

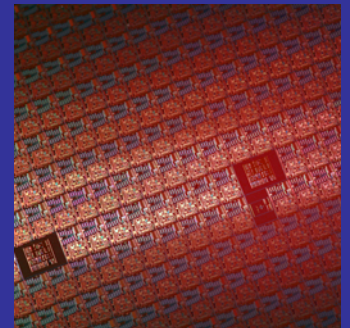


Accelerating the next technology revolution

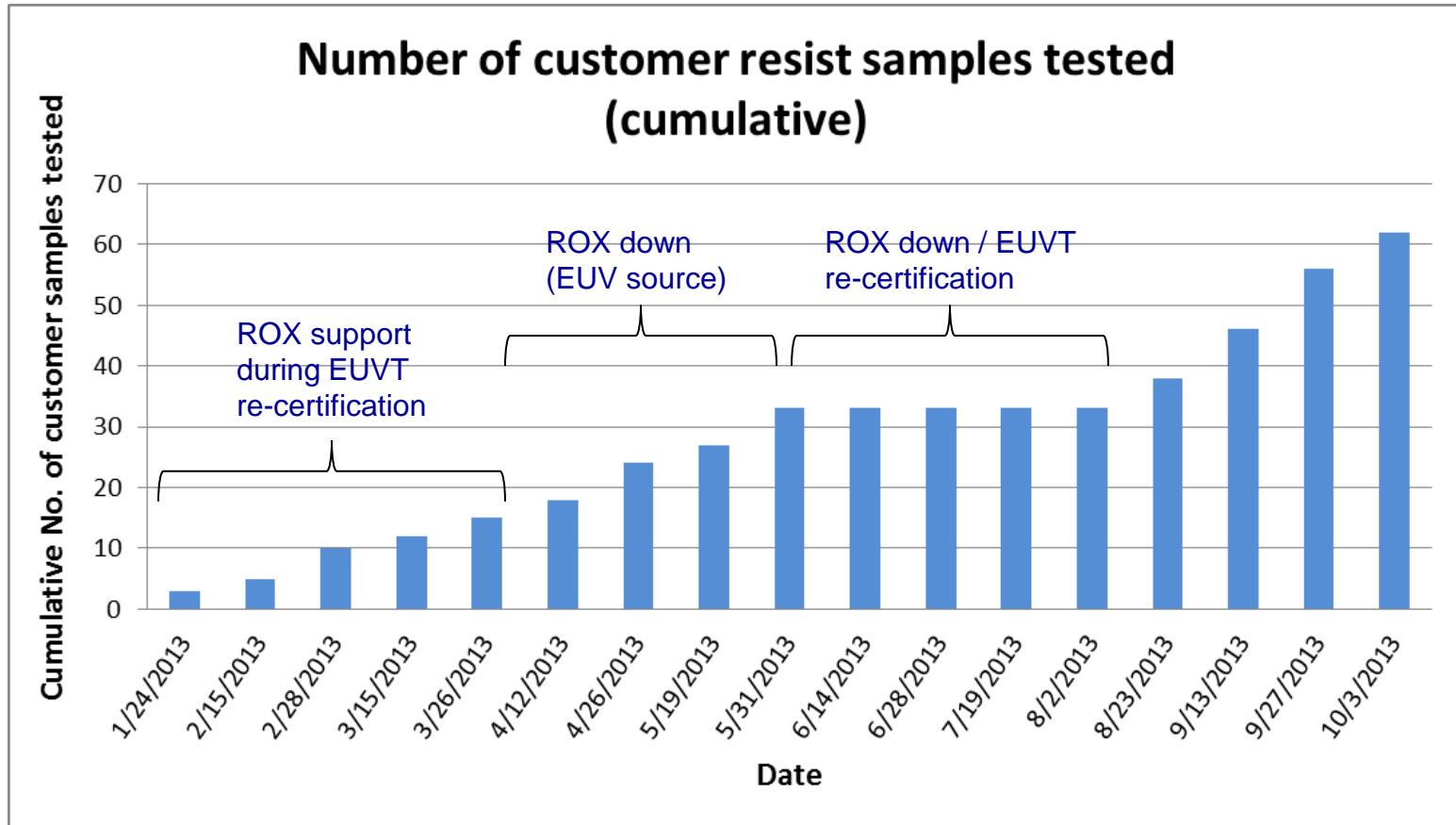
SEMATECH Outgas Testing Update

October 6, 2013

J. Sohn and D. Ashworth

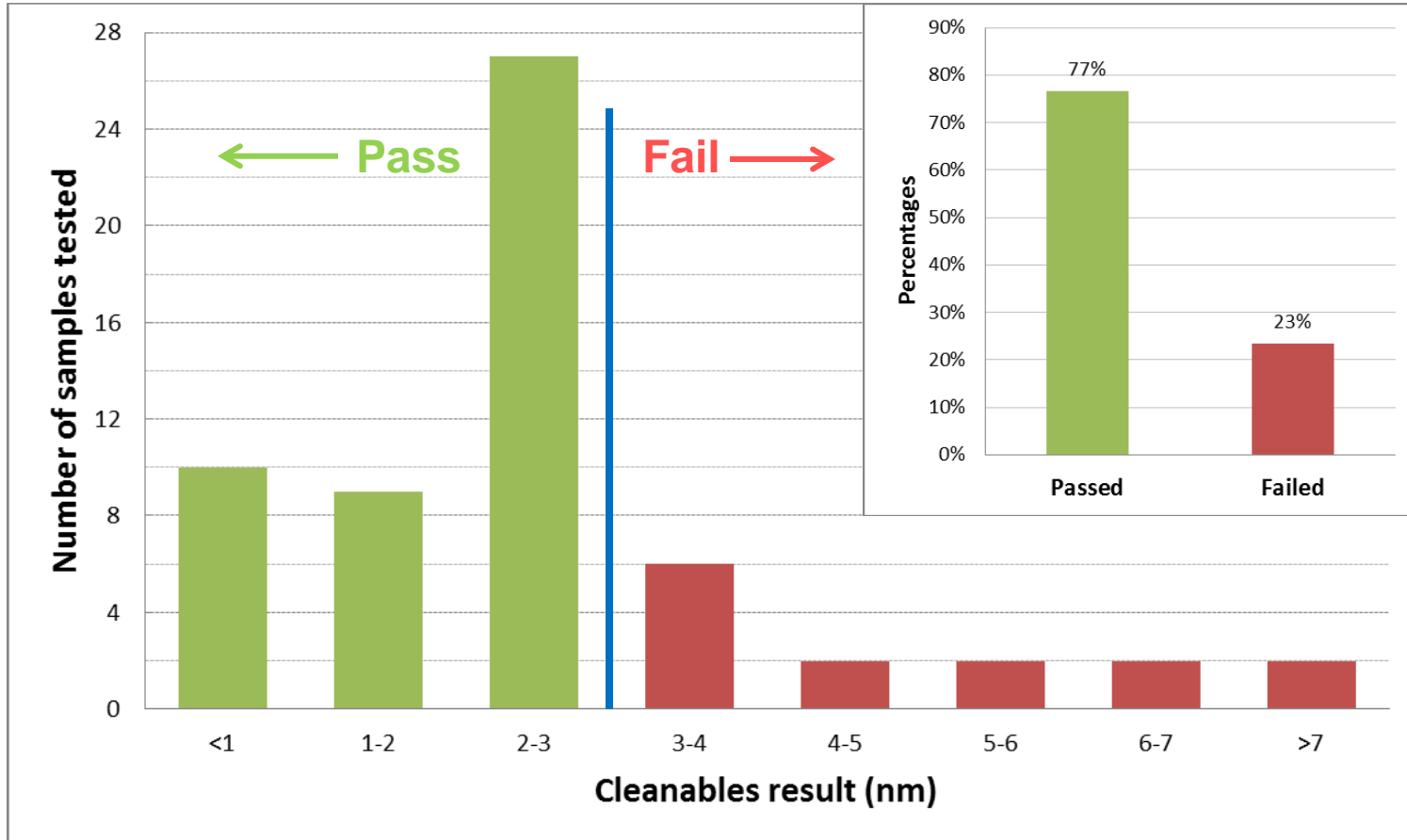


Customer Resist Samples Tested in 2013



- Cumulative count of customer samples tested till each date is shown

Cleanables Data Results



- Over 75% customer samples passed on cleanables
- 100% non-cleanable passed

SEMATECH Outgas Testing – Current Status



- ROX and EUVT tools are up and testing customer materials
 - ROX EUV source recovered WW28.
 - ASML re-certification of the EUVT tool in WW35 following POR excursions.
- Tool uptimes YTD:
 - EUVT 36%
 - ROX 51%
 - Supporting metrology tool uptime over >95%
- ROX e-beam certification is in progress
- EUVT wafer stage upgrade
 - Will be scheduled with supplier following performance evaluation.
- EUV evaluation on the EUVT tool has been put on hold until year-end to prioritize customer materials testing