

# ***Business & Enterprise Systems***

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## ***DAFBOT***

**Department of the Air Force Bot Operations Team  
AFLCMC/GBO**

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*Operate, Integrate, Innovate*



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# DAFBOT Mission

## Infrastructure & Licensing

Governance & Policy  
RPA Software ATO / EPL  
Centralized license  
Unattended Infrastructure

## Automation Development

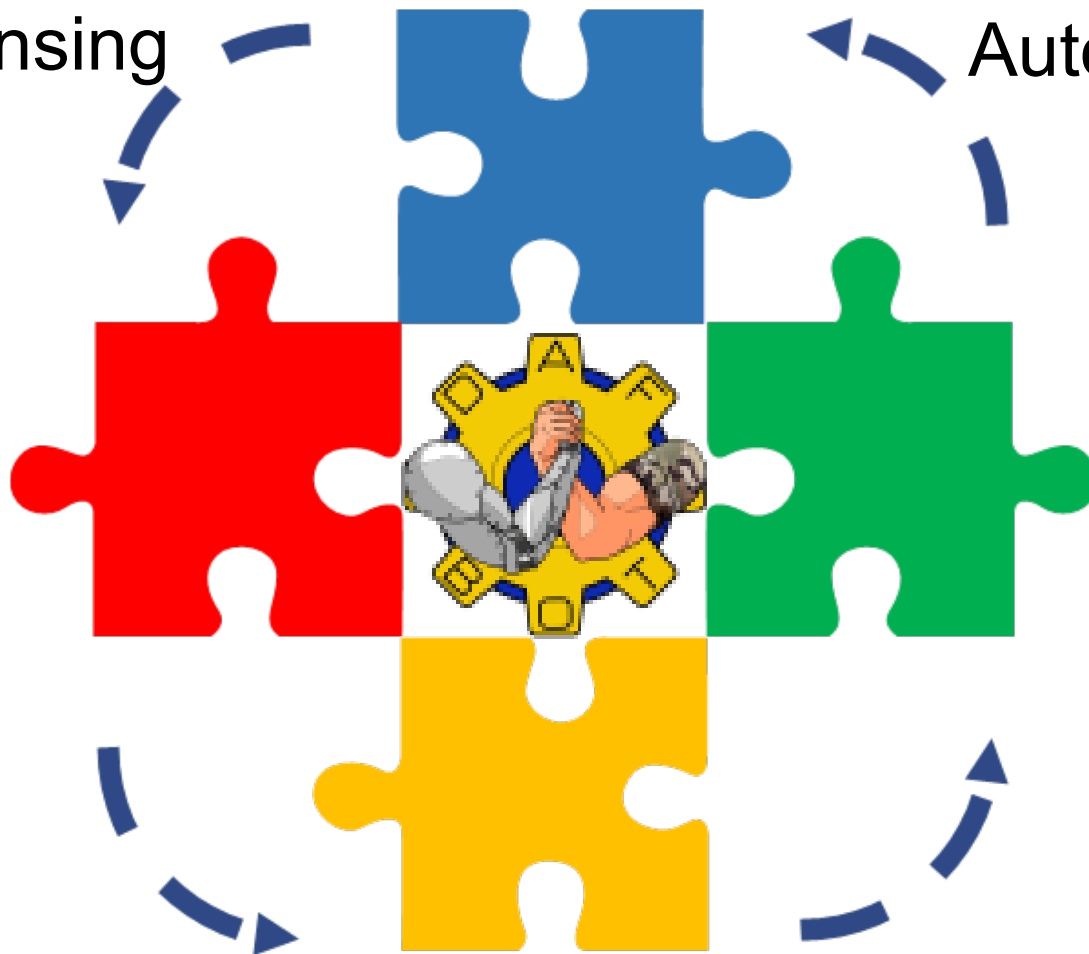
External  
Internal  
Blended  
Version Support

## Citizen Developers

Digital Wingman Challenges  
Roadshows – onsite & virtual  
Self paced training paths  
Office Hours

## Cohorts & COEs

Help Desk  
Development Sessions  
GitHub & GitLab repositories  
Orchestration & Promotion





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# *Citizen Developer Enablement*

**Empowering Digital Wingmen with the tools and training to become Citizen Automators allows organizations to address current mission shortfalls while putting automation in the hands of Airmen and Guardians**

- Lays the groundwork for the ***workforce of the future*** through ***skill growth***
- Improves ***employee experience*** and increases ***job satisfaction***
- Drives adoption and ***captures automation opportunities***
- Counters ***resistance to automation efforts***
- Reinvigorates bottoms-up ideation that the enterprise or an outside developer could never recognize



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# Enablement Achieved



## Rise of the Digital Wingman

Robotic process automation awareness & training series

### STATUS & DEMOGRAPHICS

- 576 Individual Airmen Participating in the Rise of the Digital Wingman Campaign
- 248 Individual Airmen Receiving Training
- 75 Hours of RPA Developer Mentorship Conducted
- 11 Hours of RPA Training Conducted
- 97 RPA Challenge Participants
- 51 RPA AFNET Participants
- 46 RPA Non-AFNET Participants
- 10 MAJCOM/FOA Participating
- 23 Bases Participating
- 41 Unique Use Cases
- 23 Process Definition Documents Submitted
- ✓ Low-code/No-code citizen developer interface evaluated and approved on Enterprise EPL
- ✓ RPA Security and Management Orchestrator approved evaluated on AFNET with IATT



ENABLING AIRMEN WITH THE POWER OF AUTOMATION

## 12-week RPA competitions open to all total force members



34<sup>th</sup> Special Operations Squadron  
"Gary" Generates flight authorizations



TSgt Seth Johnson – 4<sup>th</sup> MUNS  
"Spector" Ammo parts ordering



Anthony Kindred – 647<sup>th</sup> FSS  
"OBIE WAN" Speeds and secures RIPS



TSgt Austin Ford – 693<sup>rd</sup> ISS  
"Solo" Updates and monitors training requirements



24<sup>th</sup> SOW STTS  
"Atari" – Automates ARMS training upload:

4 Challenges conducted to date – over 1200 DAF members trained

### Completed Roadshows

1. Hanscom AFB
2. Joint Base Charleston
3. MacDill AFB
4. Eglin AFB
5. Robins AFB
6. Columbus AFB
7. Barksdale AFB
8. Wright-Patterson AFB
9. Scott AFB (3)
10. Tinker AFB (2)
11. Cannon AFB
12. Grand Forks AFB
13. Air Force Academy
14. Peterson SFB
15. FE Warren AFB
16. Hill AFB
17. Aviano AFB
18. Dover AFB
19. Patrick SFB
20. Whiteman AFB
21. Kirtland AFB
22. LA SFB
23. Vandenberg SFB
24. Edwards AFB
25. CA ANG Virtual
26. Joint Base McGuire



### Future Roadshows

1. RAF Mildenhall
2. Ramstein AFB
3. Joint Base Pearl Harbor-Hickam
4. Gunter Annex
5. DAF – Army Joint Roadshows (TBD)

## 4-day RPA immersion events (on-site & virtual) across the DAF



Plants the seed for automation to grow at a local level

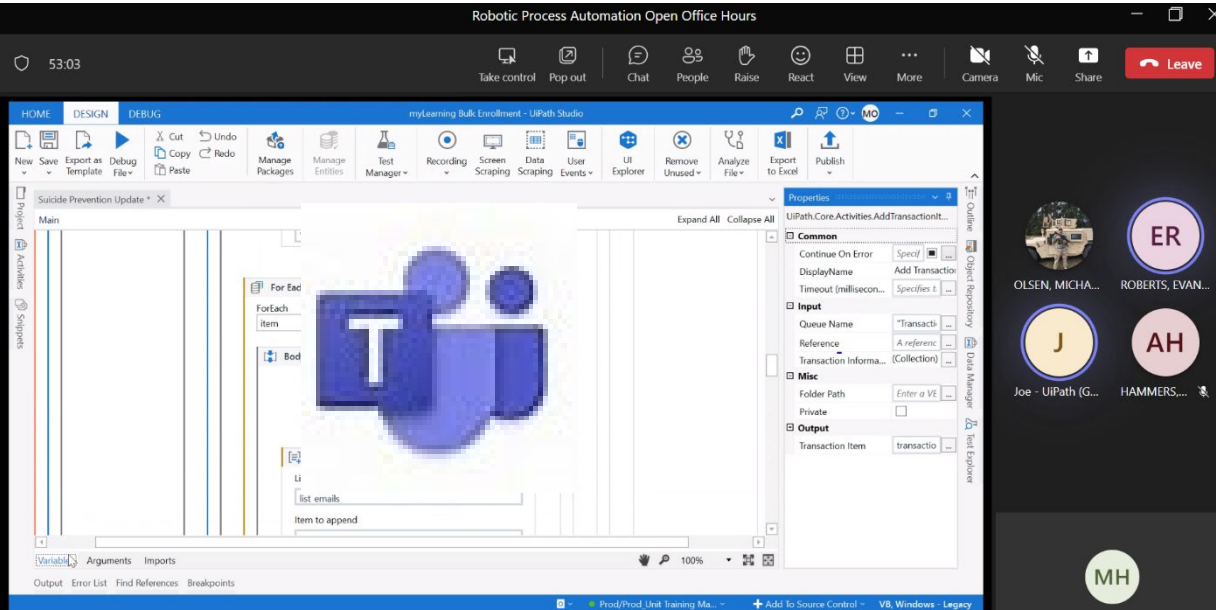




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# Support Achieved

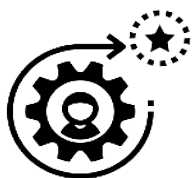
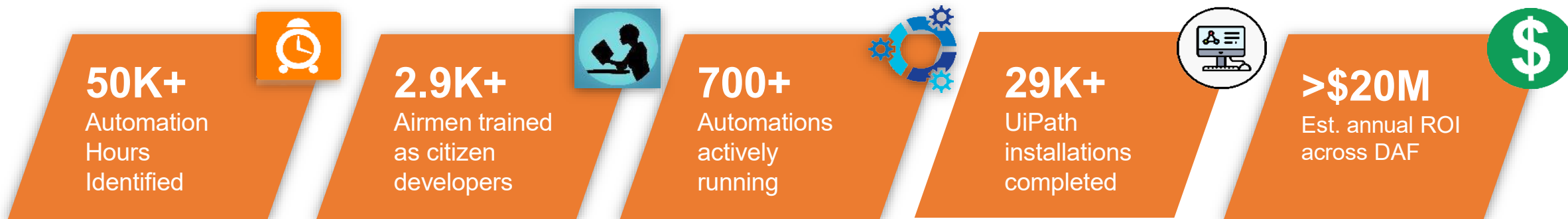




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# Realized Accomplishments



75%

reduction in staff hours dedicated to manual tasks, **freeing people up to drive greater impact**



260

working days per year refocused to security tasks (Bouncer BOT)



23

AF bases actively using UiPath robots

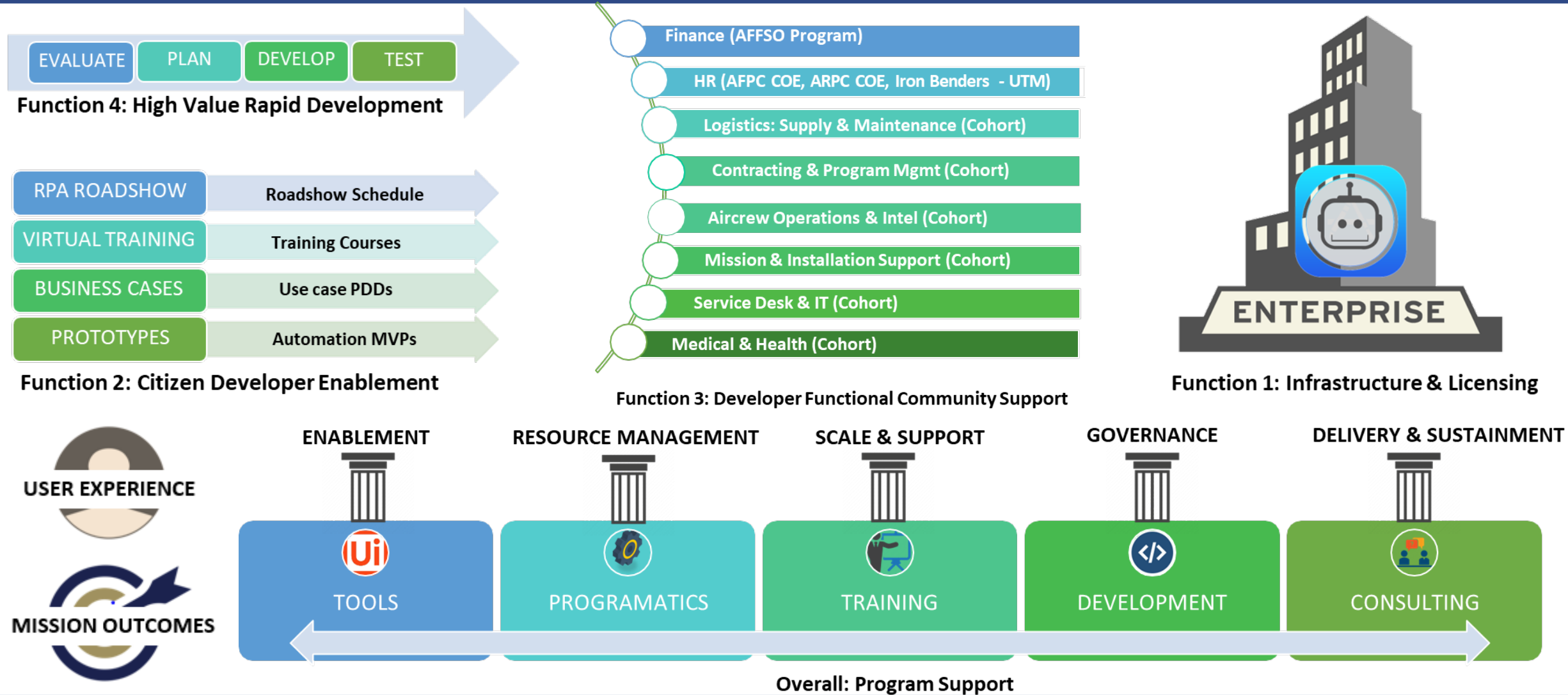




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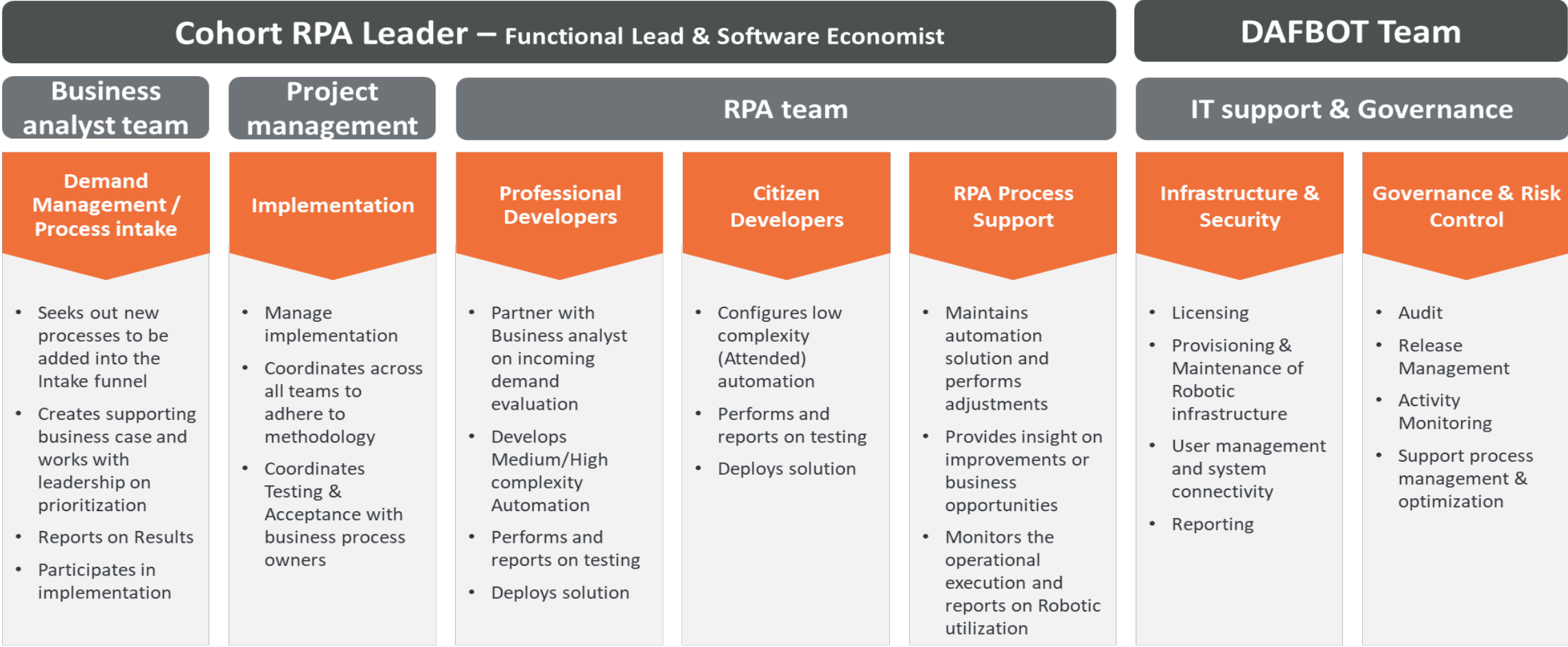
# DAFBOT Framework Overview





# Cohort Structure

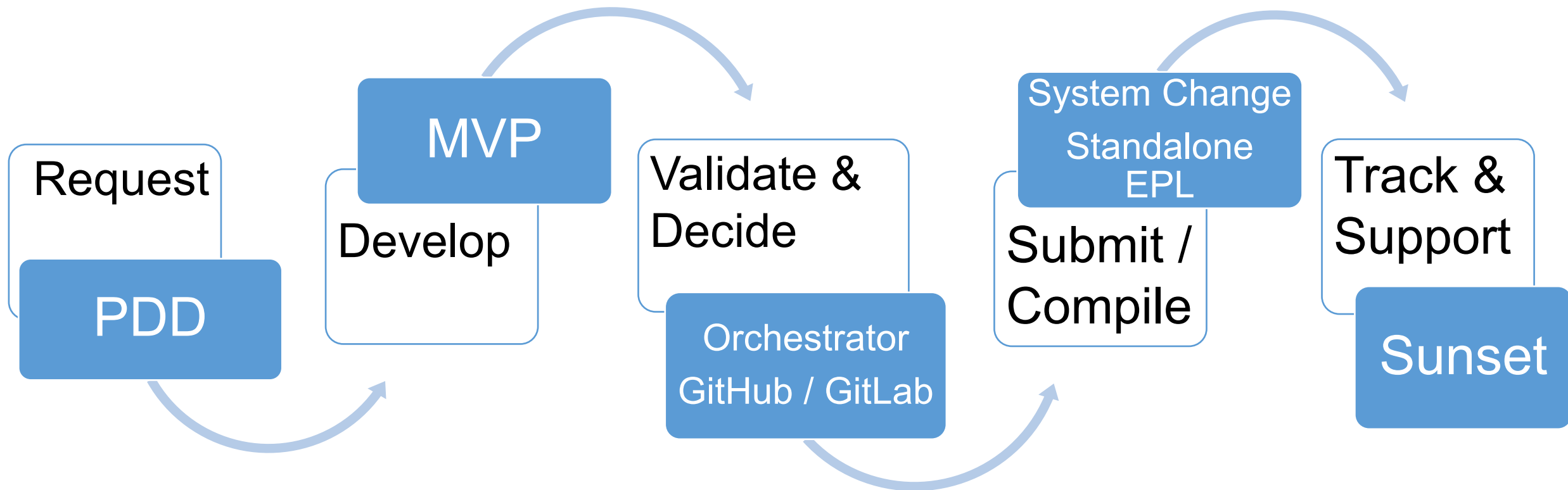
## DAFBOT Governance / Methodology





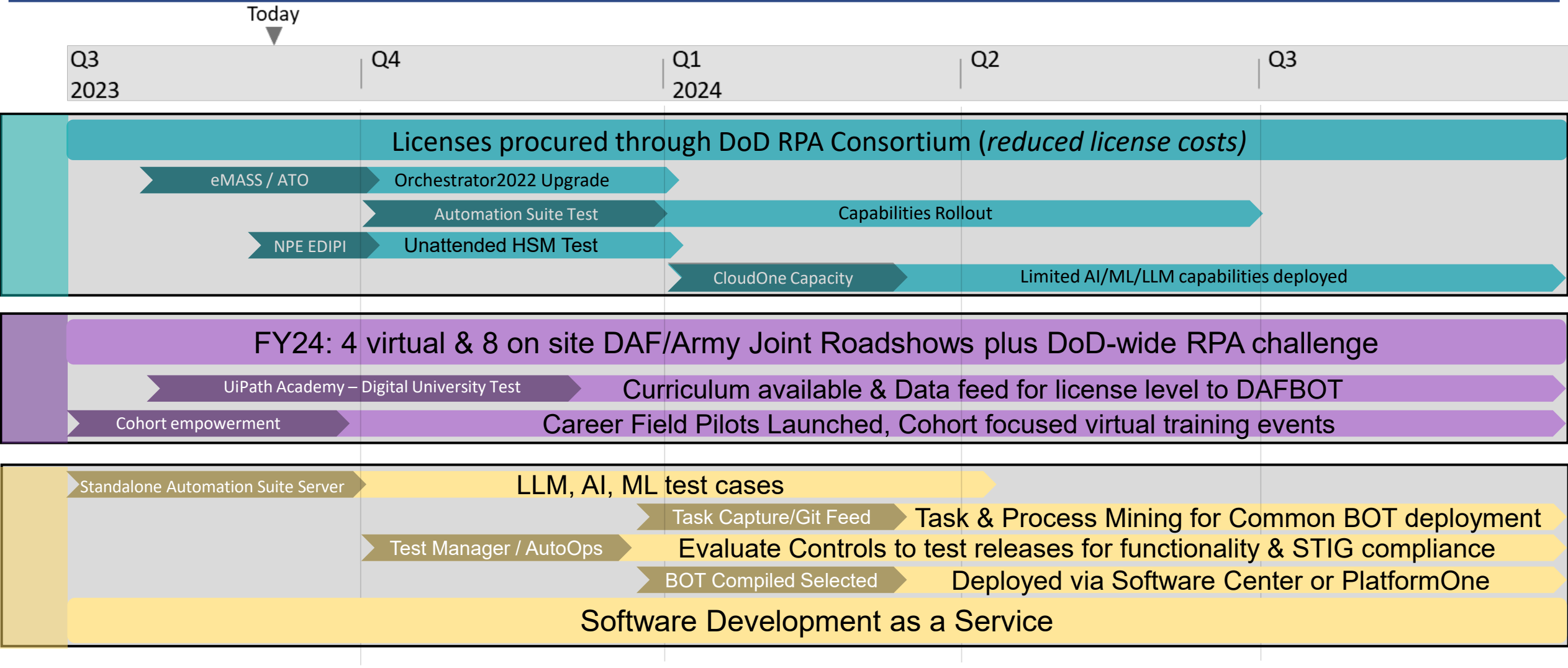


# RPA Lifecycle





# Roadmap for Future Success





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# UiPath New Capabilities



~~1998 Force Drawdown  
"Just Do More with Less"~~

## *Intelligent Automation in today's Air Force*

Dave Sorrels (Lt Col USAF Ret)  
Automation Program Advisor, DoD  
Accounts

[Dave.Sorrels@UiPath.com](mailto:Dave.Sorrels@UiPath.com)





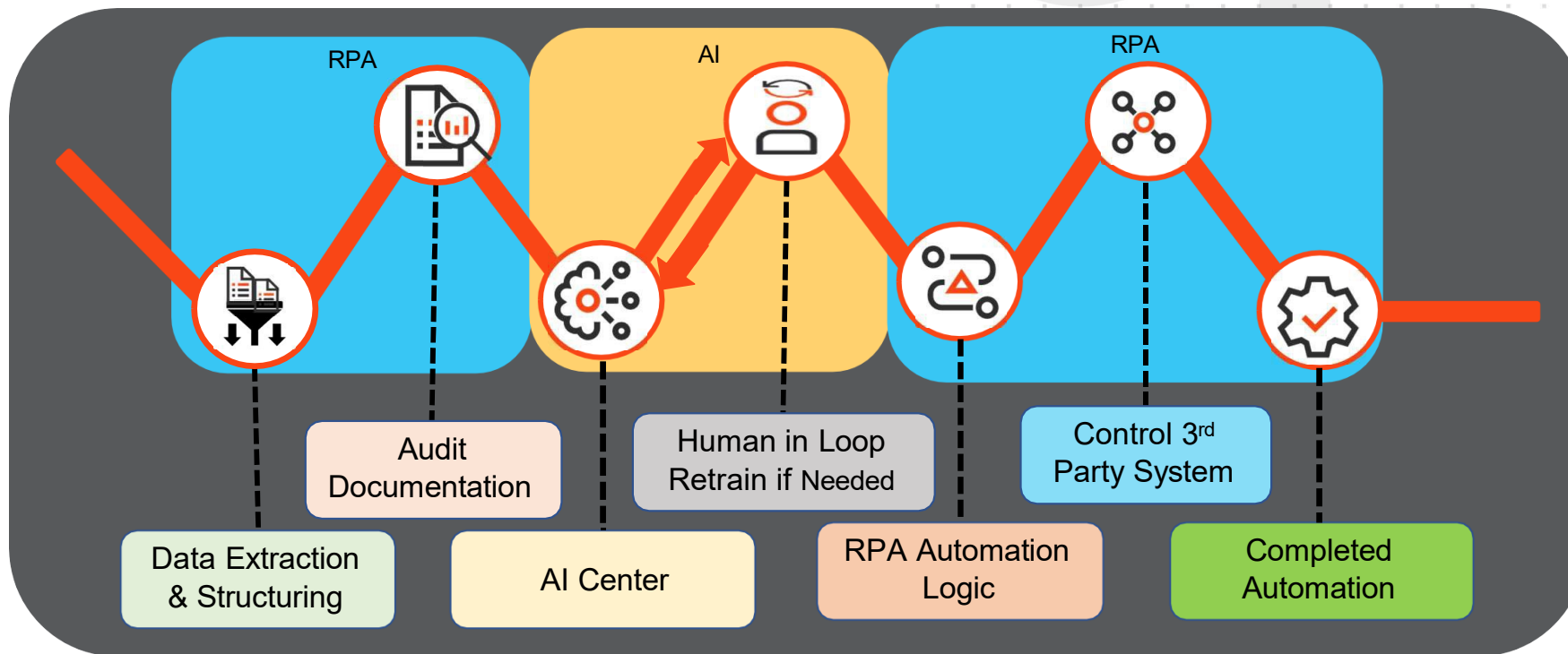
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# Automation Suite – AI/ML

## RPA “bookends” for AI/ML Processes

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**Result:** Analyst spend their valuable time on higher order conclusions

RPA Robots Curate Data – Manage AI/ML processes – Return basic Associations – Complete Documentation

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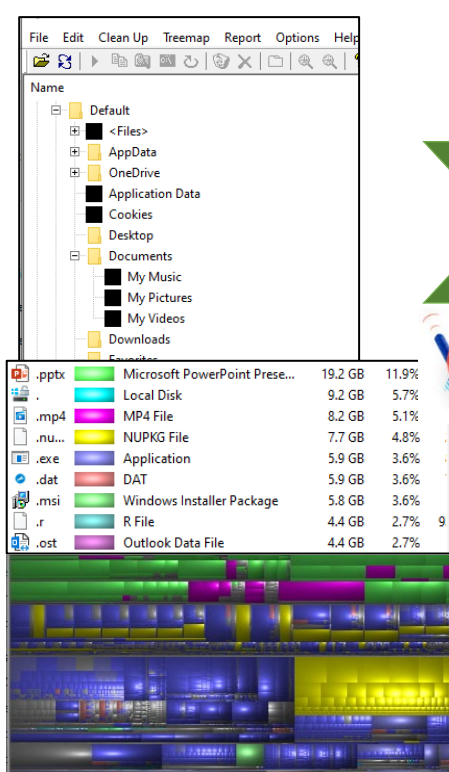


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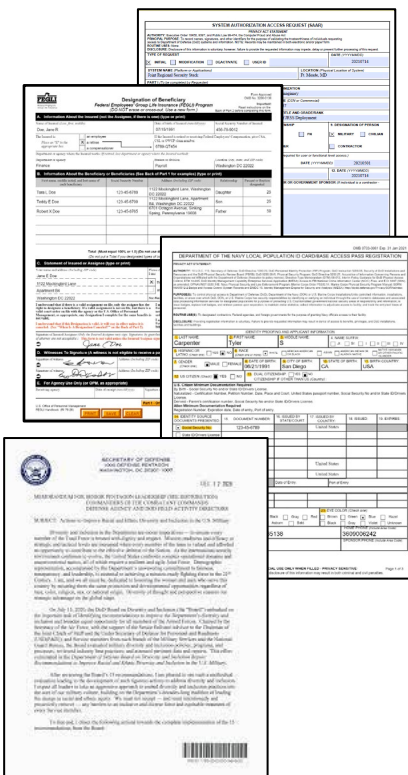
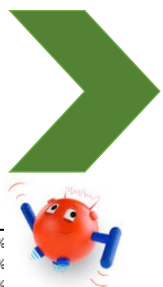
# Intelligent Document Processing (IDP)



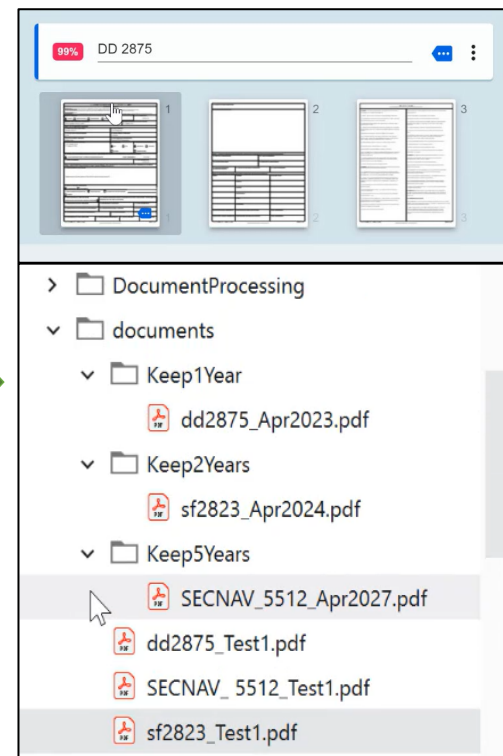
Automated Records Management Use Case



Target Directories / Folders



IDP to categorize files, extract key data and run subsequent rules for Disposition



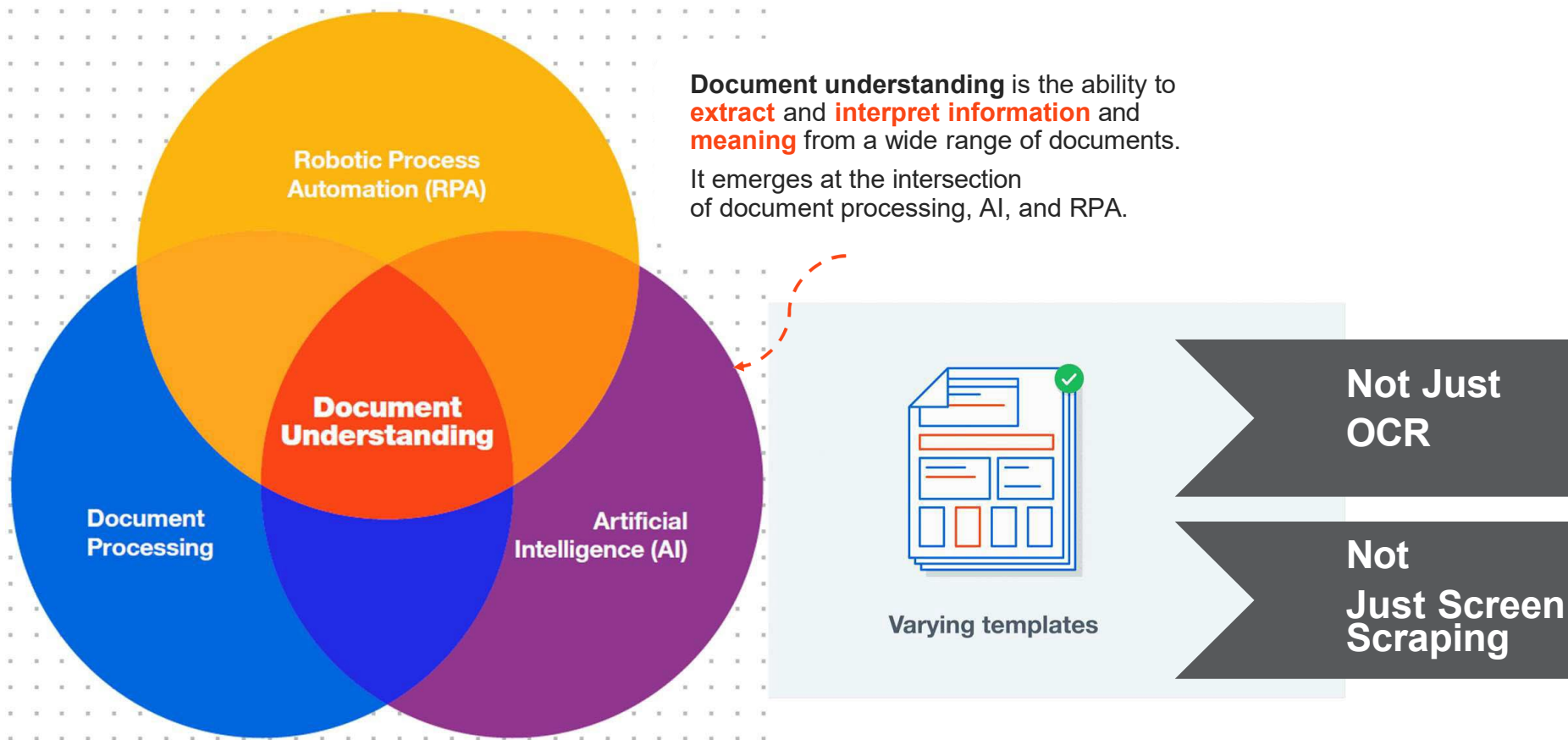
Automation identifies documents, forms, memorandum, updates disposition, files in proper location, logs/audits all actions and alerts if human intervention required



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# AI / ML / Document Understanding





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# Automation Suite: AI Center

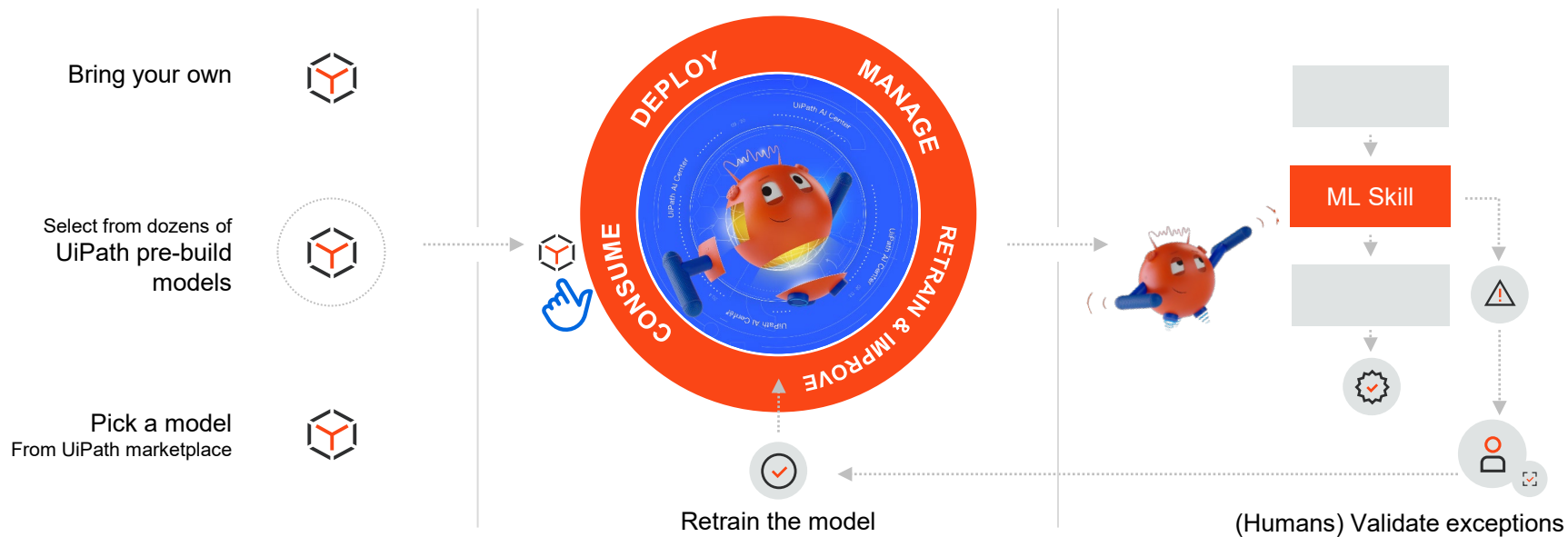


AI Center enables you to insert AI into your workflow with drag-and-drop ease

**1** Choose a model from these options:

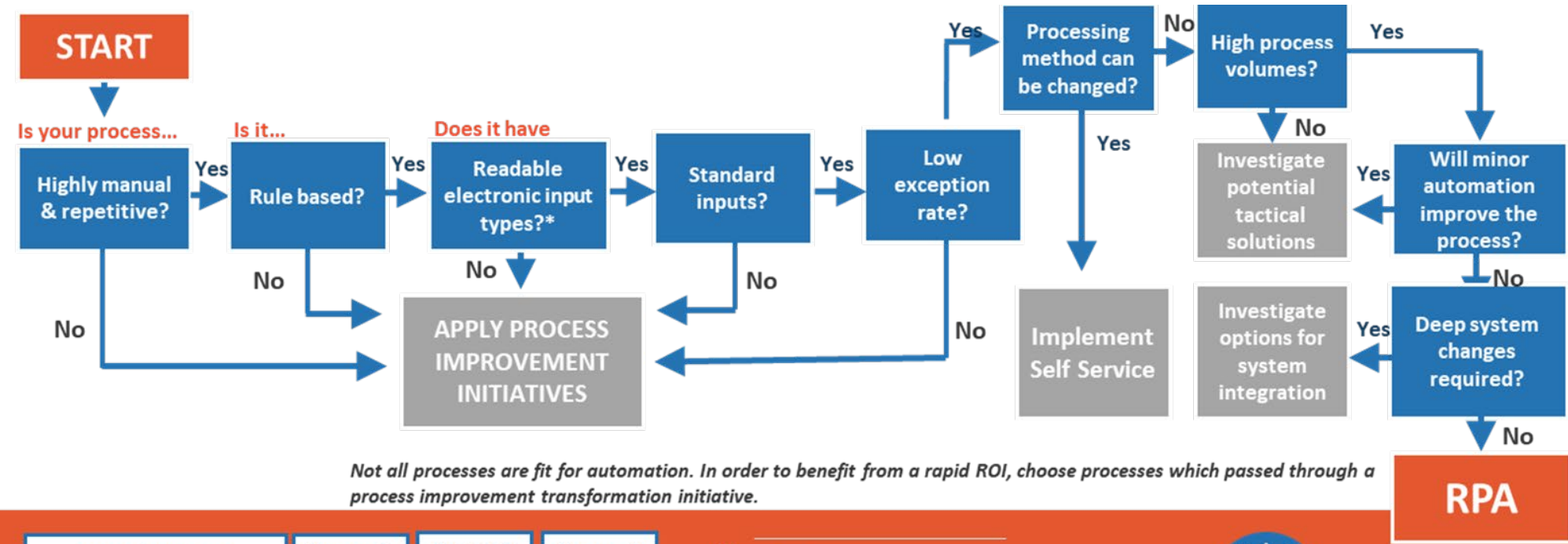
**2** Build an ML Skill with UiPath AI Center

**3** Drag and drop ML Skill into RPA workflows in UiPath Studio





# RPA Use Case Decision







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# UTM (3F2) RPA Pilot Program



MSgt Michael Olsen  
Founder, Iron Benders  
[michael.olsen.3@us.af.mil](mailto:michael.olsen.3@us.af.mil)

[3F2 Innovation Station - Home \(dps.mil\)](https://usaf.dps.mil/teams/11842/Innovation%20Station/SitePages/Home.aspx)  
<https://usaf.dps.mil/teams/11842/Innovation%20Station/SitePages/Home.aspx>

- ◆ Streamlined Operations
- ◆ Enhanced Situational Awareness
- ◆ Improved Accuracy and Compliance
- ◆ Advanced Training and Skill Development



INVOKE







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# Air Force Training Course Update



Automation creates and signs a certificate of completion for training courses



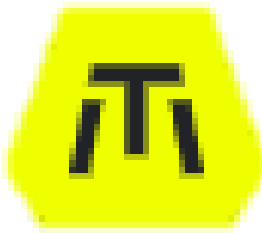
Projected to save 100s of hours weekly depending on volume



Applications required are MILPDS and Microsoft Excel



Process output includes batch update, created completion certificates and email to those who completed course





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# myLearning Bulk Enrollment



Automation bulk enrolls users into courses within myLearning



Process is projected to save ~5000 Hours annually



Applications required are myLearning and Microsoft Excel



Process output includes list of users enrolled in myLearning





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# myLearning Bulk Completion



Automation bulk updates users as completing a given course



Process is capable of 1000s of hours saved, will depend on how many users are able to run process



Applications required are myLearning and Microsoft Excel



Process output includes users who have been marked as complete in myLearning





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# myTraining Mass Journal Entry



Adds journal entries into MyLearning on a mass scale.



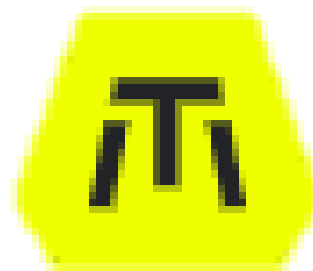
Reduces process runtime by 66%, with an estimated average savings of 1 hour for each UTM per month



Requirements are Excel, UiPath Assistant, and MyLearning access



Process output is added journal entries in the MyLearning system





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# IMDS AWACT NONE



Uses Excel macro template and skips exceptions within Excel document



Currently has a backlog, but will be done monthly



Applications involved are Excel and IMDS



Process output is an updated Excel spreadsheet







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# *AFIPPS Program Office Use Case*

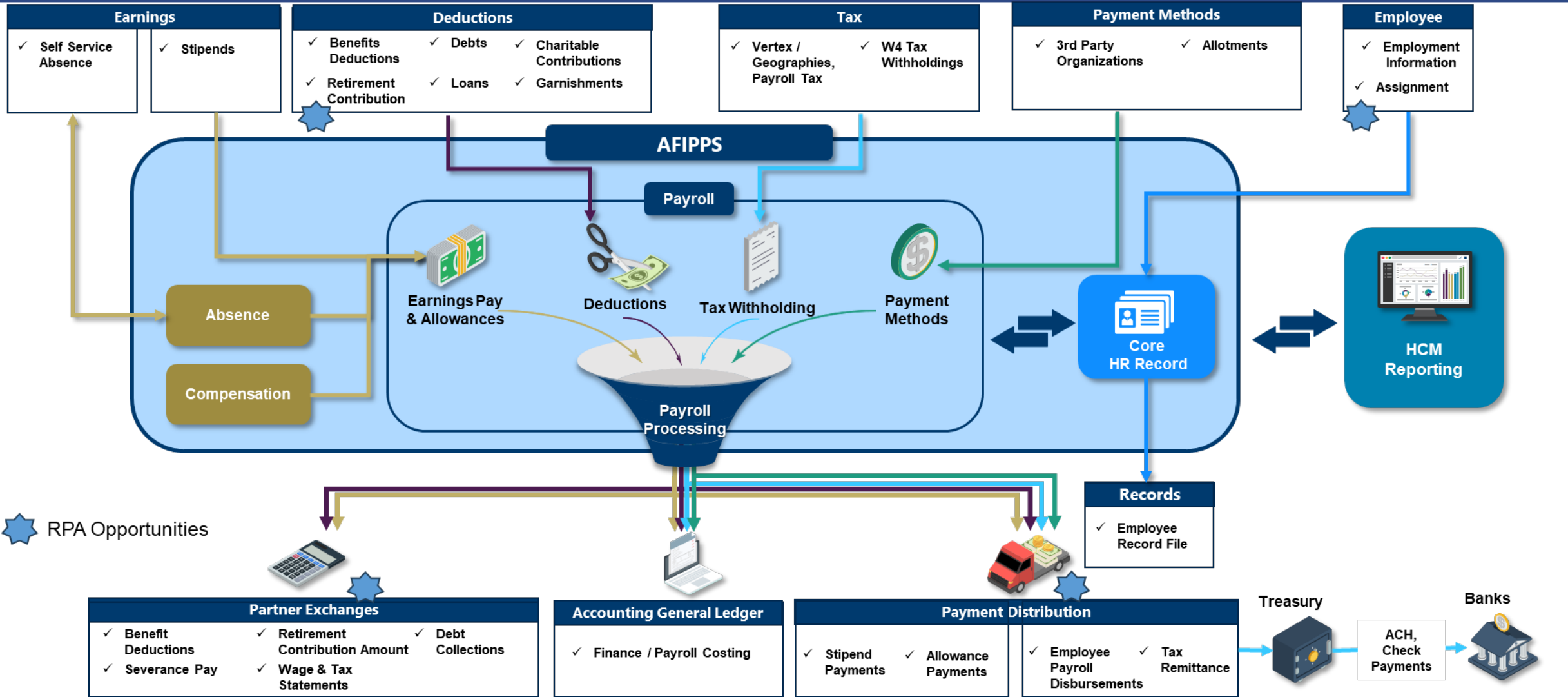


# *Robotic Process Automation Opportunities*

*Mr Samuel Villa-Smith  
AFLCMC/GBH (Oasis)*



# Product/Solution Overview





# *RPA Opportunities within AFIPPS*



- **Retroactive Pay**

- Thousands of personnel events occur between payroll cutoff date and disbursement
- RPAs can scan the payroll ledger and calculate retro pay adjustments

- **Data validation**

- Human Resource processes are inherently difficult to ensure valid data enters the ERP (e.g. address formats, health benefit elections, thrift savings plan withholdings)
- Business rules are dynamic and backlogs for code fixes allow opportunities for errant data to enter the ERP
- RPAs could help personnelists select valid data inputs

- **Environment configuration settings**

- Building/cloning and configuring server and firewall settings



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# Questions / Feedback



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