MICROSCOPE**IT**

CHALLENGE
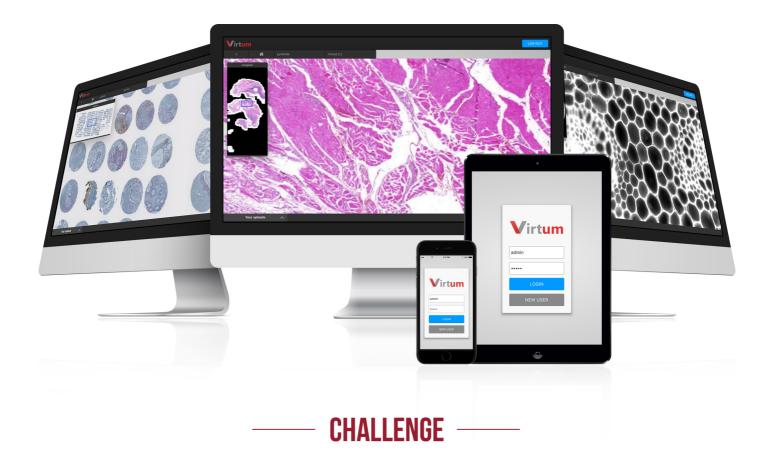
User-friendly access and processing of large data volumes is still rather an exception than a common practice. MicroscopeIT was founded in 2012 by a group of **experienced faculty members** to address this issue. We work daily with **multi-terabyte datasets** and we **believe in the Cloud**. Since handling the Cloud tends to be complicated, we developed **a new technology** - called VIRTUM - that allows for **enjoyable user experience** while operating on large data volumes in the Cloud.

WHAT IS VIRTUM?

VIRTUM is a **cloud-based technology** allowing for browsing, managing and processing of **large data volumes**. Data is transferred into the Cloud using **secure and customizable uploader**. The upload process can be adapted: from a **manual to a fully automated client** e.g. directly from the data-generating devices like GoPro or microscope cameras. Afterwards, even multi-gigabyte datasets can be comfortably browsed, managed and annotated from a handful of devices including Macs, PCs and tablets. Additionally, users can process datasets with **customizable computation** scenarios to generate reports, measurements, etc. Even if processing scenarios are utterly complex, the **results are presented almost instantly** due to the computational power of the Cloud, which **enables an interactive work on large datasets**.

WHY WOULD YOU LIKE TO USE VIRTUM APPLICATION?

SIMPLICITY

All your data can be browsed and managed from one place, from almost any device, disregarding its size. No more hassle with searching for local data, hard drives or network shares. Secured, backed up and ready to be browsed and processed at any moment, from any device.

SECURITY

We know that our customers are still wary about the Cloud. Therefore, we made a huge commitment to protect and secure your data. VIRTUM is much more secure than the on-premises systems and conforms with the international cloud privacy standards such as ISO 27018.

COST OPTIMIZATION

Today it is possible to rent the computing power and storage at reasonable price on demand. Using the services in the Cloud, the investment and maintenance costs of an expensive infrastructure can be now completely eliminated.

OTHER KEY FEATURES

☐ Multi-user system with the ability to organize, restrict and share data

☐ Secure transfer to and from VIRTUM

☐ Practically unlimited storage

☐ Archiving and versioning options

☐ Customizable visualization, processing algorithms and reporting tools

☐ Supports multidimensional and multiscale images for microscopy, histopathology and radiology

☐ Supports Windows, Mac and Android platforms (including tablets)

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