WP2 - MPW UPDATE

Roel Daamen, 23 October 2017



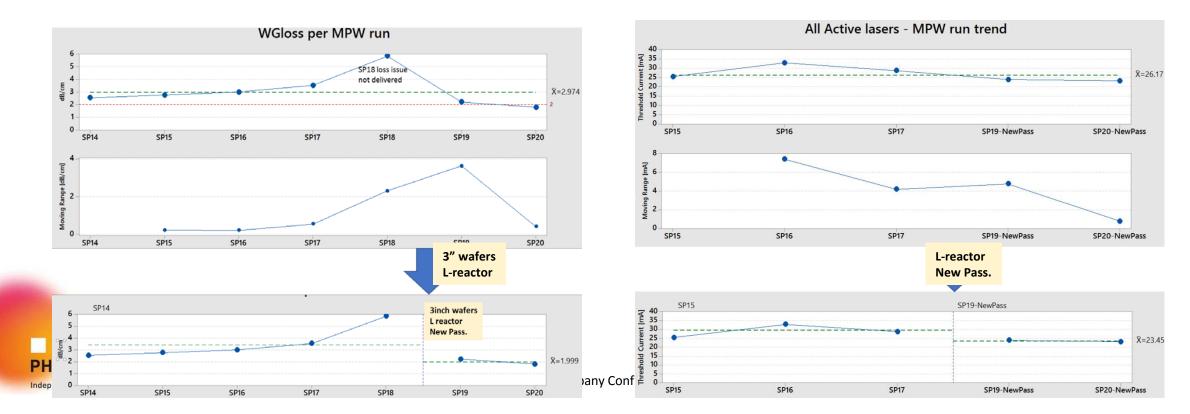
OUTLINE

- SP20 Basic parameters
- WP2 Outlook



SP20 SUMMARY

- Aside from the SP20A metal/adhesion issues, the PCM's of SP20A (and SP20B-SI) have shown very low Waveguide Loss (≤ 2dB/cm) and stable Laser performance with low Threshold Currents similar to SP19 (<25mA/mm)
 - Delamination RCA has been started, also a SP20A re-run has been started
- It is clear that the switch to 3" processing, the use of the L-reactor and implementation of the new passivation has improved the MPW's robustness in terms of performance



WP2 MILESTONES - UPDATE

WP2.2.M3.1	Polyimide Planarisation	Roel	Sep-17	
	sequence on SP20			
WP2.3.M1.1	DBR laser	Roel	Sep-17	

- Above Milestones to be created in the next weeks
 - Actually M1.1 is WP3 work
- WP2 planning to be updated as well

- Planarisation improvements
 Previous
 - SP19 New Passivation
 - SP19 => SP20 PI planarization improvement – Part 1 Mask switch

Ongoing

- SP20 => SP21 PI planarization
 Improvement Part 2
 - Additional PI & reduced PI loss w.r.t. passivation/contact opening

Next

- SP21 => SP22 PI planarization
 improvement Part 3
 - SP22B will feature Tiling test

