



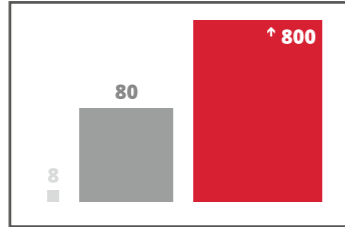
**Digitization  
of Microbial  
Specimen**

Metafer  
Customization  
Package  
**Gram Imaging**  
*Not Intended for Diagnostic Use*

Automated Specimen Processors (e.g., Copan WASPLab®)

### CASE DATA TRANSFER

Once Gram slides become available, Metafer can read in detailed processing protocols from the LIS and will create respective scanning tasks.

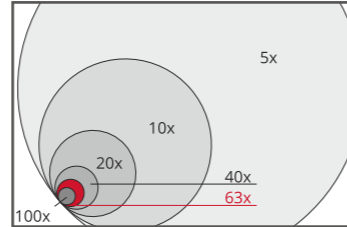


#### Scalability

Metafer software supports specialized hardware which allows to flexibly adapt the throughput to the respective requirements. Thus, from 8 up to 800 slides can be digitized in one run.

### DENSITY OPTIMIZATION

Using a low magnification lens, Metafer generates a sample overview and identifies the regions of interest based on the density of the sample.

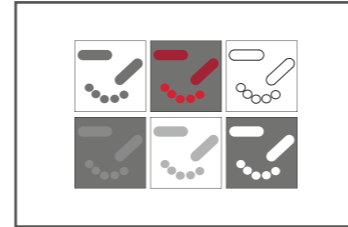


#### Flexibility

Metafer users can choose from many different magnifications. Thus, overview scans can be combined fully automatically with high-resolution imaging.

### HIGH-QUALITY DIGITIZATION

The regions of interest are scanned at high magnification and images are stored (number and conditions of the images can be user defined).

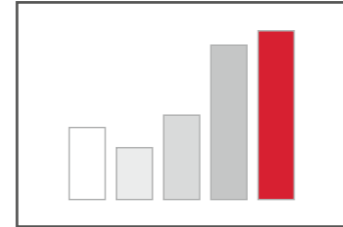


#### Versatility

Metafer supports all contrasting methods the microscope has to offer. Combining brightfield, fluorescence, phase contrast and more is easy with Metafer.

### DNN-BASED ASSESSMENT

Optionally, Deep Neural Networks (DNNs) can be adapted to allow for pre-selection and classification of objects that are presented to the experts for review.

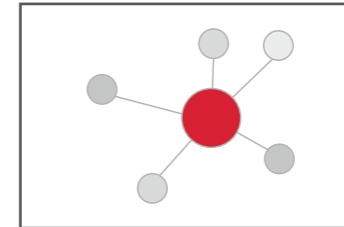


#### Intelligence

Deep Neural Networks (DNN) facilitate the automated pre-selection of target objects in the images.

### BACKLINK AND VERIFICATION

All collected data including the images are stored on a server accessible by all stations. A link is published allowing for direct access to the data from other softwares.



#### Connectivity

Digitized samples are accessible in the network and can be loaded to the analysis panels of other softwares.

Digital Microbiology Application (e.g., WASPLab® Webapp)





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MetaSystems software provides, among other functions, features to assist users with image processing. These include, but are not limited to, the use of machine and deep learning algorithms for pattern recognition. The output generated in this process should be regarded as preliminary suggestions and, in any case, mandatorily requires review and assessment by trained experts.

MetaSystems offers **Customization Packages** for application workflows that have been successfully implemented for customer labs using standard Metafer platform functionality. It is expected that they can be implemented for other customer labs using similar workflows and slide preparation procedures. If a Customization Package is purchased, MetaSystems product specialists will - based on their experience from other similar application cases - support the customer lab in adapting the Metafer software configuration to their needs. The performance of the solution will depend on the quality of the customer slides and the expertise of the users, MetaSystems cannot specify or guarantee any performance parameters. The validation of the solution for clinical use is the sole responsibility of the customer lab.

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## CONTACT US

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