

Thot

Accelerating scientific discovery by creating tools for researchers that encourage transparent, collaborative, and accessible science.

In a nutshell

More than half of the data that scientists produce goes unpublished representing untold amounts of lost insight. This is because data management and sharing results requires a significant amount of work. Existing software tools date back to the early 90s and have not fundamentally changed, remaining inept.

Thot wants to modernize the scientific process by building software tools for researchers that automate their data management and analysis. These tools provide a common interface for researchers to interact with their projects. Our online platform allows these projects to be shared for inclusion in others' research and a more open debate. Not only does this create a transparent scientific landscape, it enables new modes of research that pave the way for a new kind of science.

Why is our technology important?

Researchers spend more than 20% of their time performing data analysis – this is often a manual process using unwieldy Excel spreadsheets. Maintaining the hundreds of spreadsheets a single project can contain requires tremendous effort. Doing this by hand results in a substantial amount of lost data, errors in analysis, and inefficiencies amounting to \$50B.

The lack of a common framework in which to organize, analyze, and publish projects is a major contributor to the lack of transparency in science. This makes it difficult for scientists to use existing results, verify others' analysis, and have critical discussions about them. All this combines to create a community without a cohesive means to share and understand science.

The benefits of our solution

Thot replaces the tedium of manual data analysis and organization through automation. This saves researchers time and energy while facilitating collaboration using interactive tools that are built upon FAIR data and open science principles. Using these principles, Thot's online platform provides a secure hub for researchers to easily find and reuse data, and creates a unified interface for interaction.

As Thot's online repositories grow, we will be able to offer curated data sets for industry research, a market expected to surpass \$350B by 2030, and \$1T by 2040. By enhancing access to the latest scientific data, we can drive innovation in a multitude of fields – from pharmaceutical and life sciences to materials engineering – advancing technology and knowledge in the search for truth.

Keywords

Scientific research, Data analysis, Software, Compliance, Open science, FAIR data

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