



# Optical Coherence Tomography (OCT) for Healthcare and Life Science:

## Technology and Market Trends

*As OCT is now widely adopted in Ophthalmology, what is the next big market for this technology? What are the key requirements for next OCT systems?*

### REPORT OUTLINE

- Title: *Optical Coherence Tomography (OCT) for Healthcare and Life Science: Technology and Market Trends*
- Market & Technology Report
- PDF
- 170 slides
- € 3 990 - multi user license

### KEY FEATURES OF THE REPORT

- Exclusive segmentation of the biomedical applications of OCT
- Market forecast by applications (2014-2019)
- Technology trends and future challenges
- Regulation aspects
- OCT providers and products

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## THE OCT MARKET KEEP GROWING

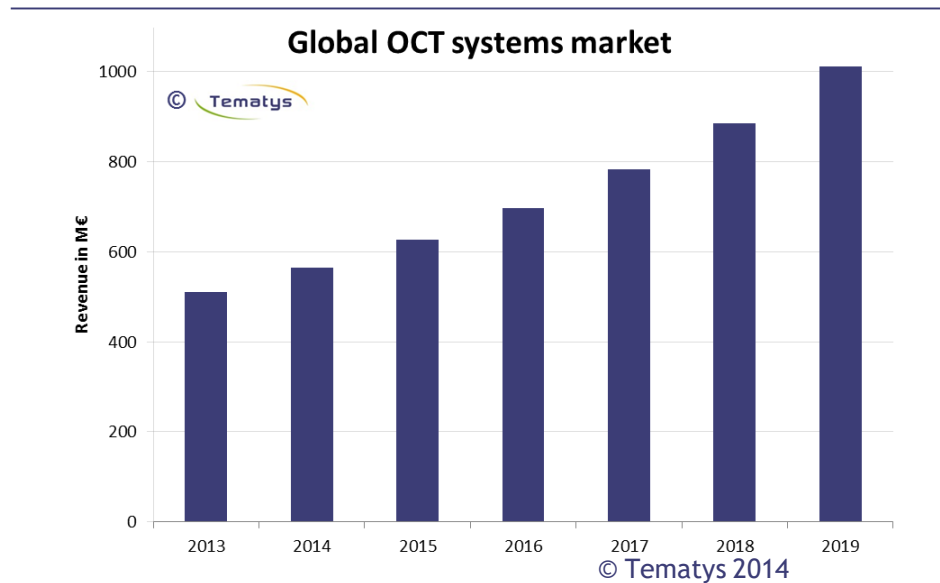
The development of Optical Coherence Tomography (OCT) systems started in the 1990's. The technology early found its application in Ophthalmology. At the beginning of the 2000's, the agreement for the reimbursement of OCT exams was obtained in Europe and in the USA. The OCT market started to grow quickly with a CAGR between 15 and 20 %.

Around ten years later, the growth of the OCT ophthalmology market slowed down because of saturation in the Western countries.

However, the OCT market for

healthcare and life science is still expected to grow from around € 500M in 2013 to around € 1b in 2019. Strong demand from new biomedical applications, continuous development of innovative technologies, strong demand from developing countries will drive the OCT market growth.

The present report provides market forecasts from 2014 to 2019 for the healthcare applications of OCT.



## OCT SYSTEMS ARE REACHING NEW BIOMEDICAL APPLICATIONS !

In parallel of ophthalmology, OCT was developed and tested in new biomedical fields like : cardiovascular, dermatology, gastroenterology, small animal imaging... Indeed, as label-free, non-invasive, high-resolution technologies, OCT systems are very efficient tools for the diagnosis and monitoring of

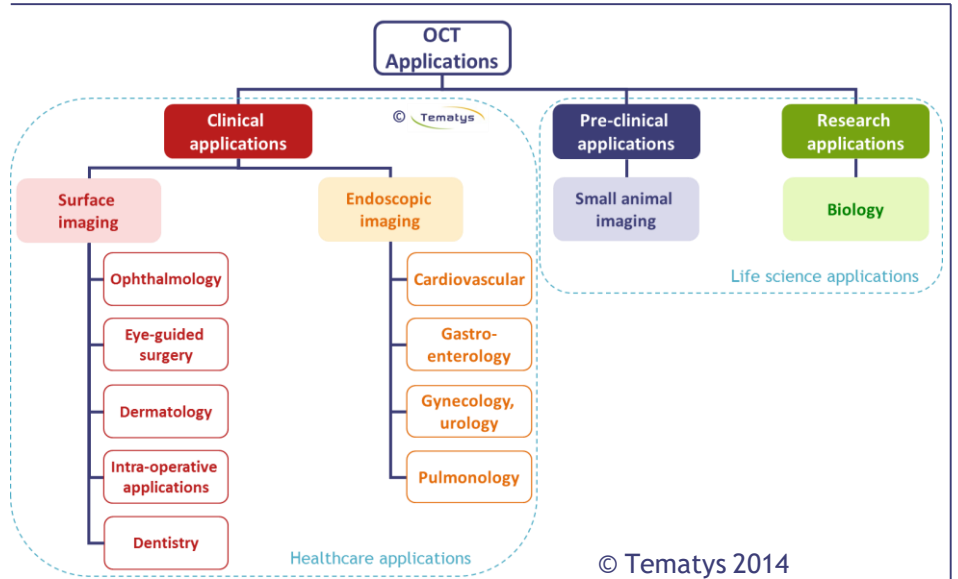
pathologies that are at the heart of public health concerns like Age-related Macular Disease, skin cancer, cardiovascular diseases, baret's esophagous, breast cancer, etc.

The question now is: which one these applications will give a second wind to the OCT market?



The present report provides market and technical data on the use of OCT for ophthalmology and other Healthcare and Life Science applications. It gives a complete description of the most

promising ones i.e. cardiology and dermatology. Market forecasts from 2014 to 2019 per application are also provided.



AUTHORS



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He has run many marketing and technological studies for major companies (THALES, ESSILOR, EDF...) and Research institutions.

## NEW TECHNOLOGIES INCREASE OCT PERFORMANCE

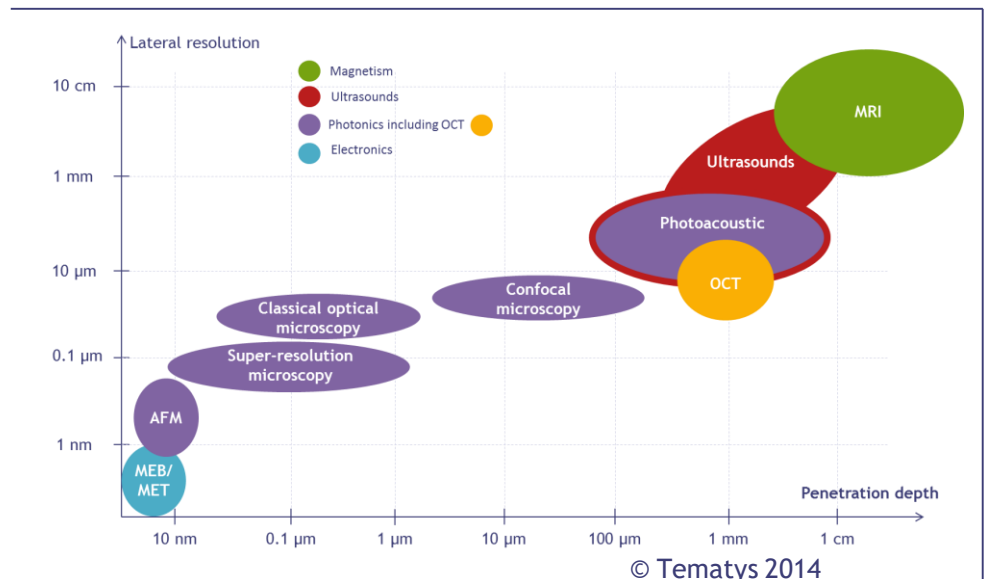
This shift towards new applications comes along with the emergence of new components and systems.

In order to allow a wider acceptance of OCT in new biomedical applications, R&D efforts seek to improve the performance and the compactness of OCT components and sub-systems. The trends is towards miniaturization with the development of technologies like

on-chip spectrometers.

Moreover, developments of functional OCT systems are undertaken to have access to more precise diagnostics. The aim is to provide quantitative information on biological processes or chemical composition.

This report details current and future trends in OCT components and systems.



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## OBJECTIVES OF THE REPORT

- Detail and estimate today's OCT market, led by ophthalmology, its main application
- Segment biomedical OCT applications
- Provide market forecast until 2019 for each application segment
- Explain medical issues and challenges addressed by OCT
- Estimate the potential of each incoming application for becoming the new growth driver of the OCT market
- Describe future trends and development challenges of OCT components and systems
- Identify the main providers of OCT components and systems



## COMPANIES MENTIONED IN THE REPORT

Abbott (OptiMedica), Agfa Healthcare, Alcon, Avinger, Axsun, Bayspec, Bioptigen, Canon, Carl Zeiss Meditec, Damae Medical, Diagnostic Photonics, e2v, Exalos, General Photonics, Heidelberg Engineering, Imalux, InPhenix, Insight Photonic Solutions, LL tech, Medlumics, Michelson Diagnostics, Moptim Imaging Technical, Nidek, Nine Point Medical, Novacam, OptoMedical Technologies, Optopol (Canon), Optos, Optovue, P&P Optica, Perimeter Medical Imaging, Phoenix Research Labs, Santec, Schwind Eye tech Solutions, Sensors Unlimited, Shenzhen Moptim Imaging, St Jude Medical, Terumo, Thorlabs, Tomey, Tomophase, Topcon medical Systems, Tornado Spectral Systems, Wasatch Photonics, Xenics, ...

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## TABLE OF CONTENT

### EXECUTIVE SUMMARY

- 1. INTRODUCTION**
  - Context of the study
  - Study goals and objectives
  - Information sources and methodology
  - Glossary
  - Definitions
  - List of companies
- 2. OCT HISTORY, MARKET ANALYSIS AND FORECAST**
  - History of OCT
  - General presentation of OCT
  - OCT market segmentation, forecast and analysis
  - OCT players
  - Research in OCT
- 3. OCT FOR OPHTHALMOLOGY**
  - Presentation
  - Competing technologies
  - Healthcare issues
  - Drivers of growth
- 4. NEW APPLICATIONS OF OCT**
  - Cardiology
    - Presentation
    - Competing technologies
    - Healthcare issues
  - Dermatology
    - Presentation
    - Competing technologies
    - Healthcare issues
  - Other applications
  - Technical trends
- 5. OCT COMPONENTS AND SYSTEMS TRENDS AND CHALLENGES**
  - General information - Evolution of key parameters
  - Systems
    - Typology of today's systems
    - Incoming OCT techniques
    - Other incoming techniques
- Components and Sub-Systems
  - Presentation / Critical components and sub-systems
  - State of the art
  - Currently emerging components and sub-systems
  - Manufacturers
- 6. REGULATION ASPECTS**
  - European regulations
  - Regulations in the USA
- 7. CONCLUSION**
- 8. APPENDICES**
  - Methodology
  - Presentation of TEMATYS

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