

LAUNCH WEBINAR

# Optomed Aurora IQ

Introducing Optomed Plc

*Seppo Kopsala, Founder & CEO*

**OPTOMED**





# Contents

- Market
- Optomed Corporation
- Aurora IQ
- Optomed & AI

# Global megatrends increasing demand for eye examinations

## Aging population

Prevalence of serious eye diseases (causing vision loss) increase strongly with age<sup>1)</sup>



Fundus screening & diagnostics



## Diabetes growing

Diabetic Retinopathy (causing vision loss) affects ~35% of all diabetics but can be prevented by laser treatment<sup>2)</sup>

## Artificial intelligence (AI)

Technological advances in artificial intelligence enable faster diagnostics<sup>3)</sup>



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1) Source: National Eye Institute.; 2) Source: International Diabetes Federation. IDF Diabetes Atlas 9th Edition (2019).;

3) Du, Li & Hu. Application of artificial intelligence in ophthalmology (2018).

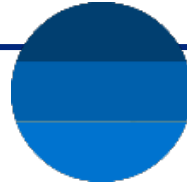
# Eye screening coverage still low

% of diabetic screened systematically <sup>(1)</sup>



**UK**

83%



**Germany**

68%



**Italy**

37-50%

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1) Source: Retinal Diseases in Europe: Prevalence, incidence and healthcare needs. University Eye Hospital Bonn (2017); 2) Source: Disparities in Adherence to screening guidelines for diabetic retinopathy in the United States: A Comprehensive Review and Guide for Future Directions, Fathy, C et.al

# Eye screening coverage still low

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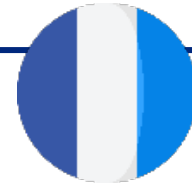
**Spain**

33-82%



**USA**

<50%<sup>2</sup>



**France**

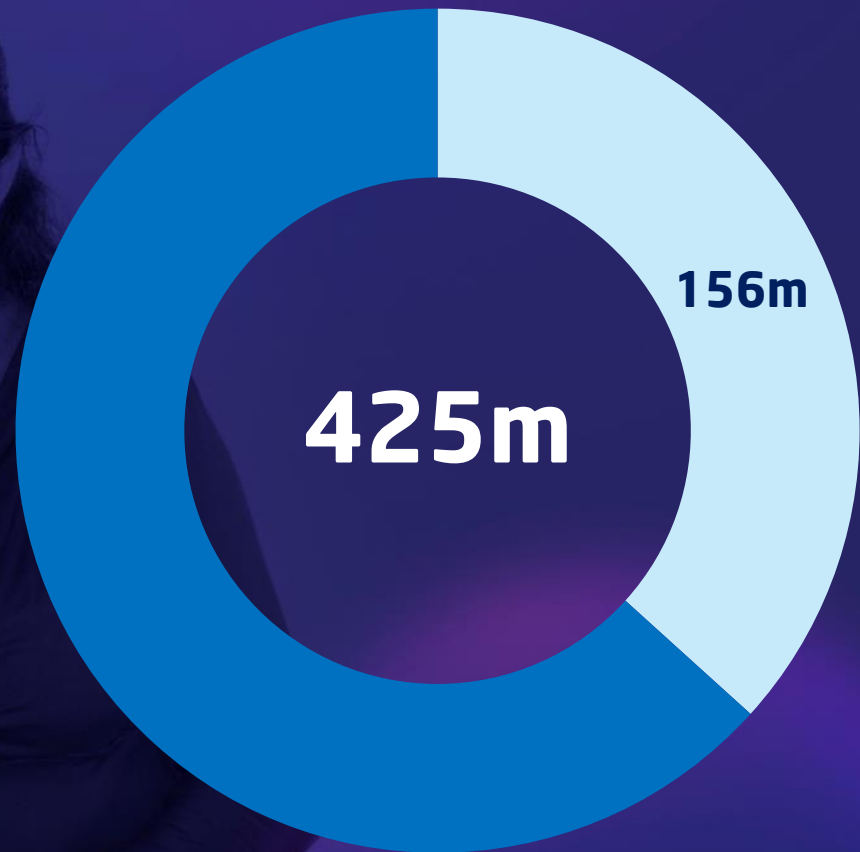
11%

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1) Source: Retinal Diseases in Europe: Prevalence, incidence and healthcare needs. University Eye Hospital Bonn (2017); 2) Source: Disparities in Adherence to screening guidelines for diabetic retinopathy in the United States: A Comprehensive Review and Guide for Future Directions, Fathy, C et.al

# Need for portable solutions

156 million diabetics  
expected to live in  
rural areas by 2045 <sup>(1)</sup>



*1) Source: IDF Diabetes Atlas 8th Edition*

# Transition from traditional desktop fundus cameras to AI integrated handheld cameras has started

Traditional equipment



Low screening coverage  
Capacity constraints

Optomed's handheld camera...



Possibility to increase  
Screening coverage

...together with AI



Possibility for increased  
Volume capabilities

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# Optomed Plc at a glance

## OPTOMED

**Established 2004**  
in Finland with the  
aim of bringing eye  
examinations to  
primary care.



OEM-partnerships  
with leading global  
ophthalmic  
instrument  
companies; **Topcon,**  
**Carl Zeiss, Volk**  
**Optical, Haag-Streit.**



**Global pioneer**  
and market leader  
in handheld fundus  
cameras. Northern  
Europe **market**  
**leader** in screening  
software.

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# Optomed Plc at a glance

**Scalable business**  
with outsourced  
manufacturing  
with a global EMS-  
partner



Well patented  
technology, **56 international**  
patents and 5  
in pending.



**Medical approvals in  
all major markets**  
including CE (Europe), FDA  
(USA), CFDA (China).

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# Optomed Plc at a glance

**Offices:** Finland;  
Oulu, Espoo,  
Tampere; China;  
Shanghai, USA;  
San Francisco.  
**110+**  
**employees.**



**Listed on Nasdaq**  
Helsinki main list  
in December  
2019.

Two  
complementary  
business  
segments:  
**Devices and  
Software**



**Sales** in over 60  
countries globally.  
**Distribution network** of  
over 55 distributors.

**OPTOMED**

# Devices and software



**Optomed  
Aurora IQ**



**Smartscope  
PRO**



**Volk  
Picture Plus  
& Prestige**



**Topcon  
Signal**



**Zeiss  
Visuscout**



**Haag-Streit  
Fundus  
Module 300**

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## Optomed Avenue

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### Avenue Screen

Optomed Screen is a workflow management software for optimizing screening processes.

### Avenue Viewer

Specialised retinal image viewer

### Avenue Telemedicine

Telemedicine solution enabling remote image analysis

### Avenue AI

Automated diabetic retinopathy screening service

### Avenue Sync

Optomed dicom interphase software to send images to hospital PACS

# OPTOMED

## AURORA® IQ

### Now with Integrated Artificial Intelligence (AI) for faster access to eye screening

- AI for identifying diabetic retinopathy
- Later AMD and suspected glaucoma
- **Results can be read from camera screen in seconds**
  - speeds-up the screening process
  - lowers costs
- Affordable and fast way to perform retinal screening
- Can be taken to any health care clinic and integrated to hospital systems



# Partnering with the Best

Optomed's strategy is to partner with leading AI algorithm companies and research teams globally to create cost effective, and fully integrated fundus camera & AI products with strong clinical validation



# Future of AI in ophthalmology

Within next years

All eye-diseases  
All eye disorders

Near-term future

Expansion to other diseases  
Neurological disorders (papilledema), kidney disease, cardiovascular risk

Future opportunities

Preventive health-check in primary care  
Eye disease, neurological disorders, Alzheimer's disease, cardiovascular disease, kidney disease, pulmonary disease

Optomed fundus cameras



Optomed AI



Optomed Software

Data storing,  
screening,  
telemedicine,  
connectivity

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**Optomed's mission is  
to prevent blindness by  
improving access to eye  
screening globally**

**OPT****MED**  
CORPORATION

Optomed is a Valued  
Supplier on the IAPB  
Standard List



# OPTOMED

CORPORATION

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