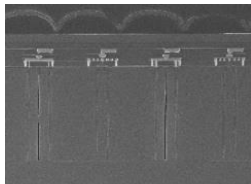
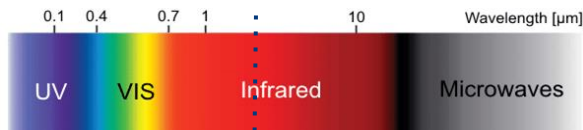


What SOI based platform can do for photonics

Substrates & Physical domains

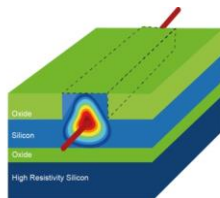
Silicon is opaque

Silicon is transparent



Visible or NIR
image sensors

Very thin SOI
Multi-die stacking



Silicon Photonics SOI layer
enabling passive waveguides

Passive wave guides
III-V heterogeneous integration

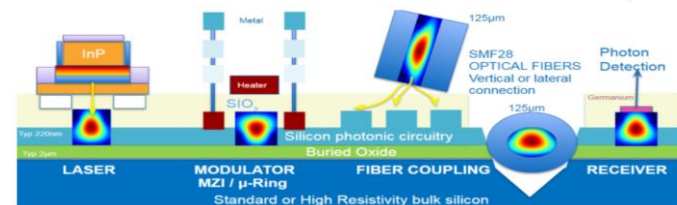
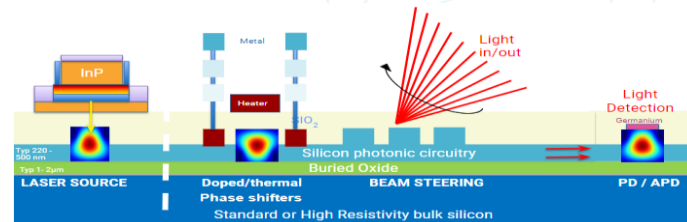
IMAGER-SOI

SiPh-SOI

Perfect for large range of applications

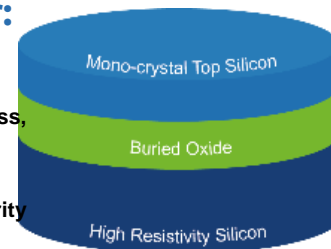
Propagation mode:

- Free air (spectrometer, bio, OPA, LIDAR)
- Optical fiber interconnect (Transceivers, CPOs, Optical I/Os)



Functional layers in SOI wafer:

- High uniformity and low defectivity
- TopSi / BOX surface roughness, Index contrast
- Enhanced RF performance / signal integrity
Chip-to-fiber coupling and TSV technologies



SOI wafers are fully available in 8 and 12" with thin or thick layers

Thank you

Follow us on:

 Soitec

 @Soitec_FR / @Soitec_EN

 Soitec



For more information, visit us at:

 www.soitec.com



