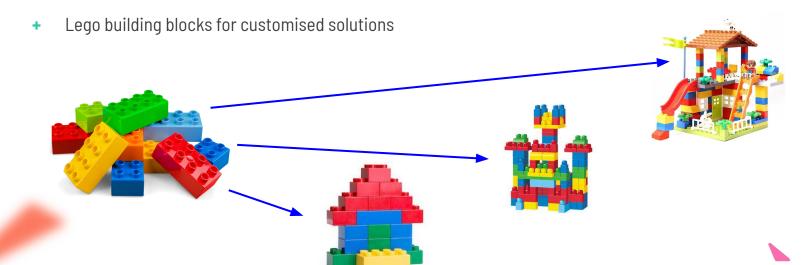




VIRTUM Technology - what is it?

- + VIRTUM Technology is a solution accelerator, not a product!
- + Cloud-based modular platform for storage, management, sharing, annotating, analysis and processing of large volumes of images





VIRTUM Technology - solution accelerator

- Cloud-based for unlimited storage and computational resources
- + Data viewer piramidal viewer allows to smoothly display even huge images
- + Data management & sharing images can be accessed and processed in a collaboration and by a distributed team
- + Annotating set of highly efficient and user-friendly tools (touch screen are supported!)
- Processing & analysis simple API for algorithm integration
- Virtually any kind of image data format can be supported (e.g. medical, satellite, 3D)
- Modularity customized building blocks



VIRTUM Technology - pitch line

- + As a solution accelerator, Virtum can be used to build customised software for clients
- + Various Virtum modules and libraries can be used as a starting point (additional features can be added)
- + Client's application can be adjusted in terms UI
- + Client saves time and \$
- + Could be also a great tool for building and annotating datasets



VIRTUM Technology - origins

- It all started in 2012 MIT received funding from seed fund "EIT+ Accelerator" for software development for digital histopathology
- Around 2015 the funding from "EIT+ Accelerator" ended and the works on the Virtum slowed down, but there were a
 few commercial projects, where Virtum was used and therefore further developed
- In 2019 we started ExaMode grant with funding dedicated to Virtum development for Histopathology





VIRTUM Technology - Tech Stack

Backend

- + Python
- + Flask
- + MongoDB

Frontend

- + Qt/QML
- **+** C++
- + Boost

VIRTUM Technology - case studies



- + Fortissimo
- + EAWAG
- + CLB





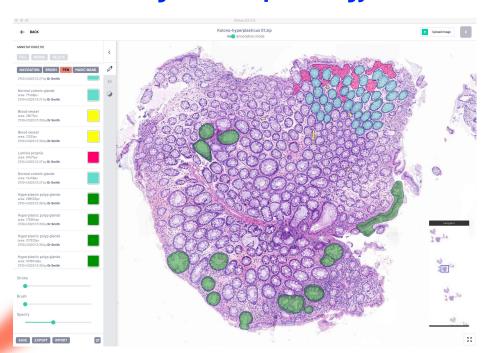


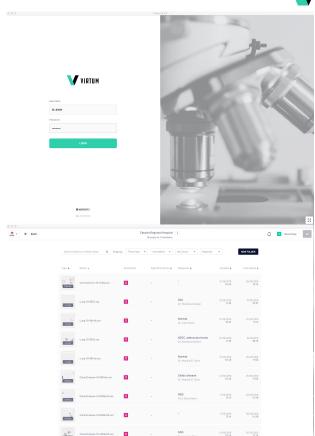






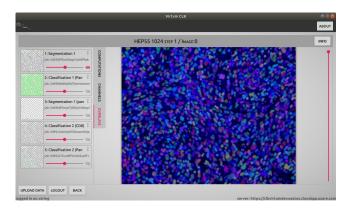
ExaMode / digital histopathology use case

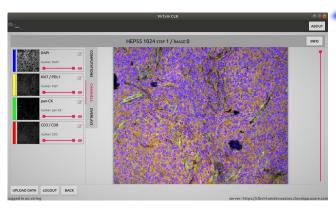






CLB / 3D data



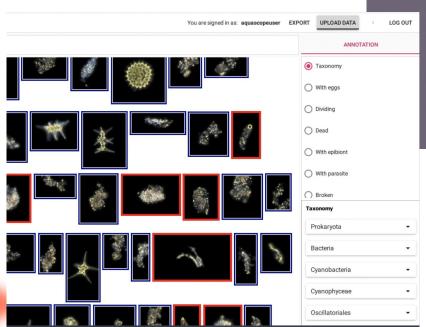


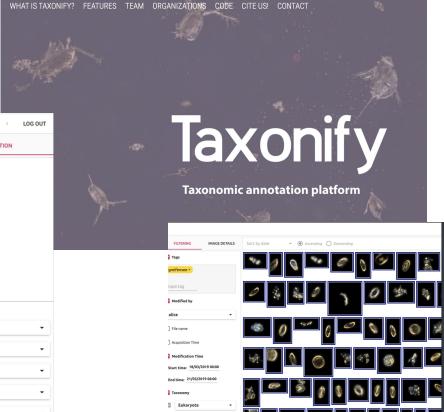


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EAWAG/Aquascope use case









Let's talk!

business@microscopeit.com

www.tooploox.com

www.microscopeit.com