



PRESS RELEASE

Planetary Systems AI Awarded by U.S. Space Systems Command's Space Domain Awareness (SDA) TAP Lab An Annual License Subscription

From the period of 6 August through 29 October 2024, Planetary Systems AI successfully demonstrated the ability to use generative AI to read large quantities of semi/unstructured text and imagery to populate the Lab's Target Model Database (TMDB).

New York, NY, November 19, 2024 - [Planetary Systems AI](#) (PSAI), a planetary support company providing cyber-first artificial intelligence and machine-learning solutions for space and satellite operations, announced today that it has been awarded an annual subscription license by U.S. Space Systems Command's Space Domain Awareness (SDA) Tools Applications and Processing (TAP) Lab after the completion of the Apollo Accelerator Cohort 4. This program enabled PSAI to demonstrate its capabilities with the use of generative AI to read large quantities of semi/unstructured text and imagery to populate the Lab's Target Model Database (TMDB). The TMDB, once populated with details about a satellite's payloads, power, and propulsion systems can be used to evaluate potentially threatening close approaches.

"With the amount of orbital traffic and payloads being deployed into space, it is imperative that a continuous monitoring and coverage of space assets traffic and anomaly management occurs 24/7/365." said CEO & Chief Space Officer Cindy Chin. "PSAI is leveraging our multi-modal AI expertise and capabilities to work with the U.S. government, its allies, and our commercial partners to ensure that their decision support is accelerated and enhanced through our AI solutions. Our team was excited to showcase these tools and capabilities during the SDA TAP Lab Cohort 4 Demo Day with U.S. Space Systems Command, the U.S. Space Force, DARPA, and other government and industry partners."

SDA TAP Lab Chief, Major Sean Allen says, "This is a real innovation applying modern software to age-old problems and a great use-case for generative AI."

During the three-month TAP Lab cycle in Cohort 5, PSAI will further test and refine its solutions for SDA by increasing space vehicle imagery to its AI model, responding with a team in a given scenario related to threat warning and assessment. The current database is structured for direct integration with, query by, and display in SDA tools. It can be used with maneuver-event data for inferring potential for threats and determining proximity. Entries were filtered for validity by an AI model trained on Joint Commercial Operations (JCO) Notice to Space Operators records and other trusted analytic sources.

About SDA TAP Lab (<https://sdataplab.org/>): The Space Domain Awareness TAP Lab accelerates the delivery of space battle management software to operational units. We decompose kill chains, prioritize needs with operators, map needs to technologies, and onboard tech to existing platforms quickly. We partner with industry, academia, and across the government to succeed.

About Planetary Systems AI (www.planetarysystems.ai): PSAI is a planetary support company accelerating data flow and insight generation for decision-making in the space sector, optimizing planetary support operations.

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