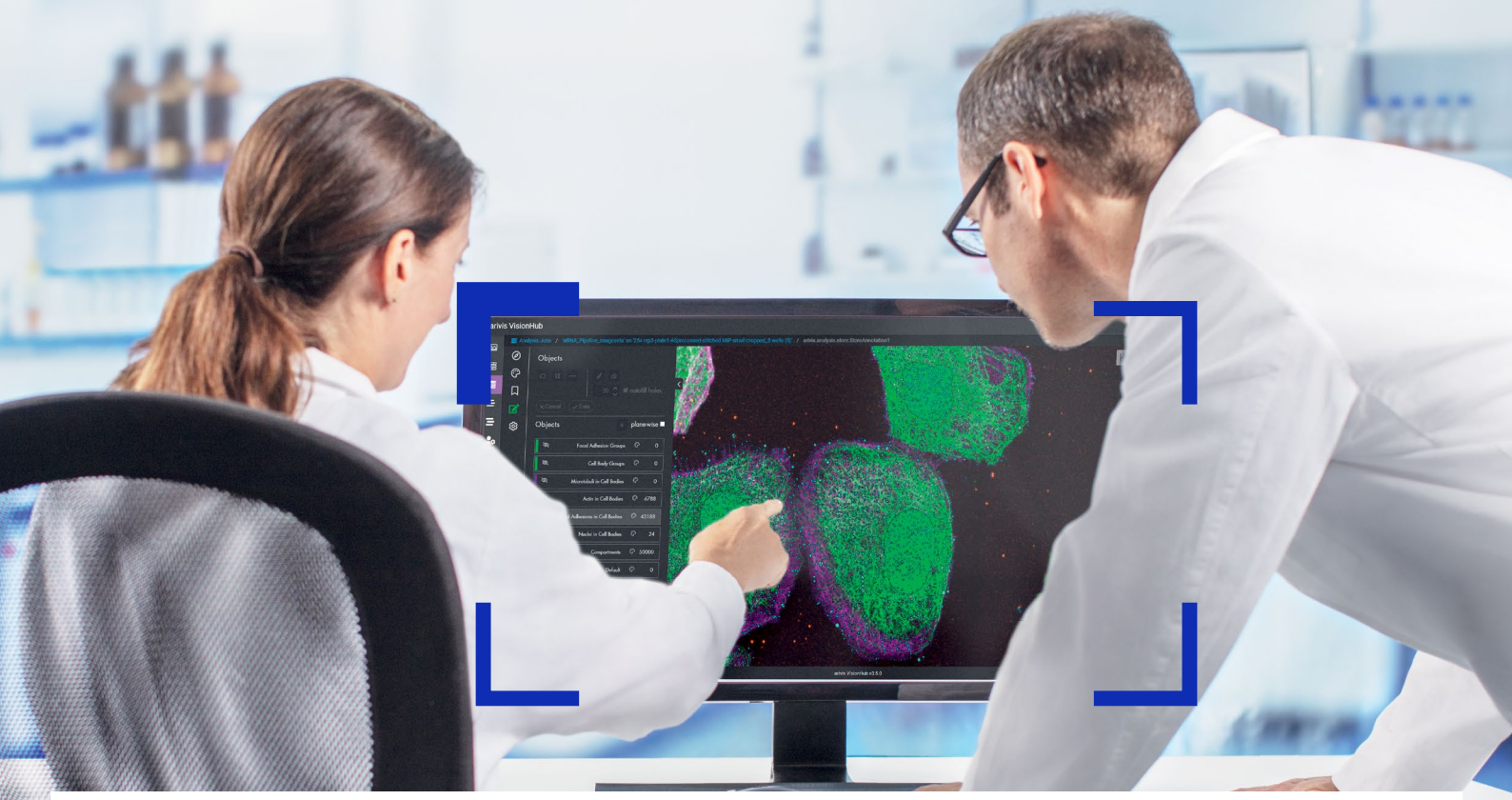
# Scale Up Your Image Analysis.




## ZEISS arivis Hub

Scalable, parallelized processing on local, cloud, or hybrid computing environments.

arivis.com/products/hub

ZEISS

Seeing beyond

# **Accelerated Throughput for Faster Results.**
Computation, collaboration and parallelized analysis.

**Easy image processing and data management, accessing, sharing and analyzing images at scale**

ZEISS arivis Hub enables researchers in diverse scientific and industrial applications to streamline image analysis on a large scale providing faster results.

Whether datasets are already stored or are being actively acquired, ZEISS arivis Hub handles images from a diverse range of imaging systems with ease.

A centralized system, either on local servers or in the cloud, ZEISS arivis Hub allows users to efficiently organize and share their imaging data.

With multiple analysis resources deployed in parallel, users can simultaneously process an array of images with various pipelines, thereby reducing overall completion times for projects.

arivis Hub

**Image management**
- Centralized location for all imaging data
- View multi-dimensional images (2D, 3D, time-series, etc.)
- Flexible deployment on-premise or in the cloud (on your or a ZEISS-hosted AWS/Azure system)
- Agnostic platform allows import of a diverse range of image formats
- Quick search and retrieval of images

**Automated workflows**
- Easy data ingestion via automated import
- Automated workflows based on analysis pipelines created in ZEISS arivis Pro
- Configure multiple folders for automatic file watching in ZEISS arivis Hub

**Scalable image analysis**
- Modular system to add analysis resources, scaling to your needs
- Flexible allocation of computing resources, ramp up or reduce as needed, save costs
- Tailored workflows for 2D/3D High Content Screening allow for well-level aggregated results in a well plate heat-map for easy quality control
- Handling of large, multi-dimensional image datasets

**Analyze images from a multitude of instruments**
- Lightsheet Microscopy
- Confocal Microscopy
- Multiphoton Microscopy
- Widefield Microscopy
- Electron Microscopy
- Super-resolution Microscopy
- Computer
- CT/uCT/MRI
- X-Ray Microscopy

**Collaboration**
- Access and sharing of microscopy data and analysis results from anywhere
- Browser access means collaborators don't need to install software
- Powerful 3D in-browser rendering

**User access management**
- Role definition to control access and permissions
- Share imaging data easily, collaborative image viewing
- Simplifies authentication with single sign-on (SSL) integration

**Deep Learning**
- Deep Learning models created in ZEISS arivis Cloud combined into your analysis pipeline to scale it across many images in parallel
- Supports open-source models, such as Cellpose

# **Break Through the Image Analysis Bottleneck.**
Automation, scalability, and speed.

**Overcome the challenge of large-scale image analysis**

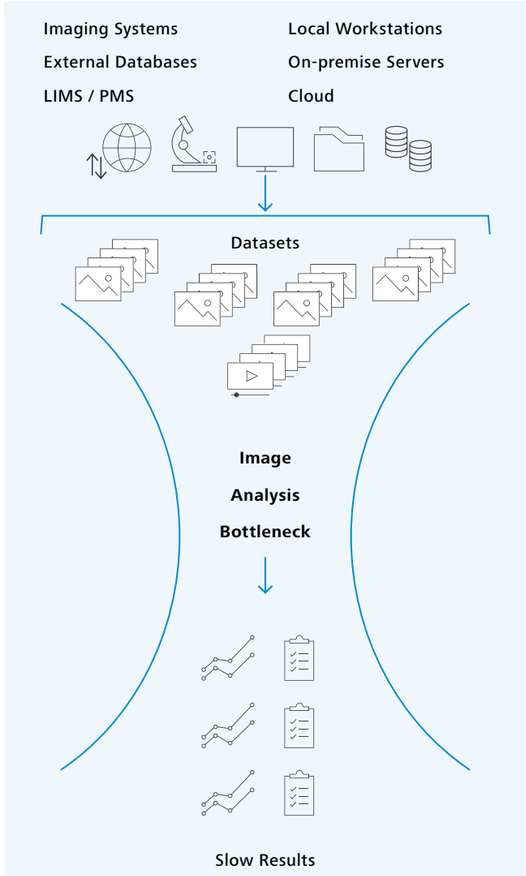
Analyzing thousands of images to uncover crucial details can be a daunting task amidst vast datasets. The challenge is not to miss that one detail you need.

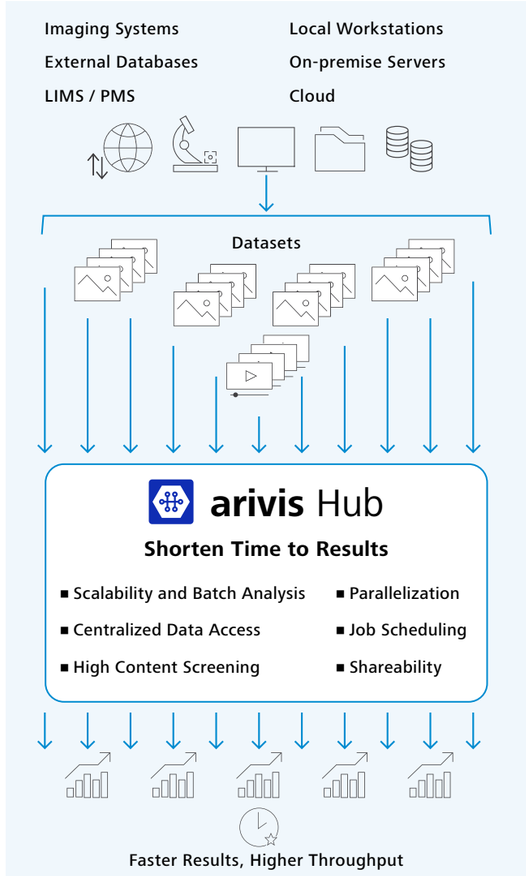
With an ever-increasing amount of imaging data being produced from a range of systems at core imaging facilities to CRO's and pharma, it is becoming ever more critical to consolidate imaging data.

Avoid data redundancy with data silos and disparate analysis workflows. ZEISS arivis Hub allows for a centralized system offering streamlined data ingestion and analysis for wide-ranging file types.

With optimized resource allocation, you maximize computing potential while minimizing inefficiencies like wasted space, energy consumption, and control costs.

Break free of the image analysis bottleneck with ZEISS arivis Hub.



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