



OPHTHALMOLOGY

EXPERT IN COMPUTER VISION
TO ENHANCE HUMAN VISION

OPHTHALMOLOGY SOFTWARE
SOLUTIONS

30 YEARS, ONE OBSESSION: MAKING EVERY **EYE IMAGE COUNT**

ADCIS is a software company specialized in image processing, with a **special focus in Ophthalmology**.



COMPANY



Headquarter in **Caen**, Subsidiary in Minneapolis, USA : Adcis Inc



Created in **1995**



Publisher of **Aphelion** software (image processing suite)



Pure player of **Computer Vision**, Deep Learning and 3D modelization applications and software



Subsidiary of **Evolucare group**, international software publisher in healthcare market

KEY FIGURES 2026

30 YEARS

Of experience in computer vision

50

Countries

3000

Aphelion users

15

Partners
(integrators and distributors)

12

Engineers /
PhD team

100

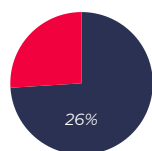
Applications developed
for our customers

30 YEARS, ONE OBSESSION: MAKING EVERY EYE IMAGE COUNT

ADCIS is a software company specialized in image processing, with a **special focus in Ophthalmology**.

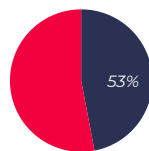


PRINCIPAL ACTIVITIES



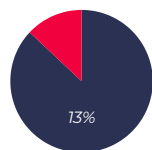
Software publishing

Aphelion as a generic image processing software IP in specialized software and specializes modules



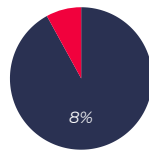
Customized projects

On-demand software developments for customers and partners



R&D projects

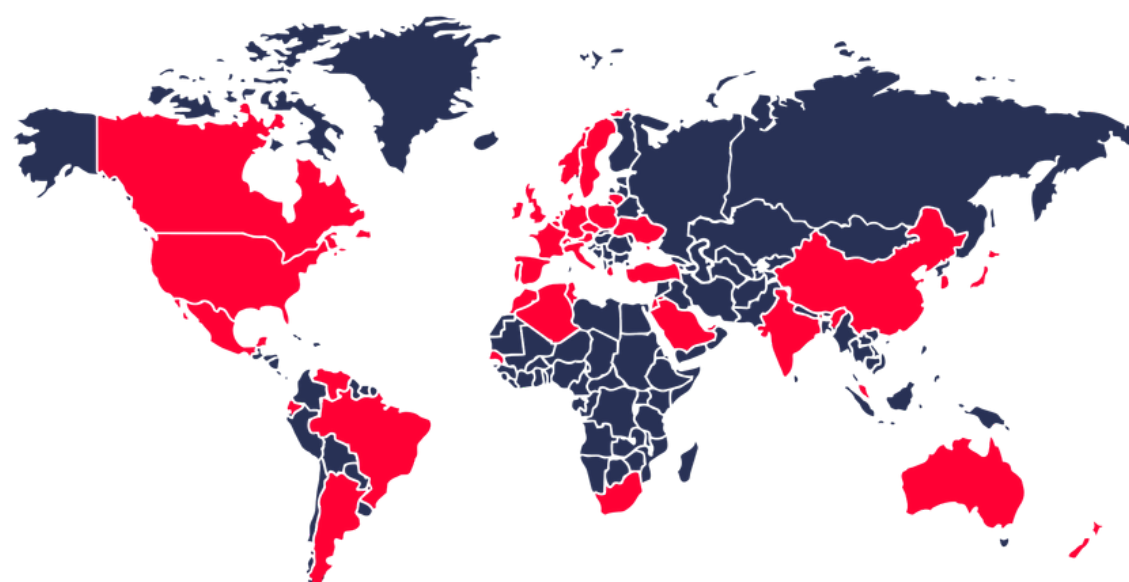
Innovative software developments to build IP via R&D projects



Services

Trainings, Supports, Consulting

+ 500 CUSTOMERS ALL OVER THE WORLD



FROM THE RETINA TO THE CONTACT LENS : 30 YEARS OF **OPHTHALMIC IMAGING EXPERTISE**

ADCIS provides **clinical & diagnosis software solutions**
in a wide field of ophthalmological specialities.



CLINICAL EXPERTISE IN...



Retina



Eye surface



Cornea



Contact Lens
design

A STRONG CULTURE OF PARTNERSHIPS

WITH **INDUSTRY**



WITH **RESEARCH**

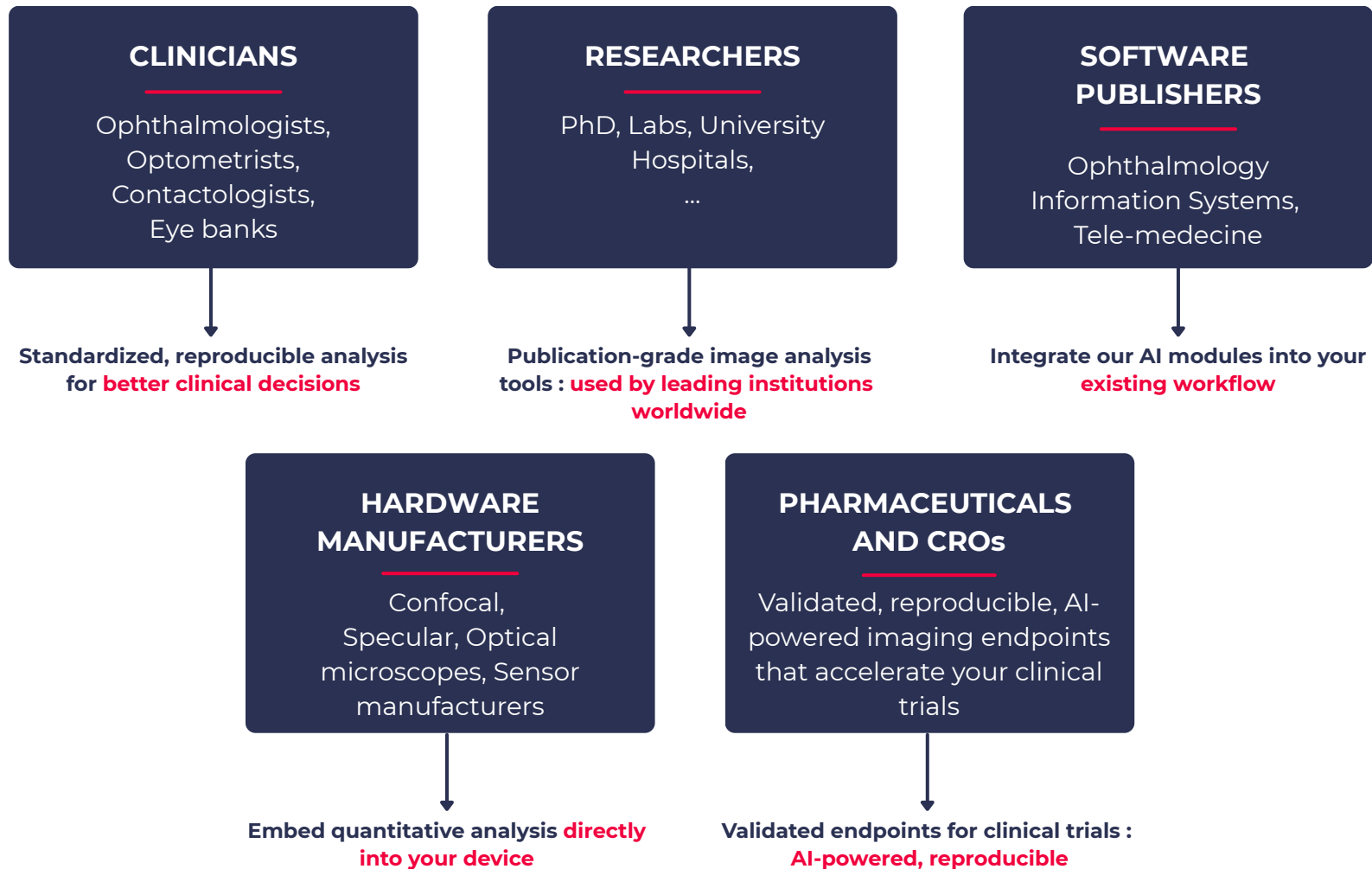


WITH **CLINICAL INSTITUTIONS**



WHOEVER YOU ARE IN THE **OPHTHALMIC ECOSYSTEM**

We have a **solution for you**



WHAT MAKES ADCIS DIFFERENT?



MOST IMAGING SOFTWARE COMPANIES ARE EITHER COMPUTER VISION EXPERTS OR CLINICIANS. **ADCIS IS BOTH**

Thirty years ago, we made a choice : don't choose.

ADCIS was built at the intersection of two worlds, rigorous computer science and deep clinical practice.

The result is software that doesn't just process images. **It understands what clinicians actually need to see, measure, and decide.**

Mathematical morphology + deep learning, the technical depth to tackle the hardest imaging problems.

30 years of ophthalmologic partnerships, **built alongside clinicians, not just for them.**

Validated in peer-reviewed publications, our algorithms don't just work in the lab. **From research prototype to clinical-grade tool, we don't stop at proof of concept.**



OUR CLINICAL SOLUTIONS BUILT FOR EVERY STAGE **OF THE EYE EXAM**

From corneal endothelium to retinal fundus, each ADCIS solution is designed for one thing: **giving clinicians and researchers a number where today there's only a subjective assessment.**

ADCIS CORNEA DIAGNOSIS APPLICATIONS FOR CLINICAL **RESEARCH**

ADCIS leverages dedicated tools and expertise **in Computer Vision.**



GUTTEYE

Fuchs dystrophy is number 1 indication for a cornea graft



Fuchs dystrophy automatic grading

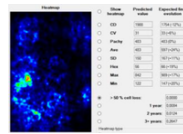
2D images of endothelial cells of the in-vivo cornea

Specular microscope



CORNAI

AI-based cornea graft success rate prediction



In-vivo post-graft cell analysis for success prediction

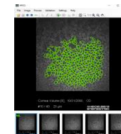
2D images of endothelial cells of the in-vivo cornea

Specular microscope



ARIES

Longit. analysis of drug effects on cornea cells



Wing, Immune cells and nerves segmentation and measures

2D images of epithelial cells

Confocal microscope



DRYAI

Dry eye automatic grading



Standardized and quantitative grading of eye dryness symptoms

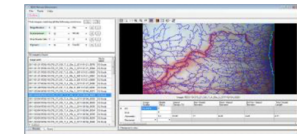
2D images of eye surface

Meibography device



REDAI

Eye redness automatic grading



Standardized and quantitative grading of eye redness pathology

2D images of eye surface

Smartphone camera



ADCIS SOFTWARE PRODUCTS



GUTTEYE

The imaging endpoint your Fuchs dystrophy clinical trial actually needs

- Automates guttae segmentation in specular **microscopy images in seconds**
- Delivers an objective, **reproducible GAR% score**, replacing subjective Krachmer grading
- Detects early disease progression, reducing clinical trial timelines from years to months
- Validated in collaboration with **Dr. Mark Greiner's team, University of Iowa**

CORNAI

Every corneal graft deserves a second look, over time

- Tracks endothelial cell morphology longitudinally after corneal transplantation
- Provides standardized, quantitative metrics to **predict graft success**
- Replaces manual cell counting with automated, reproducible analysis
- Developed in partnership with the **Singapore Eye Research Institute**

KERIFY

Know before you transplant

- **Assesses ex-vivo corneal tissue quality** for eye banks prior to grafting
- Delivers objective grading to support graft selection decisions
- Reduces subjectivity in tissue evaluation with **AI-powered image analysis**
- Compatible with **standard industrial camera** used by eye banks

ADCIS SOFTWARE PRODUCTS



OPHTAI

Retinal pathology screening, fast, objective, scalable

- AI-based detection and grading of major **retinal pathologies from fundus images**
- Designed for clinical screening workflows and large-scale epidemiological studies
- Provides a standardized output **compatible with telemedicine platforms**
- Reduces reading time while maintaining diagnostic reliability

DRYAI

Put a number on dry eye, finally

- Automates grading of dry eye symptoms from **meibography and eye surface images**
- Delivers a standardized, quantitative score replacing visual subjective assessment
- Enables consistent patient **follow-up and treatment response monitoring**
- Compatible with standard meibography devices

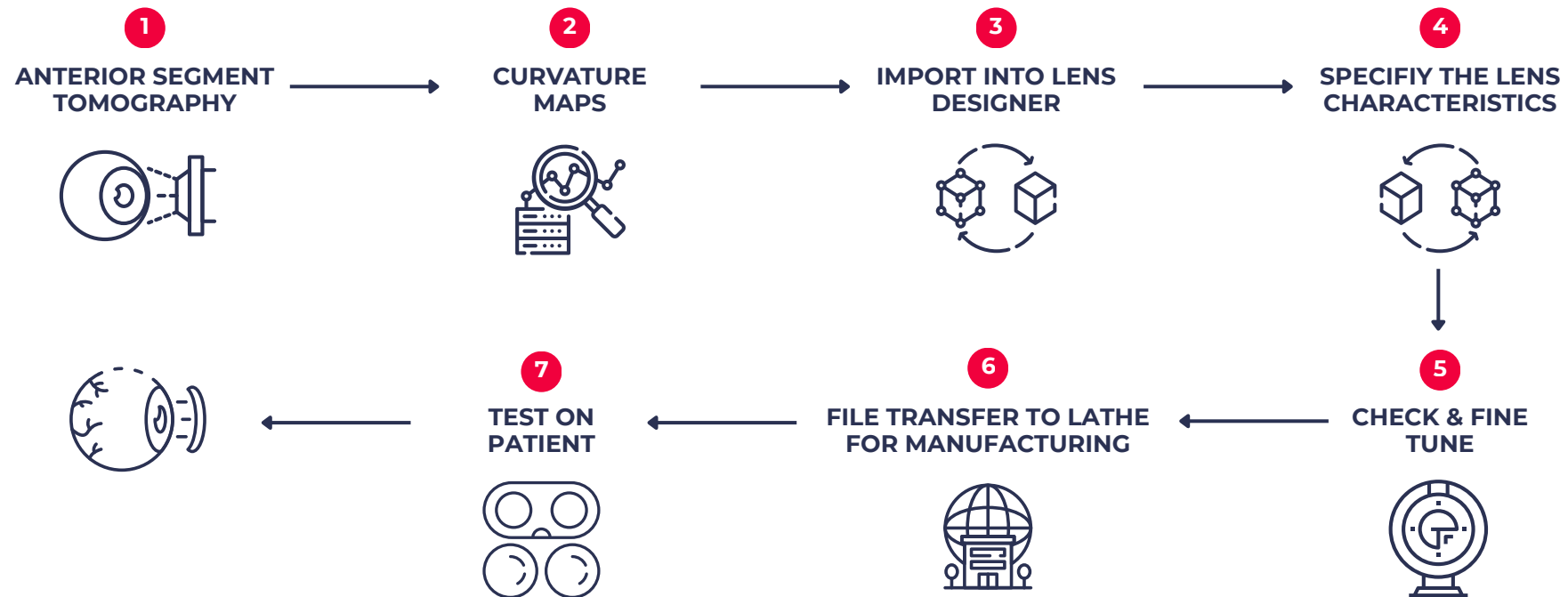
APHELION

The platform that powers all our solutions (and can power yours too)

- **Aphelion LAB** : Quickly compute measurements and generate analysis reports
- **Aphelion DEV** : Prototype various types of image processing applications
- **Aphelion SDK** : Quickly develop and deploy imaging applications using Visual C++, Visual Basic or C#

CUSTOMIZED LENS 3D MODELING APPLICATION

A contactology web portal covering the end-to-end **scleral lens prescription and design workflow**.



ADCIS FREEFORM LENS **DESIGNER**



A cutting-edge web platform democratizing the fitting of **scleral lenses**

ADCIS Freeform Designer is an intuitive web platform that enables contactologists to **design and adapt freeform scleral lenses for their patients, end-to-end, from topography to lens order.**

- **Compatibility :** works with leading topographers (Pentacam CSP, Eaglet ESP, Tomey Casia 2) and lathes (Optoform, DAC), plus anterior OCT segment reconstruction
- **Designs :** supports all types of scleral lenses: freeform, toric, spherical, or proprietary designs
- **Functionalities :** fully digitalized workflow: corneal topography import, optical parameters, design modifications, lens ordering
- **Views :** 2D meridian view, 3D lens reconstruction, fluorescein simulated view, clearance view



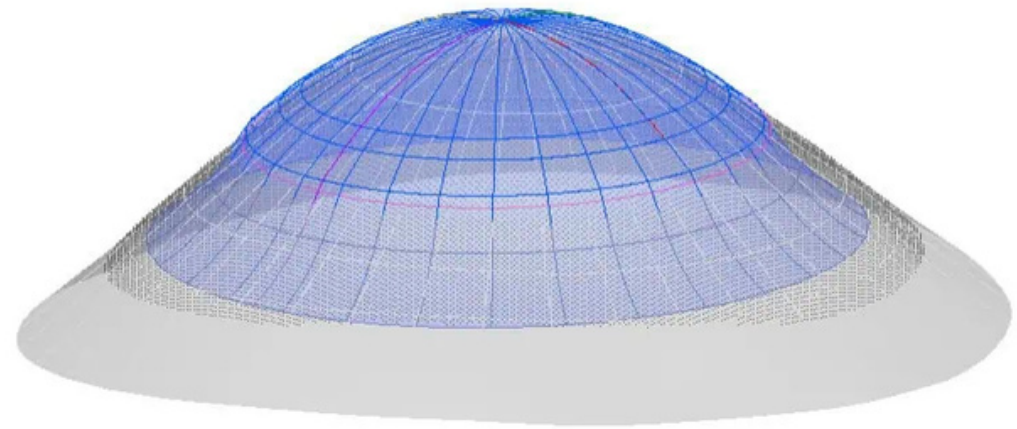
WHY ADCIS FREEFORM DESIGNER ?



A unique platform designed for **lens laboratories and prescribers**

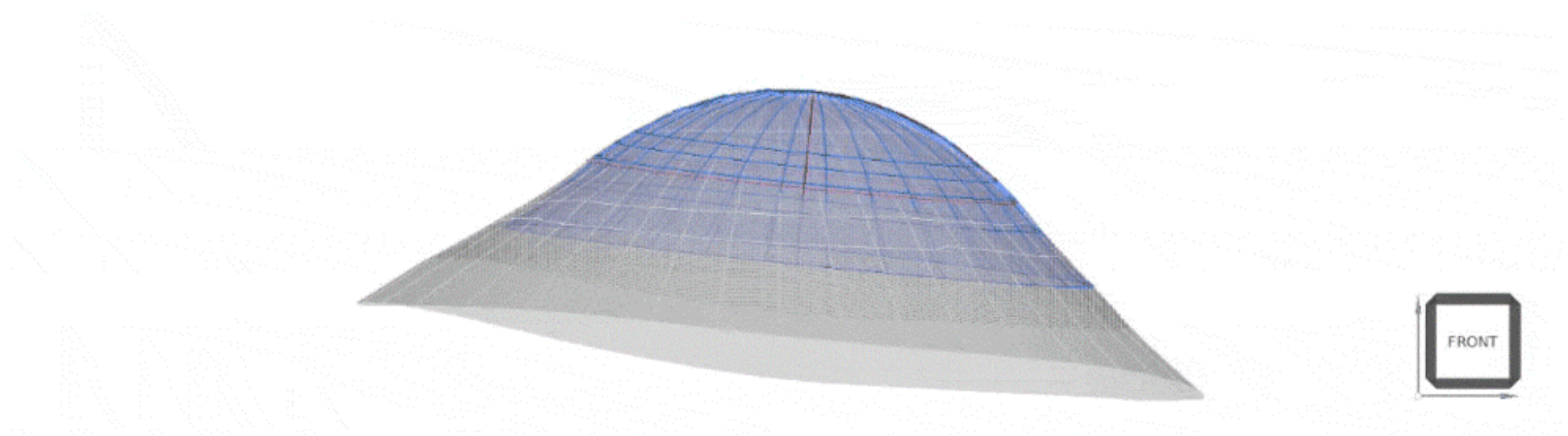
Developed in close collaboration with a scleral lens laboratory, ADCIS Freeform Designer combines **clinical expertise and cutting-edge technology to set a new standard in custom lens fitting.**

- **Comfortable lenses** : designs based on patient corneal topography and advanced optical parameters
- **Intuitive experience** : user-friendly for practitioners of all experience levels
- **Independent approach** : continuously updated compatibility with the most popular topographers and lathes on the market
- **Configurable setup** : freeform lens parameters defined according to each lab's specific requirements
- **Flexible pricing** : mix of CAPEX for customization and OPEX for hosting, service and maintenance



CUSTOMIZED LENS 3D MODELING **SOFTWARE**

3D web viewer to display and edit computed
freeform scleral lenses



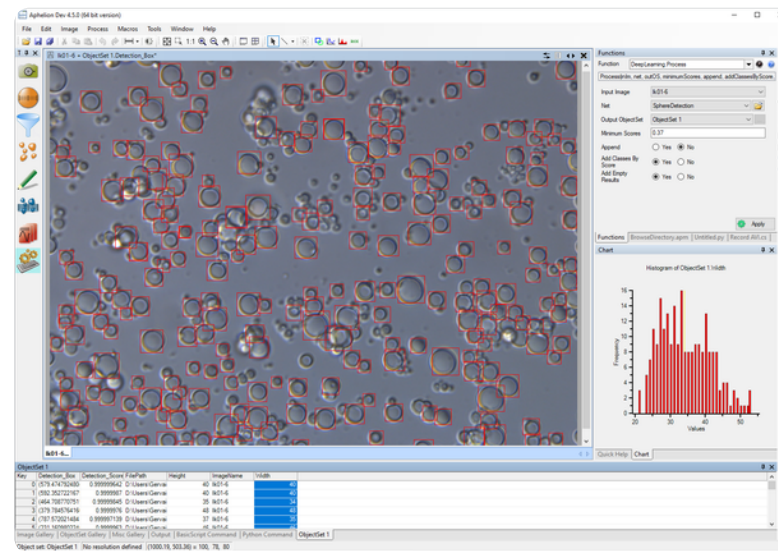
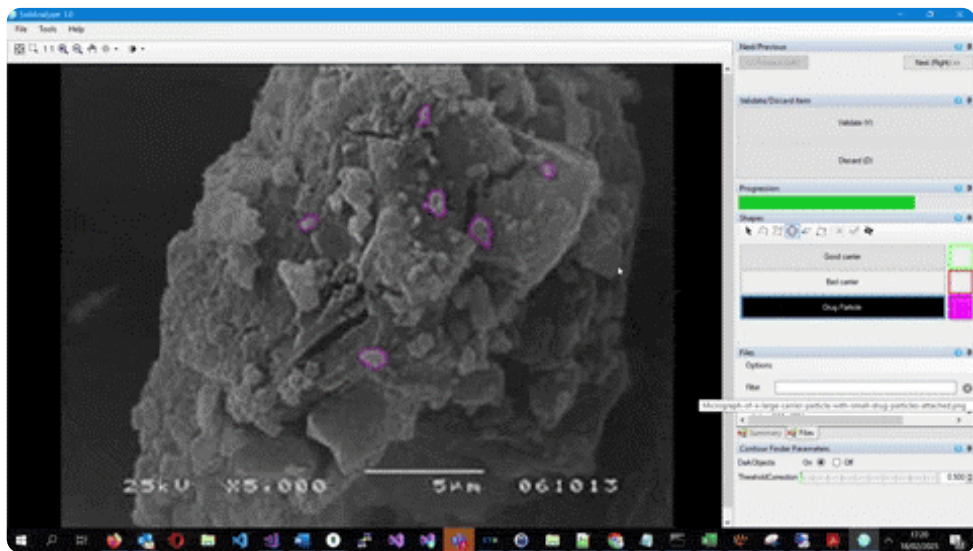
- 3D viewer of **any kind of point clouds**
- Depth **map view**
- Specific tools for **editing the scleral posterior face**
- Web solution, hosted by **AWS**
- Examples of supported file formats: **STL, BREP**
- Modular approach for a **simple integration in 3rd party's App**

TRAINING AN AI MODEL IS ONLY AS GOOD AS YOUR **ANNOTATIONS**

Annotate eliminates the **bottleneck**



The success of an AI project depends on the **quality** and **quantity** of the annotations of the training dataset. However, **annotation** is a long, repetitive process that requires advanced technical skills.



BOOSTED BY AI, ANNOTATE IMPROVES THE **QUALITY AND QUANTITY OF ANNOTATED DATA** :

- Annotate your dataset 3x faster : with AI-assisted pre-labeling
- Shorter project cycles : your model improves with every iteration
- Team annotation made simple : roles, validation workflows, and version control built in

ADCIS INVOLVEMENT IN RESEARCH PROGRAMS



EviRed : a national research program to classify diabetic retinopathy with AI.
3,000 patients. 12 centers. ADCIS at the core.

NATIONAL RESEARCH PROJECT : **INTELLIGENT EVALUATION OF DIABETIC RETINOPATHY FOR A MORE MEDECINE.**

EviRed uses **artificial intelligence** and **multi-modal** imaging to build a **new classification** of diabetic retinopathy for an improved diagnosis, prediction and treatment of the patient :

- **Artificial Intelligence** : combines the Deep Learning expertise of LATIM laboratory and ADCIS engineers
- **Multi-modality** : includes ultra widefield fundus photography, optical coherence tomography, OCT-angiography
- A dedicated **reading center** has been created to support the project, annotate the images as a basis for Deep Learning algorithms training

ADCIS and Evolucare role: annotation software, multimodal viewers, deep learning algorithms, IT infrastructure.

EviRed

ADCIS INVOLVEMENT IN RESEARCH **PROGRAMS**

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KEY FIGURES



3 000 PATIENTS



12 CENTERS



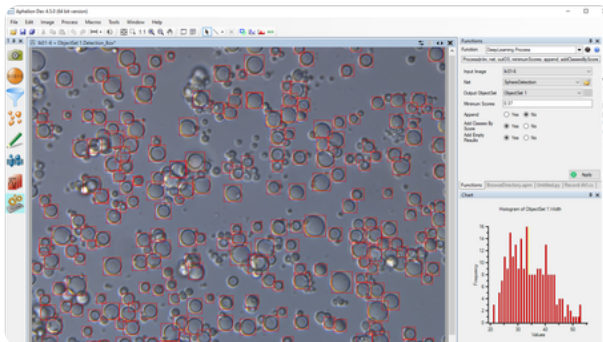
2 YEARS OF FOLLOW-UP

ADCIS ALSO SERVES OTHER **INDUSTRIES**



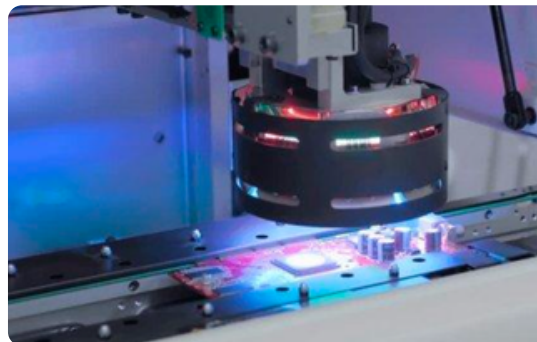
SPECIFIC SOFTWARE PRODUCTS FOR YOUR AI APPLICATION DEVELOPMENT

- Annotate
- Aphelion



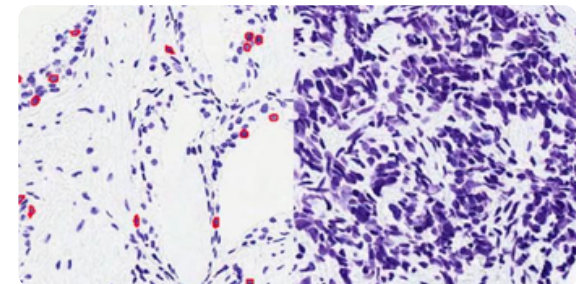
AI-ENABLED MANUFACTURING VISUAL INSPECTION

- Automatic part inspection during manufacturing (Medical device...)
- Sorting



DIGITAL IMAGE PROCESSING

- Deep Learning
 - Detection
 - Diagnosis
 - Segmentation
- ADCIS applications customization



COMPANIES WHO
TRUST **US**



OUR MAIN CUSTOMERS





LET'S TALK ABOUT YOUR IMAGING **CHALLENGE**

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