



ODSS-NIEHS Collaboration

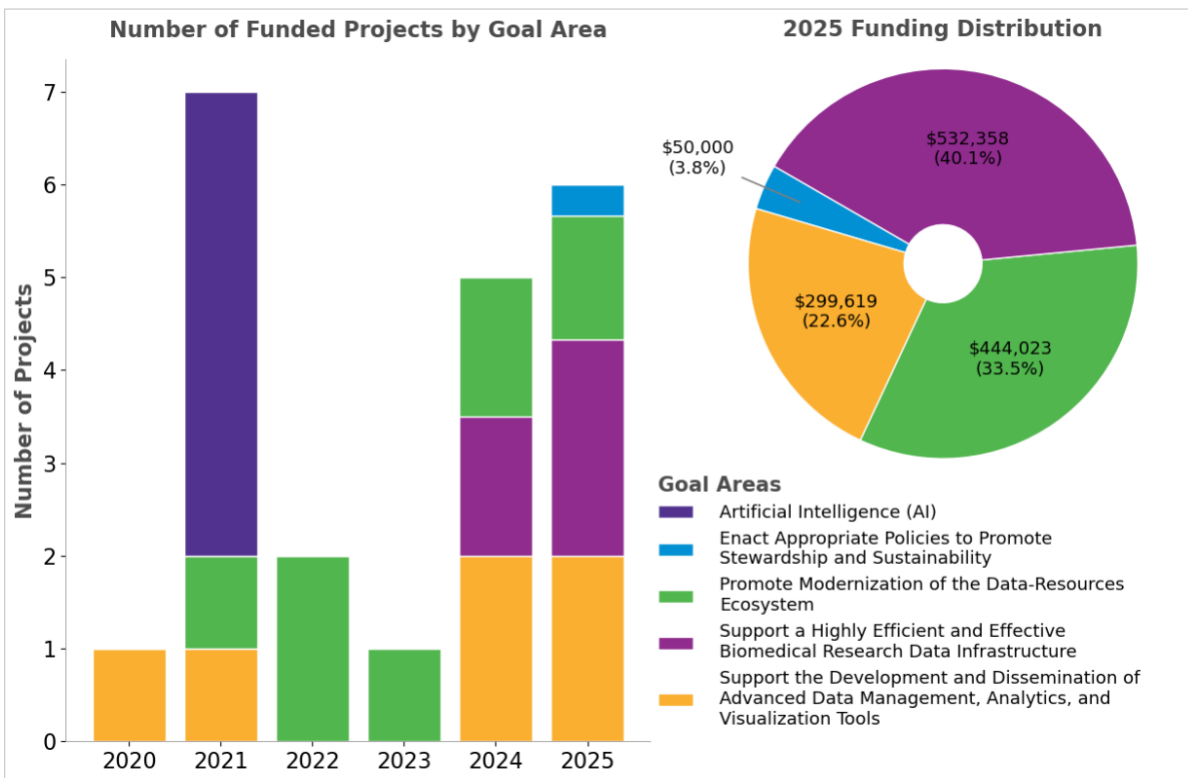
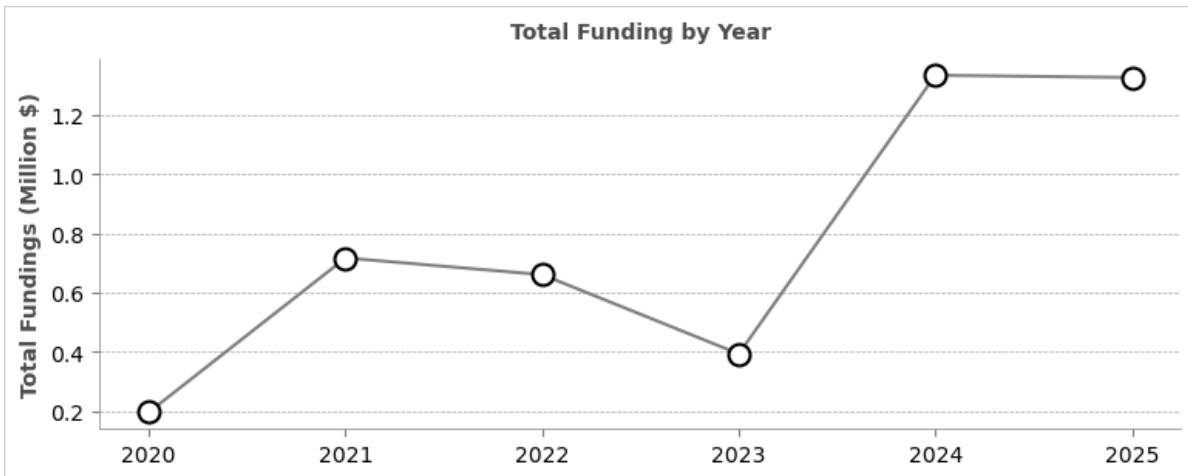
2025



2025 ODSS Funding for NIEHS

In 2025, ODSS provided \$1,326,000 in funding to NIEHS, supporting 6 co-funding awards across 4 goal areas.

- **Funding Trend:** Funding has increased more than six-fold from 2020 to 2025.
- **Strategic Goal Trends:** NIEHS and ODSS have consistently partnered to develop data resource ecosystem and advanced tools, with recent portfolio expansion into data infrastructure.



Co-funding Highlights

- **Supporting Biomedical Discovery with the ROBOKOP Graph Knowledgebase (Grant #: 5 U24ES035214-04).** ODSS provided \$394,023 to NIEHS to support the enrichment and enhancement of the ROBOKOP Graph Knowledgebase and development of tools to promote use of the knowledgebase. This funding supports one goal area — data resource ecosystem development.
- **Wildland Urban Interface Exposure Toxicity in Cells, Animals, and Humans (Grant #: 3 R01ES035878-02S1).** ODSS provided \$282,358 to NIEHS as a supplemental grant to support the development of the HeAlth Research eNAbled through Cloud ServiceS (HARNCESS) program designed to implement advanced artificial intelligence / machine learning (AI/ML) methods using a high impact case study on wildfire research. This funding supports one goal area — data infrastructure development.
- ODSS provided \$200,000 to NIEHS for the High-Value Datasets (HVD) program project: **Support for bioinformatics pipelines for high value genotype calling at biobank scale in the All of Us Researcher Workbench.** This funding supports one goal area — data infrastructure development.



¹ Data sources: QVR and iTools. Fiscal Years: 2020-2025. These are output numbers associated with core awards, filtered to include only outputs that occurred after an ODSS-associated application was funded.

² ODSS, in collaboration with OD, CIT, NHLBI, and NIA, developed an NIH community pilot LLM chatbot called [ChIRP](#). ChIRP is funded by ODSS and OIR, aiming to create a secure environment for NIH staff to safely explore how generative AI technologies. As of November 2025, ChIRP had 863 active users.

³ To enhance NIH workforce training, ODSS collaborates with NLM to fund and manage the NIH Coursera Program that offers a limited number of free Coursera licenses to NIH staff. Over the course of FY25, there were a total of 1388 Coursera users, covering all 27 ICs. Please note that Coursera paused on 9/6/2025 due to contract processing delay but will restart as soon as acquisition is processed in the new fiscal year.

⁴ (Collaborative support from CIT and ODSS) The NIH Science and Technology Research Infrastructure for Discovery, Experimentation, and Sustainability (STRIDES) Initiative is a partnership with commercial cloud service providers (CSPs) to allow NIH-supported researchers to affordably explore the use of cloud services and environments to streamline NIH data use.

Collaboration Highlights

- ODSS led NIH-wide collaborations to develop and implement common data elements (CDEs) in priority areas such as chronic, autoimmune, and immune-mediated conditions. ODSS collaborated with Dr. Charles Schmitt at NIEHS for the CDE project titled “*Development of an Exposomics CDE collection*” as well as participated in Environmental Health Language Collaborative (EHLCC) activities.
- ODSS Director Susan K. Gregurick, Ph.D. was hosted by the NIEHS Director Rick Woychik, Ph.D. to deliver remarks about data and AI at NIH in Oct 2024. The lecture focused on data management, sharing, and AI resources for researchers at NIEHS and other institutes. Dr. Gregurick also highlighted the value of partnership and workforce development.
- ODSS monthly data sharing and reuse seminar series provides an opportunity for the ICs to highlight data science and informatics efforts and programs to the larger research community. In Sept 2024, NIEHS hosted the seminar titled “*Climate and Health Outcomes Research Data Systems (CHORDS)*”.