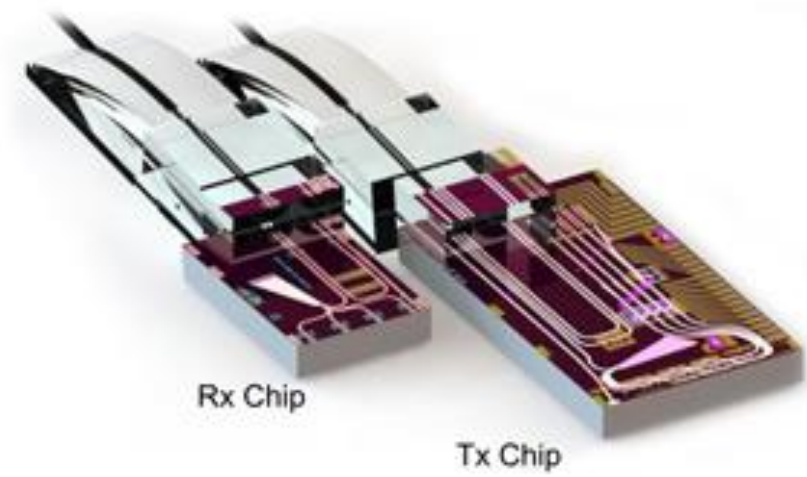
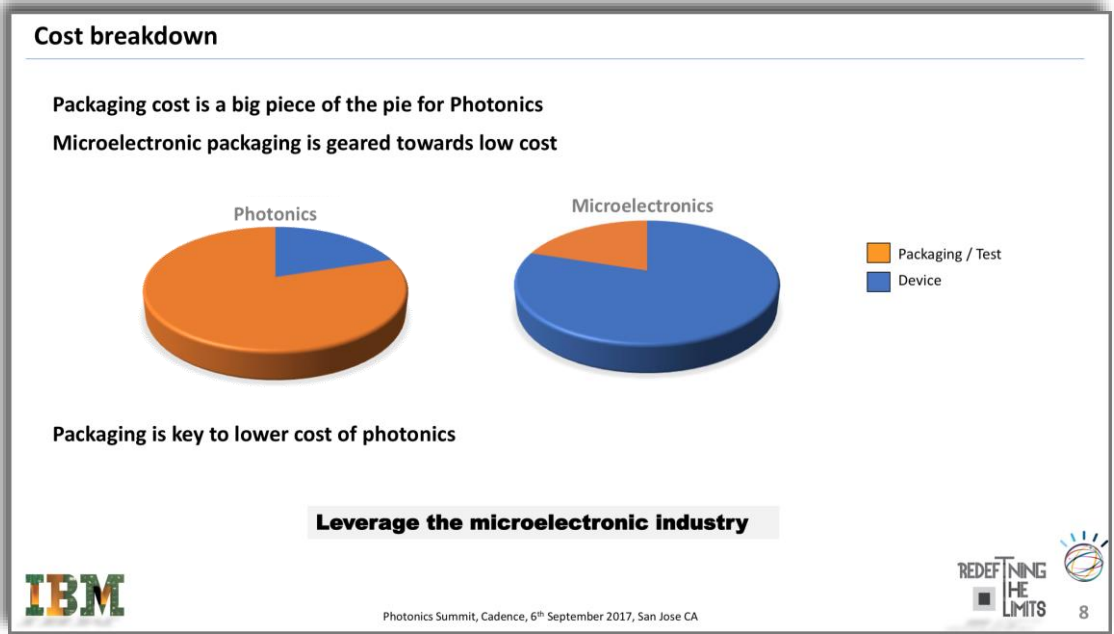


Photonics: Enabler of Post-Pandemic Progress

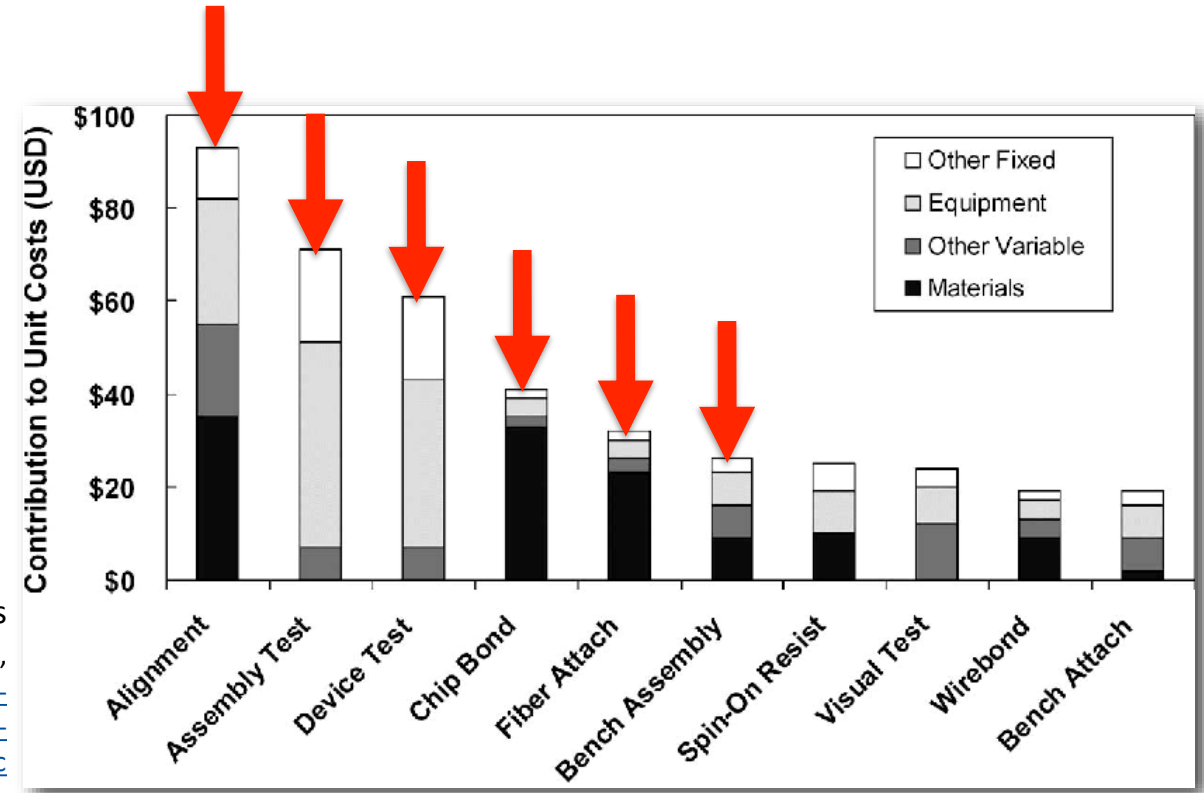
The Emergence of Intelligent Positioning in High-Throughput Photonics Manufacturing

Alignment: The Repetitive Cost



“Automated High-Throughput Assembly for Photonic Packaging”, Barwicz et al, *Photonics Summit*, Cadence, 2017, https://www.cadence.com/content/dam/cadence-www/global/en_US/documents/company/Events/summits/photronics/fortier-2017.pdf

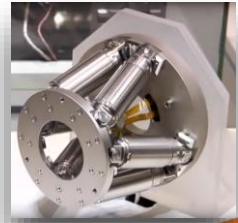
“Process-based cost modeling of photonics manufacture...”, E. Fuchs et al, *J. Lightwave Tech.*, 2006, <https://www.semanticscholar.org/paper/Process-based-cost-modeling-of-photonics-the-cost-a-Fuchs-Bruce/125e24b2e2e71860f088526441ee5ce16e6ce42c>



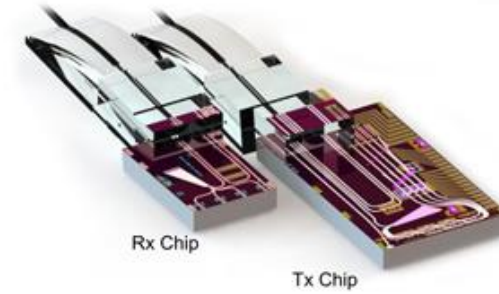
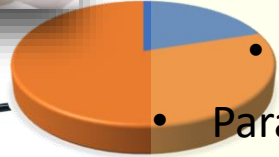
PI's Contribution

- Fab-proven fast nano- and micro-positioners and 6-DOF hexapod microrobots
- Intelligent optimization algorithms
- Built-in toolkit for fast development
- Parallel alignment processing
 - Multi channel
 - Multi element
 - Multi DOF

Typically 100-times throughput improvement

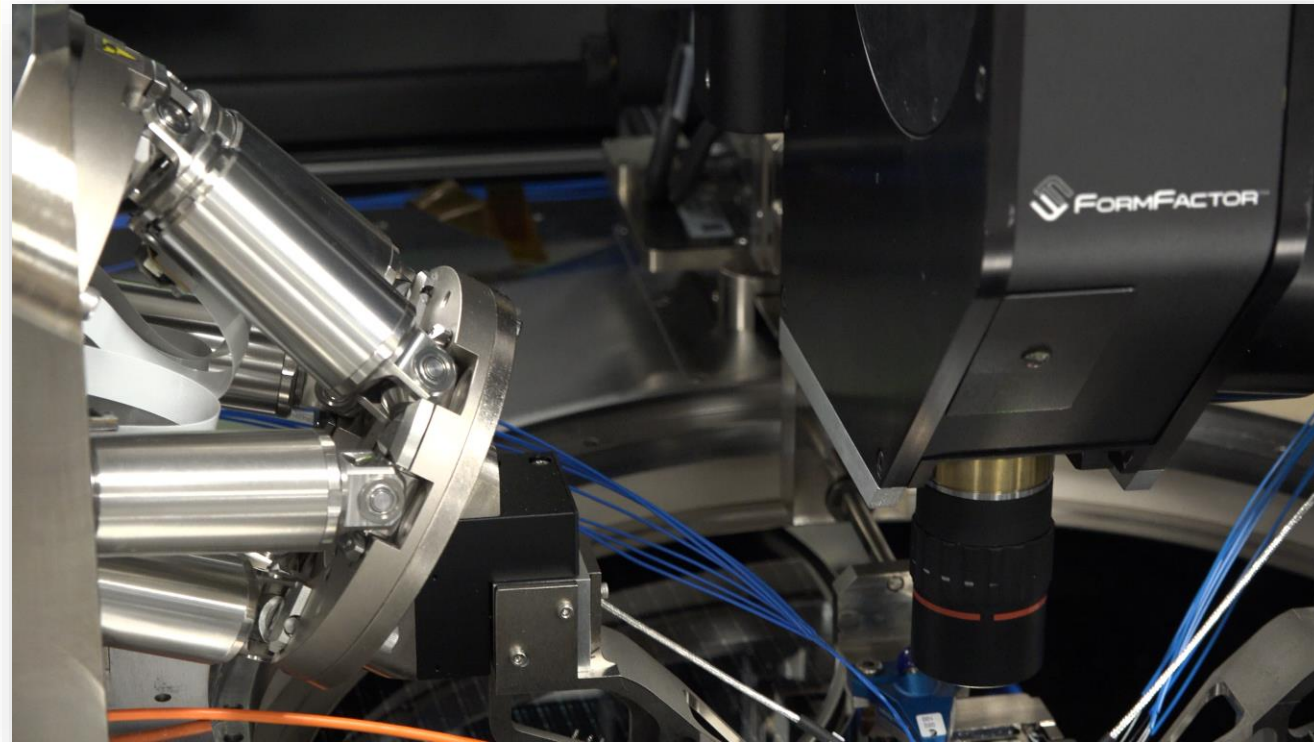


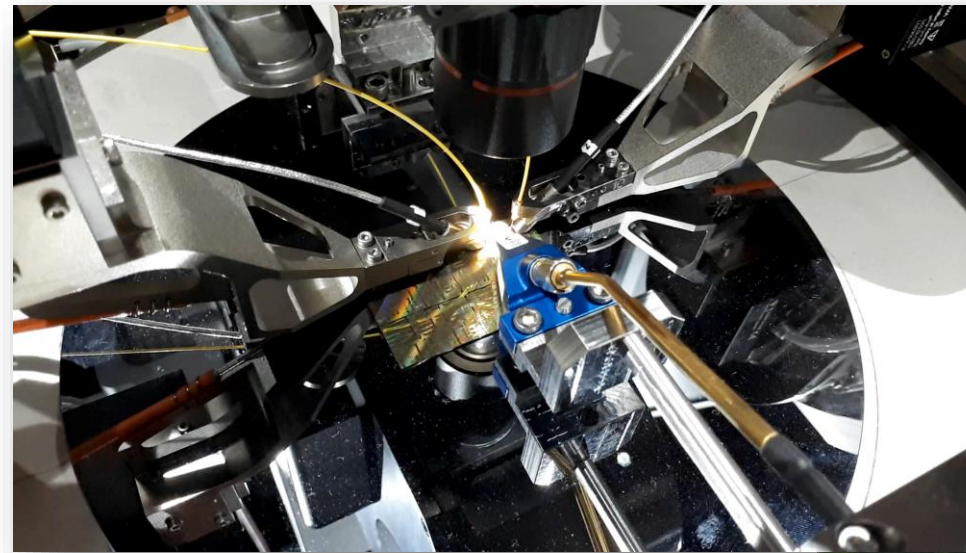
Photonics



From wafer test to final packaging...

...Groundbreaking speeds for complex alignments





Physik Instrumente

Keep in touch! ScottJ@pi-usa.us

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76228 Karlsruhe
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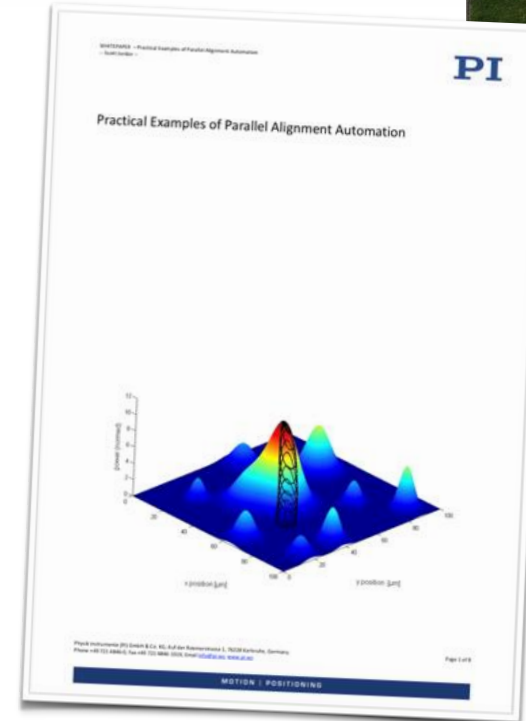
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