



# The AI Revolution: A Call to Action

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## ASI Experience

- **ASI launched in 1996**
- Exclusively help state and federal agencies pioneer innovative approaches to better procurement outcomes
- Developed ASI Education

**Capabilities**

- Emerging Technologies (Artificial Intelligence and Robotic Process Automation)
- Strategy & Organizational Development
- Strategic Program Management
- Procurement support
- Data Management and Analysis
- Customer Experience Support

- **Experience**
- Hundreds of prime and subcontracts for more than 70 agencies
- Plan, develop, and execute more than \$100 billion in OCI-free procurements
- Industry leadership NCMA, PSC, ACT-IAC, INSA procurement councils



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# AI: Exercise



3

## Is it AI?



A



B

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## Is it AI?

### The Dance of the Hula

Ancient tales come to life,  
 In the dance of the hula, strife.  
 Graceful hands weave the story,  
 Of Hawaii's past, its glory.  
 The sway of hips, the rhythmic feet,  
 A language without words, but beat.  
 Ancestral wisdom, passed down through,  
 The dance of the hula, ever true.  
 A cultural treasure, a living art,  
 Hula captures the Hawaiian heart.  
 In every step, a legacy, Hawaii's soul, set free.

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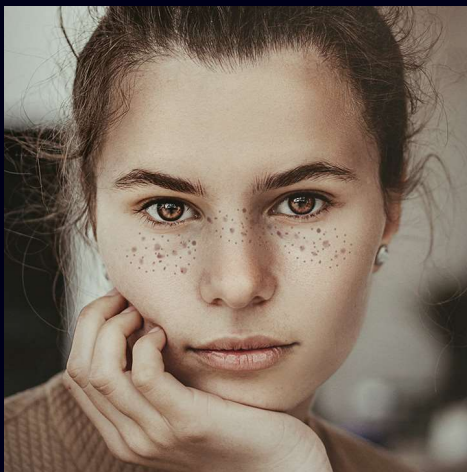
### Dance of the Islands

Beneath the sun, where waters gleam,  
 Hawaii breathes a timeless dream.  
 A sway of hips, a gentle grace,  
 Reflecting all of nature's face.  
 Through hands that wave like winds so free,  
 Tales of the islands come to be.  
 The flowers bloom in colors bright,  
 As dancers move in morning light.  
 Each step reveals the stories old,  
 Of ocean blue and sunsets gold.  
 Hawaii's heart in hula told.

B

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## Is it AI?



A



B

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## Is it AI?

Hawaii is a place where vibrant landscapes and deep-rooted traditions create an unforgettable experience. The islands are known for their scenic beaches, towering mountains, and a rich biodiversity that feels almost otherworldly. The culture, from hula to lei-making, weaves a narrative of unity with nature, reflecting respect for the land and ocean. Visitors to Hawaii often feel a strong connection to this cultural heritage, as they explore the beauty and spirit that define this paradise.

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Hawaii's landscapes are a blend of lush rainforests, volcanic mountains, and serene beaches, offering visitors an experience of both adventure and tranquility. The islands' natural beauty is complemented by rich cultural traditions that have been preserved over centuries, from the graceful art of hula dancing to the melodic sounds of the ukulele. For many, Hawaii is more than just a vacation destination; it's a place to reconnect with nature and find peace in its breathtaking scenery.

B

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## AI: Shaping Our Future

### 1 Augmenting Human Potential

AI enhances productivity across various sectors, from healthcare to transportation.

### 2 Reshaping Economies

AI is transforming economies and labor markets, creating new jobs while necessitating workforce reskilling.

### 3 Revolutionizing Interactions

AI is changing how we interact with technology, from voice assistants to autonomous vehicles.

### 4 Addressing Ethical Concerns

The rise of AI brings ethical, social, and existential questions.

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# AI: The New Electricity

## General Purpose Technology

AI, like electricity, is a transformative innovation with far-reaching effects across all sectors.

## Electricity's Impact

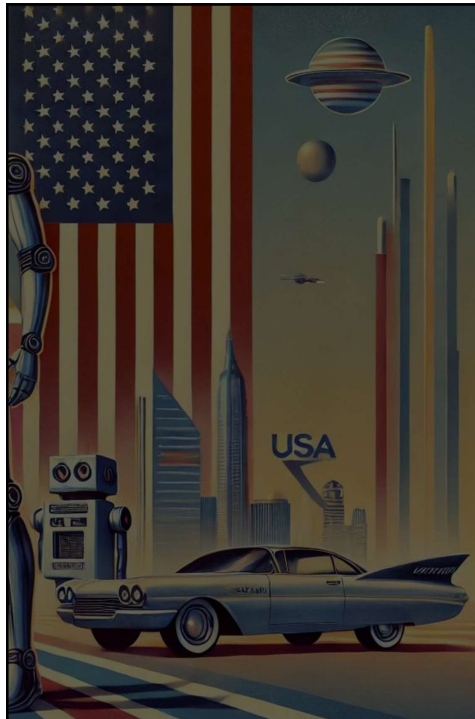
Electricity's evolution from a scientific concept to a general-purpose technology revolutionized daily life.

## AI's Parallel

AI is following a similar trajectory, transforming daily life, enabling new technologies, and fundamentally changing how we work,



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## AI and the U.S. Government

### Pervasiveness

AI enhances healthcare by detecting diseases early and predicting outbreaks

### Cumulative Effects

AI improves disaster response by analyzing data, aiding FEMA in relief efforts.

### Economic Impact

AI drives innovation, helping the EPA monitor the environment and manage resources efficiently.

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## Geopolitical Stakes: The AI Race

### China's Ambitions

Aims to lead AI by 2030, raising concerns over surveillance and privacy.

### Russia's Assertions

Invests in AI for civilian and military use, raising global stability concerns.

### The Need for Vigilance

Misuse of AI calls for ethical guidelines and responsible development to benefit humanity.

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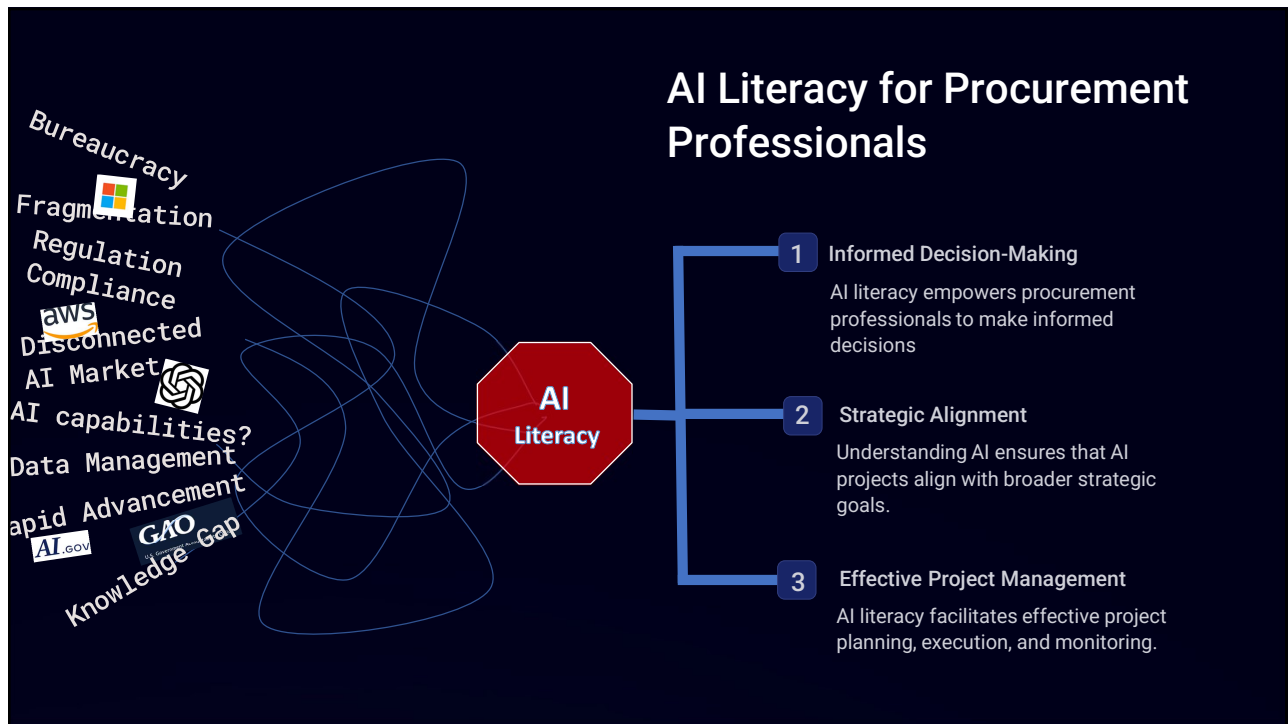
## The Role of Procurement Professionals in the AI Revolution

1. Bridging the Gap

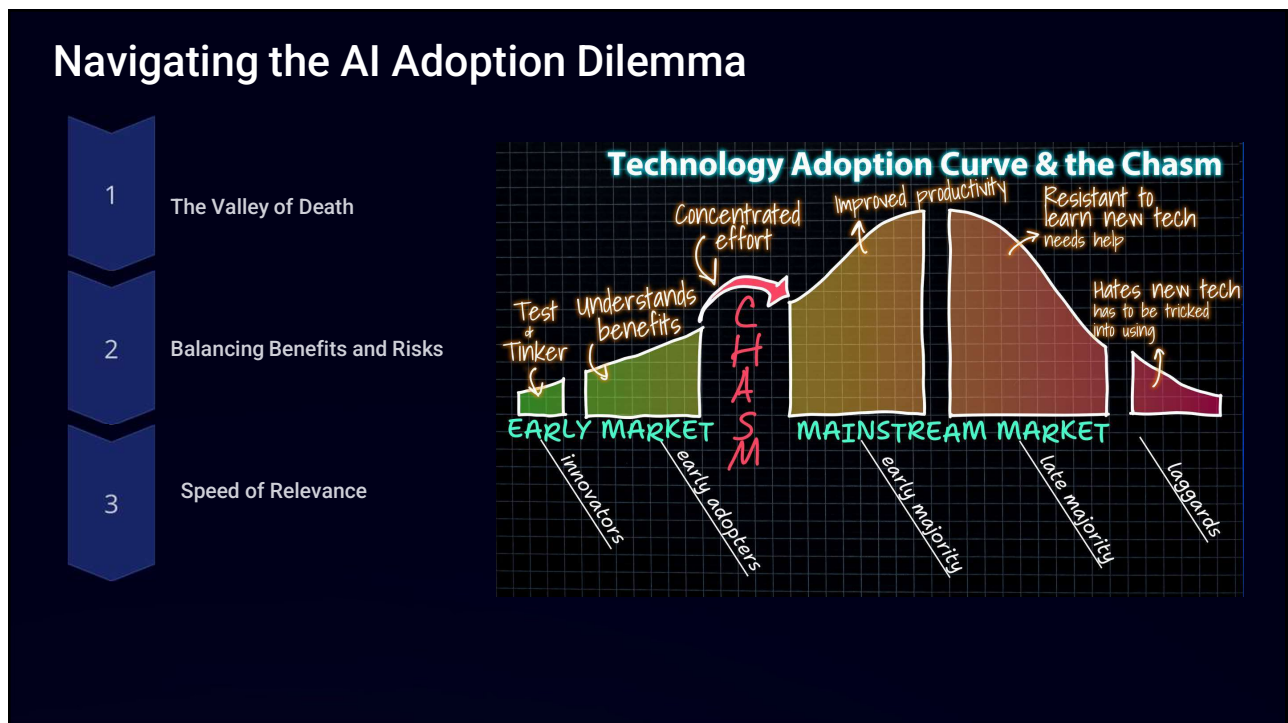
2. Enabling Mission Success

3. Guiding Responsible AI

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# The Cost of Inaction

## Operational Inefficiencies

Failure to adopt AI can lead to operational inefficiencies, increased costs, and an inability to keep pace

## Delayed Services

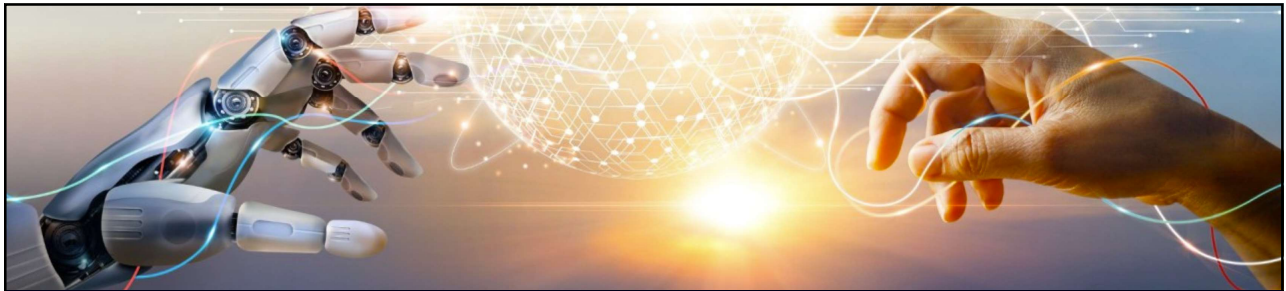
Lagging behind in AI adoption can result in delayed services, inadequate support for critical needs

## Global Competitiveness

In a world increasingly shaped by AI, falling behind can impact national competitiveness and economic growth



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# Overcoming AI Resistance: A Call to Action

## 1 Embrace Innovation

Procurement professionals must champion innovation, challenge the status quo, and advocate for the adoption of AI solutions

## 2 Lead with Expertise

Leverage your procurement expertise to guide agencies through the complexities of AI procurement.

## 3 Shape the Future

By embracing AI and driving its responsible adoption, procurement professionals can shape the future of government

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# AI Success Stories: IRS Procurement Automation



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**DATA ACT Solution**

**DATA ENTRY GAP**

FPDS-NG records are created by human-entered data and have a high likelihood of error as procurement actions increase.

Over time, some FPDS-NG records do not fully reflect official procurement documents.

**DATA VALIDATION**

Validating FPDS-NG and legacy records, manually, for all 33 major data elements requires an average of 45 minutes to 1 hour.

There is an estimate of 11,000 new transactions per year for the IRS.


- Find the correct reference document
- Find the reference data element
- Compare and reconcile discrepancy

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## Intelligent Ongoing Validation


Through Automation

legacy FMS



SF30s, SF1449, OF347 and Attachments





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Navigate legacy Folder Management System for the source data

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Identify the documents with the highest likelihood to contain the valid data elements

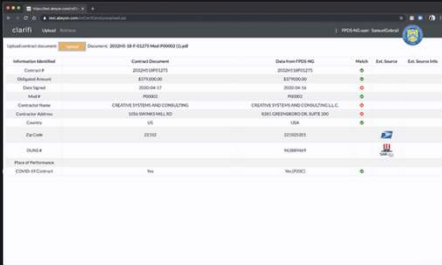
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Using NLP, extract the structured/unstructured data element and use it for FPDS-NG comparison

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## Intelligent Ongoing Validation





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Collect data from external data sources

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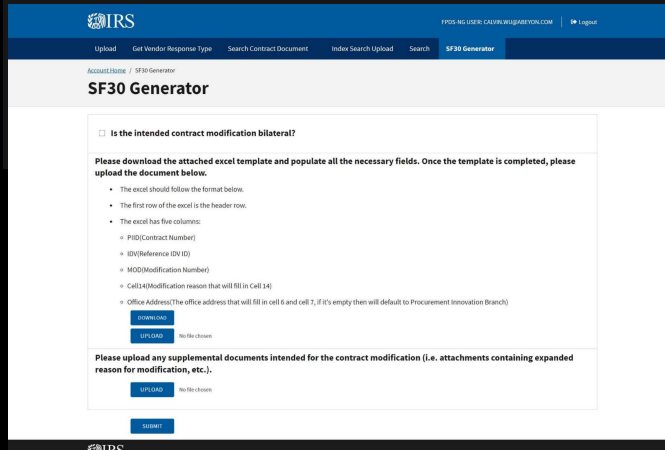
Compare the data against data sourced from FPDS-NG

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# Contract Modification Solution

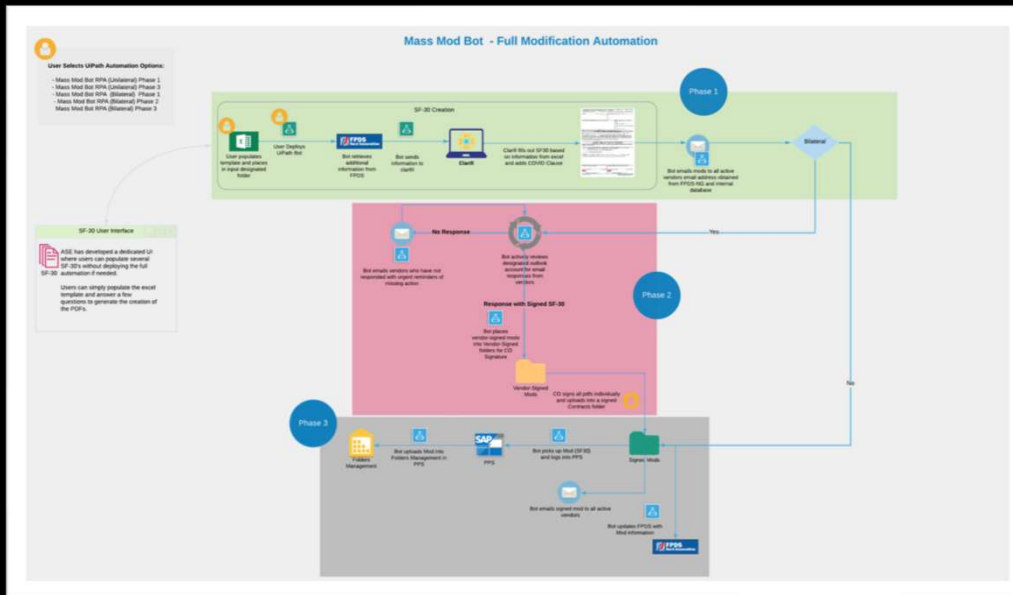
## EXPANDING IMPACT

Mass Mod Solution automates bilateral and unilateral contract modifications, and a user-interface was developed to create a single-entry point to automate a variety of modifications.



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## NOW AUTOMATING ALL THREE PHASIS OF CONTRACT MODIFICATIONS AND ACCOUNTING FOR MORE THAN JUST ADMINISTRATIVE MODS



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## CONTRACT SEARCH

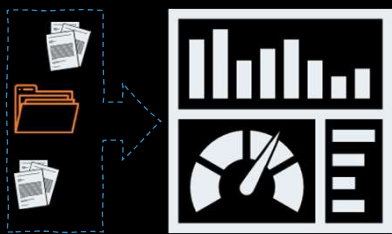
### IMMEDIATE VALUE

The automated search and sort process avoids manual review of thousands of documents for relevant search terms.

- Solution developed and deployed within 3 weeks of business requirements capture
- Development was exclusively performed within IRS environment to ensure compliance and immediate client access

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## DIGITIZING DATA



Extracting data from the source allows for accurate reporting and modeling

Our goal is to help the office of contracts and procurement accurately utilize data embedded in thousands of documents to provide customizable procurement reports and enable open search prompts for document retrieval such as:

“All Contracts with value higher than \$1 Million”

“All records containing COVID clauses”

“Contracts related to IT Infrastructure”

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## VALUE IN INTEGRATED ARCHITECTURE

### ESTABLISHING AUTOMATION & VISIBILITY WHERE NO API EXISTS

- Developed sole integration reach within legacy FMS
- Integration would incentivize use of solutions such as SharePoint
- Deployed code can be easily modified for new automations driving immediate value and minimizing development time and cost
- Allowing for seamless immediate automations

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## Deployed Initiatives

### DATA Act Quality Assurance System

ASI implemented a Data Quality Assurance system to review, assess, and correct data discrepancies in real time ahead of procurement audits. The solution retrieves original contracts of interest to verify actual contract data aligned with official public procurement data (FPDS-NG) to ensure compliance with DATA ACT requirements.

**TIGTA Score of 97% - Explicit recommendation by TIGTA to utilize demonstrated solution in 2019**

### Contract Mass Modification

**Section 889 Success**  
Our solution processed modifications of 1,466 active contracts in **3 days**. Under normal procedure, the IRS estimated that this would have taken approximately **2 years to complete**.

**Responding to EO14042**  
Similarly, our solution resulted in similar achievements of creating and sending **1,220 SF30s in 8 hours**.

**Expansion into Bilateral Mods**  
Releases 2 and 3 of this automation expanded the automation for bilateral mods to include streamlining CO approval, correspondence management, and FPDS-NG record creation.

### Intelligent File Access and Management

Team ASI is developing a solution for the IRS to integrate with the SharePoint systems for seamless document upload into the legacy FMS. This would eliminate the administrative burden associated with multiple points of document upload, and the ongoing migration of documents from AWARE to legacy FMS. The solution would also ensure that files are correctly named and placed in the right filing location, significantly decreasing human error.

**Increase of FMS compliance and reduction of folders maintenance times by at least 70%.**

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# Embracing the AI Revolution

The AI revolution is upon us, presenting both remarkable opportunities and complex challenges.

## Contact Information

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