

# scale

***IARPA REASON Lightning Talk***  
***January 11th, 2023***



FOUNDED  
2016

FUNDING  
\$600M

VALUATION  
\$7B+

OFFICE  
San Francisco HQ  
Washington, DC – Federal Office

EMPLOYEES  
700+

# Mission

Accelerate the deployment of AI by providing the infrastructure needed to power the most ambitious AI projects.

## Investors

Accel

COATUE

Durable  
CAPITAL PARTNERS

FOUNDERS FUND



GREENOAKS

Index Ventures

SPARK CAPITAL

THRIVE CAPITAL

TIGERGLOBAL

WELLINGTON  
MANAGEMENT\*

Y Combinator

DRAGONEER  
INVESTMENT GROUP

## Customers

OpenAI

co:here

stability.ai



U.S. AIR FORCE



U.S. ARMY

CarperAI

NVIDIA

Meta

SAP

Square



flexport.

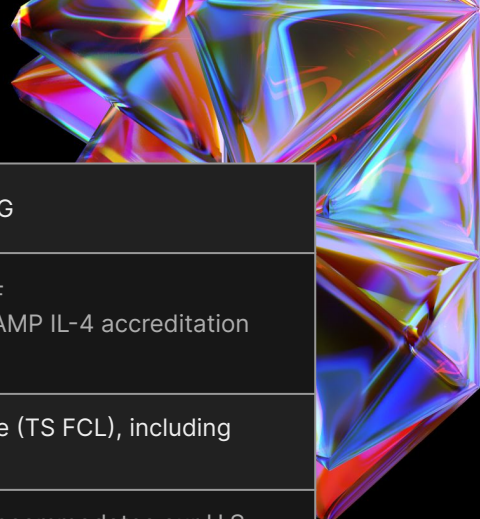
Microsoft

TOYOTA  
RESEARCH INSTITUTE

PayPal



# Scale Federal



JAIC



Carnegie Mellon University

<b>Prime Contracts</b>	Eight contracts in support of the USG
<b>Network Authorities to Operate</b>	<ul style="list-style-type: none"> <li>• SC2S (SIPR) IL-6 ATO &amp; CTF</li> <li>• ScaleGov (NIPR) with FedRAMP IL-4 accreditation</li> <li>• SUNnet</li> </ul>
<b>Facility Clearance</b>	DCSA-approved TS facility clearance (TS FCL), including agency-specific FOCIs
<b>Labeling Facilities</b>	42,000 <sup>2</sup> ft. facility in St. Louis that accommodates our U.S. citizen, human-in-the-loop labeling workforce
<b>Federal Workforce</b>	90+ (HQ) personnel supporting federal business line/200+ personnel directly supporting contracts
<b>Cleared Personnel</b>	40+ cleared personnel up to TS/SCI with full-scope polygraphs
<b>Subcontracts</b>	Partnered and performing on multiple contract vehicles with large system integrators (top 10) across federal agencies
<b>Performance</b>	US Government Contractor Performance Assessment Rating (CPARS) of "Excellent"



# Hermes Executive Summary

- **Hermes is Scale's platform that transforms raw intelligence cables into specific analytical insights.**
- Using large language models fine-tuned on historical intelligence cables, Hermes has the ability to:
  - ✓ **Generate summarizations** of incoming cables along analytical themes
  - ✓ **Flag articles** that require special handling
  - ✓ **Enable semantic search** through document repos using a question-and-answer interface
- Hermes is designed with a robust API to enable **seamless integration** with existing workflows and document repositories.

The screenshot displays the Hermes chat interface. On the left, a chat window titled 'Congressional Documents' shows a user asking: 'Is there anything interesting in this repository for the Department of Treasury?'. The system responds: 'No, this repository does not contain any information related to the Department of Treasury. It only contains information related to the Department of Defense budget [1].'. A second question is asked: 'Give me a summary of the budget for the Air Force.'. The system provides a detailed answer: 'The budget request contained \$8.08 billion for the procurement of 61 F-35 aircraft and associated spares, modifications, depot activations, and advanced procurement for fiscal year 2023 aircraft for the Air Force, Navy, and Marine Corps. The budget request also contained \$2.01 billion for research and development related to deployability and suitability initiatives, Block 4 and Continuous Capability Development and Delivery, and Air Force dual-capable aircraft efforts [2]. The budget request also contained \$2,055,456,000 for Department of the Air Force military construction and \$588,010,000 for family housing for fiscal year 2023. The committee recommends authorization of appropriations of \$2,404,822,000 for military construction and \$588,010,000 for family housing for the Department of the Air Force in fiscal year 2023 [4].'. Below the chat, a 'Section Summaries' section shows a generated summary: 'Section 1. The UAE delegation to the ILO's 92nd Session will challenge ILO accusations that the UAE...'. On the right, a 'Related Sources (1)' panel shows a snippet of text: 'procurement of 61 F-35 aircraft and associated spares, modifications, depot activations, and advanced procurement for fiscal year 2023 aircraft for the Air Force, Navy, and Marine Corps. The committee notes that this is a decrease of 33 aircraft from procurement plans provided in the fiscal year 2022 budget projected for the planned fiscal year 2023 budget request. The budget request contained \$2.01 billion for research and development related to deployability and suitability initiatives, Block 4 and Continuous Capability Development and Delivery, and Air Force dual-capable aircraft efforts. The committee notes that the unfunded priority lists for the Air Force, Marine Corps, and Navy contained \$1.91 billion for seven F-35A, three F-35B and three F-35C, and three F-35C aircraft, respectively. The committee acknowledges the F-35 is a capability that has potential to be used against advanced integrated air defense systems operating against the United States or its foreign partners and allies during high-end, highly contested contingency operations after the aircraft eventually receives the Technical Refresh-3 (TR-3) hardware and full Block 4 software capabilities currently fore-casted to be fielded in fiscal year 2029, which is 3 years later than the 2026 date provided by the Department of Defense last year and 28 years after the program's inception. The committee notes that development efforts for TR-3 hardware are currently \$548.0 million over the original budget and that the development of the software is still common in the...'. A user profile for 'Mohammed H...' is visible on the right side of the chat window.



# Hermes Alignment with REASON

## **TA1:** Identify Additional Evidence

Hermes is today capable of generating cable summaries and citing source material for each sentence or paragraph. TA1 would be a natural extension of this work.

## **TA2:** Identify Reasoning Strengths & Weaknesses

Scale's reinforcement learning from human feedback (RLHF) engine will enable identification of arguments and ranking based on relevance.

## **TA3:** Produce Recommendations to Increase Quality of Argumentation

Hermes can provide recommendations using language generation models fine-tuned on historical reports and TA1/TA2 inputs.

## Hermes and Scale's RLHF Engine



# Partnerships

- Scale is seeking partnership with organizations with the following backgrounds/skill-sets:
  - Analytical product review and dissemination
  - Applied psychology/linguistics towards analytical methodology/framework development
- Feel free to contact us!

**Mohammed Husain**

Solutions Engineer, Federal  
mohammed.husain@scalegov.com

**Andrew Otterbacher**

Director, Government Special Programs  
andrew.otterbacher@scalegov.com

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