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## Silicon photonics for next-generation optical interconnects

*Tuesday, 18 September 2018 15:40 (45 minutes)*

Demand for data communication in cloud data-centres is projected to continue to grow exponentially in the next few years.

In this presentation, we will discuss the opportunity and challenges related to silicon photonics technology as a short-reach optical interconnect platform. First, we will discuss the scaling trends and industry platform. Next, we will take a deep dive into the silicon photonics roadmap, covering both passive and high-speed active optical devices. We will describe how these building blocks can be combined to implement low-power Terabit-scale optical transceivers. Finally, we will present other opportunities for silicon photonics outside datacom.

### Summary

**Presenter:** LARDENOIS, Sebastien (IMEC)

**Session Classification:** Invited