A Scalable Solution for Processing High Resolution Brain Connectomics Data

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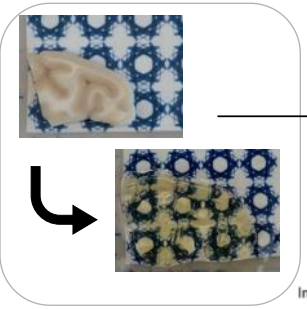
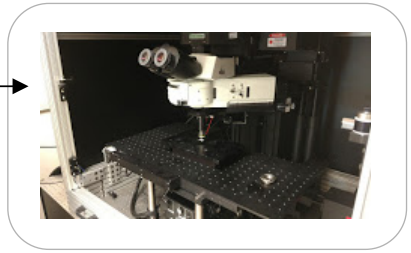
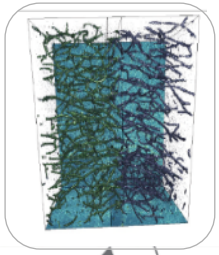
(1) Tissue Clearing



(2) Acquisition with 2-photon microscope

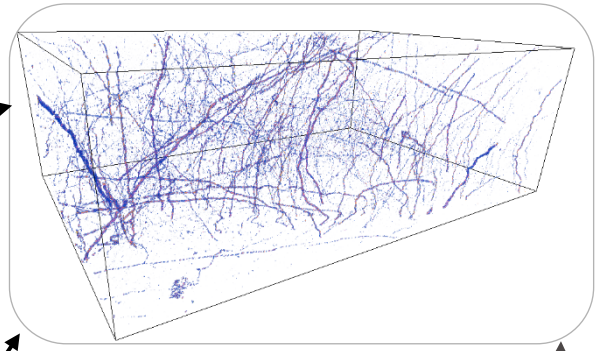


(3) Preliminary Interactive Analytics

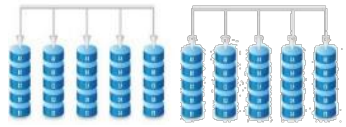


Use

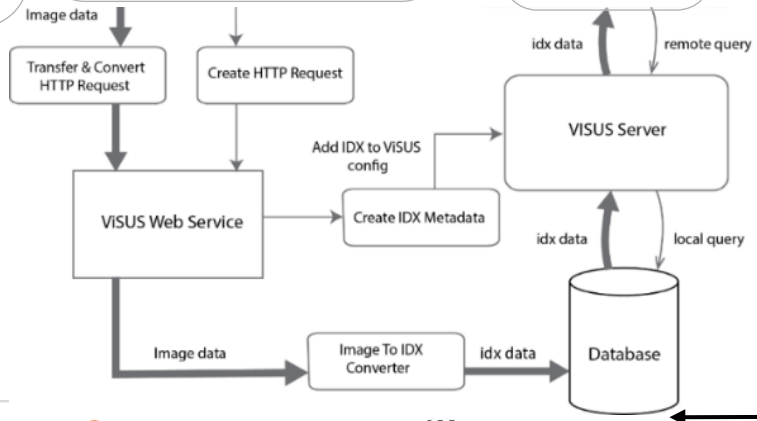
(5) Interactive, Exploratory Assessment and Feedback



(4) Asynchronous Parallel Processing

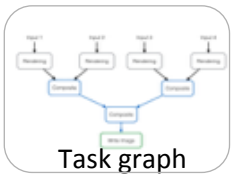


Aim: Build the infrastructure to enable the neuroscience workflow using state-of-the-art HPC tools and practices.



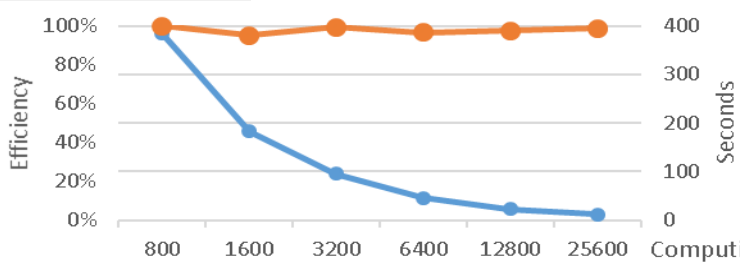
Implement

Interactive Analysis



Large scale Analysis

Data Movement



Scalable Execution

Computational Infrastructure for Brain Research, EAGER, ACI-1649923