

AD Workbench: Powering Breakthroughs in Alzheimer's and Dementia Research



The [Alzheimer's Disease Data Initiative](#) is a global coalition of leading academic, government, and nonprofit organizations that have come together to help Alzheimer's and related dementias (ADRD) researchers discover and share data, access analytical tools, and collaborate on studies. The AD Data Initiative removes silos by enabling seamless access to interoperable sharing platforms, unlocking important ADRD datasets, and fostering research collaborations.

A core part of this offering is the [AD Workbench](#), a secure, cloud-based data sharing and analytics environment. As the interoperability layer of the AD Data Initiative technical suite, AD Workbench empowers researchers around the world to share, access, and analyze data across platforms.

Augment Your Research with AD Workbench

- **Browse and discover datasets on the [AD Discovery Portal](#), a user-friendly, publicly accessible dataset catalog, and permissibly access and analyze them on AD Workbench.** Explore an ever-growing number of human-subject, clinical, imaging, -omic, and synthetic datasets on Alzheimer's disease, related dementias, and aging—including datasets from low- and middle-income countries and from underrepresented populations around the world.
- **Built on FAIR principles, datasets from academia, industry, government, and non-profits are findable, accessible, interoperable, and reusable.** This includes datasets from other interoperable data-sharing platforms. Access to datasets may be centralized, distributed, or federated—helping to accommodate data security and governance needs while maximizing permissioned access.
- **Work and collaborate in a personal workspace, using your own data or permissioned datasets from the AD Workbench that can be curated, combined, analyzed, and visualized using available tools.** Standard workspace virtual machines (VMs) come with 4 vCPUs and 16 GB of memory, with larger sizes available based on your research plan and on request. Invite others to your governed workspace with audited activities. You can safely move your analytical results honoring data contributor agreements, via airlock feature. Multiple VMs can be added to each secured collaborative workspace, sharing a common storage pool of up to 5 TB.
- **Jupyter Notebooks and R Studio are built-in workspace features (and can support R Shiny apps).** As part of the Data Science Template, Docker, GitLab, Julia, LibreOffice, and Visual Studio Code are pre-installed. Additional tools can be installed on Linux or Windows VMs.
- **Built on an Azure platform, AD Workbench is powered by [GRIP](#), a community-driven platform that enables interoperability, collaboration, and data analytics.** GRIP is an ISO/IEC 27001, GDPR, and HIPAA-compliant platform developed and managed by GRP, LLC., and meets NHS data security standards, among others. Data hubs in Europe and the United Kingdom help meet GDPR data storage requirements.

Join our global community as we fundamentally transform Alzheimer's disease and related dementias research. Follow us on LinkedIn and visit [AlzheimersData.org](#) to learn more and sign up for AD Workbench today using this QR code.

