



Driving Innovation at DFAS

Defense Finance and Accounting Service

Mr. Don Means
September 28, 2023



- ▶ About DFAS
- ▶ Robotics Process Automation
- ▶ Artificial Intelligence





Our Vision...



To be a valued partner in financial management by consistently delivering first-class service and products

Our Mission...



Deliver financial excellence and quality pay services to our customer

Our Core Values...



INTEGRITY
Doing what is right
SERVICE
Remain a trusted financial partner
INNOVATION
Creating new ways to do business

Locations





**All DoD military personnel, retirees,
annuitants and civilian personnel**

**Defense Agencies and the
Office of Secretary of Defense**

Major DoD Contractors and Vendors

Customers outside the DoD

Executive Office of the President

Department of Energy

Department of Veterans Affairs

Department of Health & Human Services

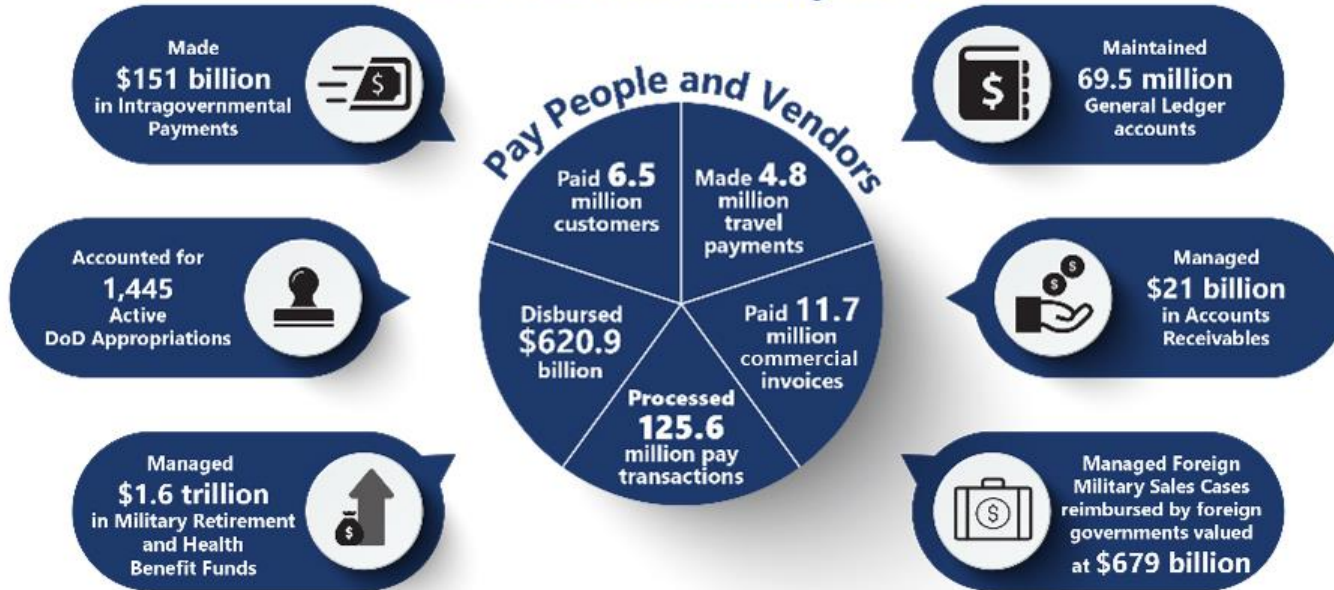
US Agency for Global Media

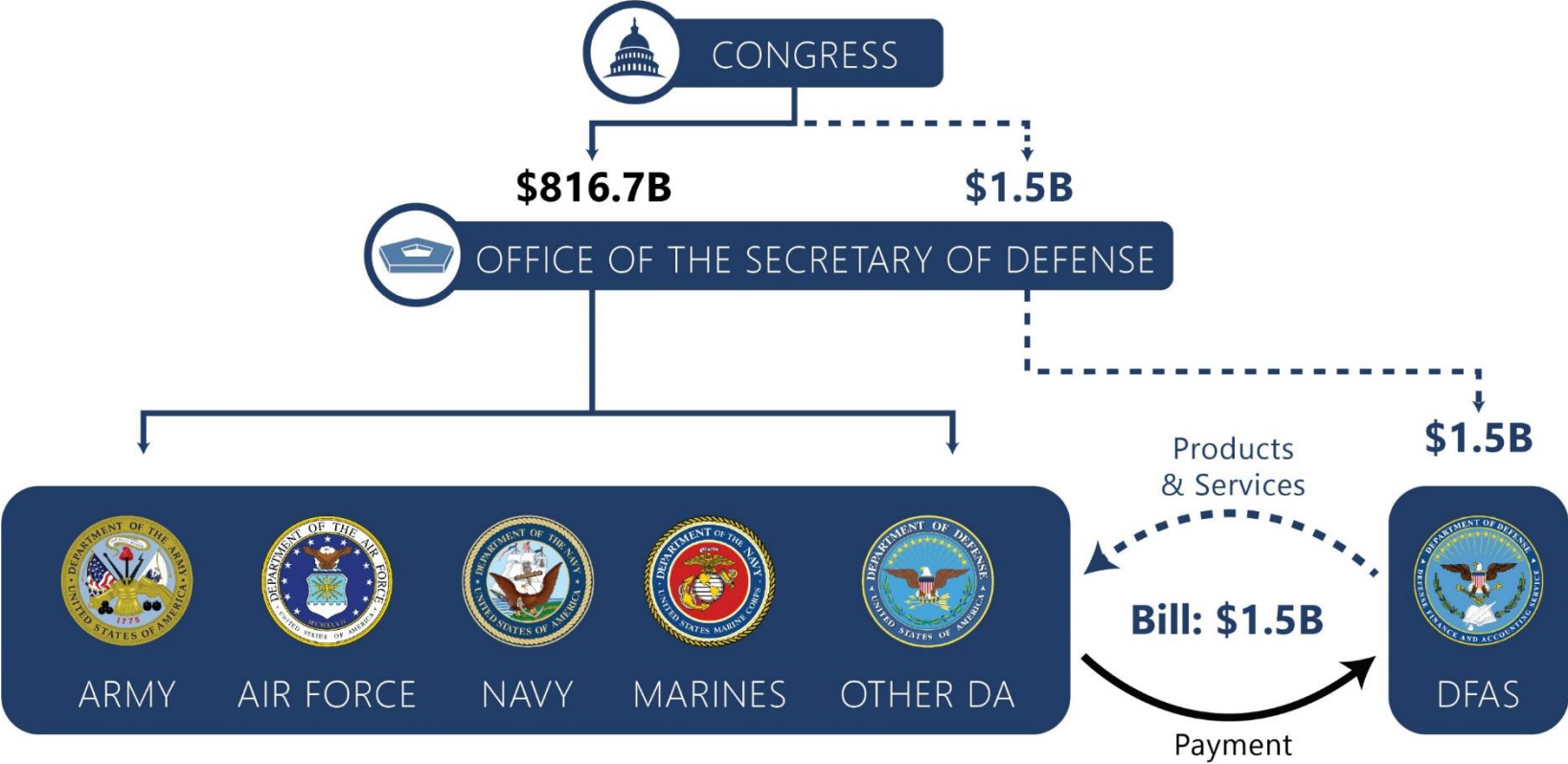
Foreign partners



DFAS is responsible for the **consolidation, standardization, and integration** of finance and accounting regulations, functions, procedures and assigned information systems within the DoD, while ensuring their proper relationship with other DoD functional areas such as budget, personnel, logistics and acquisition.

Finance and Accounting Services







CONSOLIDATION - STANDARDIZATION - INTEGRATION

THEN

NOW

1994 BUDGET*

*FY23 constant year dollars

2023 BUDGET*

DoD
\$502.0B



DFAS
\$3.5B



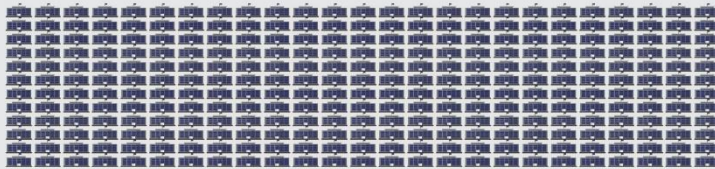
DoD
\$816.7B
(+62.7%)



DFAS
\$1.5B
(-56.1%)



300 sites



10 sites



28K PEOPLE



11K PEOPLE



300+ SYSTEMS



74 SYSTEMS



Early Audit Support

Limited Financial Statement Audits and Testing of Controls

Audit Support

8 Statements on Standards for Attestation Engagements

Support 27 Customer Audits and
DoD-Wide Consolidated Audit



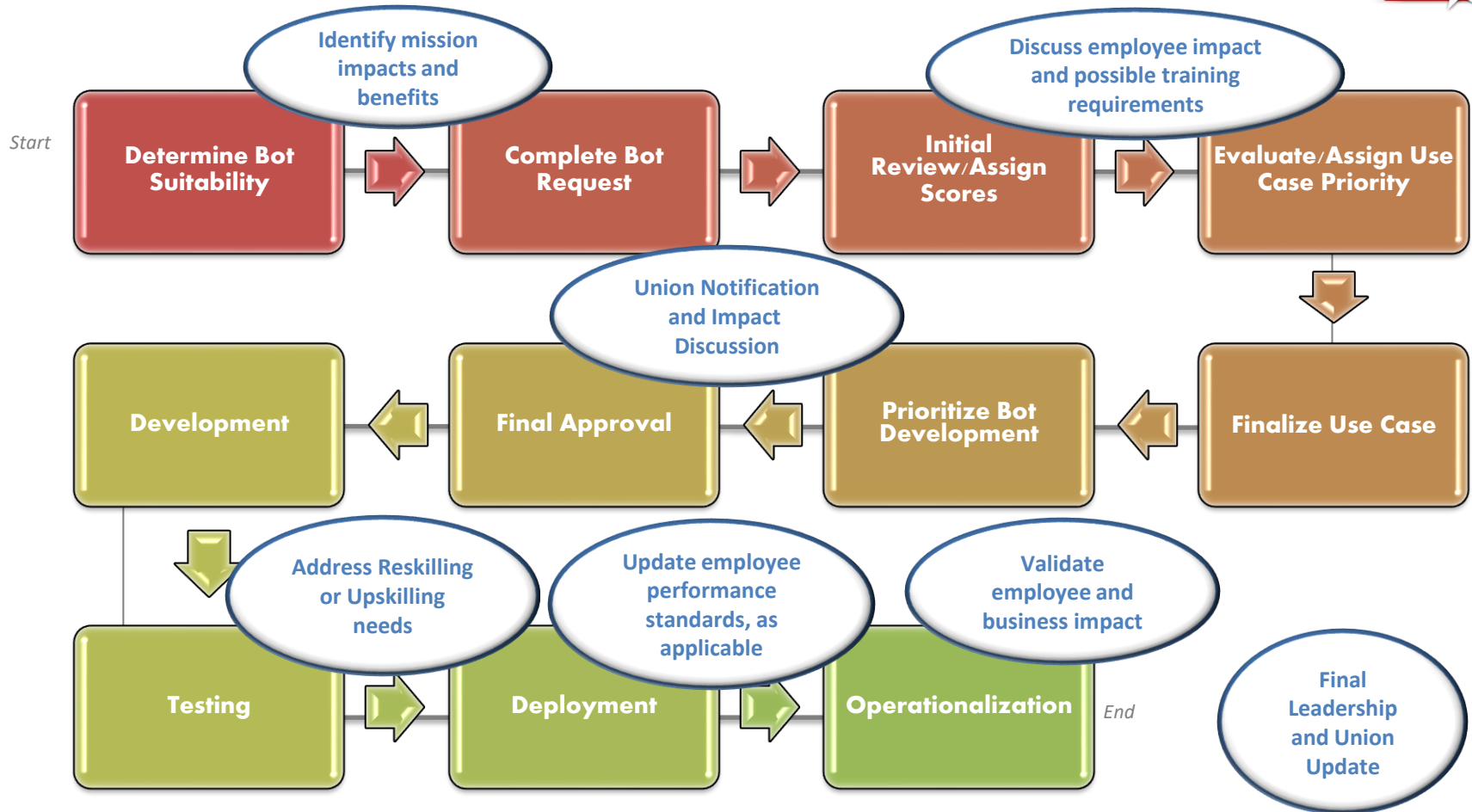
Robotics Process Automation (RPA)



- ▶ **Our Goal:** Deliver robotic process automations that complement the DFAS employee, support performance improvement, and increases job satisfaction
- ▶ **Our Vision:** A mature robotics program that complements DFAS employee efforts in driving greater efficiencies



Human Impact Planning



Keys to Success

- 🔑 Identification of impacted employees
- 🔑 Consistent, open communication with impacted employees
- 🔑 Opportunities for employee feedback

Robotics Process Automation in Action



 Receive and Record Payments

 Send invoices to customers




 Receive/post invoices

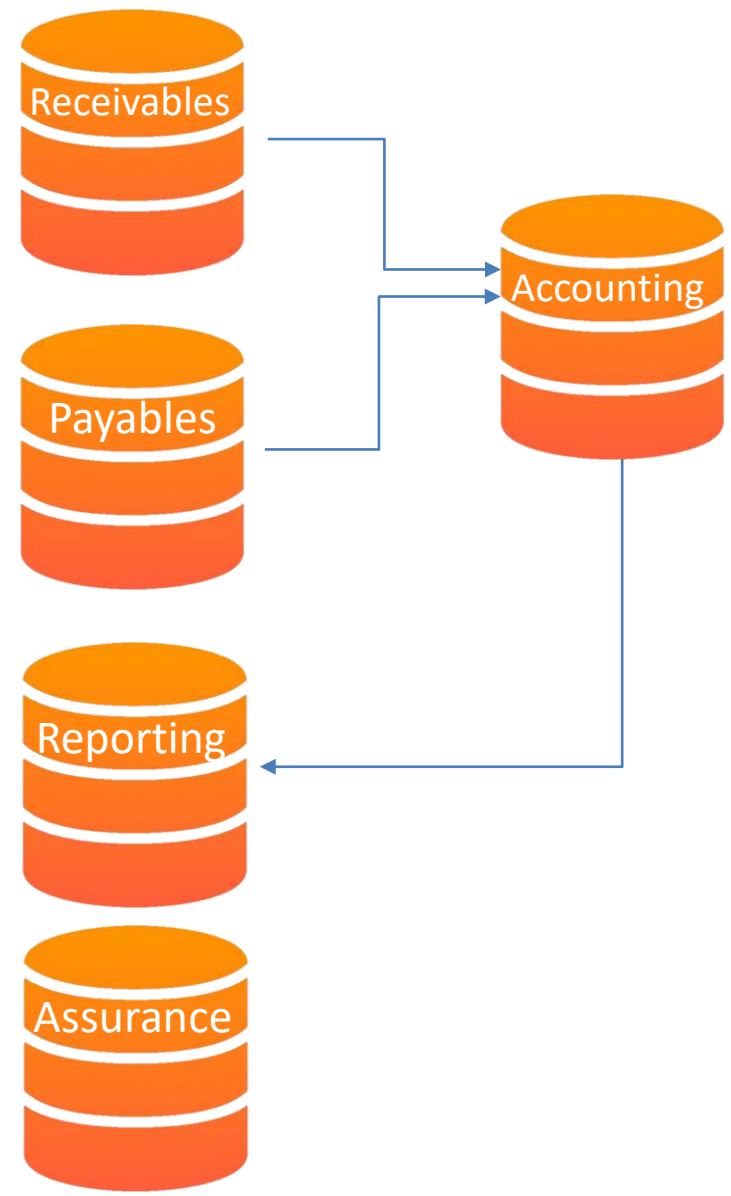
 Prepare and send payments



 Produce Management Reports



 Timely Support Audit Samples/PBCs



Partnerships



U.S. DEPARTMENT OF THE
TREASURY

GTAS & Intragovernmental Reporting
May 8, 2014





Artificial Intelligence



- ▶ **Mission Statement:** To be the leader in Artificial Intelligence throughout the Department of Defense for Financial Management
- ▶ **Vision Statement:** Transform DFAS by accelerating the adoption and delivery of AI-enabled capabilities such as Machine Learning (ML); promote a leading AI workforce that solves large and complex problems through trustworthy AI/ML strategies to meet customer needs; create and expand public and private partnerships to help support AI innovation throughout the Department of Defense



Fraud Detection: ALERT



- ▶ **Business Need/Goal** – To develop an AI application that can proactively detect and prevent fraudulent transactions from processing rather than reacting to reported fraud
- ▶ **Action Taken** – Developed multiple AI Strategies to make predictions
 - Decision Tree supervised Machine Learning is used to classify or categorize transactions as either legitimate or potentially fraudulent
 - Neural Networks are also used for deep learning through a hidden layer of connected artificial neurons to make predictions of fraud based on 45 different variables
- ✓ **Results** – ALERT analyzes over 50 variables daily to detect patterns in previously identified fraud transactions.

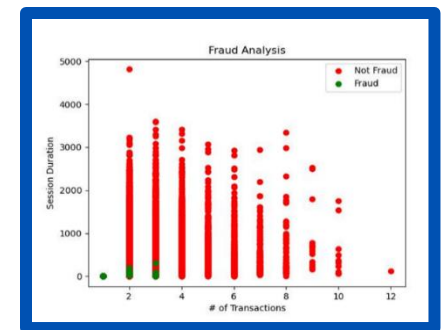
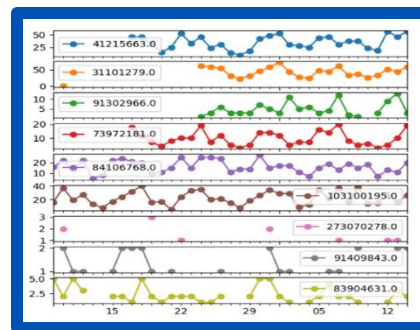


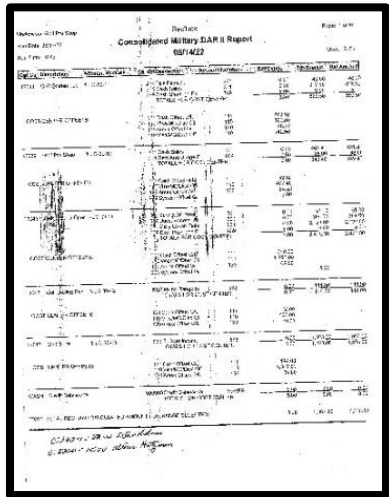
Image Recognition: VISION



- ▶ **Business Need/Goal** –To streamline and automate the time-consuming process of handling various documents, reducing manual effort and increasing operational efficiency

- ▶ **Action Taken** – Developed a comprehensive document processing tool utilizing advanced AI strategies for processing and recognizing images
 - Developed human-in-the-loop process for end to end handling of the Daily Activity Report

- ✓ **Results** – Reduce manual workload and potential errors from manual input into the accounting system. Allow faster customer availability of data

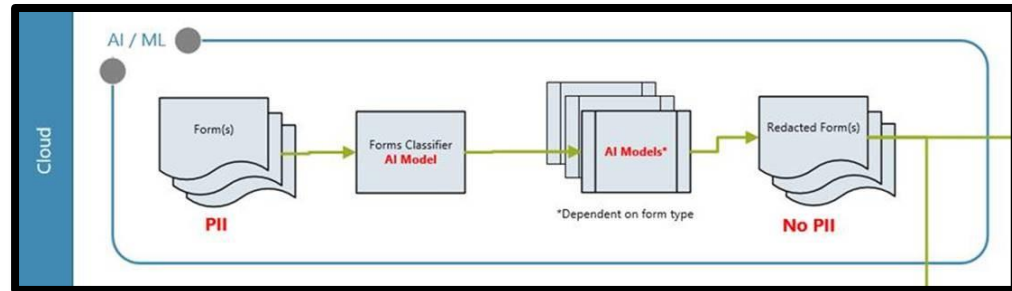


Report Category	content
DAR for Period:	Bank Deposit Slips (USD)
G/L Summary Distribution / GL Distribution	- Detail Line Items
Credit Card Deposit Report Summary and Smart Cards	
DA Form 4082 - Daily Cashier's Record	
Cash Journal / End-of-Shift Report / Shift Report	
Cash Receipt Voucher (DA Form 1992)	
Tip Sheets, if applicable	
Return Checks, if applicable	
Contracts: Party contracts or similar items, if applicable	
Vending/Amusement Mach Collections - DA Form 4083-R, if appli	
Ticket Commission Report / MTV Tickets (copy), if applicable	
Tour Vouchers / Reservation Receipts for ITR, if applicable	
Form 5069 - Employee Meal Register, if applicable	
Other:Pass G/L Report	
Other:Draft Reconciliation Summary	
Other:Ice	
TOTAL PAGES SCANNED (including transmittal cover)	



- ▶ **Business Need/Goal** – Decrease the time to deliver Key Supporting Documents for Audit Request
- ▶ **Action Taken** – Developed an AI-enabled application that automatically redacts PII from ten different forms without human intervention
- ✓ **Results** – Decrease manual time spent reviewing audit packages, reduce deviation of Provided by Client (PBC) turnaround time, increase audit packages supported (mission area avoidance), standardize processes/procedures

Standard Form 1034 Revised October 1987 Department of the Treasury TFM 4-2000		PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL		VOUCHER NO. 543930	
U.S. DEPARTMENT, BUREAU, OR ESTABLISHMENT AND LOCATION DFAS-IN, MILITARY PAY PMCD 8899 E. 56TH STREET INDIANAPOLIS IN 46249		DATE VOUCHER PREPARED (MM/YY)	SCHEDULE NO.		
PAYEE'S NAME AND ADDRESS		CONTRACT NO AND DATE	PAID BY DFAS-IN, MILITARY PAY PMCD		
SHIPPED FROM		REQUISITION NUMBER AND DATE	5570 04/01/21		
TO		DATE INVOICE RECEIVED		DISCOUNT TERMS	
WEIGHT		PAYEE'S ACCOUNT NUMBER		GOVERNMENT BL NUMBER	
NUMBER AND DATE OF ORDER	DATE OF DELIVERY OF SERVICE	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary)	QUAN TITY	UNIT PRICE COST PLR	AMOUNT (1)
31-MAR-21				2410.51 EA	2410.51
(Use continuation sheet(s) if necessary) (Payee must NOT use the space below)					TOTAL 2410.51
APPROVED FOR		EXCHANGE RATE		DIFFERENCES	
US		US 0			
PROVISIONAL COMPLETE PARTIAL		BY (2) JOHN P. CAMPBELL	Amount, verified, correct	2410.51	





- ▶ Exploring Generative AI and Large Language Models for use at DFAS

- ▶ Build an Implementation Strategy based on five strategic Pillars to include:
 - ✓ Risk Considerations
 - ✓ Technology Selection
 - ✓ Architecture and Design
 - ✓ Impact to People
 - ✓ Business Impact

- ▶ Identifying Use Cases within four main categories
 - 1) Worker Augmentation
 - 2) Talent Optimization
 - 3) Process Improvement
 - 4) Risk Mitigation



Questions

