# Aridhia SaaS DRE

2024

# Introduction to Aridhia

Who we are

# Aridhia – Who We Are and What We Do

The leading platform for trusted data sharing and collaboration networks

**Global Networks**

**Pharma**

**Research Hospitals**

- Aridhia helps clinical and life sciences pioneers in Research Hospitals, Universities, Pharmaceutical Companies & Global Medical Networks who want to advance their medical research and improve outcomes **more quickly**.

- We do this by providing a safe, secure **digital research environment** for projects of any size or scale; local or global. This is built to enable greater collaboration, knowledge sharing and access to the potential of machine learning.

- Unlike systems built in-house, Aridhia's platform is ready to go and delivers **rapid impact**. It's customizable and flexes based on how much or how little you need it to do.

- We understand the special considerations in healthcare research across global jurisdictions and help you maintain **patient privacy and data provenance** with continued investment in security and quality certifications.

# What is the SaaS DRE?

Aridhia SaaS DRE platform

# A Next-generation Research Environment
## with Security and Privacy *locked in!*

Easy analysis and manipulation of data with intuitive tools and resources

A range of compute options available to handle intensive workloads

Collaborate in a cloud-hosted workspace, accessible whenever and wherever

Designed for Project Teams & Studies to collaborate globally in a controlled environment

Data security and governance is ensured with numerous globally recognised certifications, and user activity is fully audited for provenance

# Aridhia SaaS DRE Workspaces
## Secure, Collaborative Research Environment

- **Inbound/Outbound Airlock Control**
  - Workspace managers always in control of what enters and leaves a workspace
- **Control Workspace Membership and Feature Access**
  - Invite, suspend, re-activate and remove users
- **Full Audit Trail**
  - Project activity logged for governance and compliance
- **Built-in Data Table Editing and Analytics**
  - 20+ biomedical stats packages – quick start, easy use
  - R code generated for advanced development
- **Full R Interactive Development Environment**
  - Develop, re-use, share code reducing time to results
- **Secure Git Repositories**
  - Collaborative development and versioning
  - Real-time review with collaborative partners

- **Drop-in R Shiny Support**
  - Aridhia library: https://aridhia.shinyapps.io/menu/
  - Genome viewer, table *t*-test, VCF Analyser
  - Build no-code Shiny apps and develop analytics library
  - Enable re-use and encourage best practice
- **Built in Containerized Apps**
  - RStudio, Jupyter Notebook, OHIF viewer
  - Run tools with or without virtual machines
- **Bring Your Own Apps, Code, and Algorithms**
  - Custom app support for containerized software
  - Deploy privately or share with other workspace teams
- **Access to Further Compute Services**
  - Linux and Windows virtual machines
  - Data Science tools pre-deployed reducing time to start
  - Azure ML, Cromwell, and other advanced services

# Is the SaaS DRE Secure?
## Trust the Aridhia Security Record

*Leave platform certifications to us…*
*and you're already done!*

**ISO27001**
- ISO/IEC 27001 information security management

**ISO27701**
- ISO/IEC 27701 GDPR privacy information management

**HITRUST Certification**
- HITRUST brings together several compliance frameworks such as HIPAA, NIST, and ISO into the Common Security Framework (CSF)

**NHS Digital Security and Protection Toolkit**
- National Data Guardian's 10 data security standards

**OWASP**
- Security by design - OWASP best practice framework

# Why Build from Scratch?



## PROVEN GLOBAL REACH

- GDPR, HIPAA, and proven track record with governmental health and regulatory agency experience
- UK, Europe, Australia, USA, Brazil, S Africa, India, Hong Kong, Uganda... over 90 countries so far and the list is growing
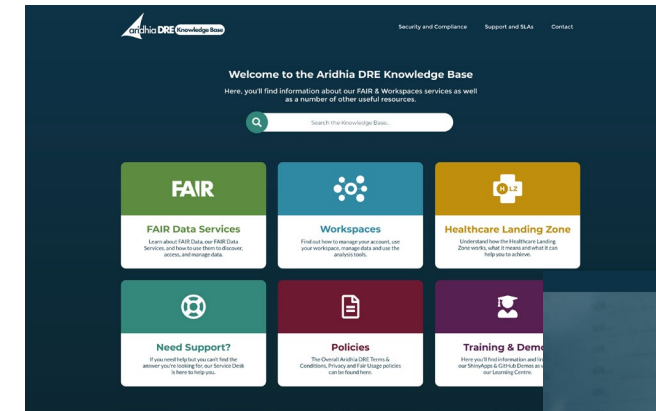
## LEARN FROM OUR EXPERIENCE

- 950+ Workspaces, 9,614 Datasets within FAIR
- Learning portal and dedicated Knowledge Base
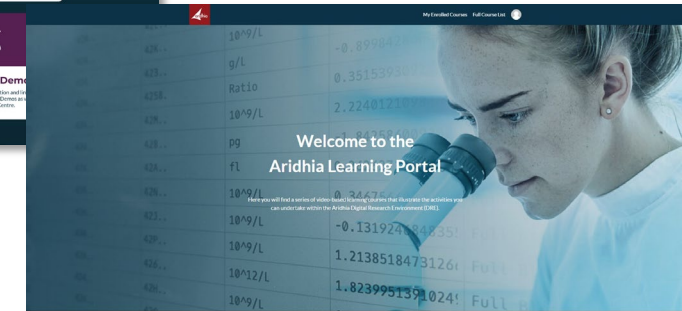- Dedicated platform support teams

## DON'T REINVENT THE WHEEL

- No DevOps team required with built-in administration tools
- Take advantage of ready-made R Shiny apps and create visualizations without writing a line of code
- Modify our apps for a head start or develop your own to complement what already exists
- Continuous enhancement and platform development based upon broad customer feedback
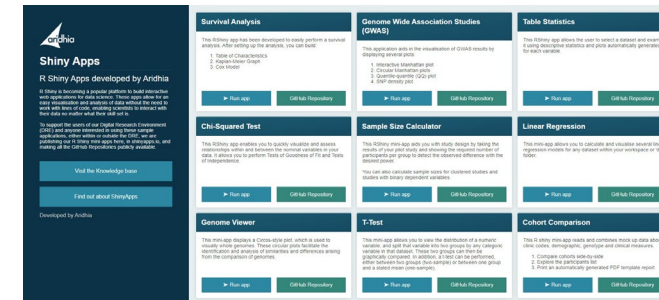- Ongoing maintenance and accreditations handled: let your team focus on the science

**Knowledge Base**

**Learning Portal**

**R Shiny Apps**

**Full Lifecycle DRE**

# Examples of Impact

**International Covid-19 Data Alliance**

- Global COVID-19 trusted data sharing network of federated data and analytical tooling
- Gates Foundation, Minderoo Foundation, Wellcome Trust funded network

**Alzheimer's Disease Data Initiative**

- Global Alzheimer's research network for trusted data sharing and analytics for researchers
- Gates Ventures, NIH, MRC, Wellcome Trust, Alzheimer's Association funded network

**Rare Disease Cures Accelerator-Data and Analytics Platform (RDCA-DAP®)**

- FDA funded program to accelerate rare disease research and drug development
- Platform connecting clinicians, pharma, researchers, patient advocates, and regulatory groups

**Great Ormond Street**

- UK's leading paediatric research hospital
- Hospital wide deployment of DRE benefitting research and clinical outcomes

**The Royal Marsden**

- UK's leading cancer research hospital
- Enabling data analytics and AI development using real-world cancer data

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