

Use Cases: Internal



QU-PILOT

What & Why

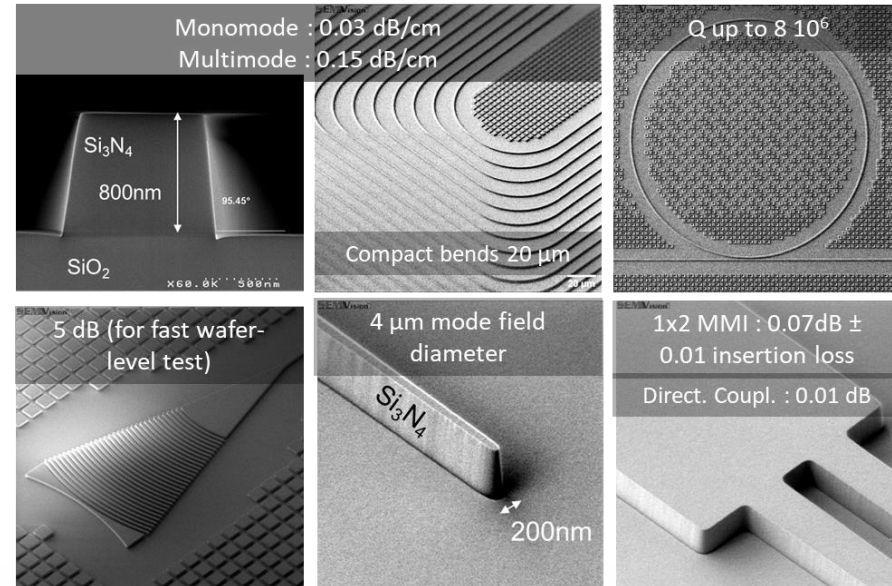
- Integrated low-loss reconfigurable photonic processing chip @ 925 nm
- For photonic quantum computing

Task	Company	RTO	Use-Case
T6.7	Quandela	CEA	PICs for photonic quantum computing

Task

- Development of ultra-low loss components and programmable processing circuit integrated on SiN platform @ 925 nm
- Targeting 8-12 photonic qubits
- Design, fabrication & characterization

Ultra-low loss SiN platform @ 1550 nm @CEA



Photonics platform

Communication
Computing

cea AIT Fraunhofer imec VTT

Modular quantum computer architecture @ Quandela

