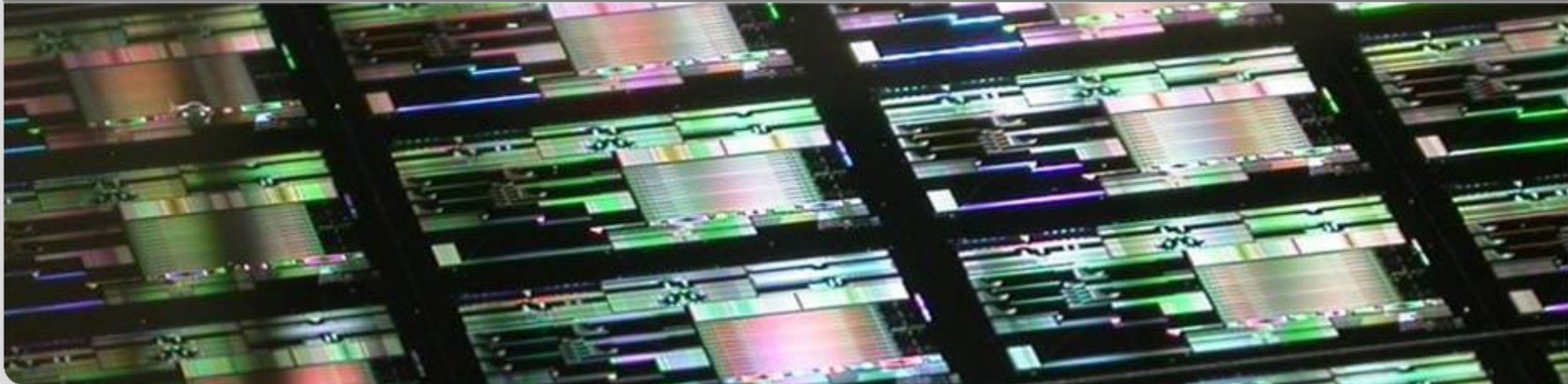
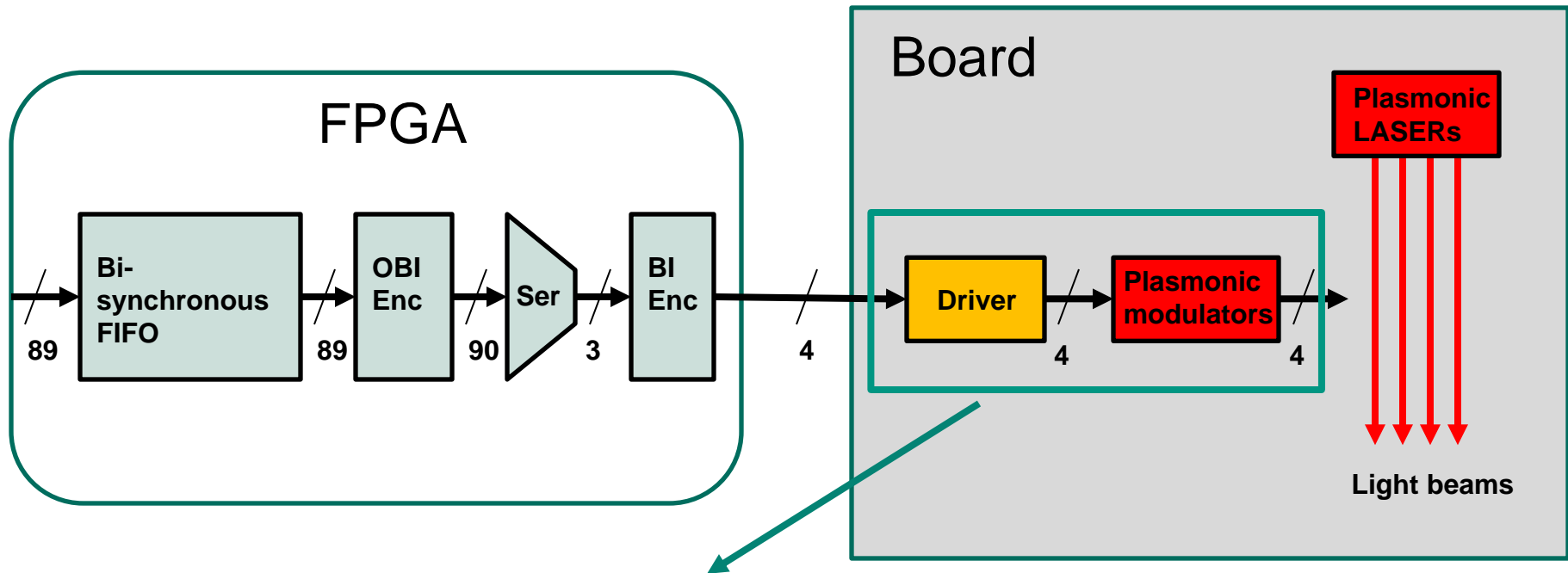


NAVOLCHI TelConf. 14.10.2013

Institute of Photonics and Quantum Electronics (IPQ), Karlsruhe, Germany
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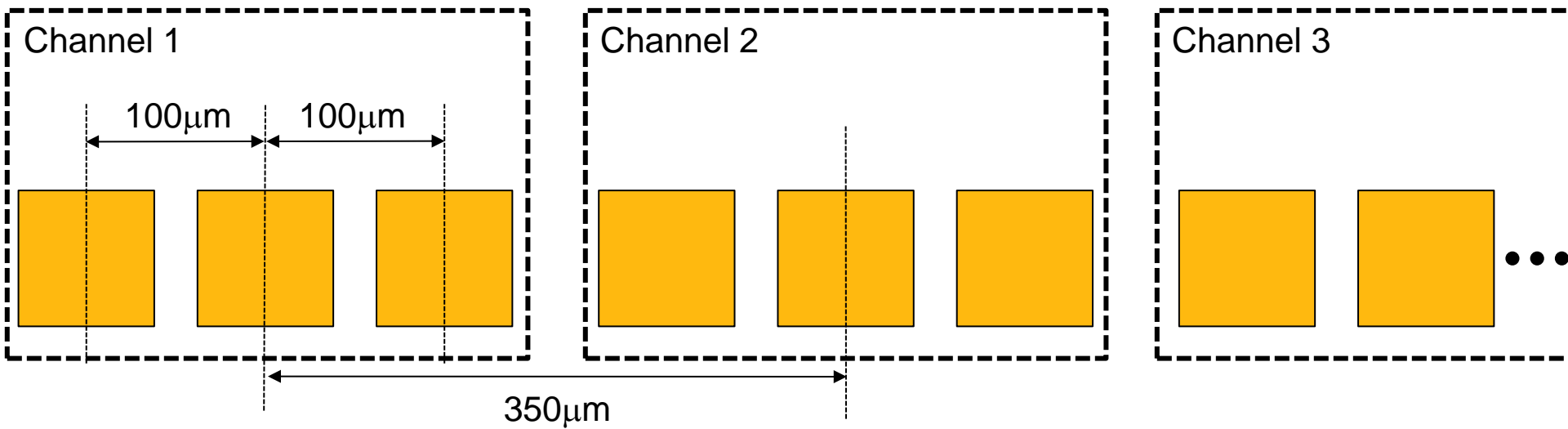
NAVOLCHI Demonstrator Implementation



Electronics / plasmonics interface?

Origin: STMicroelectronics Progress Report, NAVOLCHI Phone Conference 19, September 23, 2013

■ Gold contact pads



■ MZM Specs

- No 50Ω termination
- High impedance devices with $C \approx 10 - 20 \text{ fF}$
- Driving voltage up to 10V might be needed
- Total electrode length $\approx 120\mu\text{m}$ → no additional latency

■ Questions

- Is wire bonding possible?
 - Very thin and small contact pads
 - GSG configuration with $100\mu\text{m}$ pitch
- What is the distance between the driver and the modulator chip?

