



ODSS-NLM Collaboration

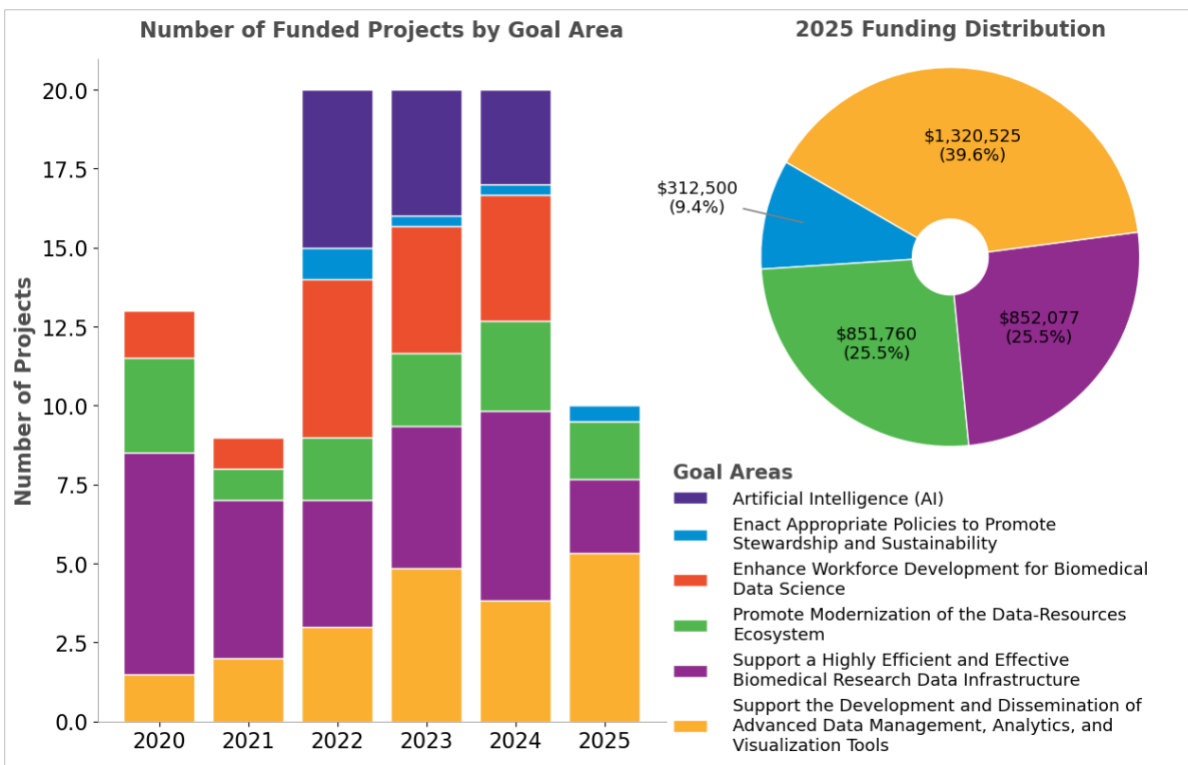
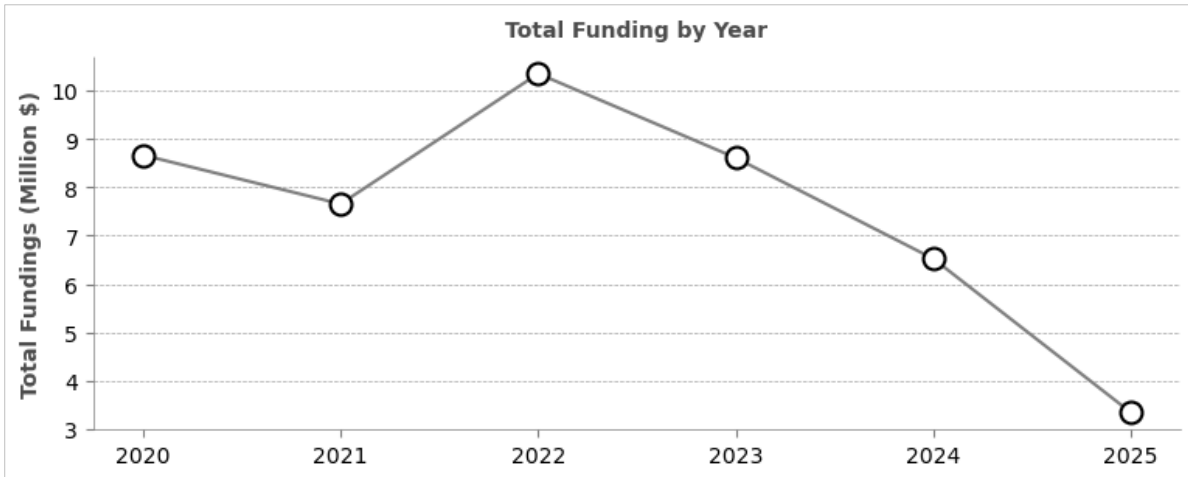
2025



2025 ODSS Funding for NLM

In 2025, ODSS provided \$3,336,861 in funding to NLM, supporting 10 co-funding awards across 4 goal areas.

- **Funding Trend:** Funding has mostly remained steady from 2020 to 2024 with some downturn in 2025.
- **Strategic Goal Trends:** NLM and ODSS have consistently partnered to develop advanced tools, data infrastructure and resource ecosystem, with the portfolio diversifying over time to include activities related to AI and workforce development.



Co-funding Highlights

- **Investing in Research Software Engineering for Expert Development and Dissemination of Bioconductor (Grant #: 1 R50LM015262-01).** ODSS provided \$168,448 to NLM to support the Bioconductor, an open-source, open-development software project that develops, supports, and distributes software for genetic and genomic research, analysis, discovery and visualization. This co-funding supports one goal area — advanced tools development.
- **Expanding BioThings as a community API gateway for sharing biomedical knowledge (Grant #: 1 R03LM014974-01).** ODSS provided \$276,000 to NLM to support BioThings to enhance their existing software platform to build a distributed knowledge ecosystem to promote data-sharing and knowledge integration at scale. This co-funding supports two goal areas — data infrastructure and advanced tools development.
- ODSS led NIH-wide collaborations to develop and implement common data elements (CDEs). ODSS provided a total of \$917,779 to NLM in two funded projects:
 - **Addressing CDE Redundancy and Developing a Semantic Search User Interface for the CDE Repository** [PO: Dr. Richard Scheuermann] (Contract #: 75N97024A00001)
 - **NIH CDE Repository – CDE Analysis and Recommendations** [PO: Dr. Richard Scheuermann](Intramural Research)



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 (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.

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 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.

⁵ (Collaborative support from CIT and ODSS) The NIH Researcher Auth Service (RAS) is part of NIH's efforts toward a modernized, FAIR, biomedical data ecosystem. RAS facilitates access to participating NIH data assets and repositories in a consistent, secure, and user-friendly manner and provides researchers with a single sign-on experience.

⁶ ODSS in collaboration with the General Services Administration's U.S. Digital Corps (USDC) in the DataPath Fellow Program to recruit and engage early career data professionals. DataPath Fellows are supported 50% by ODSS and 50% by the ICO where they are matched.

Collaboration Highlights

- ODSS led the efforts in developing a new Data Access Committee (DAC) module for the NLM/NCBI's database for Genotypes and Phenotypes Authorized Access System (dbGaP AA System).
- Since 2019, ODSS has been collaborating with Dr. Teresa Zayas-Caban of NLM in promoting the use and development of Fast Healthcare Interoperability Resources (FHIR) in research. Dr. Zayas Caban serves as the co-chair on the NIH FHIR Working Group.
- Dr. Priyanka Ghosh, a current NLM employee and former NIH DATA Scholar at NLM, was the lead author of a publication detailing the outcome of the Petabyte Scale Sequence Search Codeathon. This initiative, a collaboration among NIH, DOE, and other stakeholders, has resulted in open-source tools and resources enhance data accessibility and analysis capabilities for the research community.