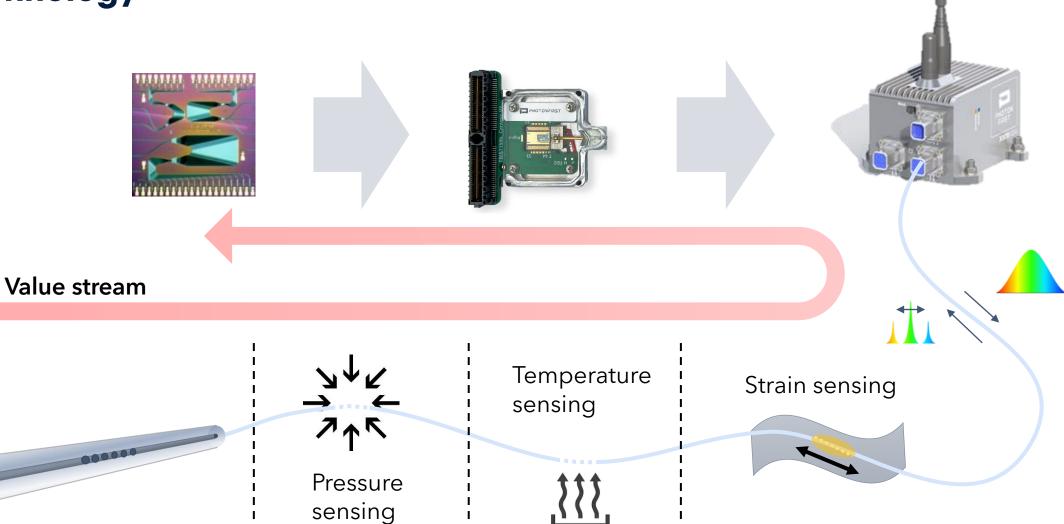






PhotonFirst develops and produces sensing solutions, based on PIC

technology



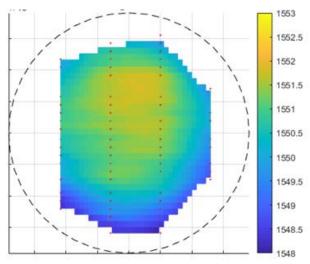


Pilot line: Product(ion) optimization (TRL 7-9, MRL)

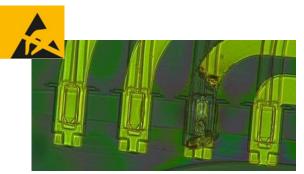
- "One functional PIC, does not mean having product yet!"
- Through Jeppix we advanced on
- → Design for manufacturability
- Valuable data from production and process for end-use, design, fab
 - Fabrication tolerances, yield
 - Production control, process KPIs
 - Statistical analysis and optimization of all related production steps
 - Validation on chip, package, system



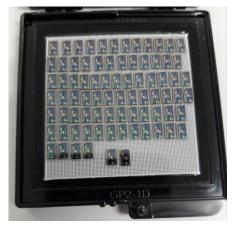
Automated Die-tester at PhotonFirst



Map of measured central wavelength (KPI) distribution of a structure across wafer position.



ESD damage on PIC Photodiode



Production PIC batch in gel-pack



Pilot line: Validation activities

Design for manufacturing

PIC design runs for assessing /optimizing producibility and yield

Module level validation of PICs and packages

- Validation of env. Performance
- Accelerated Lifetime testing (T (K), I(A))
- Production testing
 - Mechanical pull-test wire-bond validation
 - Burn-in / environmental stress screening

