

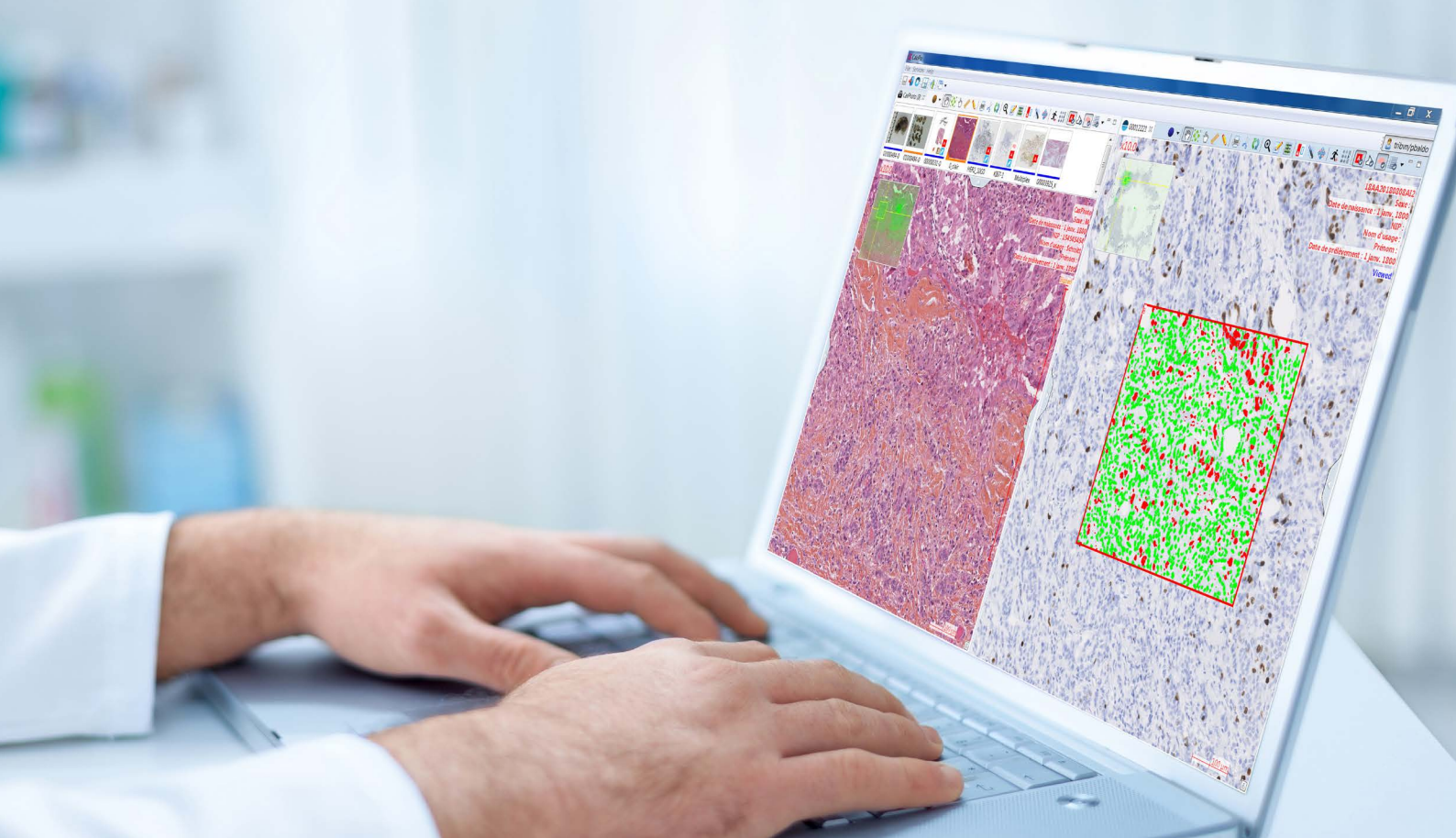


Organize, visualize, analyze and share  
your digital slides



CaloPix is the pathologist's digital workstation. With its powerful universal viewer, the software integrates a dynamic vision of cases for a high work efficiency. Its clinical applications for image sharing and analysis can be used directly in the viewer.





CaloPix is used in pathology, histology or hematology laboratories to manage all microscopic and gross imaging. Connected to the laboratory's information system, it allows secure browsing of folders.

#### A universal, fast and ergonomic viewer

- Viewing all image formats
- Local or remote consultation with virtual multi-headed microscope
- Monitoring the reading status of the slides
- Structured annotations and measures
- Compatible with mouse, touchpad, joystick and trackball
- Synchronization and rotation of several slides simultaneously
- Automatic slide orientation
- Quick snapshot function

#### A complete workflow, from production to image archiving

- Control of gross and microscopic cameras for image production
- Automatic import of virtual slides
- Virtual slide trays
- Searching images with queries in the database
- Creation of personalized and dynamic worklists

- Management of the laboratory workflow in connection with the LIS (patient data) via a standard HL7
- Data security and traceability
- Interaction between users with messages
- Communication to clinical services
- Integration of key images into the PACS

#### Tools for clinical applications

- Image analysis integrated into the viewer (HE, IHC, IF)
- Batch processing, classifiers, analysis management
- Detailed results by classified object
- Data export for statistics and reports
- Direct sharing to the TeleSlide platform
- CaloPix Pocket application to access folders, view and annotate images via a web browser from a PC or tablet
- Instant sharing function of a folder via a link accessible from a browser



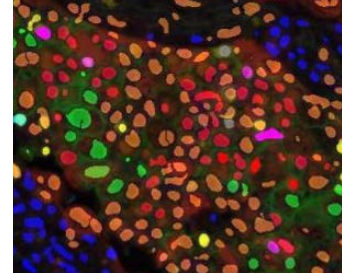
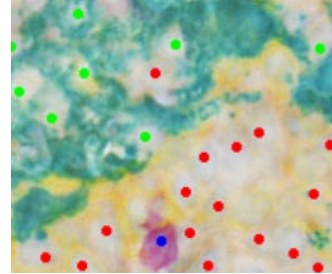
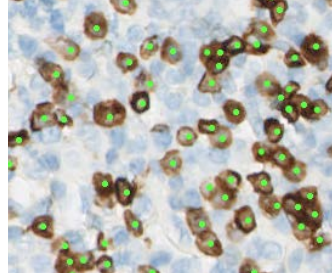
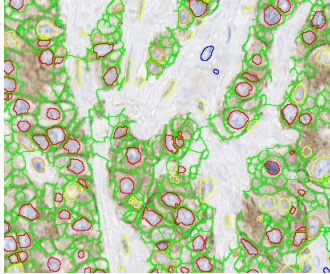
CaloPix is an in-vitro diagnostic medical device for general use, and a regulated health care product which carries the CE IVD mark. CaloPix is a registered class II medical instrument in Canada. For the rest of the world, CaloPix is for research use only. The instructions in the accompanying documentation to this software should be read carefully.



# Automatic slide series quantification with preset algorithms

## Cell Recognition – Segmentation and phenotyping of cells and objects

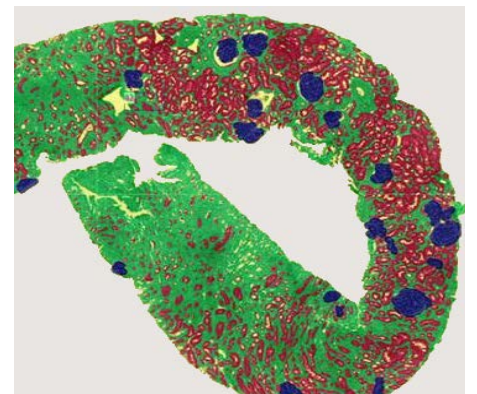
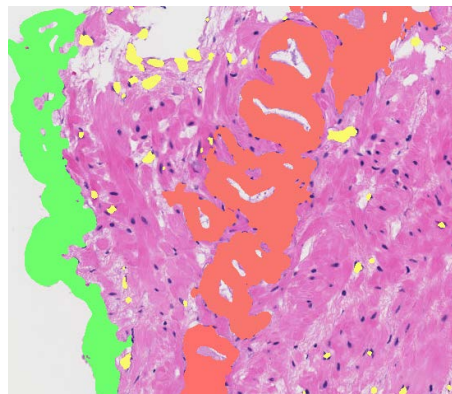
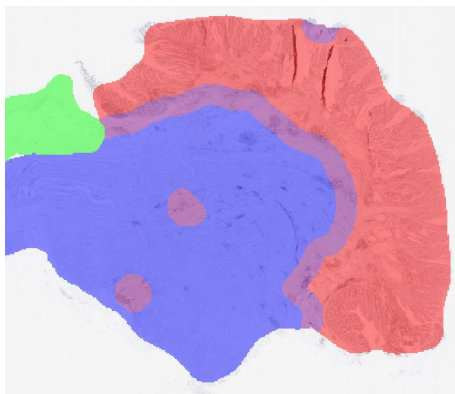
Cells and more generally biological objects are detected regardless their staining type (HE, IHC, IF, simple or multiplex) in brightfield and fluorescence using machine learning. The analysis is based on the color, edge, texture, and morphology of the objects and/or their neighborhood.



## Tissue Recognition – Recognition and segmentation of tissue classes

The algorithm maps tissues by identifying anatomical structures and regions. It allows to define the regions of analysis to be quantified and the invasion margin of the tumor.

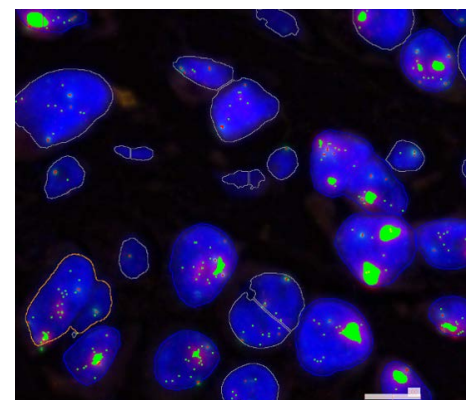
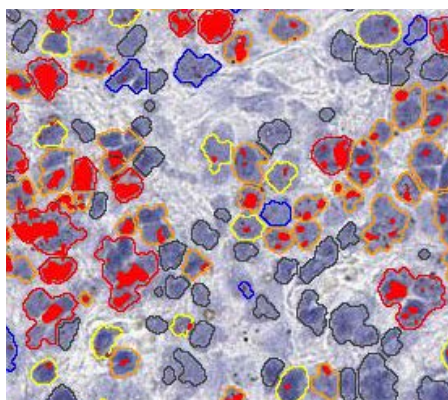
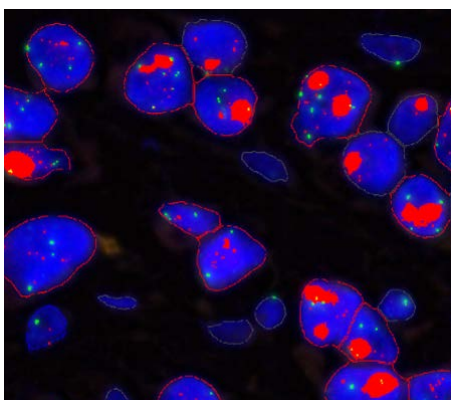
Tissue Recognition analyzes tissues (e.g. stroma vs tumor, glands vs tissue) by machine learning from learning images. The analysis is based on criteria of colors, contours, shapes and textures.



## ISH (CISH/FISH/RNA Scope) – In situ quantification on digital slides

For CISH/FISH slides, the algorithm allows to detect and quantify the gene and its control, and to segment the nuclei if necessary. The result thus proposes a number of genes and total control on a region of interest, or a classification of the nuclei based on the amplification of the gene.

For RNA Scope slides, the algorithm allows to detect and quantify the gene of interest, and to segment the nuclei if needed. The result can be a total gene number over a region of interest, or a nucleus classification based on the gene copy number.



## About TRIBVN Healthcare

TRIBVN Healthcare develops software solutions for digital pathology. Innovative and validated, they allow the management, analysis and sharing of cellular images both for diagnostic laboratories and pharmaceutical & biotech manufacturers.

In the field of image analysis, our solutions are based on the latest innovations in terms of artificial intelligence, notably deep and machine learning algorithms. These tools support physicians and researchers in their diagnostic decision-making and scientific evaluation for the sake of patients.

In the field of sharing, our solutions implement full web tools to support our customers in their telepathology, teaching or multi-centric clinical validation activities.



**Contact us**  
**[contact@tribvn-hc.com](mailto:contact@tribvn-hc.com)**

**North America**  
**+1 438 795 7182**

**United Kingdom**  
**+44 7484 654 342**

**Europe**  
**+33 1 55 58 05 20**

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