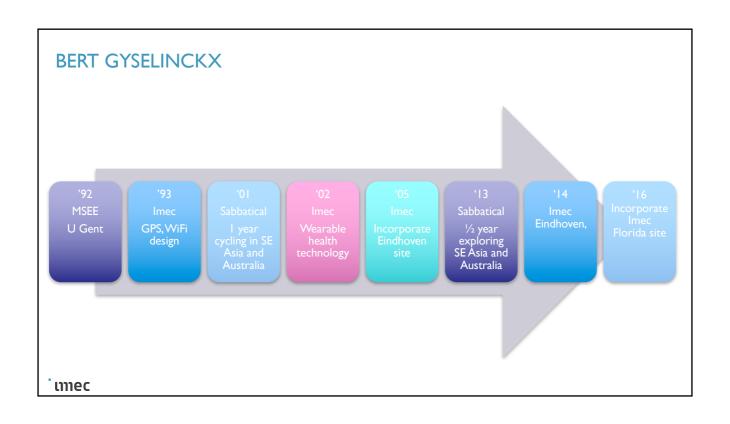
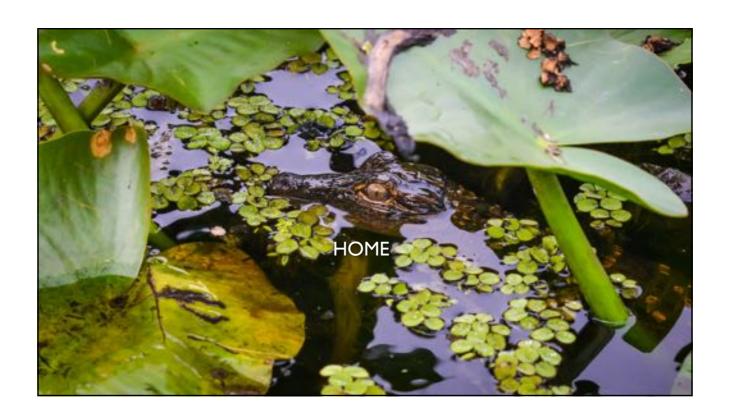


PHOTONICS IN THE MAGIC KINGDOM FAIRY TALES AND TALENT FAIRS

BERT GYSELINCKX IMEC USA



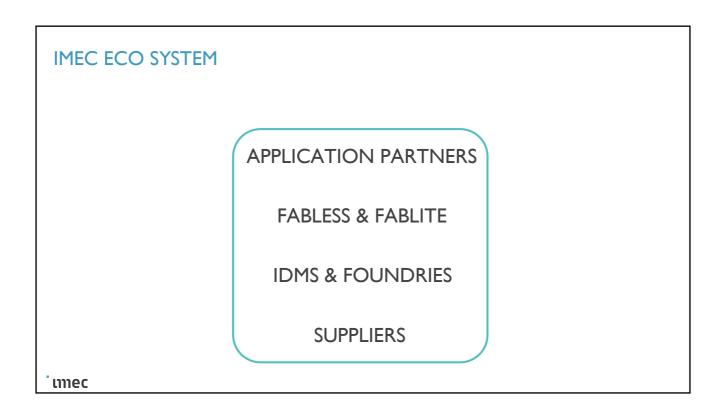


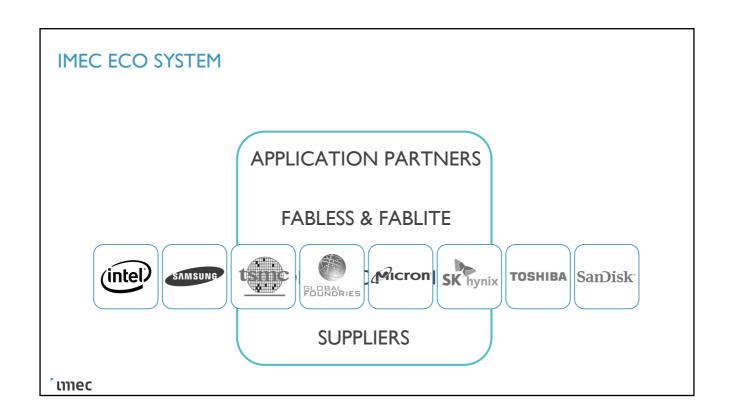


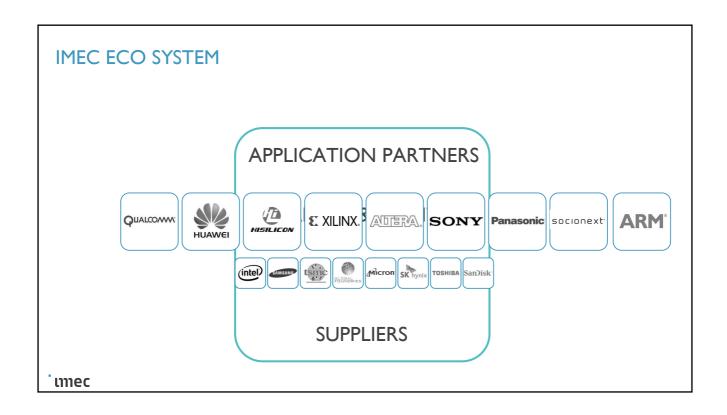


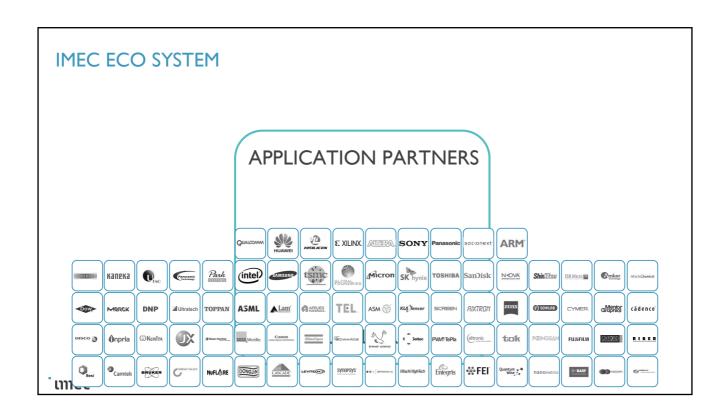


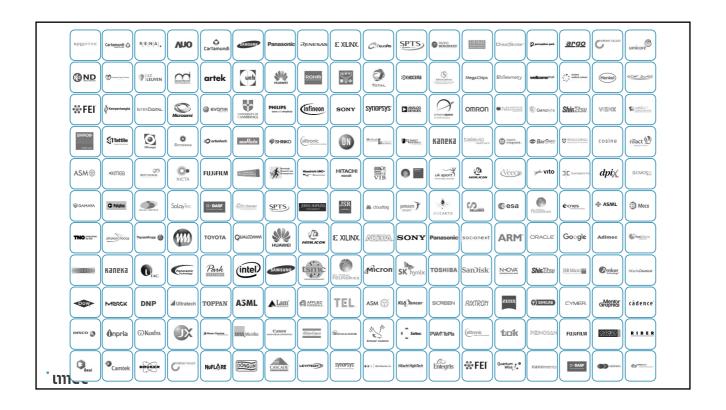










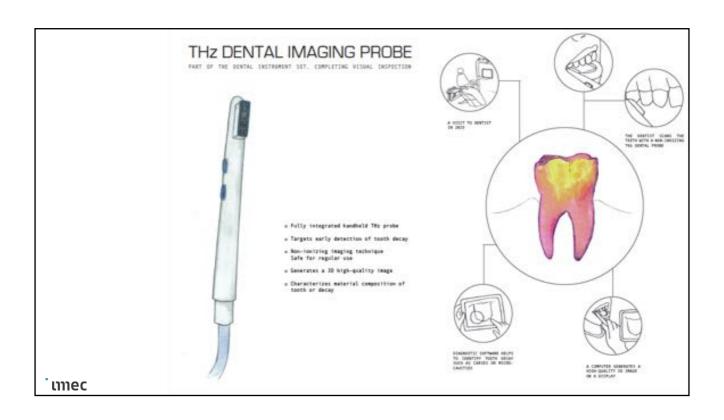


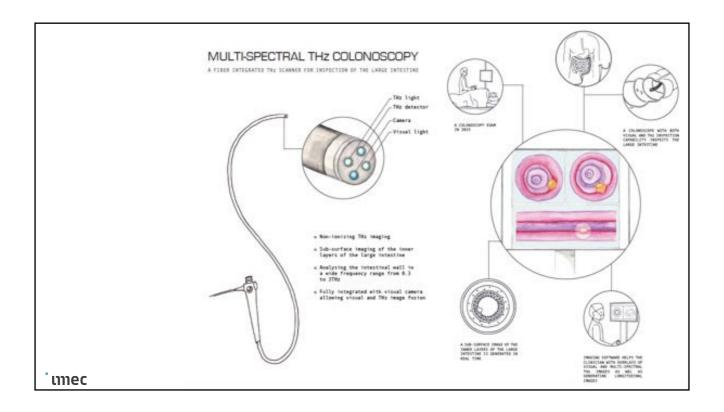


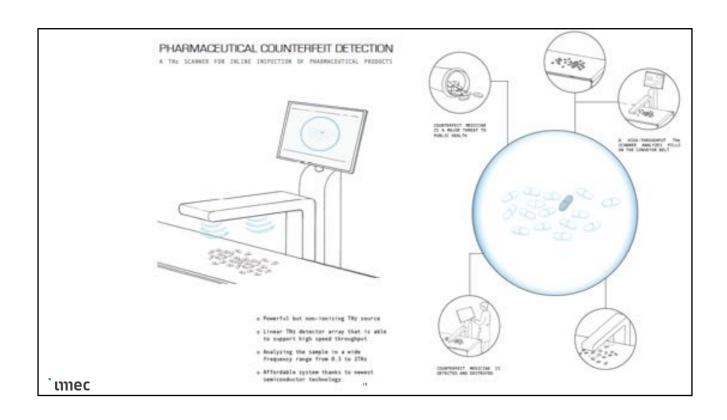


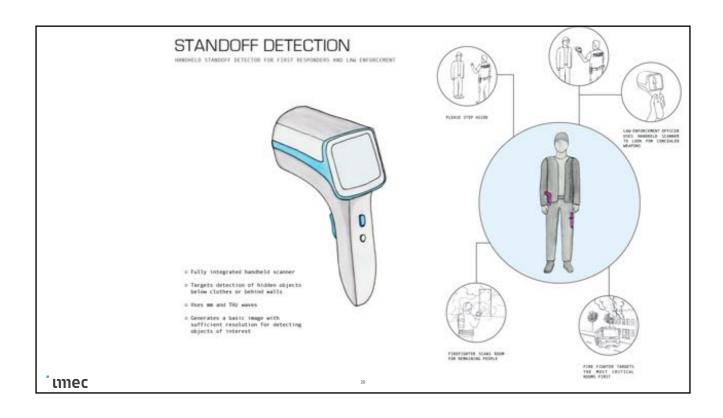


DESIGN CENTER
FOR
HIGH FREQUENCY ELECTRONICS AND PHOTONICS

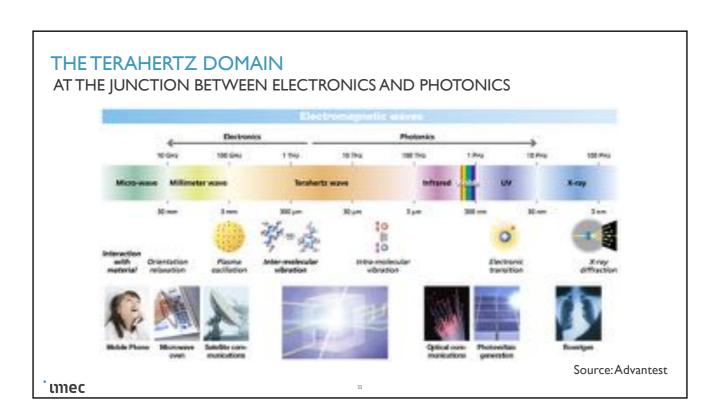


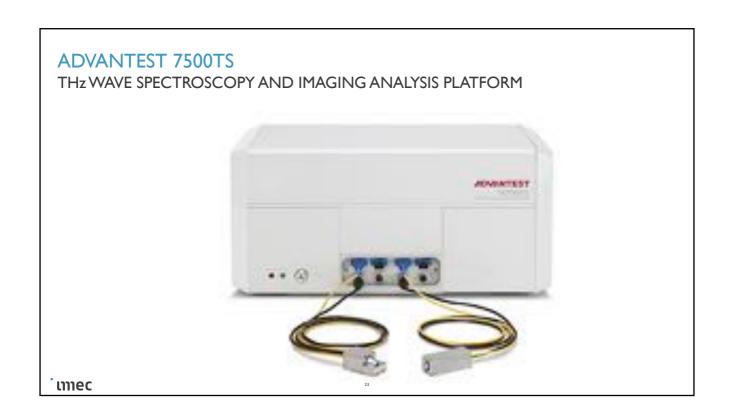


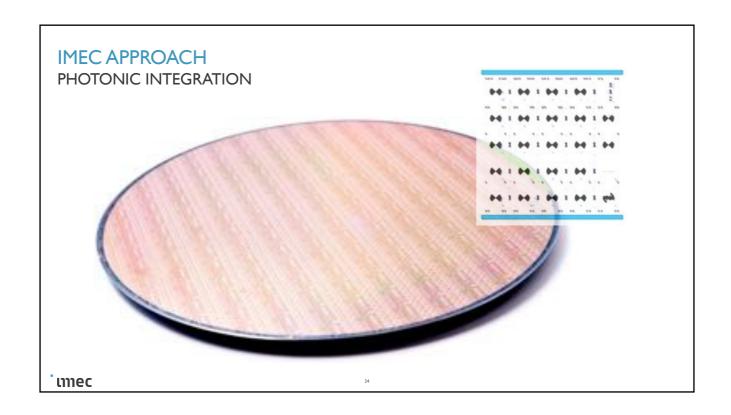


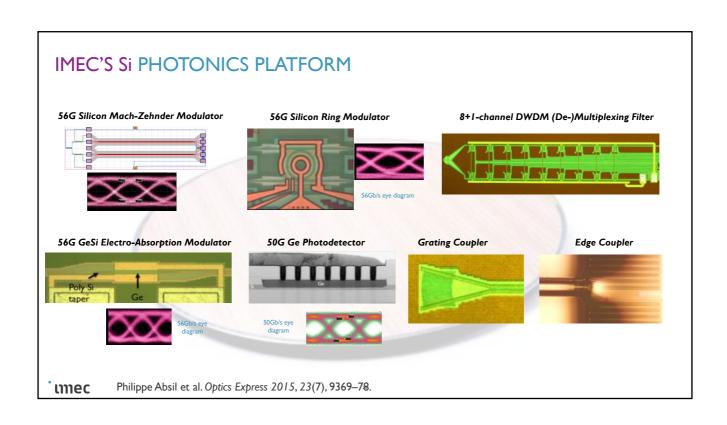


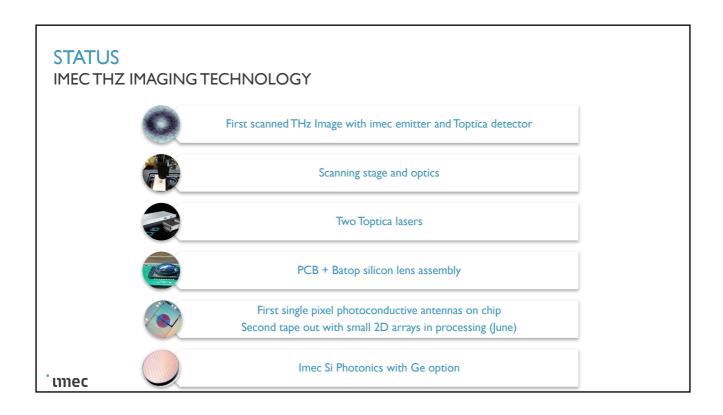
THz PHOTONIC INTEGRATED CIRCUITS

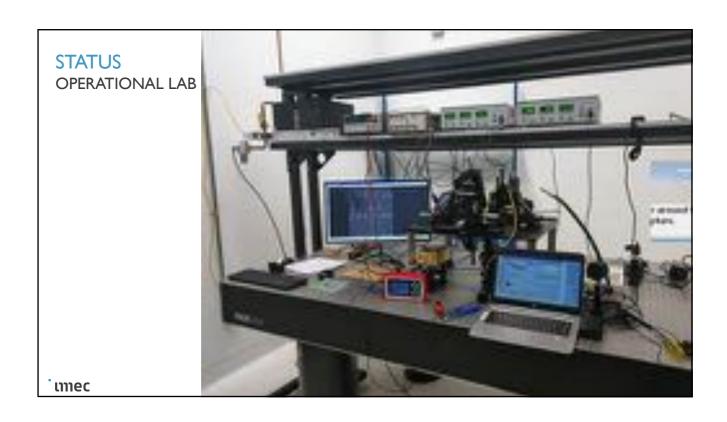


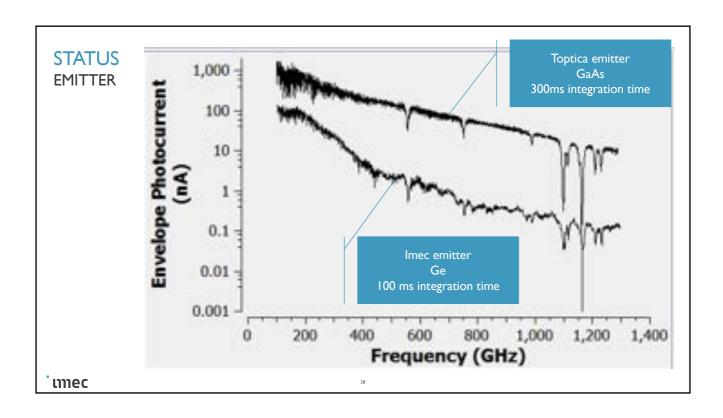


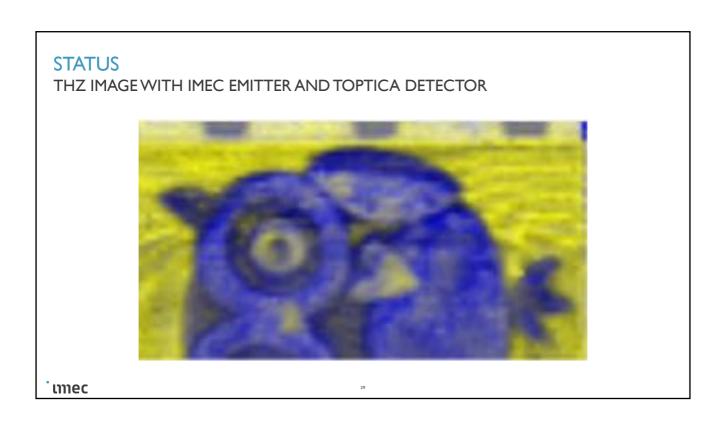


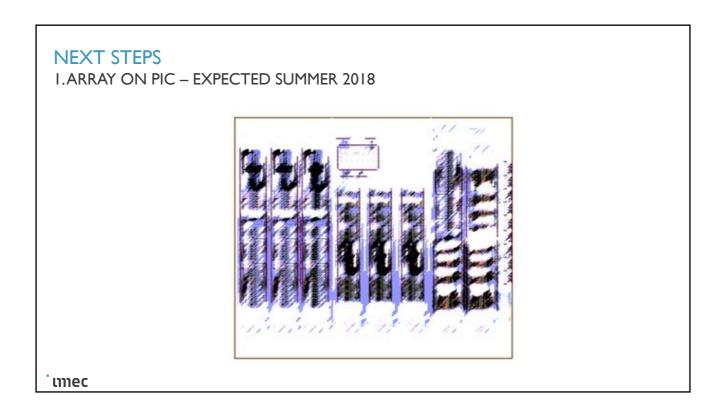


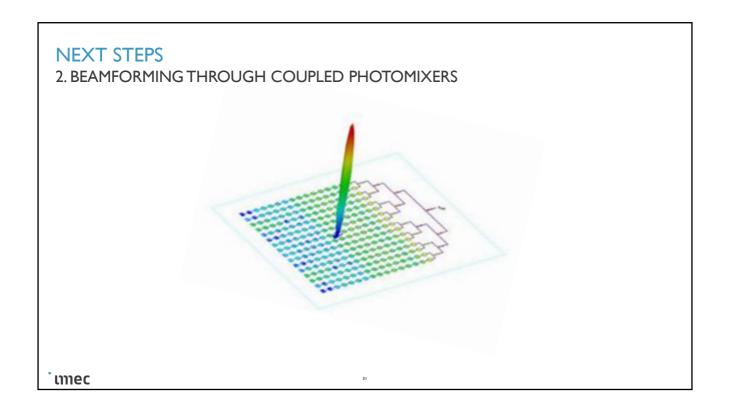


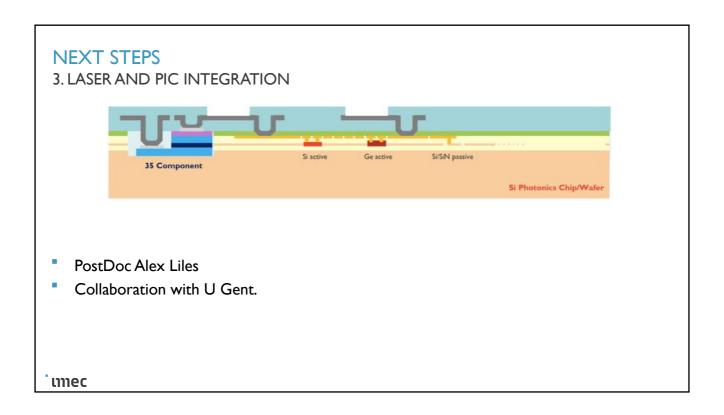








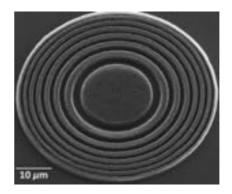




NEXT STEPS

4. FRESNEL LENS ON CHIP



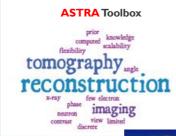


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NEXT STEPS

5.THZ TOMOGRAPHY WITH U ANTWERPEN

Goal: Develop algorithms for 5D (3D volume + frequency + phase) terahertz tomography to enable imaging applications with imec hardware





imec spectrally coherent THz imager

- Steerable emitter array (fast scanning
- Detector array: coherent, high SNR + phase information
- Integrated laser diodes:
 coherent excitation of emitter /
 detector





E.g. Non-Destructive Analysis of Ceramic Diesel Particulate Filters (Advantest)

unec

