

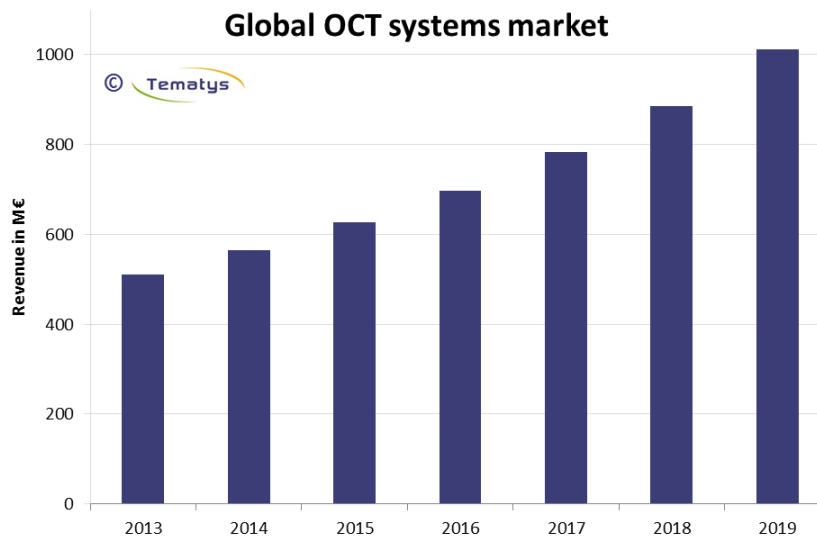
## Optical Coherence Tomography for Healthcare and Life Science: Technology and Market Trends

### *Release announcement*

TEMATYS is pleased to announce the release of its new market and technology report "Optical Coherence Tomography for Healthcare and Life Science: Technology and Market Trends".

Sale price: 3.990,00 € - Sales will begin on September 30 - Pre-orders are open now with a discount of 500 € - Online sales: <http://tematys.fr/Publications> - Corporate: [www.tematys.com](http://www.tematys.com)

**Abstract.** Currently, Optical Coherence Tomography (OCT) is a mature technology well-established on the ophthalmology market. However, the ophthalmology OCT market has been slowing down for the last years. However, despite the saturation of the OCT ophthalmology market in developed countries, 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.



According to our study, as OCT addresses global public health issues such as non-melanoma skin cancer, diabetic retinopathy, Age-related Macular Disease, cardiovascular disease, Barrett's esophagus, prostate cancer, etc. it is expected to reach medical applications outside ophthalmology. There is a huge need for label-free, non-invasive, in vivo imaging techniques for the diagnosis and monitoring of these pathologies that OCT can answer. Moreover the demand from developing countries such as China or India for medical equipment is increasingly urgent.

To support the shift towards new applications, our study shows that the development of innovative technologies is necessary. Several functional OCT methods such as polarization sensitive OCT, Doppler OCT or OCT combined with fluorescence are being investigated to provide quantitative

information and improve the diagnosis performance. Moreover, R&D efforts seek to develop the performance and compactness of components and sub-systems for OCT. The trend goes towards miniaturization with the use of PIC (Photonic Integrated Circuits). The aim is to enable the manufacturing of compact, low cost and portable OCT systems to reach applications at the dermatologist or the dentist's office for example.

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**About TEMATYS ([www.tematys.com](http://www.tematys.com))**

TEMATYS is independent. Our team of highly qualified consultants is committed to provide a very comprehensive understanding on trends, markets and use of photonic technologies and their applications. Our services:

**➤ Reports**

- Market research
- Technological benchmark
- Prospective studies

**➤ Market studies & strategy**

- Market studies
- Market entry strategy & roadmaps
- Diversification
- Pre-commercial prospection

**➤ Technology transfer & Research valorization**

- Marketing & exploitation of Research results
- Collaborative research consortia set-up
- Technology transfer strategy

**➤ Product features definition**

- User needs - Market Requirements Document (MRD)
- Product Requirements Document (PRD)
- Feasibility studies
- Sourcing & technology assessment

Our main clients are companies of any size, from international groups to SMEs and start-up. We have also developed a special expertise in technology transfer and R&D valorization dedicated to Research Organizations and Laboratories, and we provide strategic views on optics and photonics markets for publics for clusters and publics agencies.

**Previous publications:****Photonics in Federal European FP7 R&D Program (2013)****Biophotonics Market, technologies and Markets Analysis (2013)****Terahertz Components & Systems, Technology and Market Trends (2013)**