ophtAI
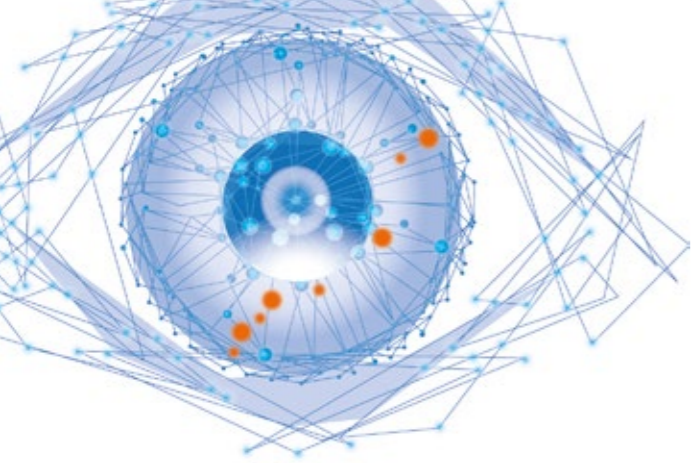
Artificial Intelligence
for eye disease screening

ophtAI

Artificial Intelligence for eye disease screening

AN AUTOMATED HELP FOR SCREENING **DIABETIC RETINOPATHY**

- **Medical device (DM CE classed IIa)**
- Compatible with most retinographs: fixed or handheld, DICOM or not
- Image quality assessment
- Detection of diabetic retinopathy
- Suggested course of action
- Lesion mapping superimposed on retina photo:
  - Aneurysms
  - Haemorrhages
  - Cotton-wool nodules
  - Exudates
  - Neovessels
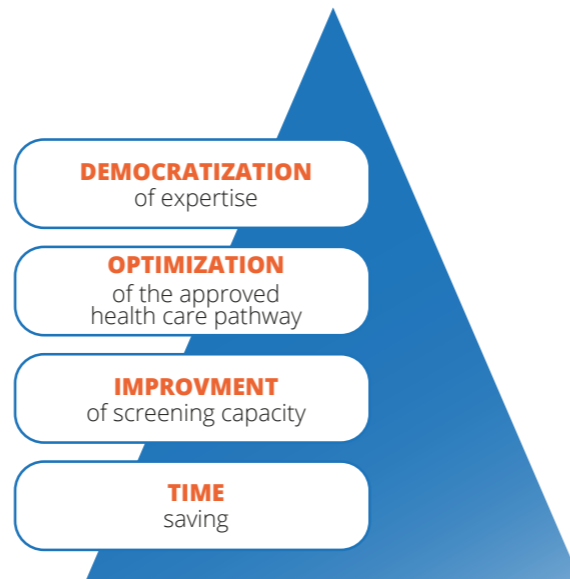
ophtAI DR
for **Diabetic Retinopathy**

$(A_z = 0.989)$
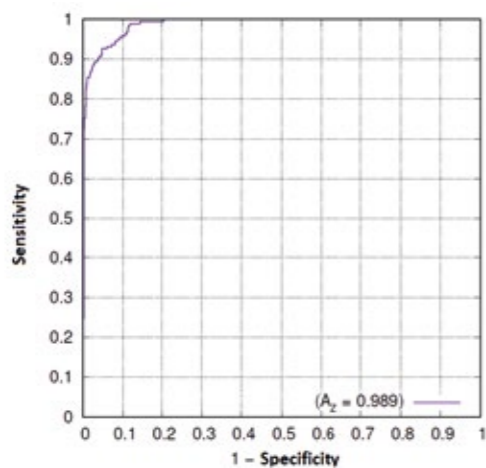
Response Time	**< 3s**
Sensitivity	**99%**
Spécificity	**87%**

Sensitivity: *proportion of correct results in patients with Diabetic Retinopathy*

Specificity : *proportion of correct results in patients without Diabetic Retinopathy*

(Pyramid)

- **DEMOCRATIZATION** of expertise
- **OPTIMIZATION** of the approved health care pathway
- **IMPROVMENT** of screening capacity
- **TIME** saving

OTHER RELATED PATHOLOGIES

- **Glaucoma**
- **AMD**

▶ **CE and DM Marking in progress (available in 2020)**

Coming: 41 other pathological signs

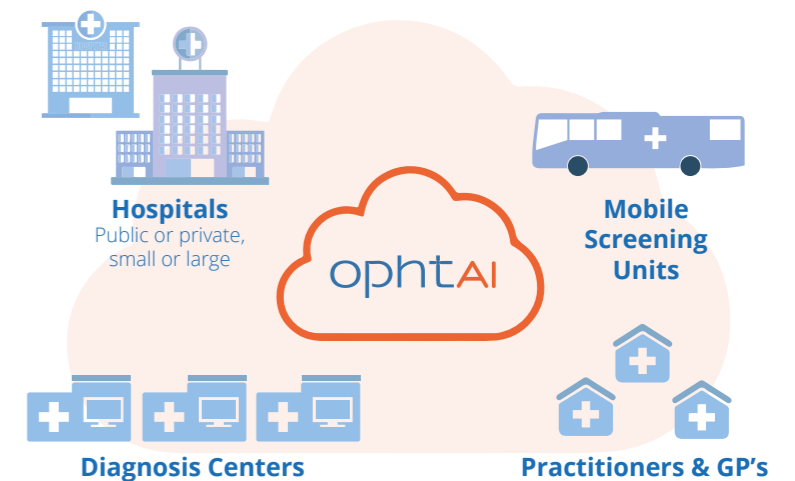## INTERNATIONAL SPREADING FOR A GLOBAL SOLUTION

Privileged partnership with Microsoft AZURE
Certified **HDS** (Health Data Hosting)

## INTEGRATED ON-DEMAND SERVICES IN ALL BUSINESS SOFTWARES

Use case / targets

- Screening network
- Reading centers
- Multi-sites (ophthalmologists/ orthoptists)
- Ophthalmological clinics
- Hospitals
- ...

Hospitals
Public or private, small or large

Mobile Screening Units

Diagnosis Centers

Practitioners & GP's

�e evolucare
ophcare

OFFER ALREADY AVAILABLE ON EVOLUCARE SCREENING PLATFORM

First tele-screening platform in France
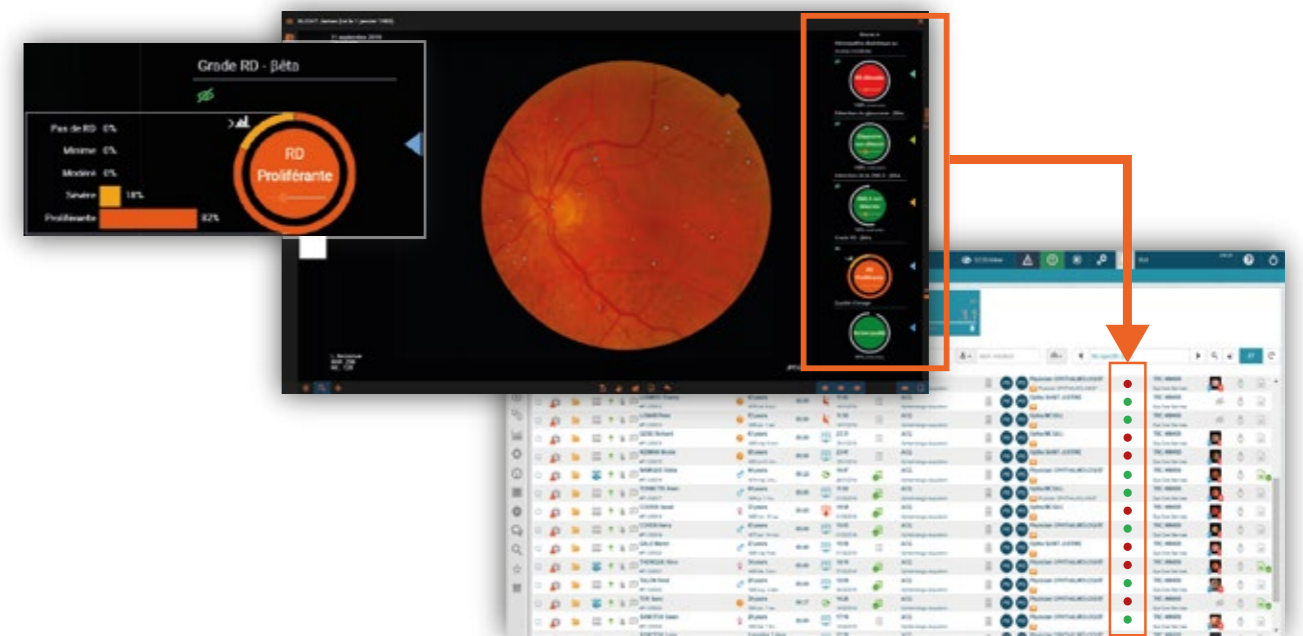
- Available everywhere (Full Web) / national platform – offline mode possible
- Workflow organization between orthoptists and ophthalmologists
- Interoperable with other information system
- From the appointment scheduling and to the electronic treatment form invoicing
- Sending of reports via secure messaging
- Tracking history
- Other possible cooperation procedures (MURAINE)
- Data security through an **HDS** platform
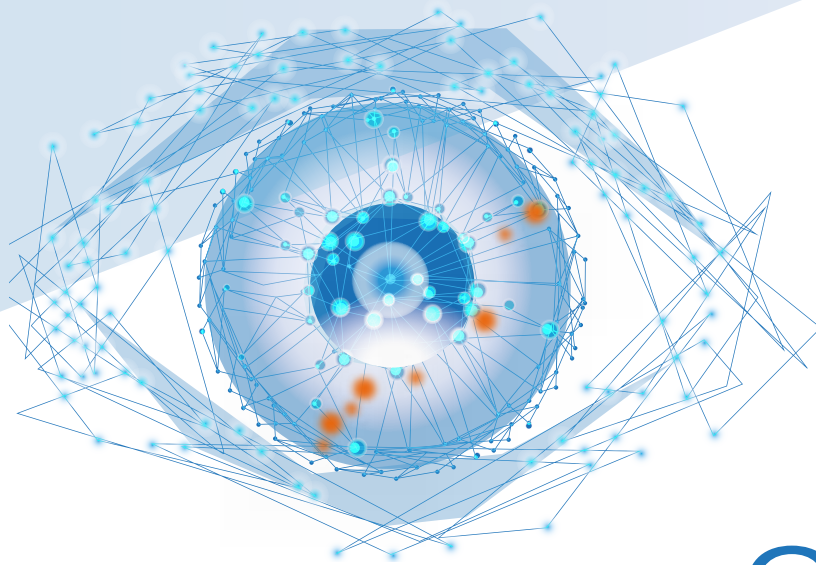
ophtAI

A joint venture born from two experts

ADCIS

Specialist in image processing for ophthalmology

Artificial Intelligence

25 years of experience

A few references:
- Alcon
- Allergan
- Novartis
- Pfizer

evolucare

Leader of health information system

Electronic medial record
Healthcare organization

30 years of experience (publisher of the tele-ophthalmology platform **Ophcare** since 2004)

A few numbers:
- 300 employees
- 4 500 customer sites
- +160 000 patients followed-up daily

A collaborative research project realized with

ASSISTANCE PUBLIQUE HÔPITAUX DE PARIS

Inserm

www.ophtai.com

contact@ophtai.com
+33(0)3 22 50 37 90