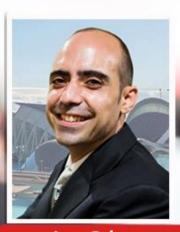
Tuesday, 01 February 2022, 16:00 CET

EPIC Members New Product Release

Wafer level testing capabilities for edge coupling





Jose Galan Sales Manager

Supported by



Company overview



- VLC Photonics is a fabless company offering Photonic Integrated Circuit (PIC) development services, focused on design and testing.
- **■** Company founded in 2011.

Ciudad Politécnica de la Innovación

- Offices and clean-room labs in Valencia Technological Campus.
- 16 members of extensive academic and industrial experience, and keep growing.
- Part of Hitachi High-Tech group since 2020.

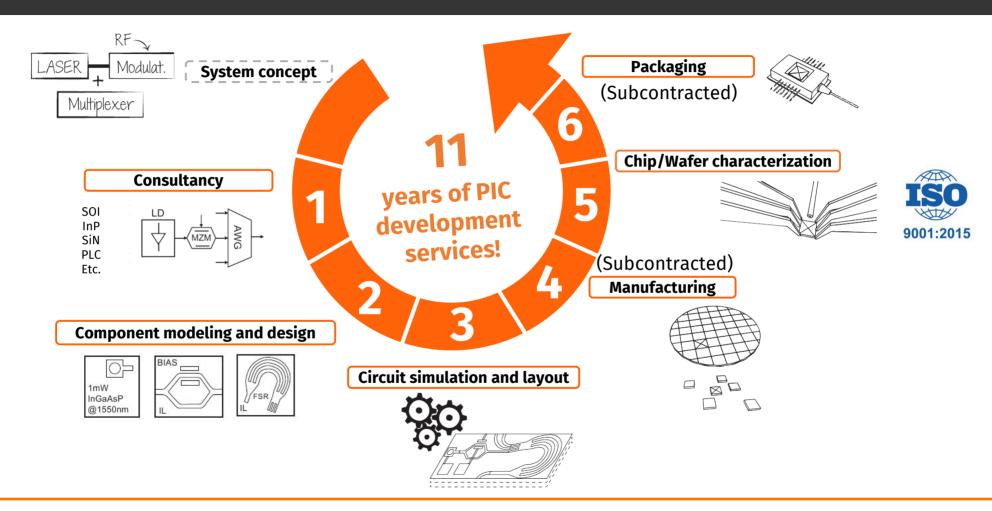






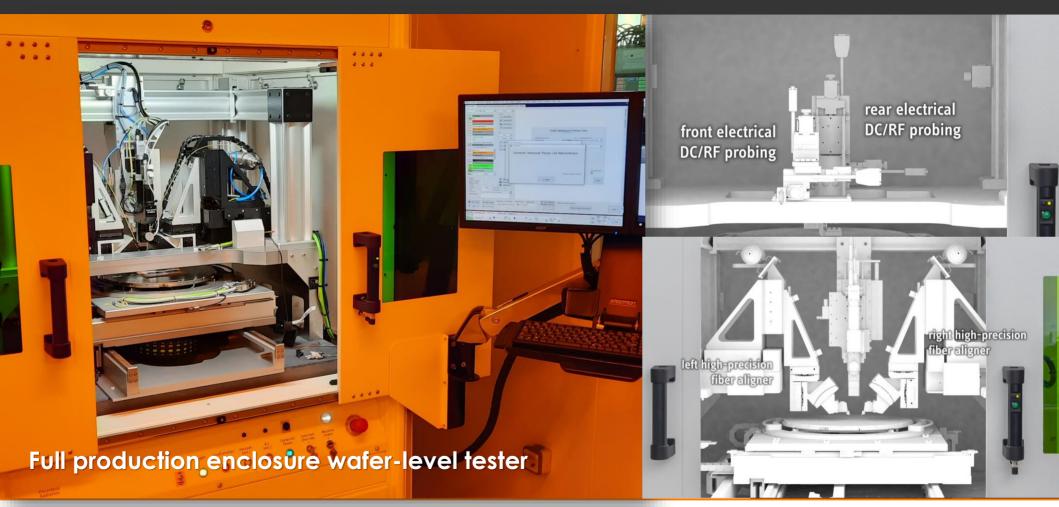
Services overview





Automated Wafer-level testing (WLT)





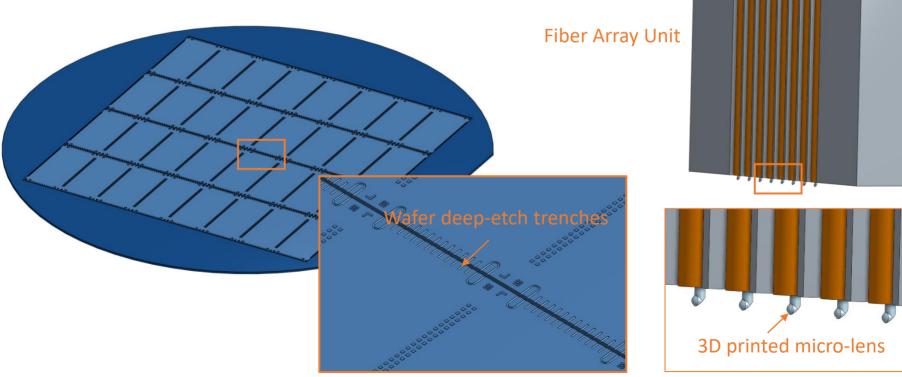


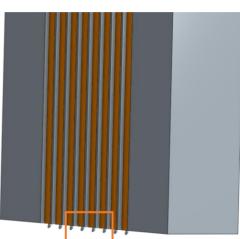
Edge coupling WLT

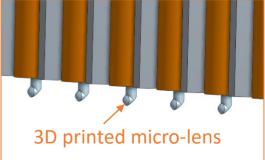


■ Tool adapted for optical edge coupling.

■ Wafer V-groove trenches







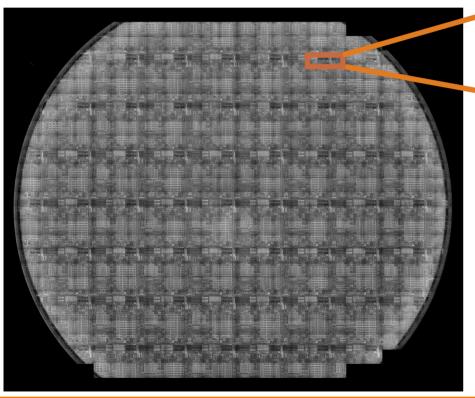


Edge coupling WLT (II)



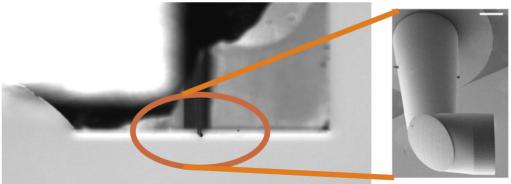
■ Tool adapted for optical edge coupling.

■ Wafer V-groove trenches



V-groove trenches



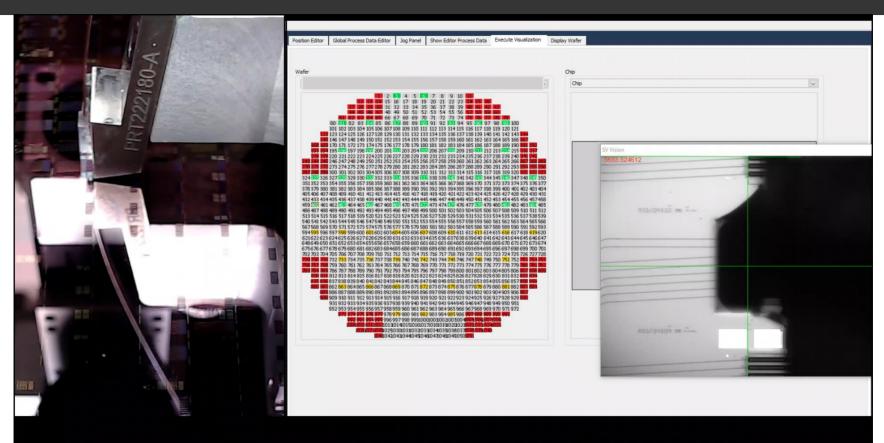


3D printed micro-lens

MFD 2.3-10.4 μm

Our Edge coupling WLT in action





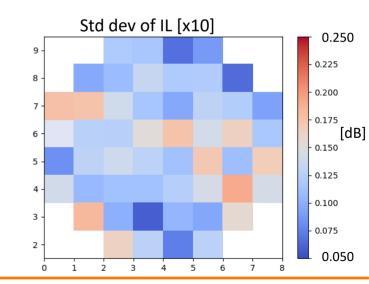
VLC Photonics a Hitachi High-Tech Company

Main benefits



- Capture massive data allowing for statistical analysis.
 - Close design loop from fab to validated designs towards mass production.
- Fast and repeatable automated probing and trace acquisition:
 - <4s I/O optical align and measure,</p>
 - 0.1-0.4 dB repeatability (dep. on I/O coupler design).
- Provide feedback for yield improvement to foundries, accelerating product development and volume ramp up.
- Automated identification of KGD/KGW for sorting in production, and towards packaging. Complementing the PCM and metrology done by foundries.

DUT	Struct.	Measur.
Six 6" wafers, >300 dies	>5k	~50k
Two 8" wafers, >1800 dies	>14.5k	~58k
>50 dies	>140	>31k



Thank you for your attention!





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