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## **【54】 Luxtelligence: Illuminating faster datacenters with ferroelectrics**

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Photonic integrated circuits (PICs) are compact, efficient and can be manufactured in scale. Several materials have been explored, showing strengths in different fields. Si and InP are known for their electro-optic activities yet suffer from large optical losses and large electronic powers to operate. Today's photonic industry needs a material that is efficient, fast and consumes less power. Thin-film Lithium Niobate (TFLN) is a material that solves these challenges. TFLN offers low optical loss, 2× higher bandwidth and reduces the power consumption by 2×. Luxtelligence offers foundry services for TFLN using its proprietary technology for the next generation telecommunication systems.

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