REĀN *Genomics*
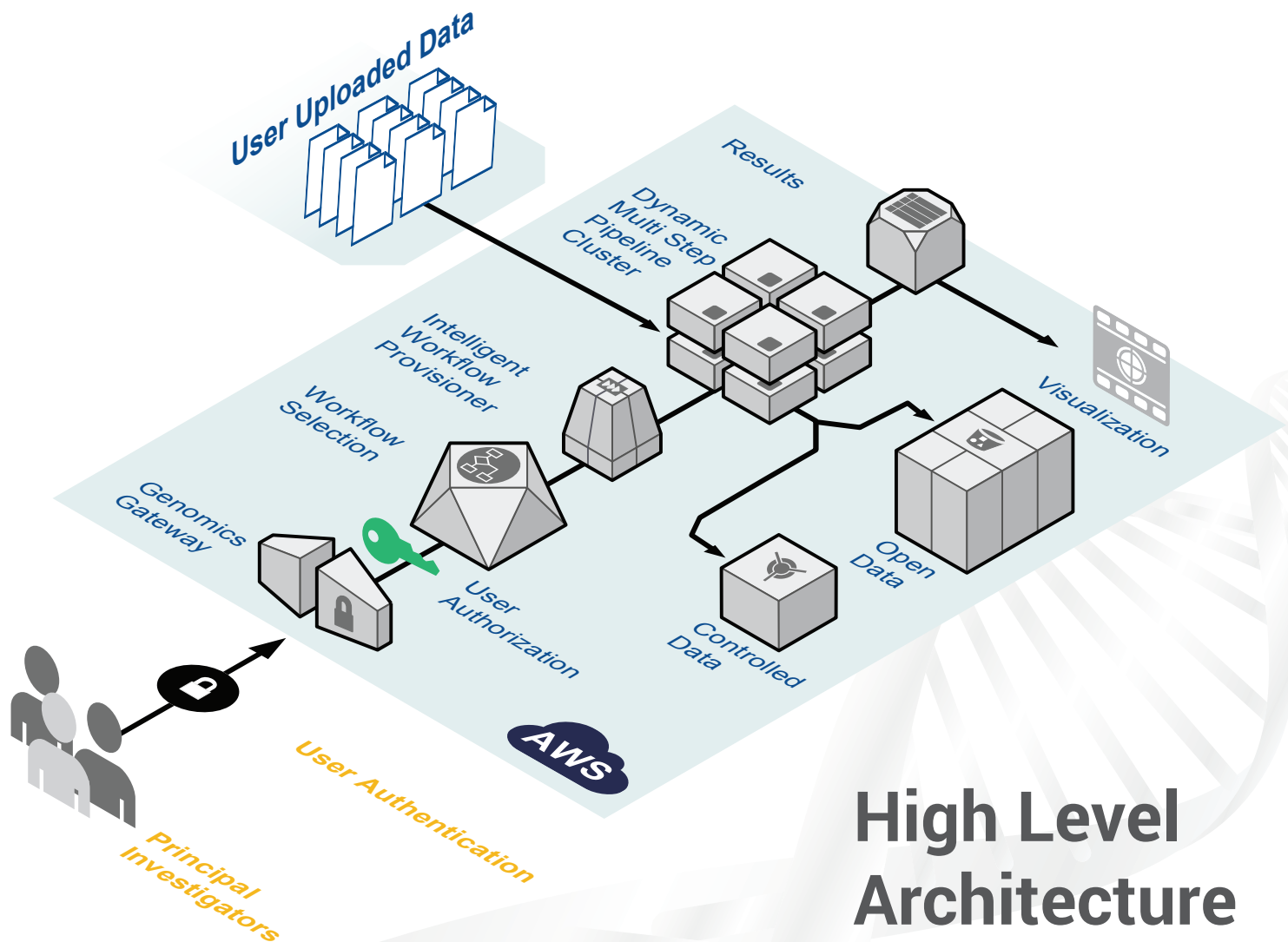
Analyzing huge amounts of sequencing data requires massive computing resources. The ever-increasing scale of Genomics Research creates analytical challenges like accommodating peak compute demand, coordinating secure access for multiple analysts, and sharing validated tools and results. REAN *Genomics* leverages Amazon Web Services (AWS) cloud to provide a secure platform to help you scale research cost-effectively. It supports high performance workloads to derive powerful insights with zero capital investment.

Workflow driven Design and Management of Pipelines: Our workflow-driven design and execution of pipelines make it easy for users to integrate almost any analysis or tool. This creates an extremely flexible and highly specific solution to answer the most specific research questions. Our library of pipelines, developed with some of the world's leading scientists, is readily available to kick-start your efforts.

High Level Architecture

Key Capabilities

Innovative Data Management: Lifescience researchers need innovative and powerful software to successfully manage, share and quickly evaluate large data stores. Our high speed network and transmission technology enables quick transfer of NGS data from sequencing centers to the integrated analysis platform in a secure and reliable manner. Analysis results can be stored long-term at a low cost in our cloud based storage, and safely shared with your co-workers and collaborators. Hundreds of Genomic research campuses and scientific consortiums are using the underlying Globus platform as their preferred file transfer capability to move hundreds of terabytes of data each month.

Low-Cost and Customized Computation: We leverage the flexible and scalable AWS cloud platform to perform unlimited high performance computing of scientific data. Our flexible solution adjusts to varying workload and data storage requirements while also being able to take advantage of tools such as GPU, mapReduce and MPI, that run more efficiently on different platforms.

Private and Secure Platform: We design, manage and analyze the NGS data in a private, secure cloud platform powered by AWS. REAN *Genomics* provides a comprehensive security framework to help you perform advanced research inside your customized AWS account(s) while meeting your organization's security compliance requirements.

Pipeline Design and Development Services: Our team of researchers assists labs to implement new pipelines and customize existing pipelines to optimally address your research goals.

Subscription Models	Developer/PI	Business	Enterprise
Exomes	150	500	2500
Whole Genomes	30	100	500
RNA-Seqs	300	1000	5000
Batch Submission	No	Yes	Yes
Branding	No	Yes	Yes
Support	8x5	12x5	24x7

Who is REAN Cloud?

REAN Cloud is a one-stop shop for managed cloud solutions. REAN Cloud helps organizations become agile and productive. REAN turnkey solutions empower innovation and reduce time to market at a low cost in a monthly subscription model.

How are managed cloud solutions crucial to business today?

REAN solutions are bundled with advanced security features to help address your compliance needs from the very first minute. Our zero set-up cost delivery models ensures a breakeven from day one with no investments needed for procuring hardware/software or services.

Who benefits from REAN Genomics?

REAN Genomics helps research labs, both public and private, as well as R&D departments of pharmaceutical companies, to scale their Genomics Research in a turnkey, secure, customizable platform.