



FOR IMMEDIATE RELEASE:

Internet of Things: a promising future for sensors

The Promising Future of Sensors in the Internet of Things Seminar
–Yole Développement & Fraunhofer EMFT- Germany

LYON, France – February 20, 2017: The MEMS & sensor offering has never been so diverse. Inertial, pressure, temperature, (bio-)chemical and gas sensors as well as microphones, fingerprint and iris recognition. All devices are part of the IoT¹ revolution. [Yole Développement \(Yole\)](#) analysts are currently noting plenty of excitement within the MEMS & Sensors sector.

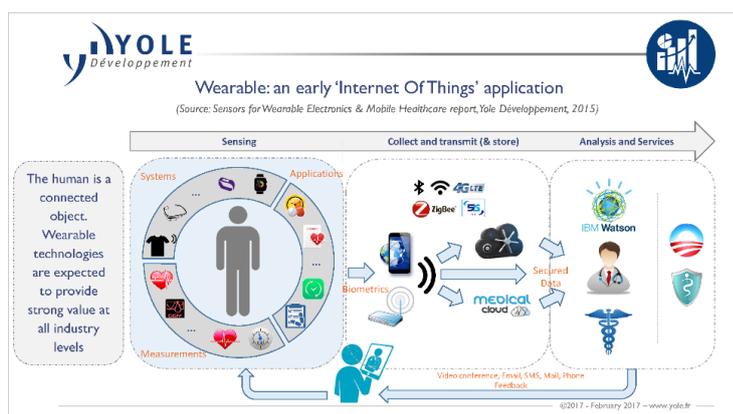
Dream or reality: what is the status of IoT applications?

As an example, wearable technologies were expected to play a key role within IoT development, bringing useful information directly to the user in a natural, friendly way. According to Yole's 2015 technology & market report, [Sensors for Wearable Electronics & Mobile Healthcare](#), the wearable industry was originally supposed to reach 295 million units by 2020, with a market value of US\$95 billion. However, a consumer market slowdown, half-baked products and a lack of use cases have limited the popularity of wearables and reduced the potential value of this market in 2020.

While waiting for new generations of better adapted wearable devices, that will drive the market to a bright future, two other IoT market segments should also drive this growth: healthcare and industry. The healthcare market (including hearing aids, blood pressure monitors,

back monitor sensors, etc.) is expected to grow at a moderate rate. Regarding the industrial market, Yole announces steady growth through to 2019, with a significant uptick commencing in 2020.

The real potential of the wearable market should be unveiled with HMDs² targeting AR/VR/MR³ applications, which are supposed to be driving the next big thing within the next 10 years.



¹ IoT : Internet of Things

² HMD : Head Mounted Displays

³ AR/VR/MR : Augmented Reality/Virtual Reality/ Mixed Reality

Looking further ahead, wearable is not the only way to think IoT. Indeed, building/home automation, industry, and the environment, etc. are also part of the IoT landscape. Smart homes and buildings are part of the global IoT market. As the number of households is growing twice as fast as the number of people worldwide, twice as many resources are needed to heat and cool them. Moreover, security and wellness are also becoming more and more important to the people living in these homes. Multiple connected sensors (including infrared, air quality, visible imagers, smart thermostats, etc.) and associated services will be key for energy savings and increased security in the smart homes and buildings of the future.

This sector already attracts many sensor makers, systems integrators and big Webcoms.

In this context, [Fraunhofer EMFT](#) and Yole are pursuing their collaboration and have announced the second MEMS & Sensors seminar focused on MEMS & Sensors technologies for IoT applications:

- The seminar, entitled “The Promising Future of Sensors for IoT”, will take place in Munich, Germany on July 3 & 4, 2017.
- Click [IoT Seminar](#) to see the programme, preliminary list of speakers, sponsorship opportunities and more.



Yole Développement and Fraunhofer EMFT teams have combined their expertise to organise this second MEMS & Sensors seminar. Taking place in early July, the seminar will be dedicated to the critical role of sensors for the success of connected devices for IoT applications. IoT is a complex, technology-mixing ecosystem. From devices to modules including connectivity, platforms, storage, servers, analytics software and IT services, IoT is part of our daily life. Therefore, the close adoption to the daily life via easy to use and smart user interfaces is essential. Consequently, beyond general framework conditions, trust, security and privacy will be key. Smart sensors embedded in connected devices will become the backbone of a variety of applications, from communications, the automotive industry and manufacturing to logistics and health care.

The Yole and Fraunhofer EMFT seminar will feature presentations on technology requirements and the latest trends in sensor fusion. It will also discuss production challenges and provide updates on applications for sensors, on the way to the "Next Big Thing".

This seminar has been designed to ensure the best possible interaction between participants, speakers and the organising committee. Its programme includes three sessions (Industrial IoT & Building Automation – Future of Automotive) as well as two panel sessions and several networking periods!

“We are very pleased to have the opportunity to host the “Promising Future of Sensors for IoT” event and work together with Yole to make it happen”, comments **Prof. Christoph Kutter, Director of Fraunhofer**

EMFT. *“Bringing together the players and experts on the MEMS and sensor arena is an important contribution to shaping the future of IoT. We are looking forward to exciting presentations and lively discussions from various angles to this fascinating topic.”*

“The [“Promising Future of Sensors for IoT” seminar](#) is the result of a powerful collaboration between Yole and Fraunhofer EMFT, a great combination of technical know-how and market expertise,” says **Jean-Christophe Eloy, President & CEO, Yole Développement.** He adds, *“This event represents a wonderful opportunity for MEMS & sensor manufacturers, equipment and materials suppliers and more, to understand the technical and market issues and expand their activities towards the IoT world.”*

Yole and Fraunhofer EMFT are extremely enthusiastic about their “The Promising Future of Sensors for IoT” seminar. The partners will be welcoming all the key IoT players, including Aryballe, Bosch Sensortec, Elichens, EnOcean First Sensor, Fraunhofer EMFT, NXP Semiconductors, STMicroelectronics, System Plus Consulting, Yole Développement and more. The organising committee is also pleased to welcome the European Commission.

To see the agenda and register, click [IoT Seminar](#).

For more information about the programme and registration, please contact: Clotilde Fabre (fabre@yole.fr), Communication Coordinator at Yole.

About Fraunhofer EMFT - <https://www.emft.fraunhofer.de/en.html>

Fraunhofer EMFT stands for applied research into sensors and actuators for people and the environment.

The following competences form the basis of the research work at Fraunhofer EMFT: Functional Molecules, Silicon Technologies, Devices and 3D Integration, Foil Technologies, Micropumps and Design, Test & System Integration. Each of these competences in its own right allows new kinds of sensors and actuators to be created. But the real strength of Fraunhofer EMFT lies in the interaction between these areas: after all, innovations often emerge where technologies reach their limits and begin to cross-fertilize.

In defining its research fields, Fraunhofer EMFT always attaches priority to practical application. The institution gets together with customers to assess areas which are important for the market and where Fraunhofer EMFT can make a significant contribution with its expertise.

Due to the long history of Fraunhofer EMFT its staff possesses a broad background and long-term experience, allowing the employees for an excellent knowledge of the world of microelectronics and microsystem technology. Their high level of motivation and the satisfaction they derive from their work result in exceptional commitment and dedication, ultimately producing good results.

About Yole Développement – www.yole.fr

Founded in 1998, Yole Développement has grown to become a group of companies providing marketing, technology and strategy consulting, media and corporate finance services. With a strong focus on emerging applications using silicon and/or micro manufacturing, the Yole Développement group has expanded to include more than 50 collaborators worldwide covering MEMS, Compound Semiconductors, LED, Displays, Image Sensors, Optoelectronics, Microfluidics & Medical, Advanced Packaging, Manufacturing, Nanomaterials, Power Electronics and Batteries & Energy Management.



The “More than Moore” company Yole, along with its partners System Plus Consulting, Blumorpho and KnowMade, support industrial companies, investors and R&D organizations worldwide to help them understand markets and follow technology trends to grow their business.

- Consulting & Financial Services: Jean-Christophe Eloy (eloy@yole.fr)
- Reports: David Jourdan (jourdan@yole.fr)
- Press Relations & Corporate Communication: Sandrine Leroy (leroy@yole.fr)

###