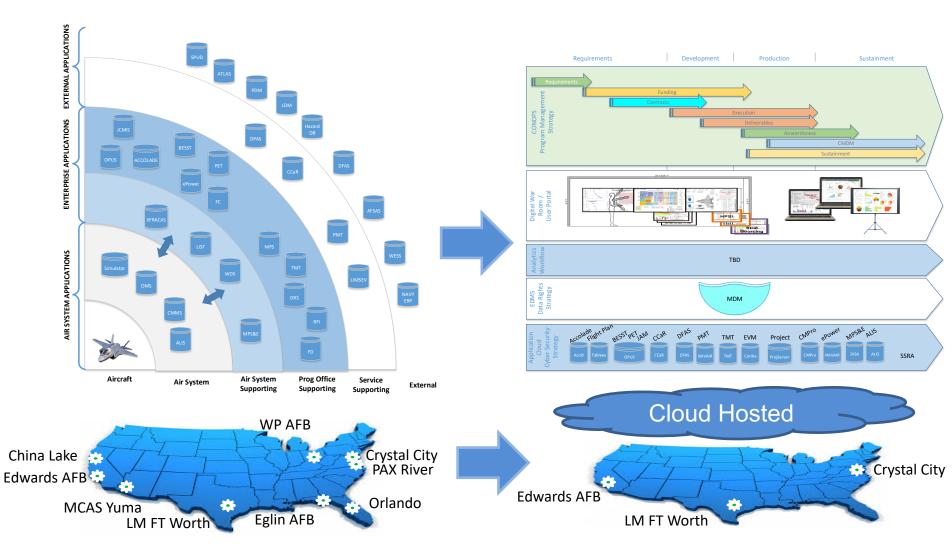
### **Goals of Digital Transformation**



- Streamline data generation process to support data-first decision making
- Unify JPO processes to present a single view of end-to-end JPO Program execution
- Centralize data and provide governance to ensure confidence in the JPO data and decision making
- Capitalize on current and previous investments to achieve goals without inflating costs
- Automate manual processes and leverage legacy applications in the near term
- Develop ability to provide quick capability constantly through the software development lifecycle



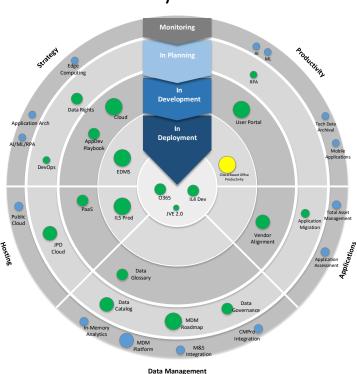
### **Digital Transformation Vision**





# **Digital Planning Progress**

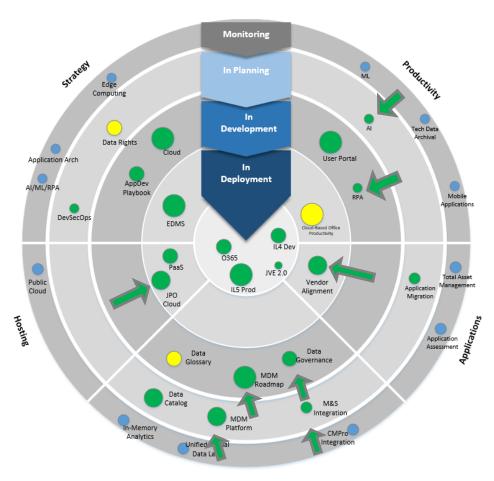
### January 2019



Size= Impact to JPO

Month-to-month progress

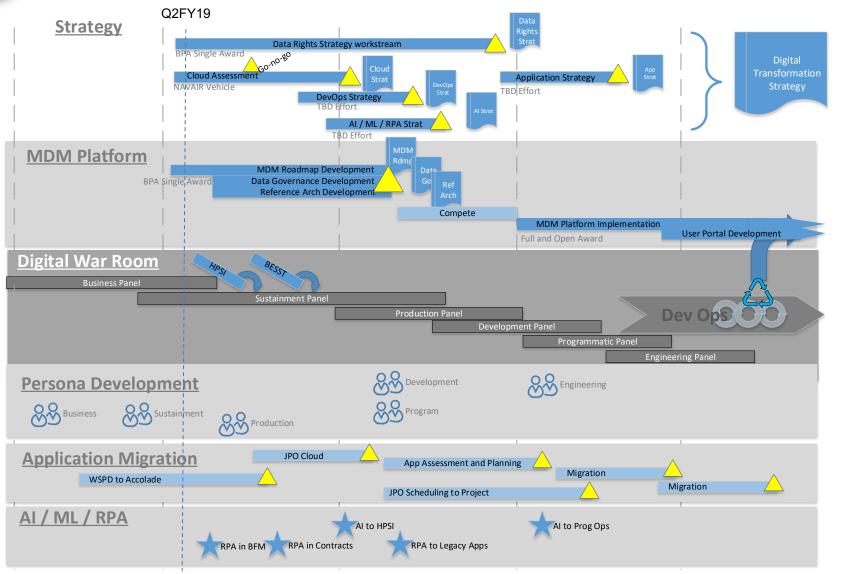
### April 2019



Data Management



### **Digital Transformation Roadmap**





# **Automation and Insight**



#### AI / ML / RPA (Result of AI / ML / RPA Strategy)

- Artificial Intelligence (AI), Machine Learning (ML), Robotic Process Automation (RPA)
- Current and future technology to streamline efforts saving time, and find insight / data to drive future decisions based on data

#### AI to HPSI

 Centralized Production, sustainment, logistic, supplier, and vendor data will allow implementation of AI resulting in up-/ down-stream insight increasing PSM effectiveness

#### **RPA Pilots**

- Largely manual processes requiring time intensive gathering of data from multiple sources, creating combined data sets, new files, running equations, and developing reports
- Today's RPA has the ability to automate those efforts with more consistency and speed which would reduce workloads
- Provide the data the JPO gets today in minutes instead of days / weeks
- Allow resources to analyze data vs taking time to aggregate it

#### Al to Prog Ops

- Centralized program data will allow the JPO to see trends in execution activities that will result in program hurdles
- Al already has the ability to streamline HR and onboarding as well as information finding

#### RPA to Legacy Apps

- As apps are integrated into the DWR and MDM, some of their operations will need to be automated in order to provide needed data
- RPA can automate those processes without requiring investment / update to the apps (which would happen later during migration efforts)