

PILOT LINE FOR PACKAING OF PHOTONIC INTEGRATED CIRCUITS



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PHOTONICS PUBLIC PRIVATE PARTNERSHIP

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DATA TRAFFIC – WHY DO WE NEED PHOTONICS

- + 80 to 90% of the data traffic is *within* the datacenter
- + 1st Change from copper cables to multi-mode fibers (MMF)
- + 2nd Change from multi-mode fibers (MMF) to single mode fibers (SMF)

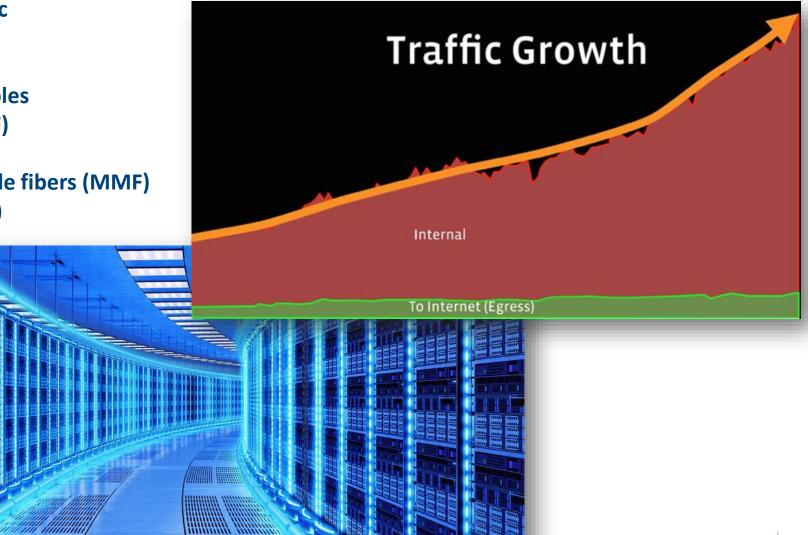
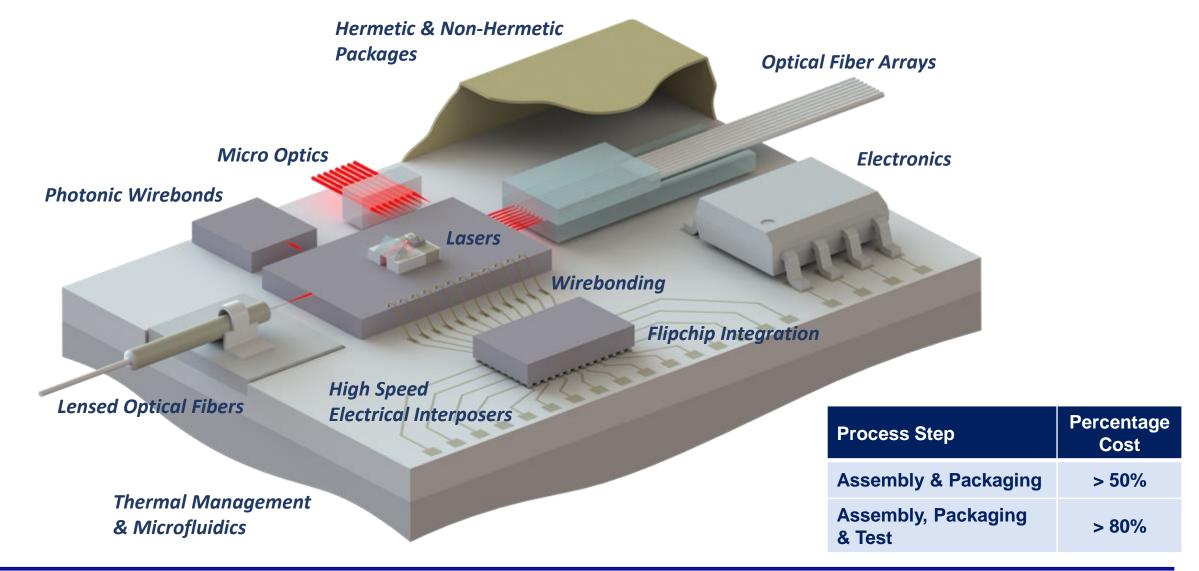




Image sources: https://engineering.fb.com/data-center-engineering/building-express-backbone-facebook-s-new-long-haul-network/ https://aws.amazon.com/blogs/publicsector/tag/data-center/

SUSS_MicroOptics

The Photonic Packaging Technologies







Distributed Photonic Packaging Pilot Line



PIXAPP

Pilot Line

















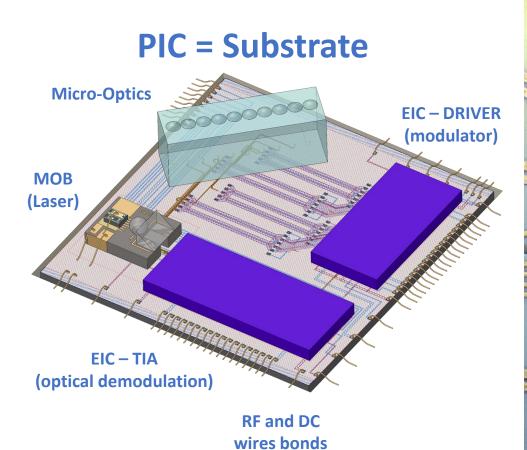
OPTOSCRIBE



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Standardised Packaging (building blocks)



0 0 0 0 **RF** Interposer Hybrid Laser 00 Amplifier IC Microlens Si-PIC Array TIA

0





Standardised Packaging (building blocks)









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PIXAPP Gateway (easy access to open access)

O C U U Sers

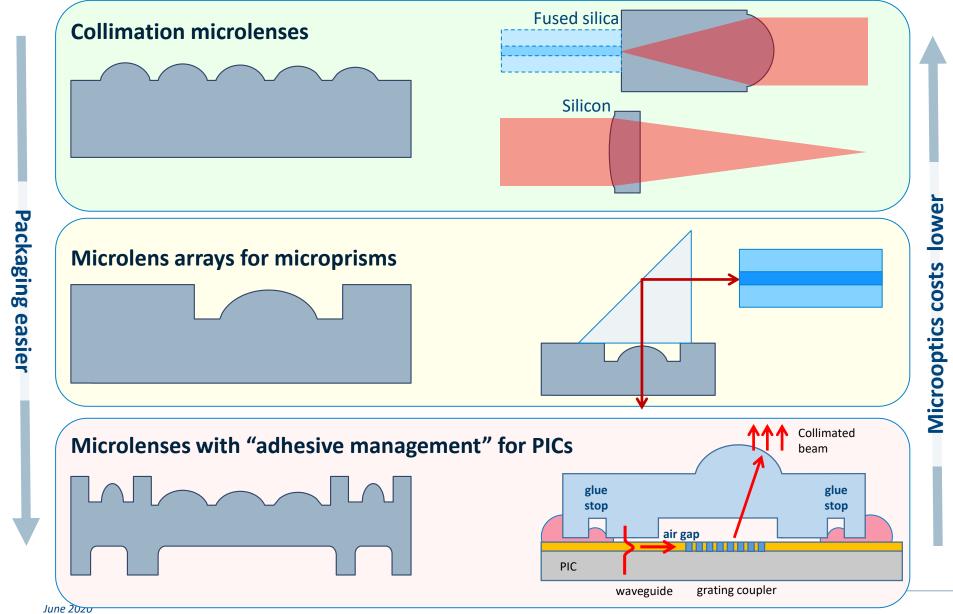






MICROLENSES – FOR PIC APPLICATIONS





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Thank You & Questions



Building a Sustainable European PIC Packaging Pilot Line & Manufacturing Ecosystem



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PIXAPP Training (hands-on courses)













PIXAPP Gateway (customer pipeline)





