

UNCLASSIFIED

THE HIGHEST CLASSIFICATION OF THIS BRIEFING IS UNCLASSIFIED

SLIDES ONLY  
NO SCRIPT PROVIDED

CLEARED  
For Open Publication

2  
Jun 17, 2024

Department of Defense  
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

# Declassification Modernization Brief

Addressing the Necessity to Modernize the DoD Classified  
Information Management Declassification Program

24 JUNE 2024

# Bottom Line Up Front

- A digital tsunami is coming - **The USG is at a pivotal decision point and cannot afford inaction.**
- **A whole-of-government approach is needed** to modernize declassification.
- Reducing backlog and improving efficiency will **improve transparency** and **ensure ongoing protection** of classified information.
- Capabilities, requirements, frameworks, and implementation strategies to acquire **holistic solutions** are being developed.
- **Testing and evaluation** in collaboration **with potential transition partners** is critical.
- The current effort is **built upon the success of the OUSD (I&S) initial investment** in ARLIS and continued investment in declassification modernization

# Agenda

- Current state of declassification
- DoD efforts
  - Engagement with declassification partners & components
  - Systems engineering approach to modernization
  - Reviewer augmentation capability testing
- Potential Collaborations
- Next Steps
- Open Discussions

# Setting the Scene: Establishing the Need for Modernization of Classified Information Management

- “Digital tsunami” and exponential growth of electronic classified information; current architecture not designed to handle this magnitude
- Declassification offices have the same amount of resources but a **rapidly expanding volume of work**
- Frameworks and strategies must be developed now while maintaining a holistic view of the classification, records management, and declassification program requirements
  - Focus on tool capabilities and metrics that can be of benefit across programs
  - Determine appropriate acquisition program development and life cycle for supporting tools that meet the users’ needs
  - Streamline associated policies, procedures, and guidelines

Digital Tsunami: ??????TB

# Declassification modernization can prevent “drowning” in the Digital Tsunami



Obama:  
250TB

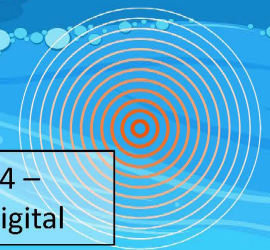
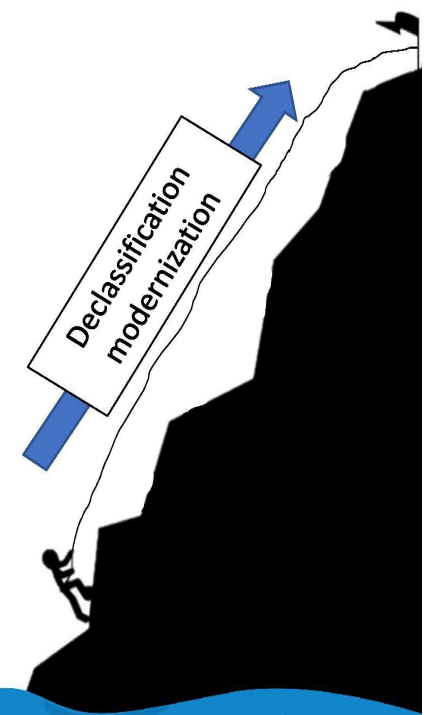


## Digital Assets within Presidential Libraries\*

George W Bush:  
80TB



Clinton:  
4TB



June 30, 2024 –  
Transition to Digital

\*Only a snapshot of the White House documents that are currently measured



Declassification Modernization is an achievable moonshot, but needs a “whole of government” approach – OUSD (I&S) can lead the way



384 467 KILOMETERS



625 230 KILOMETERS

Obama Library Digital Assets: 250TB

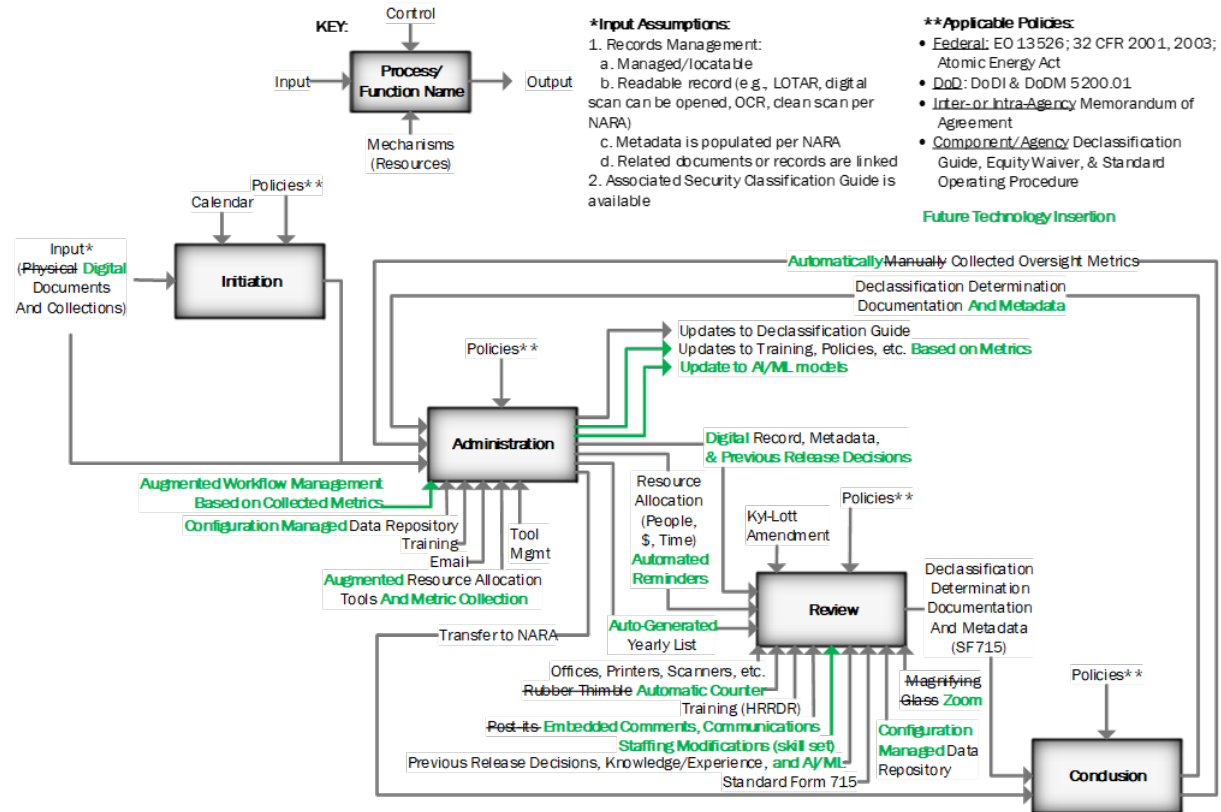
# Approach and Philosophy: User-Centric

- Declassification is — and must remain — inherently human-centric to protect classified information
  - Technology will never supplant humans, but could augment them
  - Recognized disparity between DoD-wide needs (e.g., oversight, monitoring) and reviewer needs (e.g., task conduct, accuracy, workflow management)
- Capability testing for state-of-the-art tools and technologies that is independent of a specific component or type of review

# Systems Engineering Approach: ADR

- Future Characteristics
  - Semi-automated
  - Technology augments the reviewer
  - Digital documents with configuration management and control
- Similar results for MDR

## Future DoD Automatic Declassification Review Meta-Process





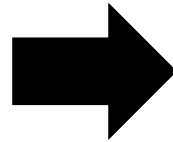
# Black Box AI Prediction

DECLASSIFICATION GUIDE OF THE OFFICE OF  
THE SECRETARY OF DEFENSE

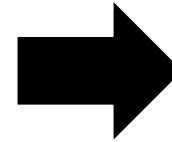


FOR USE IN THE REVIEW OF RECORDS AND THE EXEMPTION OF SPECIFIC  
INFORMATION IN ACCORDANCE WITH SECTION 3.3(b) OF  
EXECUTIVE ORDER 13526

JANUARY 31, 2019  
(REVIEW AND UPDATE PRIOR TO DECEMBER 31, 2024)



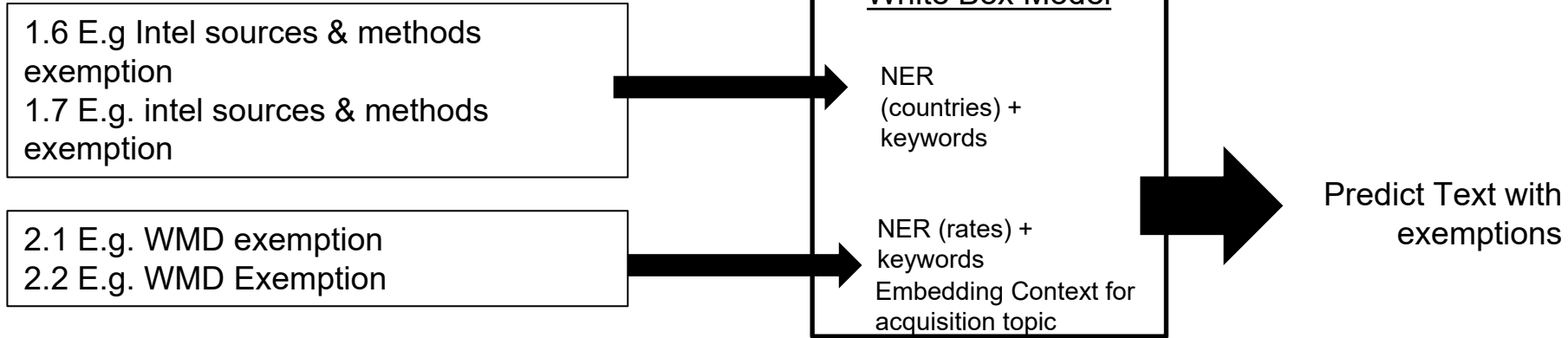
Black Box  
Model (e.g.,  
LLM)



Predict Text  
with exemptions

- Lacks transparency & provenance
- If model is incorrect, it would need to be fully replaced
- Modularity is limited
- Lacks explainability

# Mapping individual exemptions to AI models (White box approach)

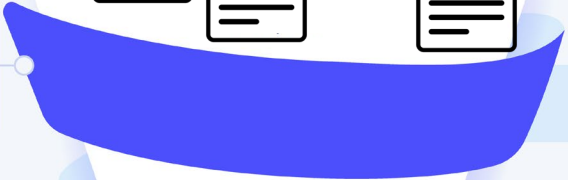


- Each exemption rule is mapped to a model
  - **Contextual understanding models, combined with other AI/ML/NLP models mapped to declassification exemptions (business rules) can bridge the gap between CONTENT and CONTEXT – Lead to identification of sensitive or classified material—aka “THE WHY”– information is flagged for protection in accordance with Declassification Guide Exemptions**
  - If model is incorrect, it can be updated
  - Modularity is built into the system
  - Each model can be explained
  - LLMs can still have a place, if the right mode for the job
  - Allows for training data to be saved for the future
- **“Year Zero to Year 5” Approach**
  - **Annotated data from Declassification SMEs will improve the accuracy of the models to a high confidence level that they will identify sensitive information as intended**

Classified Documents



Markings: check for markings (e.g., SCI, RD/FRD, NATO)



Withdraw/Exclusion

Unmarked Equities: unmarked RD/FRD or intel



Exempt

Other Agency Equities: DoD and USG



Refer

Prediction: Auto kill exemptions



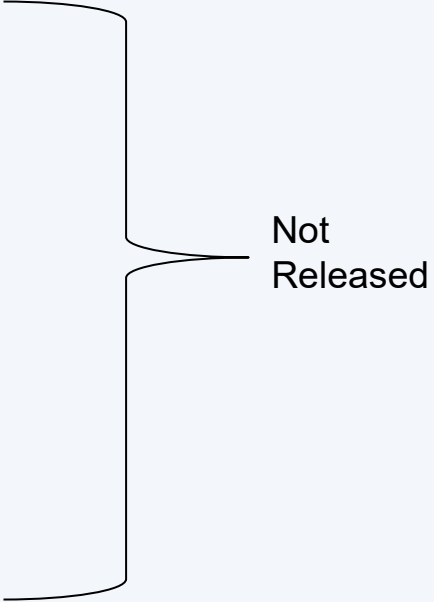
Exempt

Augmentation: Context needed exemptions



Exempt

Declassified Documents



# Classified Documents



Markings: check for markings (e.g., SCI, RD/FRD, NATO)

Withdraw/Exclusion

Unmarked Equities: unmarked RD/FRD or intel

Other Agency Equities: DoD and USG

Prediction: Auto kill exemptions

Augmentation: Context needed exemptions

This step needs to occur in correct networks or spaces

- OCR identifications
- Check for portion markings
- Classified Keywords search



Exempt

# Declassified Documents

Classified Documents



Markings: check for markings (e.g., SCI, RD/FRD, NATO)

Working with DOE and CIA will enable identification of unmarked RD/FRD and intel equities

Unmarked Equities: unmarked RD/FRD or intel



Exempt

Other Agency Equities: DoD and USG



Refer

Prediction: Auto kill exemptions

Exempt

Augmentation: Context needed exemptions



Exempt

Not Released

Declassified Documents

Classified Documents



Markings: check for markings (e.g., SCI, RD/FRD, NATO)

Unmarked Equities: unmarked RD/FRD or intel

Other Agency Equities: DoD and USG

Prediction: Auto kill exemptions

Augmentation: Context needed exemptions

Identifying other equities from other USG agencies and DoD Components needs to involve having models trained on their data.

- DoS
- NGA
- Army



Refer

Exempt

Exempt

Not Released

Declassified Documents

# Classified Documents



Markings: check for markings (e.g., SCI, RD/FRD, NATO)

Unmarked Equities: unmarked RD/FRD or intel

Other Agency Equities: DoD and USG

Prediction: Auto kill exemptions

Augmentation: Context needed exemptions

Certain exemptions can be automated based on needs of the specific exemptions. This would include single keywords or dirty word lists. These type of models could easily be shared with other agencies for referrals as well.

Not Released



Exempt

Exempt

# Declassified Documents

# Classified Documents



Markings: check for markings (e.g., SCI, RD/FRD, NATO)

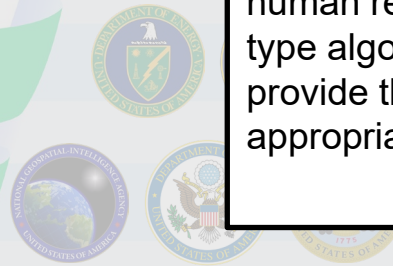
Unmarked Equities: unmarked RD/FRD or intel

Other Agency Equities: DoD and USG

Prediction: Auto kill exemptions

Augmentation: Context needed exemptions

Other exemptions will always require human review. Context expansion type algorithms are needed to provide the reviewer with the appropriate context.



Exempt

Exempt

Not Released

# Declassified Documents



# Summary of Briefings

- DoD

- Army G2
- Army CIO
- Army OSINT
- Army SAP
- CDAO – Task Force Lima (TFL)
- Declassification Program Advisory Group (DPAG)
- DoD INFOSEC Senior Leaders (DSEAG/EXCOM)
- NGA
- SAF/AA
- SAF/AQ

- USG Declassification Components

- CIA
- Department of Energy
- Department of State
- ODNI
- NSA

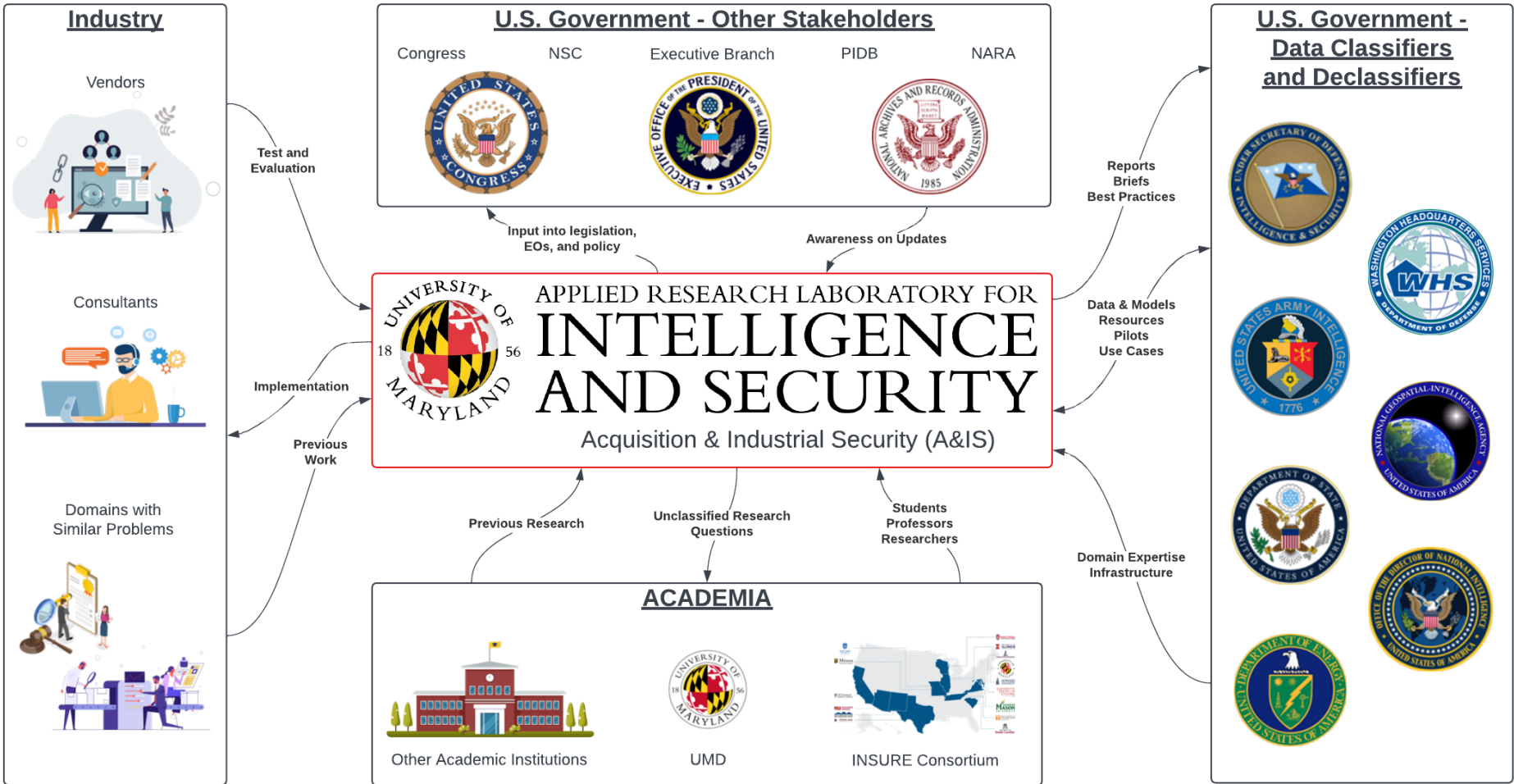
- Other USG and Allies

- DIA InfoCon
- NATO
- NSC Classification and Declassification Information Management Sub-IPC
- Public Interest Declassification Board (PIDB) x2
- SSCI/HSGAC/SASC

- Non-Declassification

- Department of State FRUS
- OMB
- OUSD(I&S) FOIA
- OUSD(I&S) Foreign Disclosure

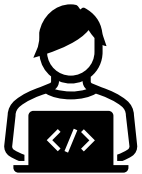
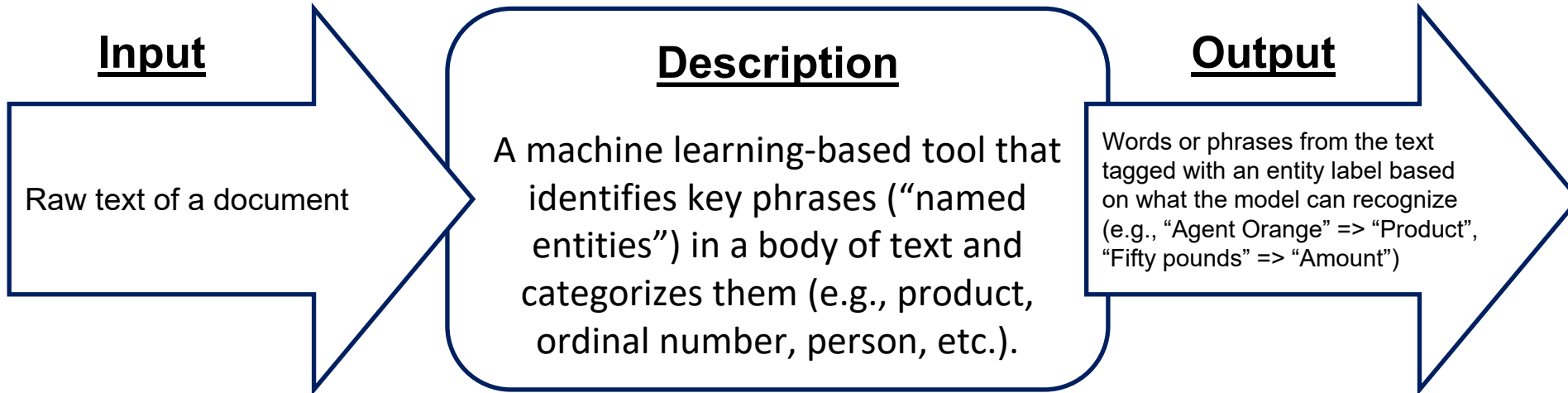




## Capability Testing: Operationalizing the Declassification Guides

- Focused on declassification process Review functions
- Development performed at the unclassified level to apply and demonstrate **state-of-the-art capabilities**
- Anticipated continuous development and integration of technological improvements by using **modular software** (e.g., Natural Language Processing (NLP) models evolve)
- Operationalized the Declassification Guides (DGs) by working with declassification reviewers to identify potential augmentation capabilities

# Named Entity Recognition

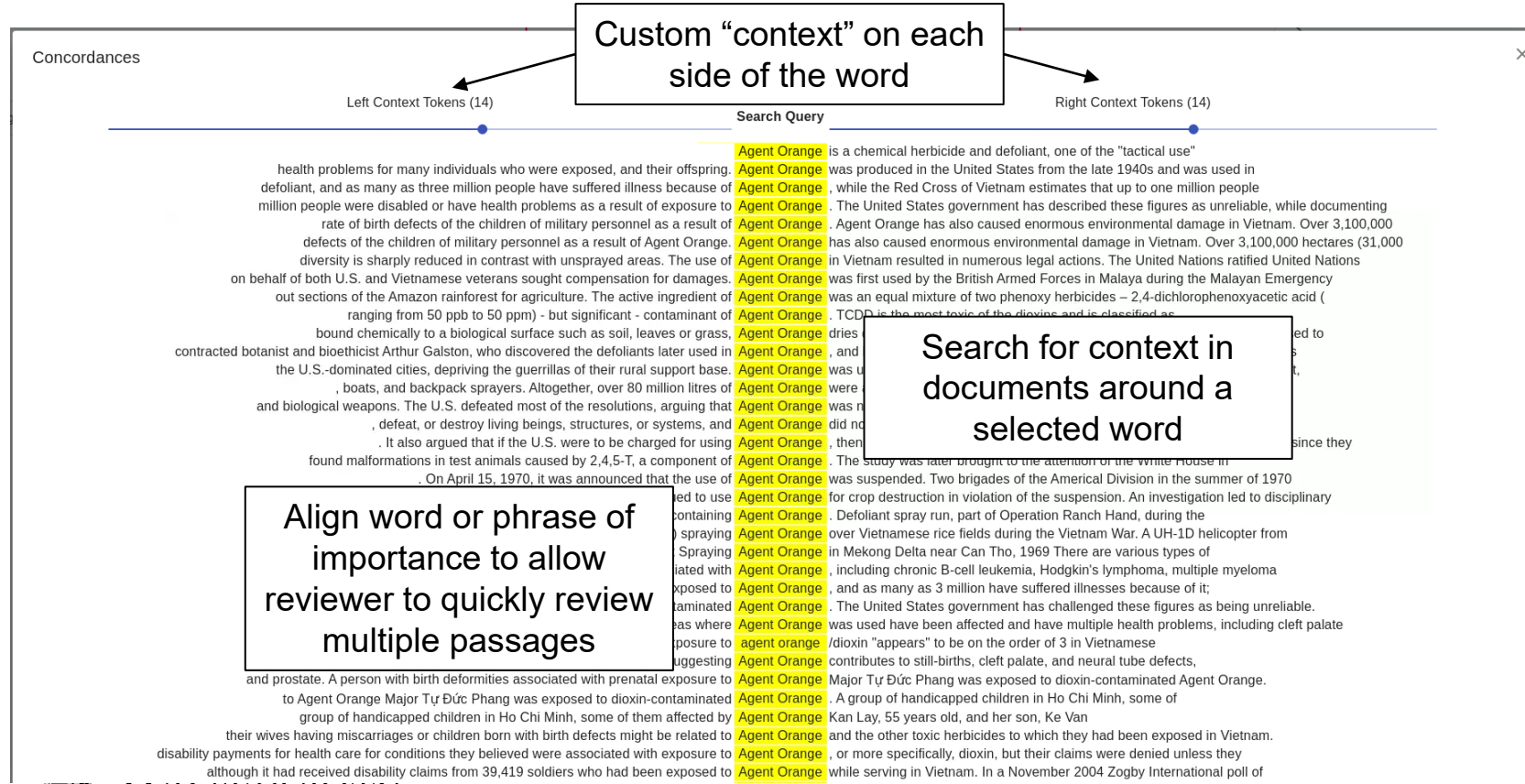


## **Expected Use Case**

- Quickly identify terms and categories (e.g., location or product) of interest to a reviewer



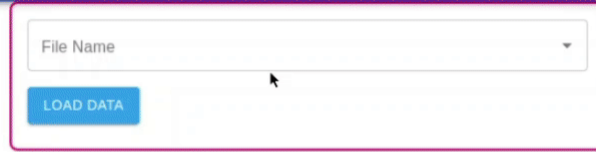
# Contextual Search – Named Entity Recognition (NER)



Next  
Capability

\*Demonstration  
data is unclassified

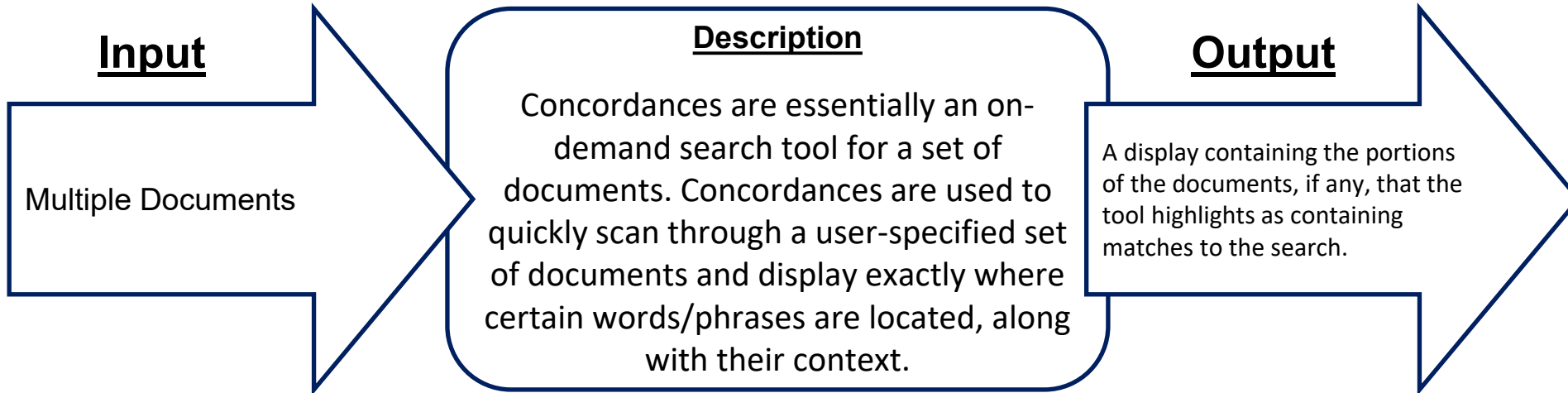
# Contextual Search – Named Entity Recognition (NER)



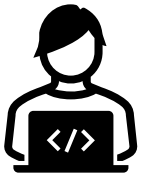
The screenshot shows a web interface with a white background. At the top, there is a dropdown menu labeled 'File Name' with a small downward arrow on the right. Below the dropdown menu is a blue button with the text 'LOAD DATA' in white capital letters. The entire interface element is enclosed in a thin purple border.

Load Desired Document

# Concordance



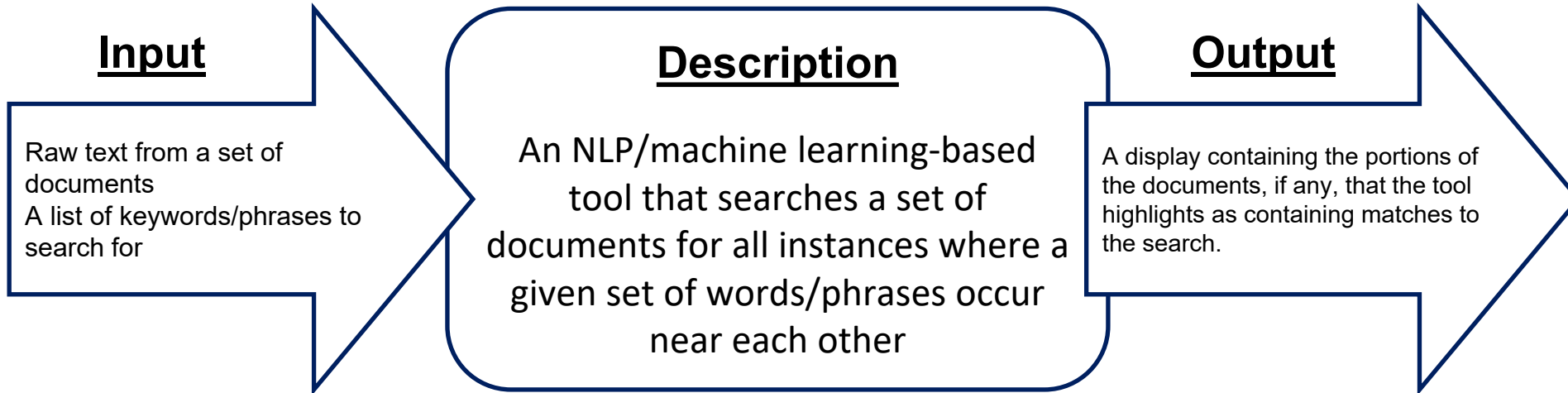
## **Expected Use Case**



- *Quickly expanding context around a specific word or phrase among multiple documents*



# Multi Search



## **Expected Use Case**

- *Identify when multiple words appear together in various contexts*



# Contextual Search – Multi Search

Concordance Query Search

# of Queries  
3

Query 1  
1974 Saigon Type search terms, ...

Query 2  
us military Type search terms, hitting e...

Query 3  
m16 rifle dying Type search term...

Neighborhood  
Sentence

Basic  
Lemmatized  
Similarity

Select Language  
English

SUBMIT

CLOSE

Custom searches of individual or multiple words or phrases

Sentence  
Paragraph  
Document

Provide context by displaying surrounding sentences, paragraphs, or documents

Different types of search:  
Basic – exact match  
Lemmatized – match stems (e.g., military = militaries)  
Similarity – match synonyms

# Contextual Search – Multi Search

ARLIS Declass Tool HOME NER EMBEDDINGS

OPEN CONCORDANCE FORM

DRROW\_III:\_LOVE\_&\_DEA  
MATTER\_OF\_CONSCIENC  
OTH\_DIVISION\_(VIETNAM)  
H\_HELICOPTER\_SQUADR  
\_BRIGHT\_SHINING\_LIE

Master Sergeant who became one of the earliest opponents of the war and one of the antiwar movement leading public figures; Captain Howard Levy, an Army doctor who was court-martialed for refusing an order to train Green Beret medics on their way to Vietnam; Susan Schnall who in 1968, while a U.S. Navy Lieutenant, dropped antiwar leaflets over military bases and an aircraft carrier from a small plane and then, while in uniform, held a press conference and lead a mass peace march;[3] Andy Stapp, known for organizing the American Servicemen's Union, an unofficial union for the U.S. military, in opposition to the Vietnam War; Keith Mather and Randy Rowland, two of the GIs involved in the Presidio mutiny, and Roger Broomfield, one of Presidio mutineers' guards in the military stockade.

The authors say they "represent only a fraction of the stories of GI resistance that might be told" and quote Defense Department figures for the number of desertions of desertion occurred between July 1, 1966 and December 31, 1973; compared with 191,840 reported cases of men refusing draft induction between 1963 and 1973." [4][5]

The stories and images come from every branch of the U.S. military, most during the Vietnam era and a few from the Gulf War.

He flew more than 50 C-130 missions over Southeast Asia until the U.S. began covert military operations in Cambodia.

Token: U.S.  
Lemma: U.S.  
Part of Speech: PROPN  
Document: \_Matter\_of\_Conscience  
Paragraph: 12  
Sentence: 9  
Character: 576

Searches among  
multiple documents

Search for "U.S. military"  
provides sentences that contain  
U.S. + military even if not next to  
each other

Meta data around  
individual words or  
phrases

# Contextual Search – Multi Search

ARLIS Declass Tool

HOME NER EMBEDDINGS

OPEN CONCORDANCE FORM

Contents

- 1 Plot
- 2 Cast
- 3 Box office
- 4 Alternative versions
- 5 Year-end list
- 6 References
- 7 External links

Plot (edit)

In 1974, during the final days of the Vietnam War, Mark Lee arrives in Saigon, intending to bring his uncle and cousin Michael Cheung Chi-mun back to Hong Kong with him.

Queries can be tailored for individual exemptions from DGs

Mark came in the room dual wielding two M-16 rifles, intending to take his revenge on Ho after the shootout between the warlord and Ho died down.

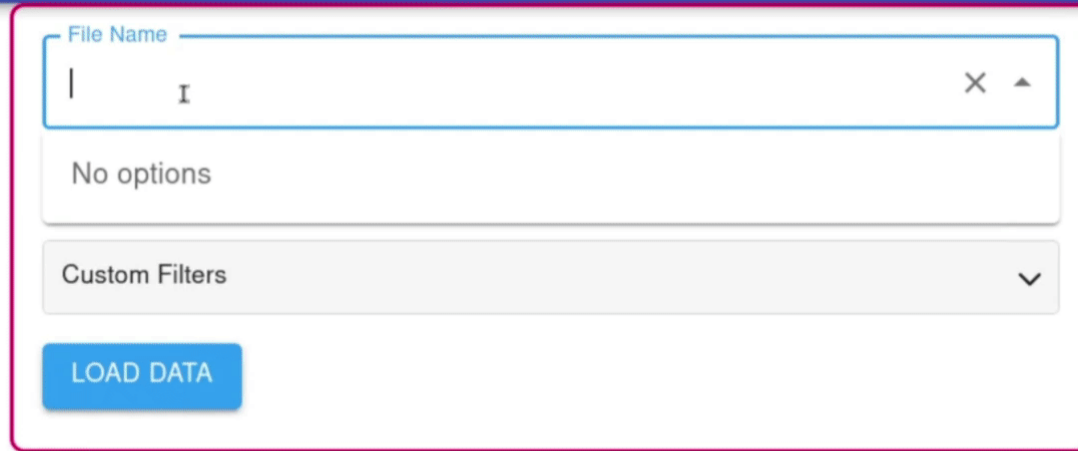
Token: died  
 Lemma: die  
 Part of Speech: VERB  
 Document: \_Better\_Tomorrow\_III:\_Love\_&\_Death\_in\_Saigon  
 Paragraph: 2  
 Sentence: 45  
 Character: 1086

Displays “1974” +  
“Saigon”

Finds “M-16 rifles” + “died” even  
though query is “dying”

# Exemption-based Search

Load file



The screenshot shows a user interface for loading a file. It features a search box labeled 'File Name' with a clear button (X) and a dropdown arrow. Below the search box is a list of options, currently showing 'No options'. There is also a 'Custom Filters' section with a dropdown arrow. At the bottom of the form is a blue button labeled 'LOAD DATA'.

# Exemption-based Search

## Development

Rule Configuration

Rule Config: Edit the settings of this rule

NotInModel

1.40

1.60  Non-Neutral Countries  
France ✕ Japan ✕ ✕

2.20

Custom Filters

Korea

Australia

New Zealand

Thailand

Philippines

LOAD DATA

Exemption 1.4 looks for Agent Orange or Napalm

Several herbicides were developed as part of efforts by the United States and the United Kingdom to create herbicidal weapons for use during World War II.

These included 2,4-D, 2,4,5-T, MCPA (2-methyl-4-chlorophenoxyacetic acid, 1414B and 1414A, recoded LN-8 and LN-32), and isopropyl phenylcarbamate (1313, recoded LN-33). | NotInModel

In 1943, the United States Department of the Army contracted botanist and bioethicist Arthur Galston, who discovered the defoliants later used in Agent Orange, and his employer University of Illinois Urbana-Champaign to study the effects of 2,4-D and 2,4,5-T on cereal grains (including rice) and broadleaf crops. | 1.40

Pre-made exemptions can be highlighted in actual text

While a graduate and post-graduate student at the University of Illinois, Galston's research and dissertation means to make soybeans flower and fruit earlier. He discovered both that 2,3,5-T would speed up the flowering of soybeans and that in higher concentrations it would destroy enemy crops to disrupt their food supply. In early 1945, the U.S. Army ran tests of various 2,4-D and 2,4,5-T mixtures at the Bushnell Army Airfield in Florida. As a result, the U.S. began a full-scale production of 2,4-D, 2,4,5-T, and 2,4,6-T to use against Japan in 1946 during Operation Downfall if the war had

Exemption 1.6 looks for references to Neutral Countries in Vietnam

Galston tested 1,100 compounds, and field trials of the more promising ones were conducted in Australia, in order to establish their effects in tropical conditions, as well as at the U.S. testing ground in Florida.

Can edit exemptions as needed

Between 1950 and 1952, trials were conducted in Tanganyika, at Kikore and Stunyansa, to test arboricides and defoliants under tropical conditions. | 1.60

The chemicals involved were 2,4-D, 2,4,5-T, and endo-thall (3,6-endoxohexahydrophthalic acid).

During 1952-53, the unit supervised the aerial spraying of 2,4,5-T in Kenya to assess the value of defoliants in the eradication of tsetse fly. | 1.60

# Exemption-based Search

Custom Filters ^

**Add filters:** Each filter must have a name, a description, and a list of entity types and specific phrase to match to. The program will highlight any sentence where all the filters apply.

Name Filter 1	Description Contains a date and war
Entity Types Event	Custom Strings War <input type="checkbox"/> Not
Entity Types Date	Custom Strings <input type="checkbox"/> Not

**ADD** +

**ADD FILTER** +

## Agent Orange

Hovering over text illustrates why the text was highlighted

Agent Orange is a chemical herbicide and defoliant, one of the "tactical use" Rainbow Herbicides.

It was used by the U.S. military as part of its herbicidal warfare program, Operation Ranch Hand, during the Vietnam War from 1961 to 1971.

It is a mixture of equal parts of two herbicides, 2,4,5-T and 2,4-D. In addition to its damaging environmental effects, traces of dioxin (mainly TCDD, the most toxic of its type) found in the mixture have caused major health problems for many individuals who were exposed, and their offspring.

Create custom filters for exemptions, e.g., War + Date

late 1940s and was used in industrial agriculture and was also sprayed along railroads

million gallons consisting of a fifty-fifty mixture of 2,4-D and dioxin-contaminated 2,4,5-T. Company, Monsanto Company, Diamond Shamrock Corporation, Hercules Inc., Thompson Chemical Co., United States Rubber Company (Uniroyal), Thompson Chemical Co., Hoffman-Taff Chemicals, Inc., and Agriselect.

The government of Vietnam says that up to four million people in Vietnam were exposed to the defoliant, and as many as three million people have suffered illness because of Agent Orange, while the Red Cross of Vietnam estimates that up to one million people were disabled or have health problems as a result of exposure to Agent Orange.

The United States government has described these figures as unreliable, while documenting cases of leukemia, Hodgkin's lymphoma, and various kinds of cancer in exposed U.S. military veterans.

An epidemiological study done by the Centers for Disease Control and Prevention showed that there was an increase in the rate of birth defects of the children of military personnel as a result of Agent Orange.

Agent Orange has also caused enormous environmental damage in Vietnam.

Over 3,100,000 hectares (31,000 km<sup>2</sup> or 11,969 mi<sup>2</sup>) of forest were defoliated. Defoliants eroded tree cover and seedling forest stock, making reforestation difficult in numerous areas. Animal species diversity is sharply reduced in contrast with unsprayed areas.

# Department of State Model

E.O.11652:N/A  
TAGS: CIPFOR  
SUBJ: CHILE HOY COMMENT ON US/CHILE TALKS

1. PRO-GOVT WEEKLY CHILE HOY EDITION ON NEWSTANDS AUG 31 CARRIES ARTICLE ENTITLED "THE MISSION OF JOSE TOHA" ON US/CHILE BILATERAL TALKS. ARTICLE CLAIMS MOST RECENT ROUND OF TALKS AUT 23-24 (SIC) MARKED BY "MUCH MORE FAVORABLE CLIMATE "THAN PREVIOUS SESSIONS. ALTHOUGH BOTH SIDES MAINTAINED THEIR POSITIONS, THERE WAS "DESIRE BY BOTH PARTIES NOT TO BREAK THE DIALOGUE." DURING AUGUST SESSION, CHILE HOY CONTINUED, "US GOVT WAS LESS RIGID AND INDICATED IT ACCEPTED A CHILEAN PROPOSAL INVOLVING THE INTERVENTION OF A 'THIRD PARTY'". ARTICLE NOTES THAT TOHA UNDERLINE CHILEAN POSITION THAT ANY SOLUTION MUST BE IN ACCORDANCE WITH CHILEAN CONSTITUTION, OTHER CHILEAN LEGISLATION, AND PRINCIPLES OF INTERNATIONAL LAW. ACCORDING TO STORY, CHILE "INSISTED" ON DISCUSSING ENTIRE RANGE OF US/CHILE RELATIONS INCLUDING CREDITS FROM IFIS. ARTICLE SUMMARIZES RESULTS OF TOHA MISSION AS:  
1) RESUMPTION OF SANTIAGO/WASHINGTON DIALOGUE, 2) WASHINGTON ACCEPTANCE OF THIRD PARTY ROLE, 3) NORMALIZATION OF US/CHILE RELATIONS BEFORE NEXT ROUND OF PARIS CLUB. ARTICLE NOTES THIRD ITEM IS THE "MOST IMPORTANT" FROM CHILEAN POINT-OF-VIEW. ARTICLE CONCLUDES WITH OBSERVATION THAT US SUGGESTED ANOTHER ROUND OF TALKS IN A "NEUTRAL" CAPITAL SUCH AS QUITO OR CARACAS FOR SEPTEMBER.

Prediction?

DoS Model

Exempt?

Unsure?

Declass?

0.9 exempt threshold

0.1 declass threshold

P  
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S  
c  
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r  
e

Further Review

\*unclassified, real cable



# Augmenting Department of State Model – DoD contextual understanding models combined with the DoS approach, can provide the “WHY” information is sensitive

E.O.11652:N/A  
TAGS: CI PFOR  
SUBJ: CHILE HOY COMMENT ON US/CHILE TALKS

Unsure

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DoD  
Model

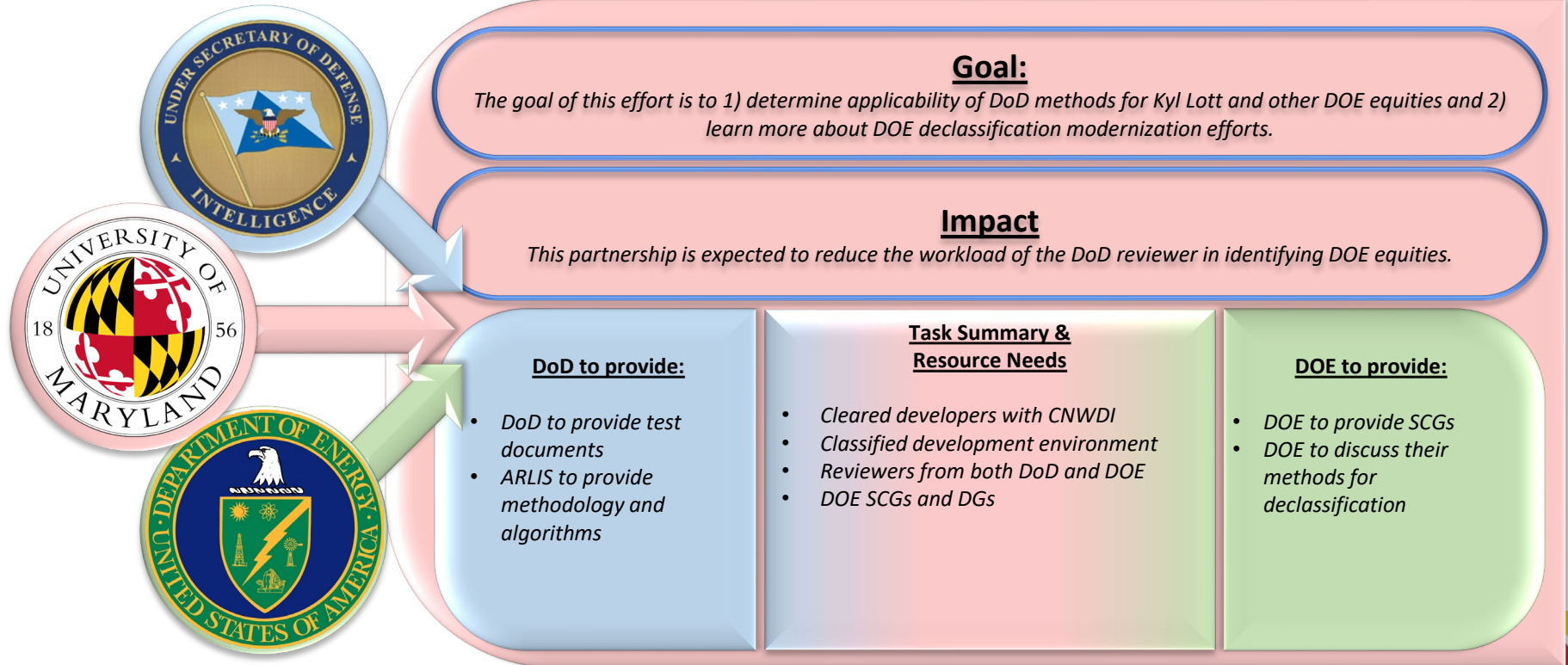
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SUBJ: CHILE HOY COMMENT ON US/CHILE TALKS

1. PRO-GOVT WEEKLY CHILE HOY EDITION ON NEWSTANDS AUG 31 CARRIES ARTICLE ENTITLED "THE MISSION OF JOSE TOHA" ON US/CHILE BILATERAL TALKS. ARTICLE CLAIMS MOST RECENT ROUND OF TALKS AUT 23-24 (SIC) MARKED BY "MUCH MORE FAVORABLE CLIMATE "THAN PREVIOUS SESSIONS. ALTHOUGH BOTH SIDES MAINTAINED THEIR POSITIONS, THERE WAS "DESIRE BY BOTH PARTIES NOT TO BREAK THE DIALOGUE." DURING AUGUST SESSION, CHILE HOY CONTINUED, "US GOVT WAS LESS RIGID AND INDICATED IT ACCEPTED A CHILEAN PROPOSAL INVOLVING THE INTERVENTION OF A "THIRD PARTY"". ARTICLE NOTES THAT TOHA UNDERLINE CHILEAN POSITION THAT ANY SOLUTION MUST BE IN ACCORDANCE WITH CHILEAN CONSTITUTION, OTHER CHILEAN LEGISLATION, AND PRINCIPLES OF INTERNATIONAL LAW. ACCORIDNG TO STORY, CHILE "INSISTED" ON DISCUSSINGENTIRE RANGE OF US/CHILE RELATIONS INCLUDING CREDITS FROM IFIS. ARIICLE SUMMARIZES RESULTS OF TOHA MISSION AS:  
1) RESUMPTION OF SANTIAGO/WASHINGTON DIALOGUE, 2) WASHINGTON ACCEPTANCE OF THIRD PARTY ROLE, 3) NORMALIZATION OF US/CHILE RELATIONS BEFORE NEXT ROUND OF PARIS CLUB. ARTICLE NOTES THIRD ITEM IS THE "MOST IMPORTANT" FROM CHILEAN POINT-OF-VIEW. ARTICLE CONCLUDES WITH OBSERVATION THAT US SUGGESTED ANOTHER ROUND OF TALKS IN A "NEUTRAL" CAPITAL SUCH AS QUITO OR CARACAS FOR SEPTEMBER.

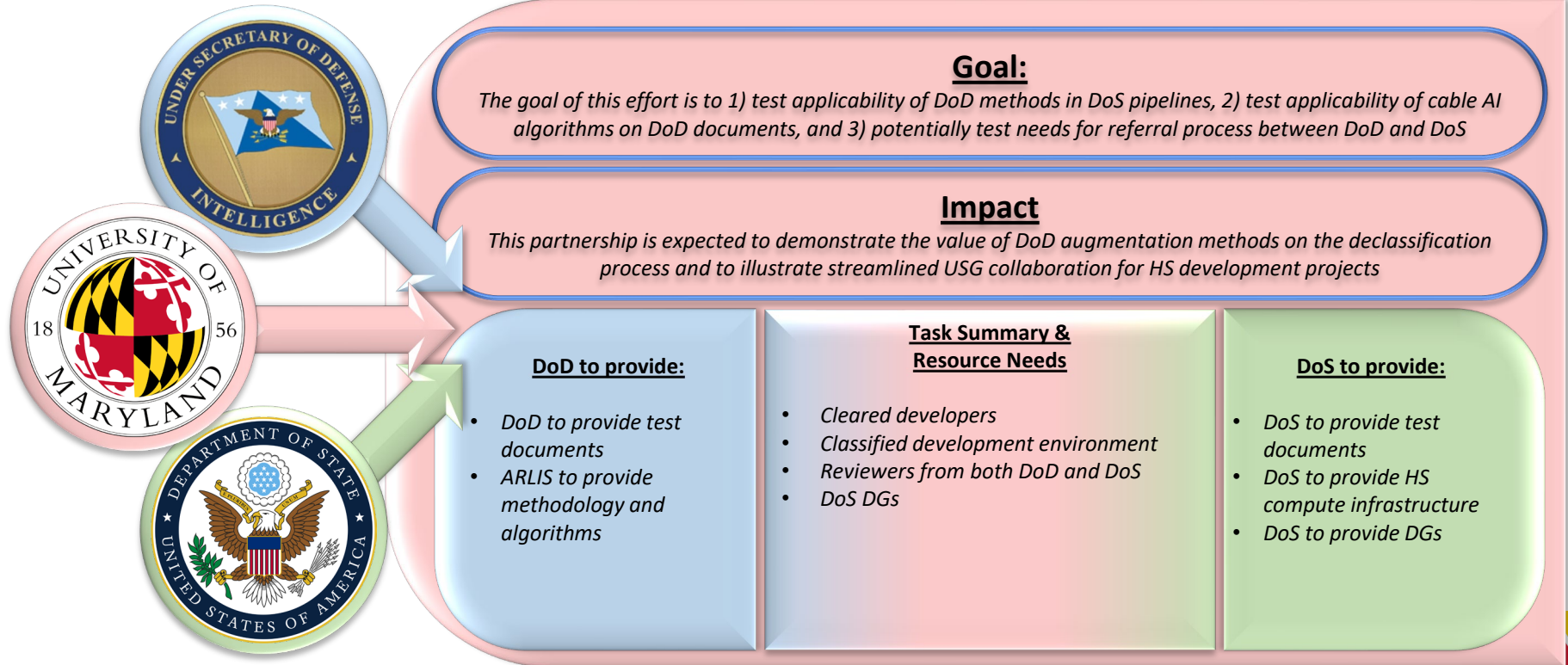
Possible Exemption 1.1



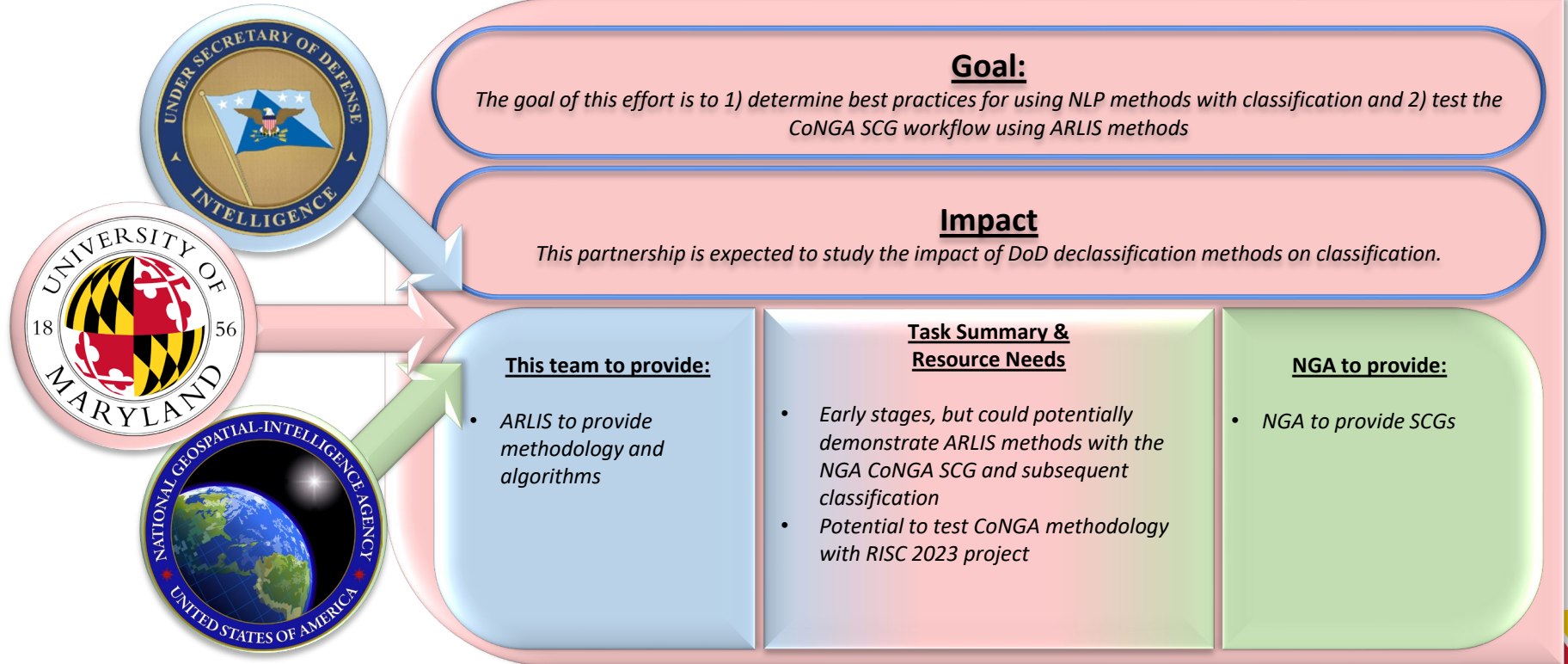
# Potential Pilot Partner – Department of Energy (DOE)



# Potential Pilot Partner – Department of State (DoS)



# Potential Pilot Partner – NGA



# Phase 3

- Agile development
  - Ability to move priorities based on DoD/USG needs and new state of the art capabilities
  - Continuously updated pipeline of activities and tasks
- Flexible deliverables
  - Briefings
  - Reports (executive level, working level, publicly available)
  - Biweekly meetings with stakeholders
  - Interviews as necessary of key components
  - User testing of key declassification tools
- Goals
  - Continued development of technological solutions for declassification process augmentation and improvement
  - Tool and software acquisition strategies
  - Implementation and transformation frameworks

# Phase 3 Plan

Year 1 (June 2023 – June 2024)	Year 2 (June 2024 – June 2025)	Year 3 (June 2025 – June 2026)
Continued L/S Capability Development		
	H/S Capability Development	
System Architecture Development		
Testing Scalability of Tools		
Requirements document for tools and solutions		
	Acquisition Strategies and Frameworks	
	Integration and Implementation Framework and Strategy	
Policy and Meta Data Analysis		

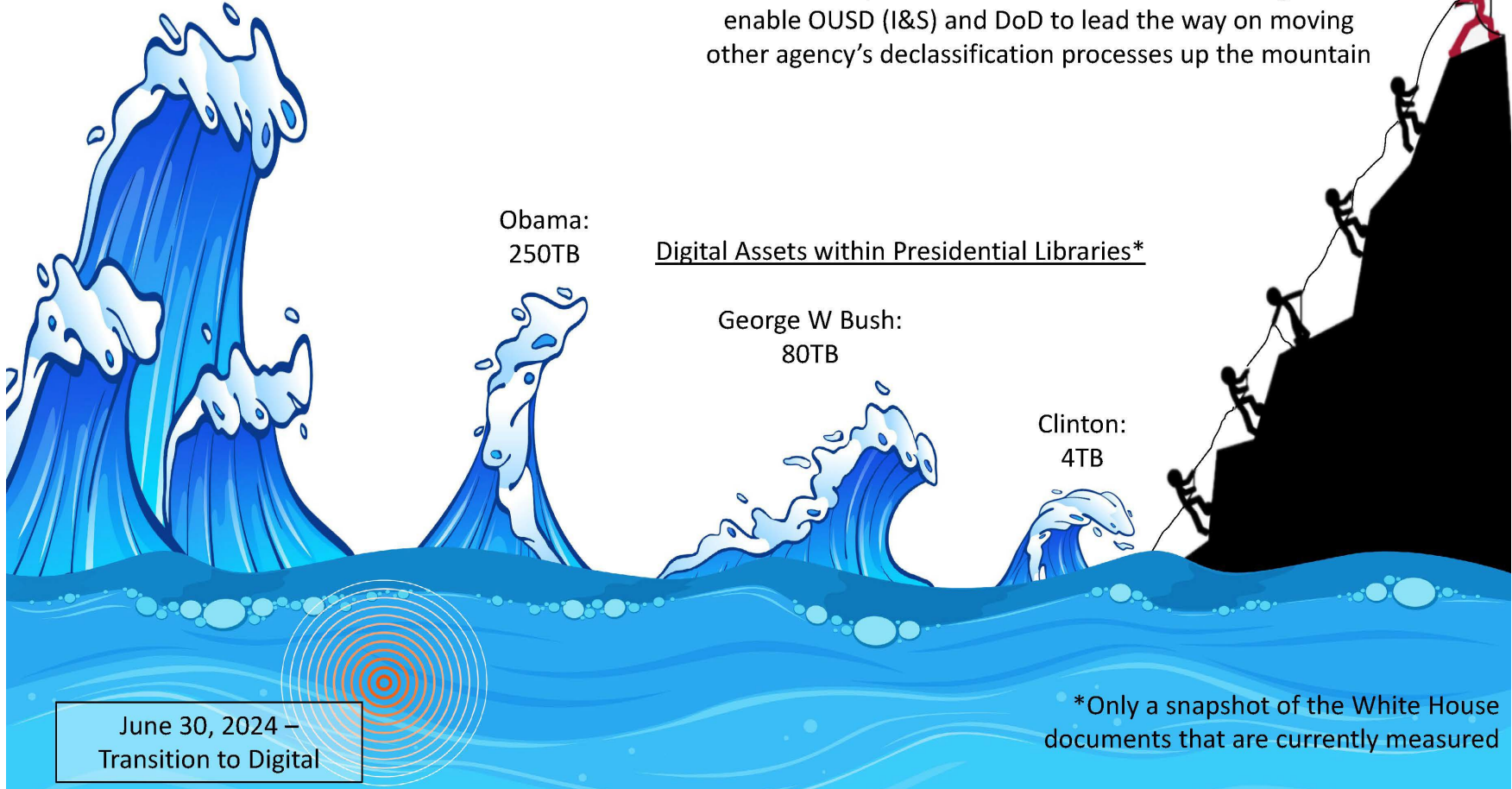
# Summary

- A systems engineering approach enables AI/ML/NLP tools to improve declassification procedures
- Improvements can be made now, while still planning for the future
  - This approach can also be used at the origination of classified document creation
- Multiple deliverables
  - 80+ page report (publicly releasable)
  - 5-page executive summary (publicly releasable)
  - Briefing deck (without videos) (publicly releasable)
  - 1-page “glossy” (publicly releasable)
- A whole-of-government approach is needed
  - Interagency collaboration
  - Strategic pilots
  - Identifying, testing, and evaluation of potential transition partners and subsequent capabilities

Digital Tsunami: ??????TB

Standardized processes and transformation strategies can enable OUSD (I&S) and DoD to lead the way on moving other agency's declassification processes up the mountain

DoD



# Thank You!

Michael Brundage, Ph.D  
ARLIS: mbrundage@arlis.umd.edu  
IC: michael.brundage.ctr@osdj.ic.gov

Applied Research Laboratory for Intelligence and Security  
University of Maryland  
College Park, Maryland 20742

[www.arlis.umd.edu](http://www.arlis.umd.edu)

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