

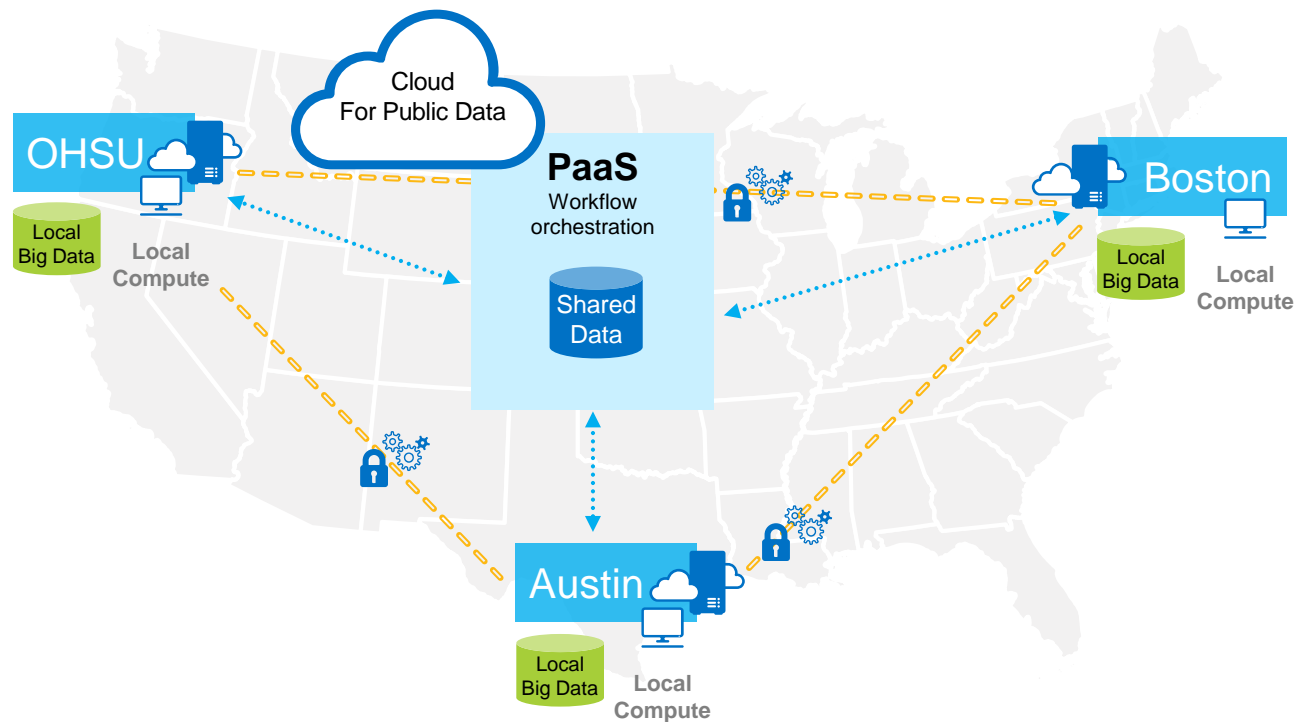


Intel Health & Life Sciences
Where information and care meet

Federated Image Analysis: Scaling Challenges and Insights

Patrick Foley and Clay Breshears
OME User's Meeting - June 2, 2015

Collaborative Cancer Cloud



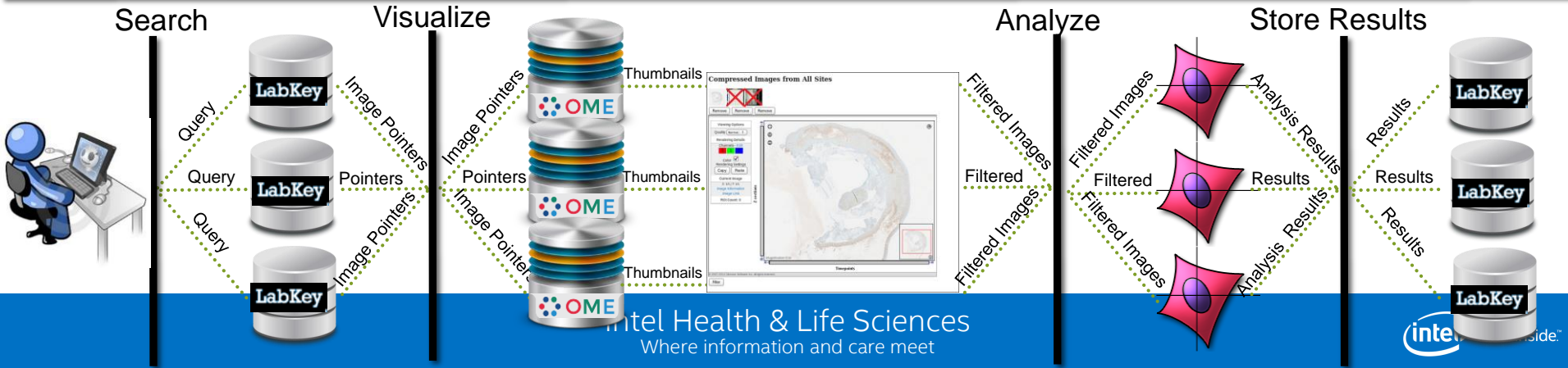
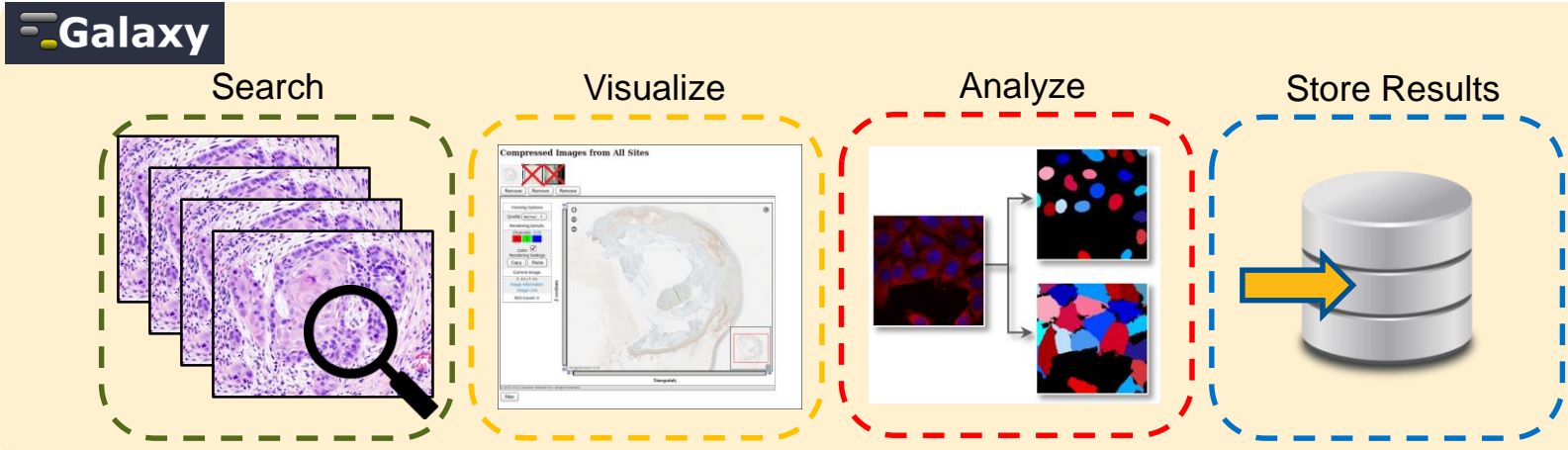
Scalable and distributed system

Optimized hardware and software

Data remains local: Send compute to the data

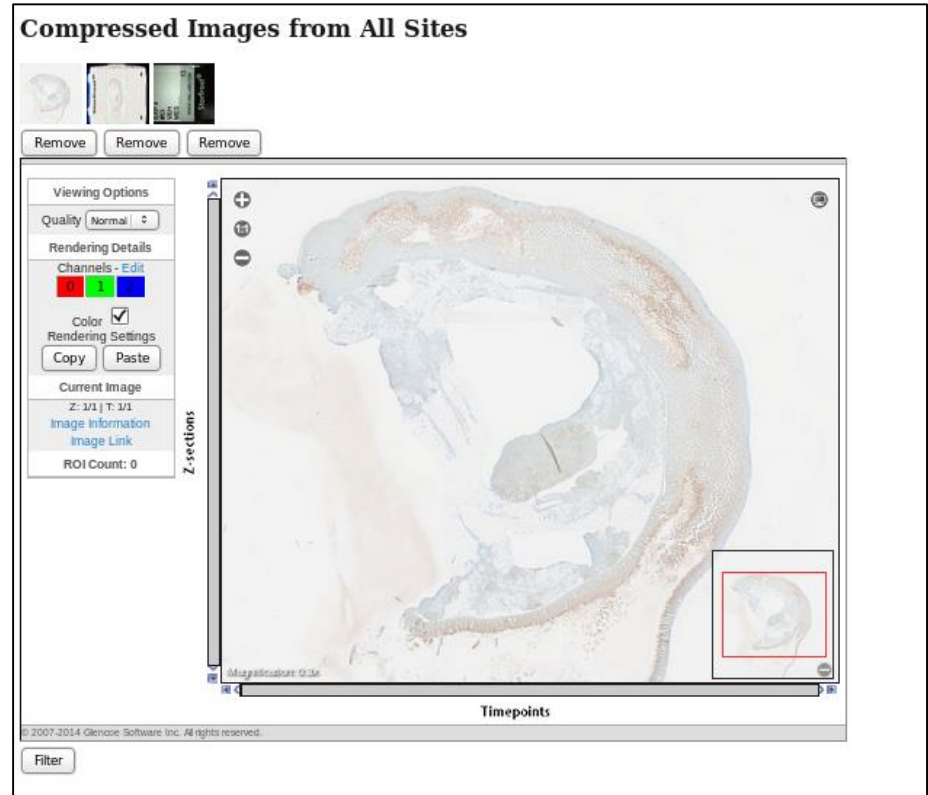
Secure sharing with privacy preservation

Imaging workflow: User's Perspective



Visualization

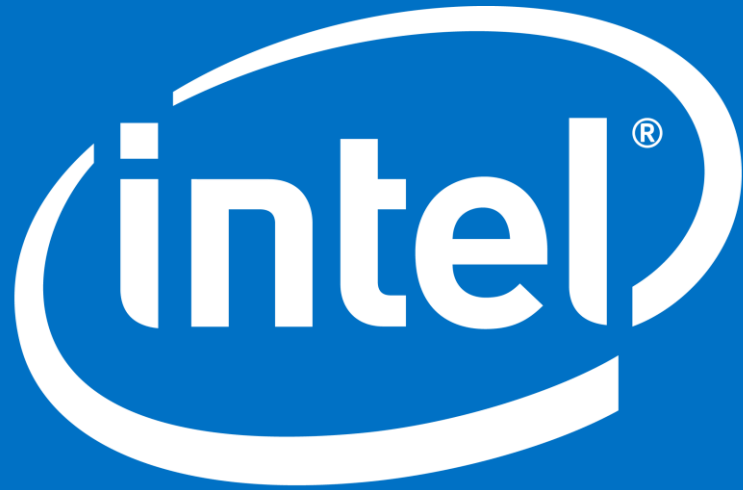
- Thumbnails for rough first pass
- Visualize full images from the OMERO server holding image
- Select/deselect images to be used in processing



Scaling Challenges

- No easy way to connect to multiple/distributed OMERO servers
- How to identify common metadata between image sets for querying
- Handling user permissions/SSO

Questions?



Look Inside.™