

The latest challenges and possible solutions for micro LED mass-inspection

Southport co. Ltd.
Chairman/COO I-Jan Chen



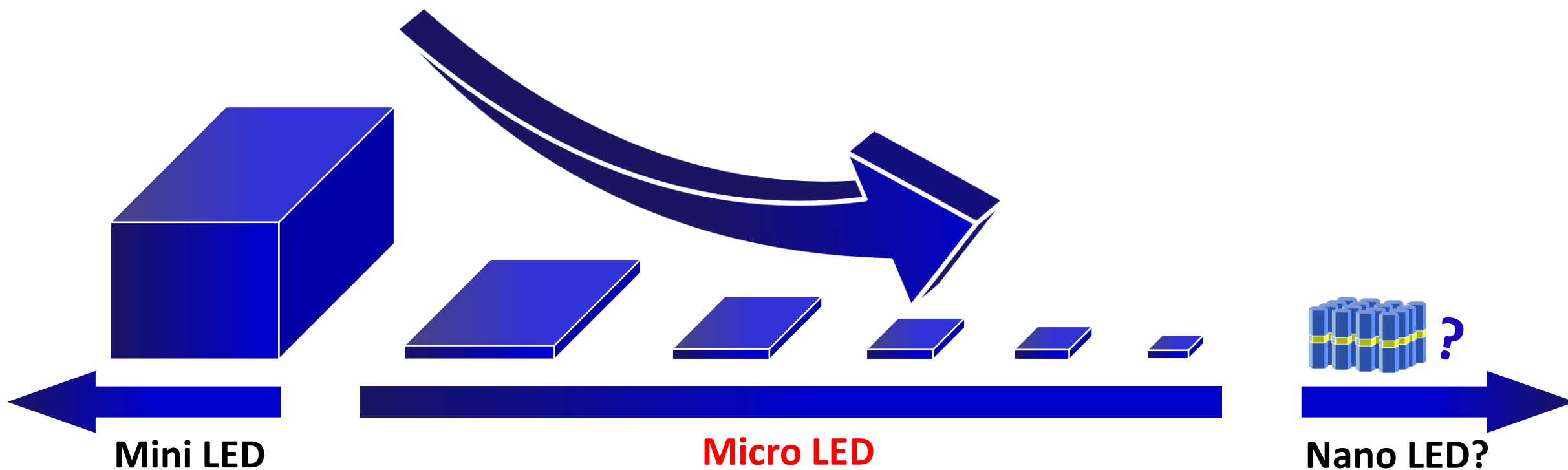
The specialty of Micro LED

SIZE

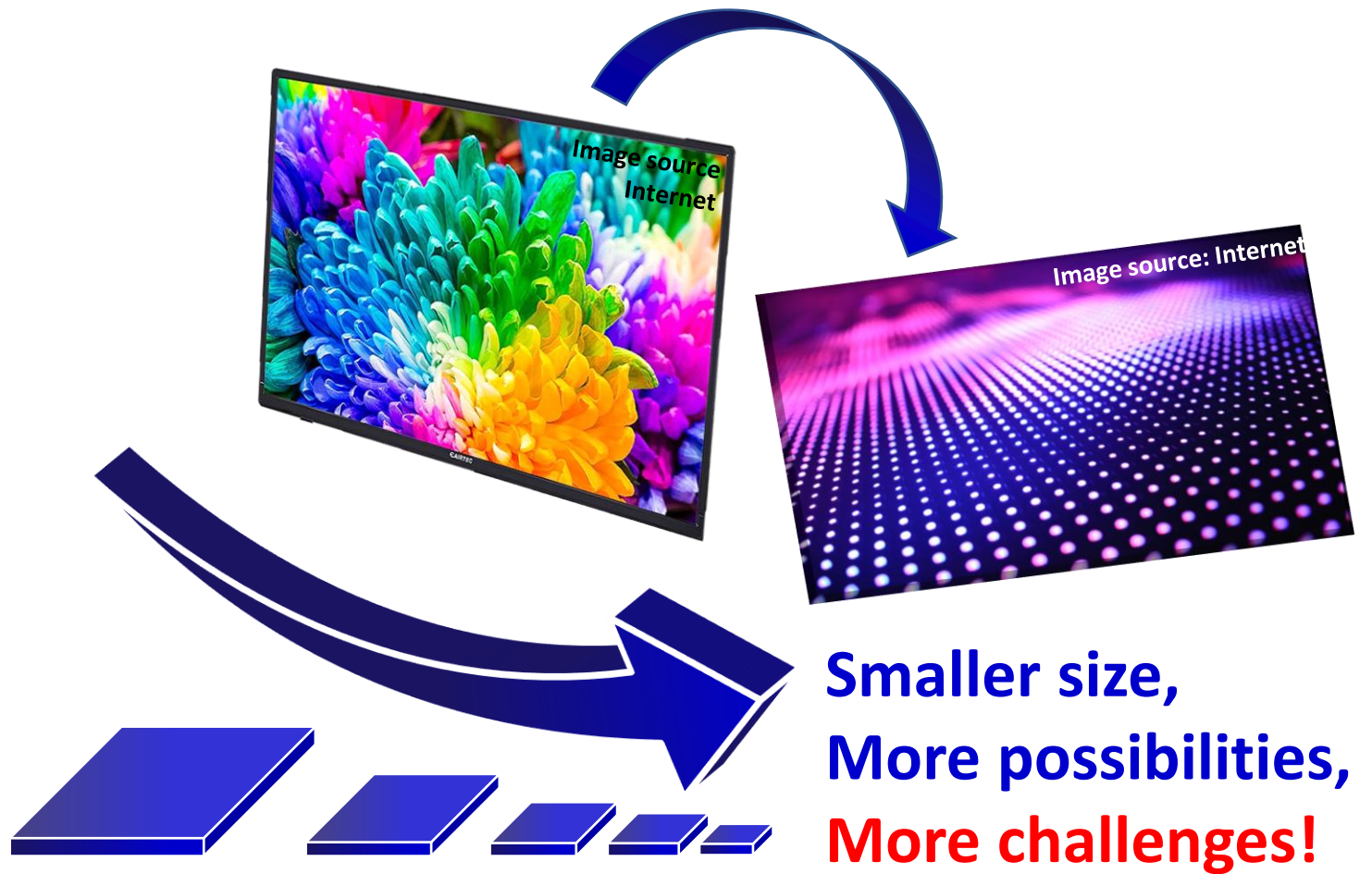
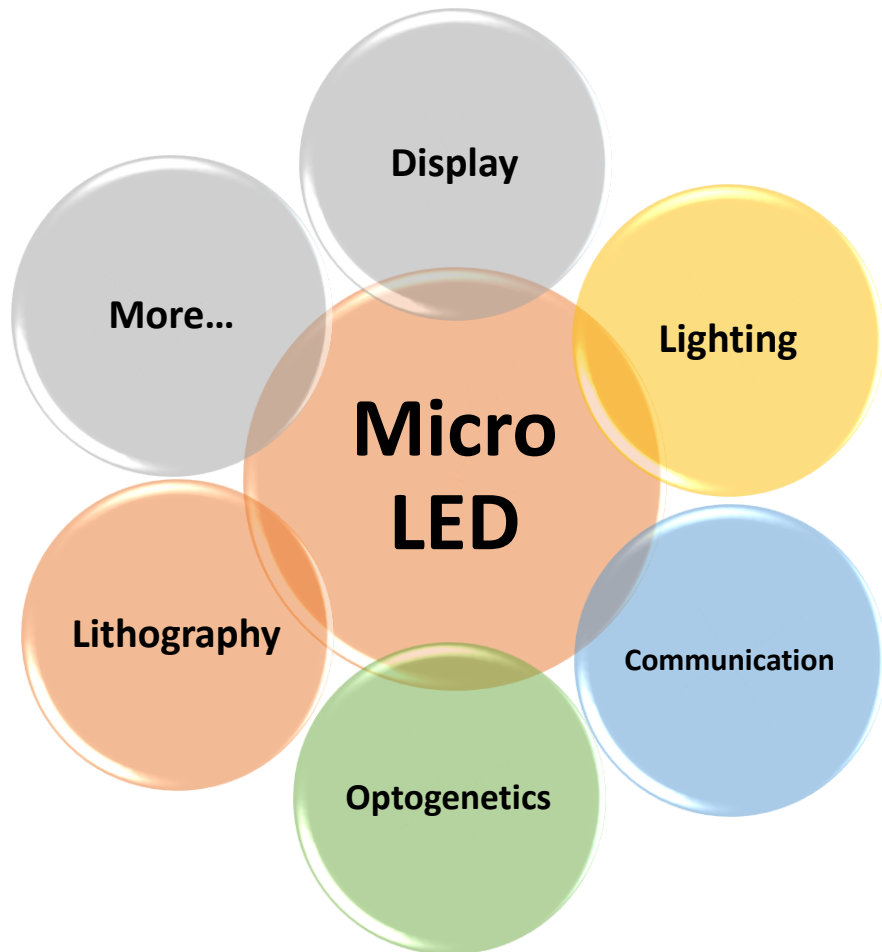
Number

Possibilities

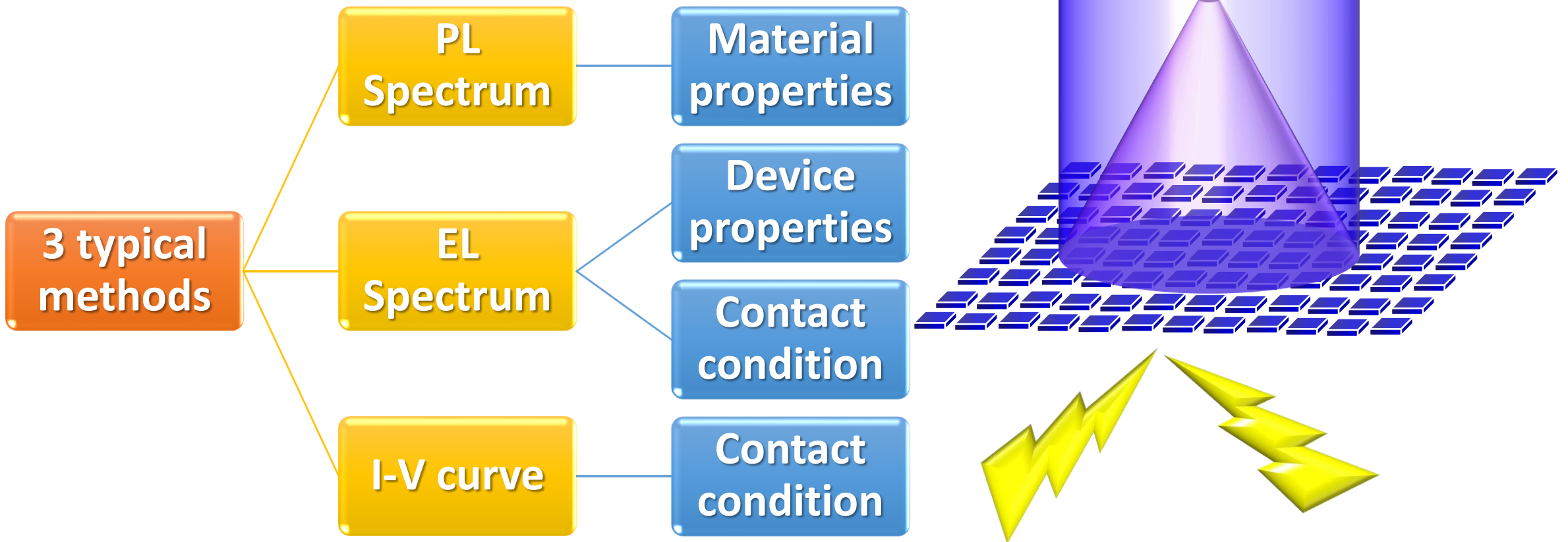
Applications!



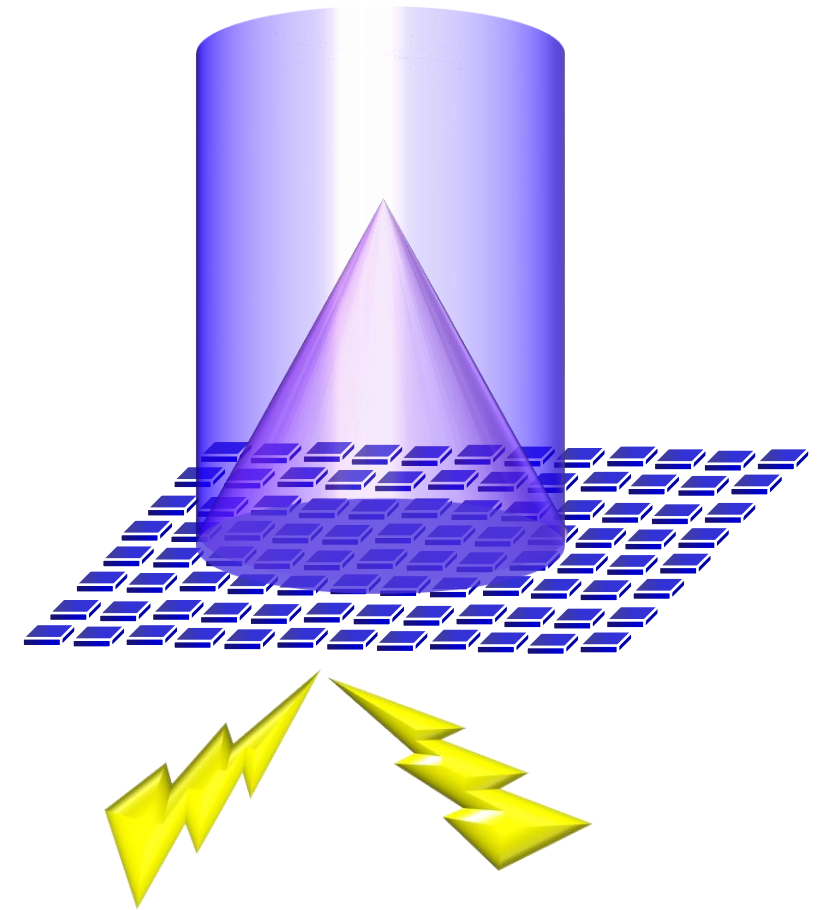
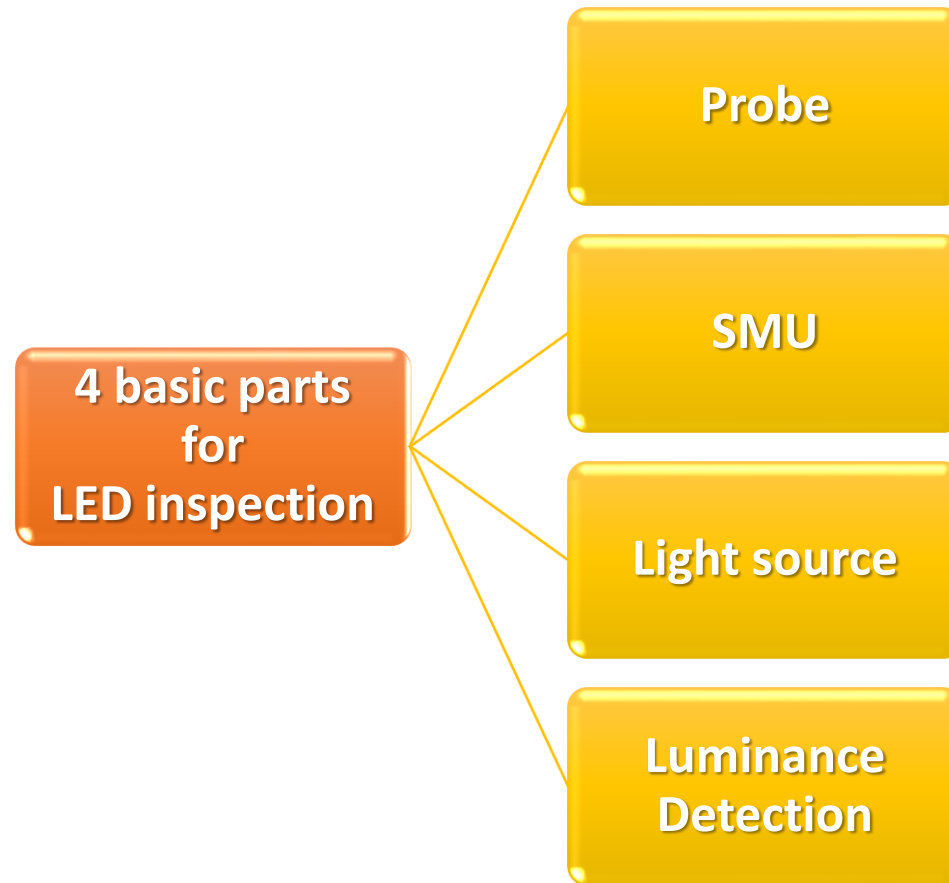
Applications of Micro LED



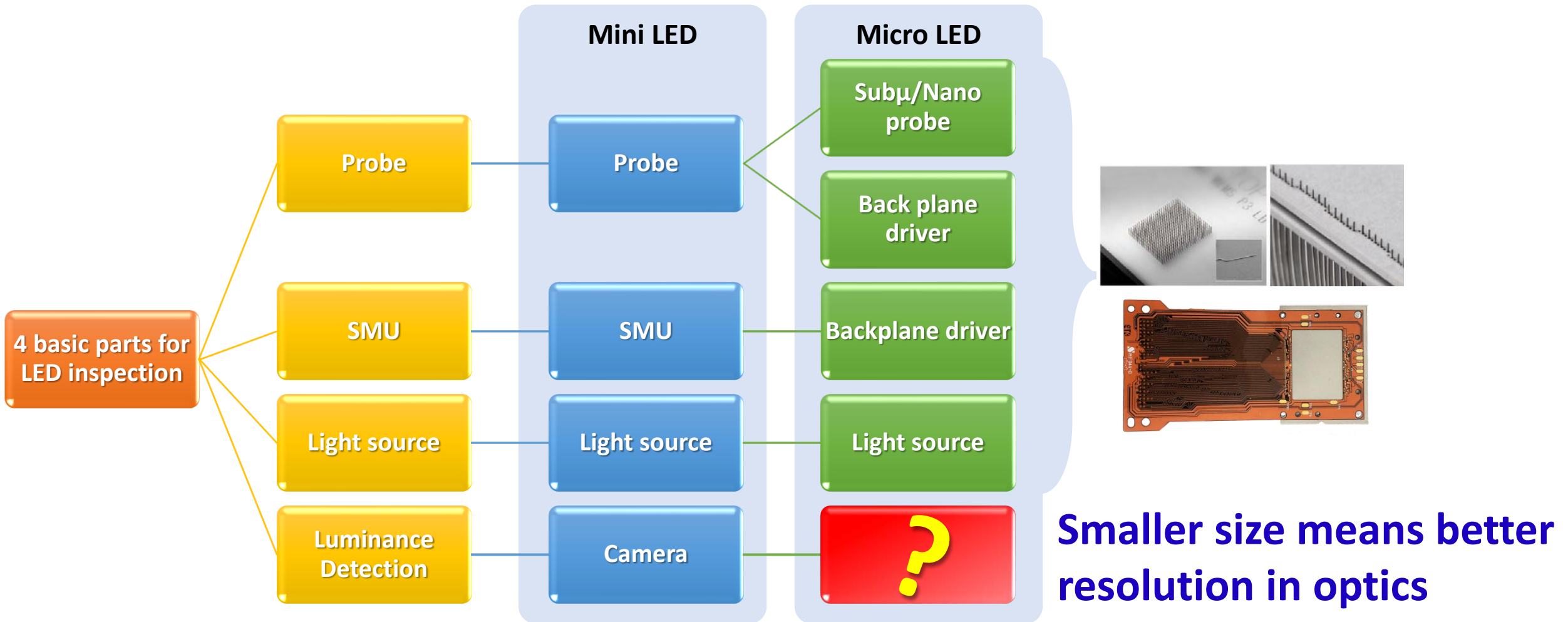
Challenges in inspection/metrology



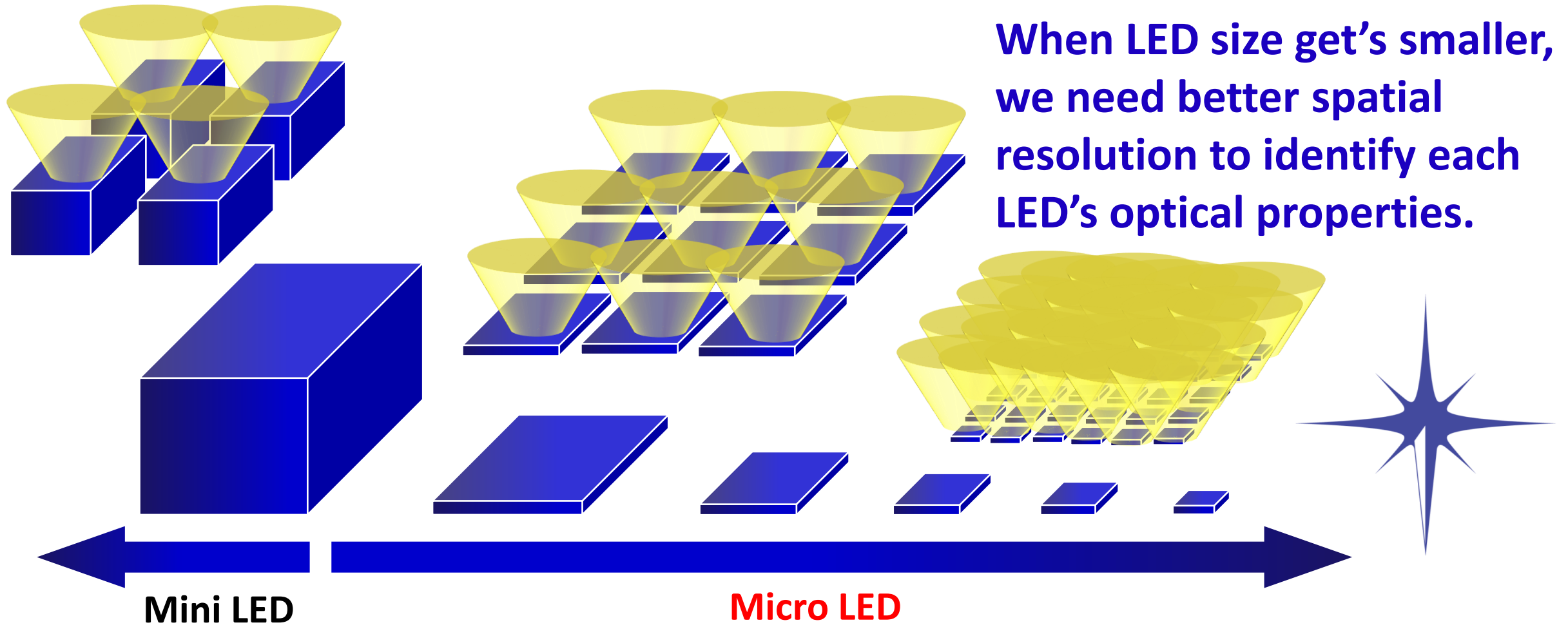
Challenges in inspection/metrology



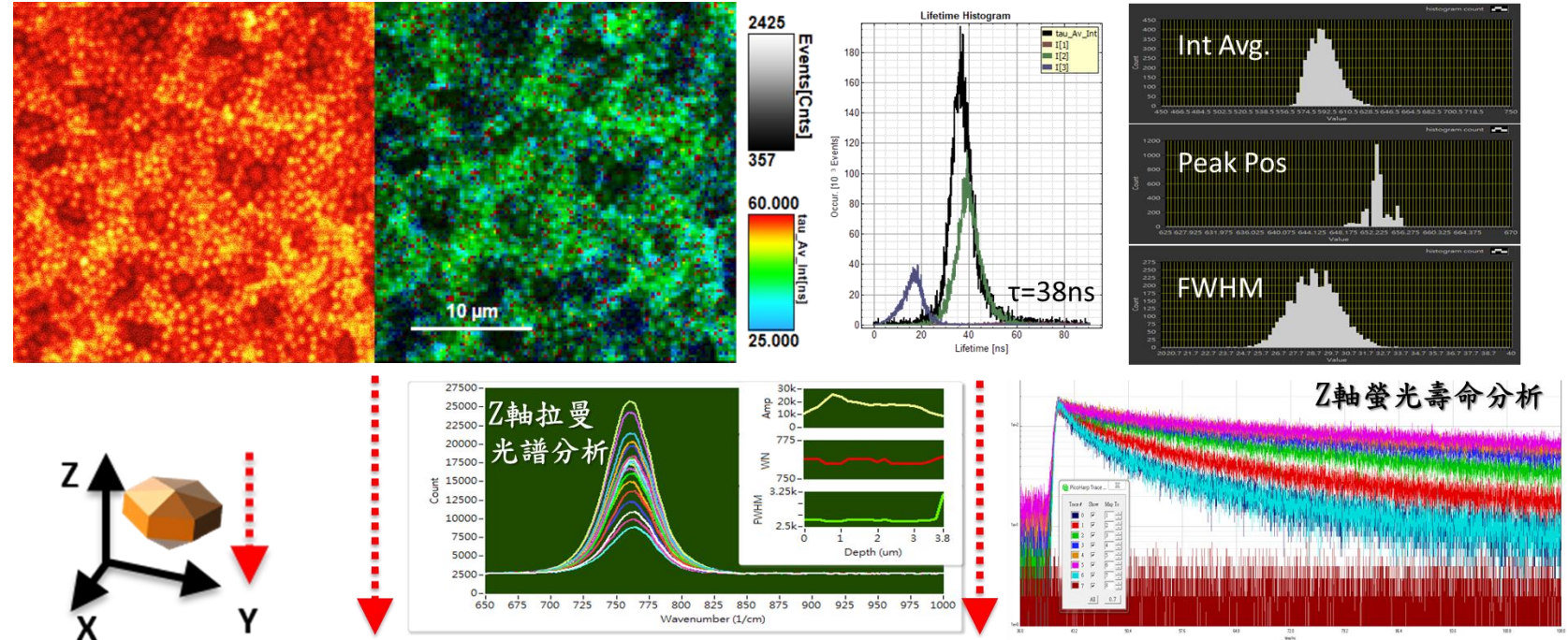
Challenges in inspection/metrology



Challenges in inspection/metrology



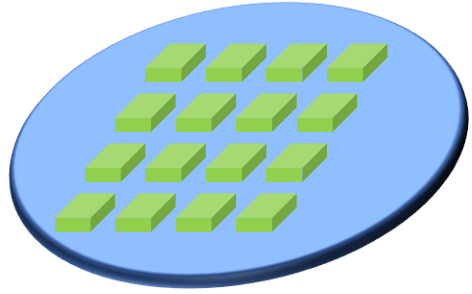
Solutions from Southport



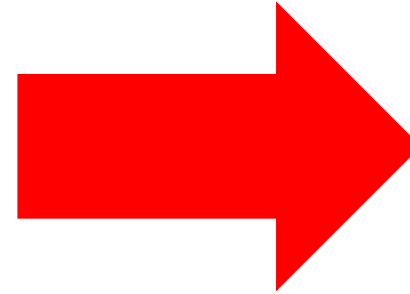
Integrate 3D PL/Raman image, 3D PL/Raman spectrum, TRPL, TCSPC, FLIM into one system.

Fast PL imaging/mapping on Micro LED after chip processing

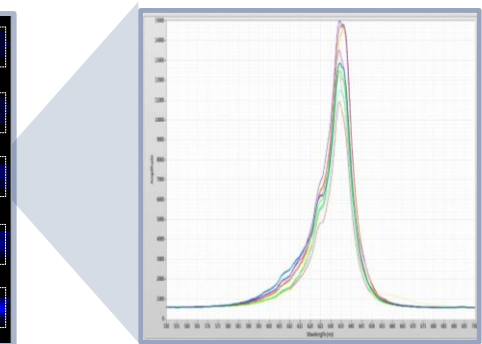
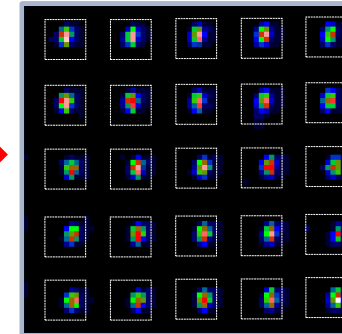
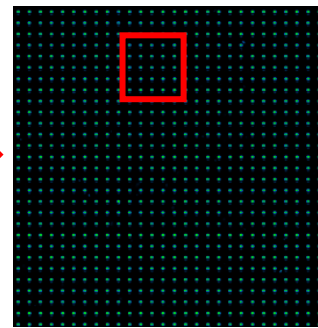
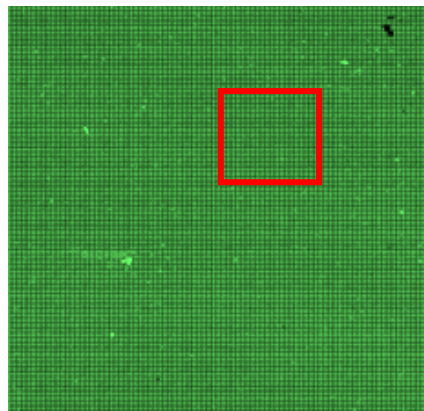
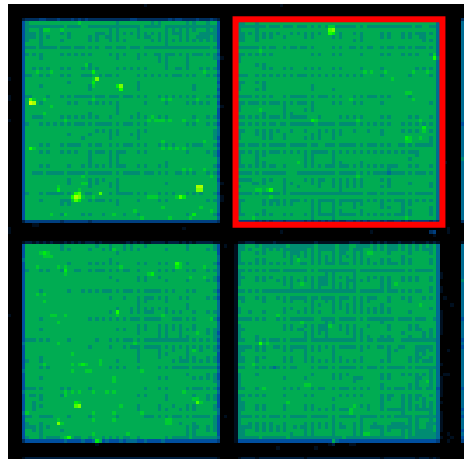
MicroLED on Wafer



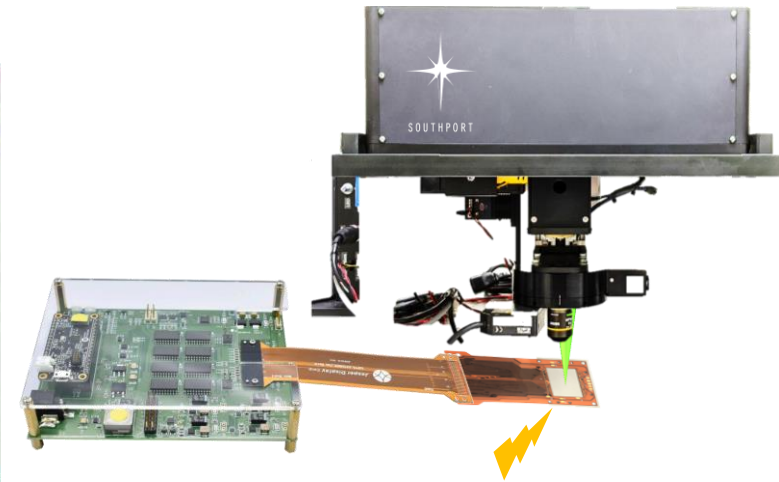
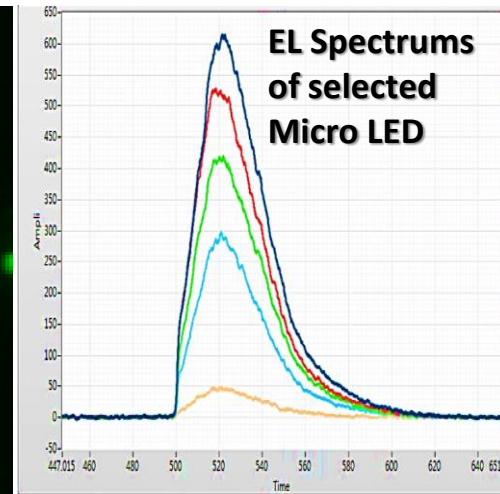
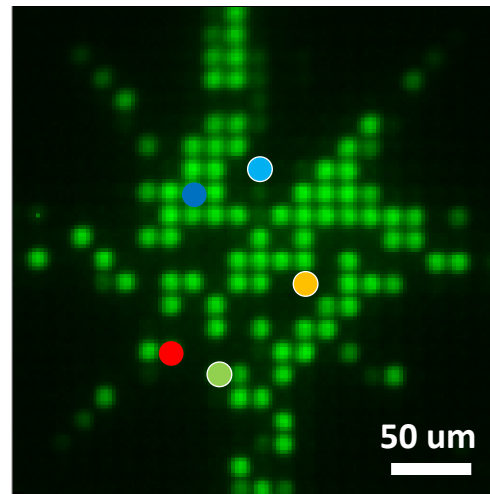
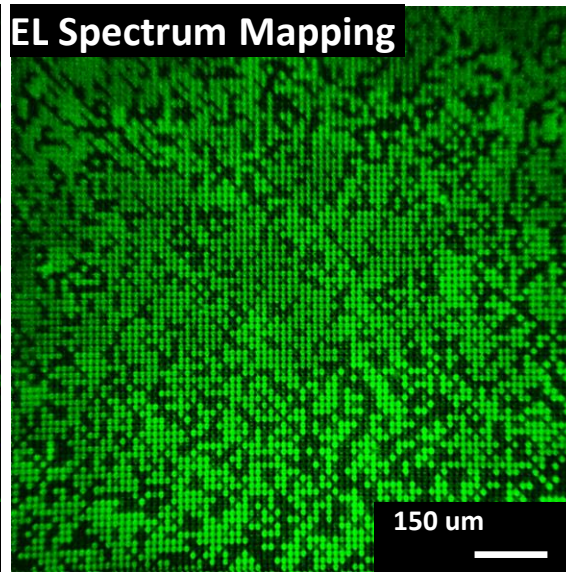
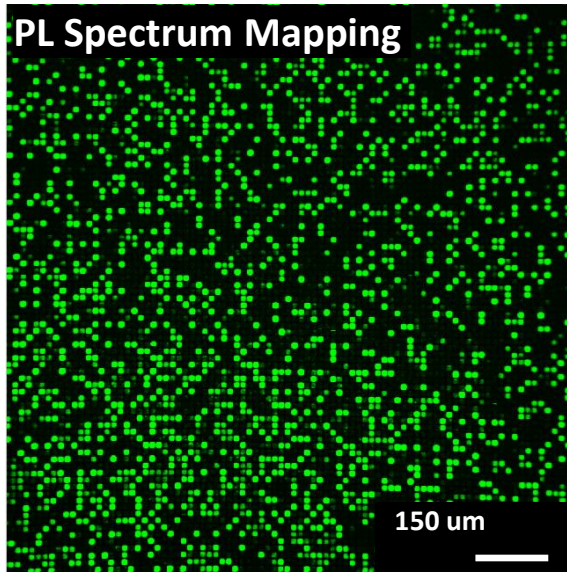
10 minutes get high resolution PL image on whole wafer



Zoom in to get PL spectrum of each Micro LED



PL/EL Testing of Micro LED on panel



Jasper Display Corp.



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