



About Customer

The Genome Center is the genomic medicine arm of the Swiss Health 2030 initiative, which aims to tap the potential of new technologies in the fields of health and personalized medicine.

www.health2030genome.ch

Geo

EMEA

Industry

Healthcare

Solution Area

Activate Real-time Analytics

Pure Storage®

Products in Use

FlashBlade®

Evergreen//One™

Pure1®

Health2030 advances Genomic Research for Faster Diagnosis

The Health 2030 Genome Center, a Swiss genome sequencing and analysis center, aims to advance research and improve human health. Its bio analysts conduct DNA sequencing analysis that researchers and clinicians rely on to diagnose patients, generating significant volumes of data.

The data and interpretation platform of the Genome Center is tasked with harnessing the power of this data. Its mission is to leverage the full potential of sequencing technology to enable the delivery of more personalized medicine. To accomplish this, the Genome Center needed more efficient and agile storage for their unstructured data: two criteria that Pure Storage easily met.

"Thanks to Pure, analysis data is available 10 times faster on the platform for its community of users."

ARNAUD HUNGLER,
IT MANAGER,
GENOME CENTER

Meeting the Demands of Genomics Workloads

The Genome Center manages the platform clinicians use to analyze the genomic data leading to clinical diagnoses of patients. High computing power and quick, easy access to results are critical to their work.

Impact for Genome Center



Advances clinical genomic research for personalized healthcare



Supports future goal to enhance sequencing data analysis used for diagnosis



Flexible, cost-effective foundation to manage growing genomic data volumes

Challenges



Accelerate the availability of genomic-based results for researchers and clinicians



Better manage fluctuating volumes of data for various analysis projects



Streamline daily operational tasks to free up IT resources

Results



Analysis data is available 10x faster for clinical genomic community



Transfers large data from the DNA sequencing platform to researchers 2x faster



Reduces time spent on storage management and administration

"We have more and more DNA samples to sequence and analyze, which represents a considerable amount of data when you consider that a single sample can reach 200 GB," explains Arnaud Hungler, responsible for the Genome Center's IT infrastructure. When the organization searched for a storage solution, performance and scalability were top priorities.

Agility was equally important. "Depending on the projects in progress, our storage volume requirements can very quickly go from zero to 200 TB and vice versa," says Arnaud. "Our infrastructure must be able to adapt accordingly."

Unprecedented Computing Power for Researchers

After a successful two-month proof of concept, Arnaud chose Pure Storage FlashBlade delivered via Evergreen//One to improve storage performance and support new use cases.

"Thanks to Pure, analysis data are available 10 times faster on the platform used by researchers and clinicians, and the transfer speed to the customer site has been multiplied by two," he says. "Researchers can analyze the data stored on our interface in real time without having to download it themselves, and diagnose patients more quickly and easily."

The Evergreen//One subscription allows the Genome Center to scale storage to meet constantly changing needs. "This means we don't have to pay for 500TB of data on a permanent basis, which we only use occasionally," adds Arnaud.

Pure also delivers other advantages including efficient customer support if and when needed, and the easy-to-use Pure1 interface for storage management. Its simplicity saves Arnaud a significant amount of time on daily operational tasks.

Going Further to Advance Genomic Medicine

Data processing power remains the Genome Center's number one priority for the foreseeable future. The Genome Center team is working tirelessly on a key goal: enhancing the speed of DNA sequencing analysis so clinicians can make a diagnosis faster. Arnaud is also committed to upholding the highest levels of data security and integrity to comply with regulatory requirements—and to support the Genome Center's important role in delivering personalized medicine, backed by the power of Pure Storage.

purestorage.com

800.379.PURE

