

# MEDIAFLUX<sup>®</sup> GENOMICS SOLUTION BRIEF



## HIGHLIGHTS

- Accelerate secondary analysis and reduce storage costs
- Automatically tier and move data
- Securely access data worldwide within a single global namespace
- Tag data with instrument and project metadata to search, report and act on billions of files
- Automate analysis workflows

## THE LIFE SCIENCE DATA CHALLENGE

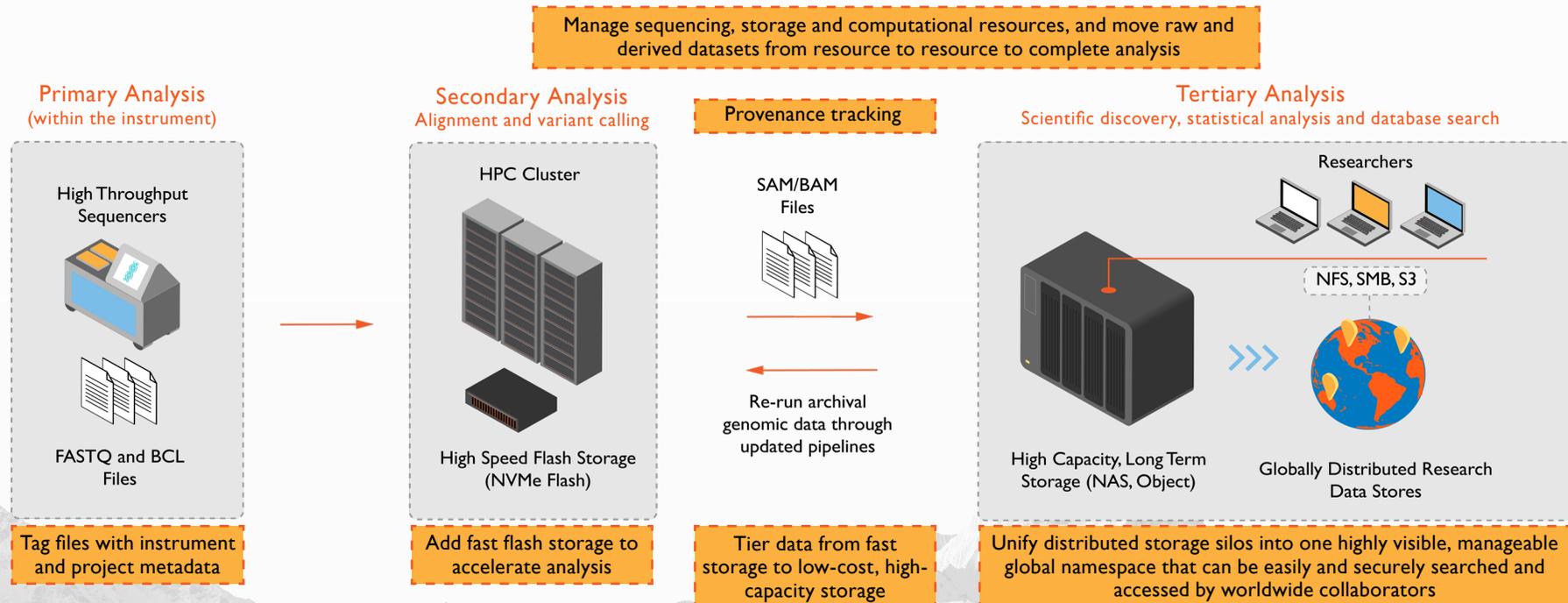
Life science organizations are confronted with processing, moving, storing and keeping track of ever increasing amounts of genomics data, securely sharing results with researchers around the world, safely and economically storing data long term, and easily finding it when needed. Lacking the availability of a capable data management platform, data scientists and bio-informaticians have been forced to resort to time consuming and expensive manual data management activities that don't scale.

## MEDIAFLUX TO THE RESCUE

Mediaflux enables scientists to focus on doing science instead of tedious data management. Mediaflux is a robust, flexible data + metadata management platform that unifies life science data silos into a secure distributed collaboration environment across a single global namespace. Designed for extreme scale and performance, Mediaflux automatically indexes content and metadata to enable global management of genomics data on any storage system across multiple locations.

## THE GENOMICS DATA LIFECYCLE

### Mediaflux capabilities



# MEDIAFLUX GENOMICS SOLUTION BRIEF



## CUT STORAGE COSTS

Tier data to low cost storage, deduplication and useless data removal, the right data at the right place at the right cost.

## ENSURE DATA PROVENANCE AND REPRODUCIBILITY

Track which genomic data was processed by which application and version within an analysis pipeline to ensure reproducibility and data integrity.

## FIND DATA EASILY

Metadata extraction and search locates hard-to-find data by querying workflow-specific metadata describing stored data.

## INTEGRATED DATA LIFECYCLE MANAGEMENT AND SECURITY

Data collection, analysis, sharing (open data export), discovery, archive, data re-use and monetization, versioning, access control, auditing, checksum and WORM.

## COMPLETE DATA VISIBILITY ACROSS A SINGLE GLOBAL NAMESPACE

Characterize information by data type, use, owner, size, last accessed, etc. Gives administrators the information needed to lower storage costs and preserve research data.

## HIGH PERFORMANCE AND HIGH SCALE OPERATION

Parallel I/O for ingestion, migration and replication, high-performance, massively scalable XODB NoSQL database.

## DATA PROTECTION

Replication and backup, disaster recovery across remote sites, move and distribute data to wherever it is needed.

## ANALYSIS WORKFLOW AUTOMATION

Automate complex workflows and processes, and deliver data to external applications and systems for transformation.

## ABOUT ARCITECTA

Arcitecta is a creative and innovative software company. Founded in 1998, it's our mission to build the world's best data management platforms.

Over nearly twenty years of innovation and entrepreneurship, our technology has formed the foundation for managing the simplest, and the most complex data, for individuals through to large teams of people at global enterprises. Our experience in working with our customers to define the questions they need answering has simplified data intensive workflows. We expose pioneering ways for our partners to speed up the pace of discovery and translate that into tangible actions.

Our technology is only one part of our successful and enduring relationships. The best outcomes for demanding customer challenges arise from deep collaboration. We place great value on becoming fully immersed in your problem-space to help craft the best possible, custom-curated biological database for the most demanding research environments.

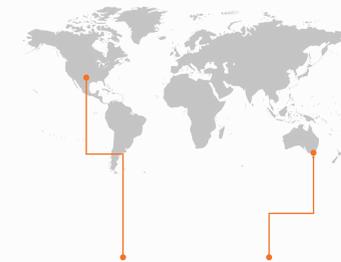
## WE SOLVE PROBLEMS OTHERS CANNOT

We own the entire technology architecture. With deep knowledge of every line of code, we can customize a solution to the most complex data problems.

## TOGETHER, WE BUILD YOUR FUTURE

After listening to our customers' needs, we have the product and people-power to create and implement the best possible solutions - we build what you need.

Let's start a conversation about what's possible.



**Louisville**  
Suite 200  
357 S McCaslin Blvd.  
Louisville, CO 80027  
USA  
+1 720 583 4006

**Melbourne**  
15 Little Bakers Lane,  
Northcote, VIC  
3070  
Australia  
+61 3 9029 3437

E-mail: [info@arcitecta.com](mailto:info@arcitecta.com)

[www.arcitecta.com](http://www.arcitecta.com)