

Nikolay Petkov



Eurosensors 2016, PiezoMAT Workshop,





@ 1998 Microsoft Corp and/or its suppliers.

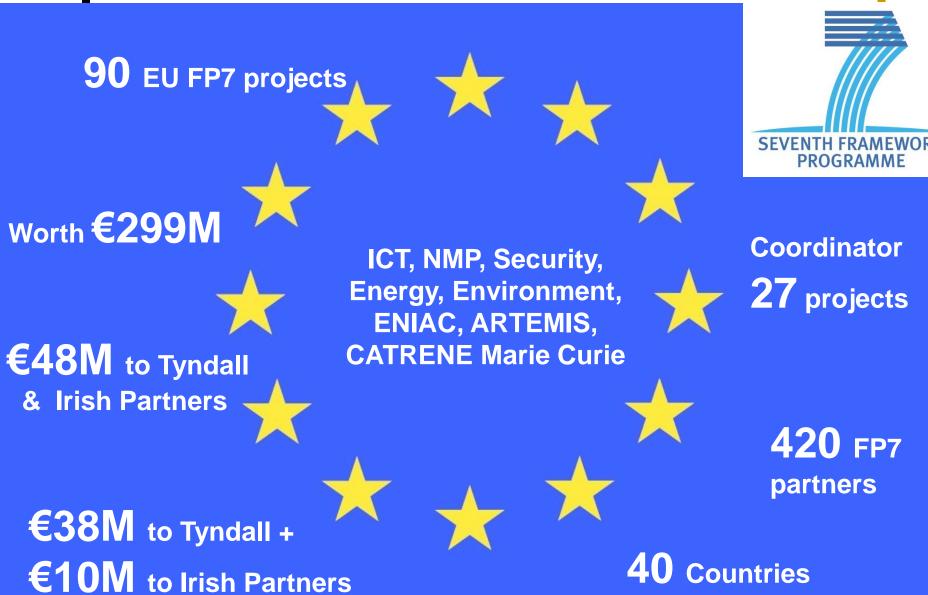




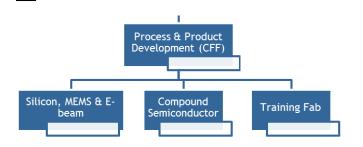




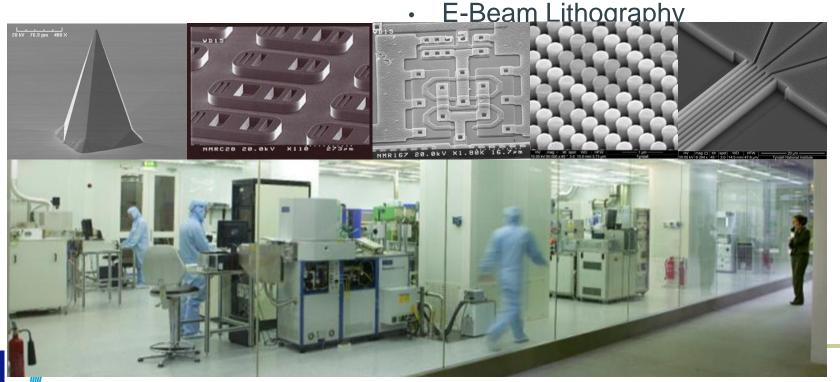
Tyndall & FP7 success



Tyndall: Process & Product Development

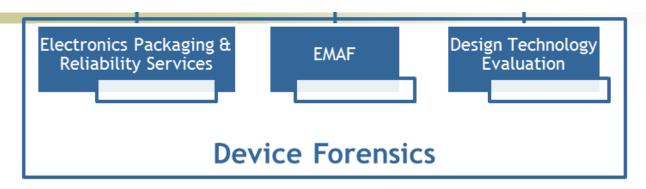


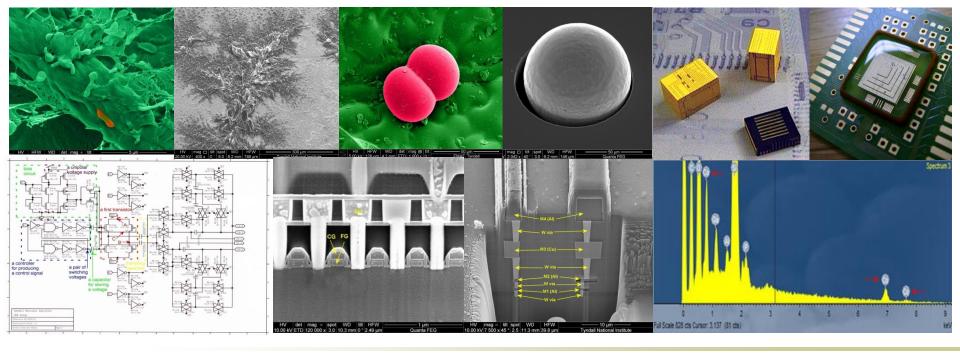
- Silicon MOS Fabrication
- MEMS Fabrication
- Compound Semiconductor Fabrication
- Training Facility





Tyndall: Device Forensics



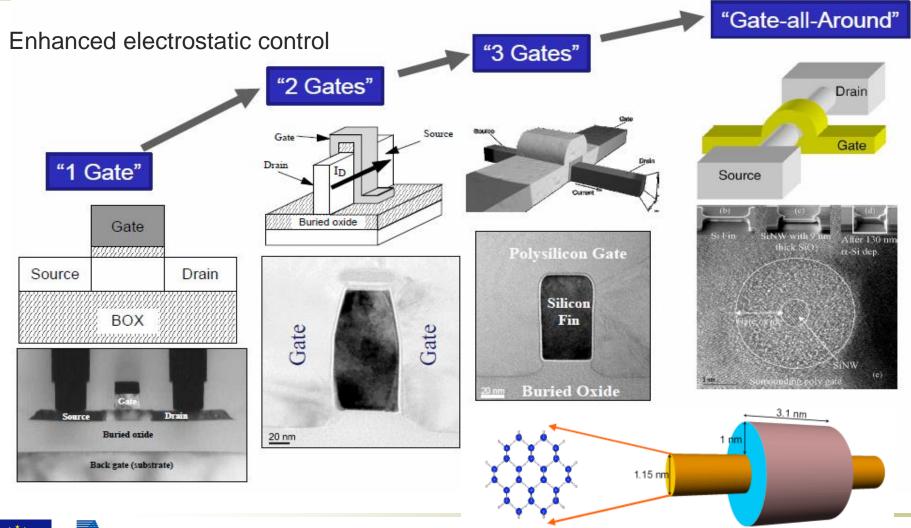








Nanowire transistors

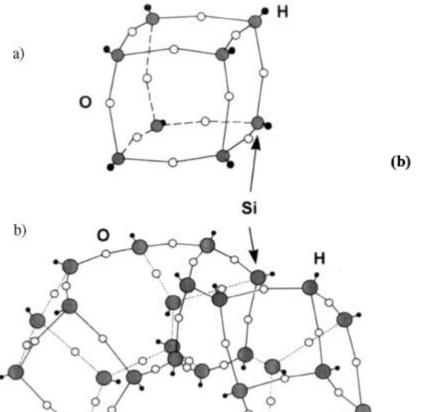




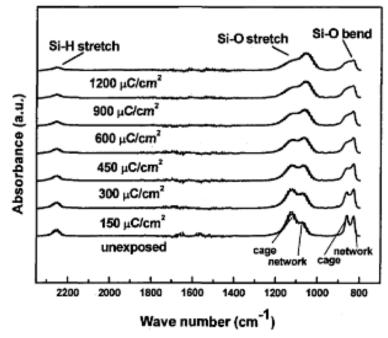


High resolution EBL

Hydrogen silsesquioxane (HSQ)





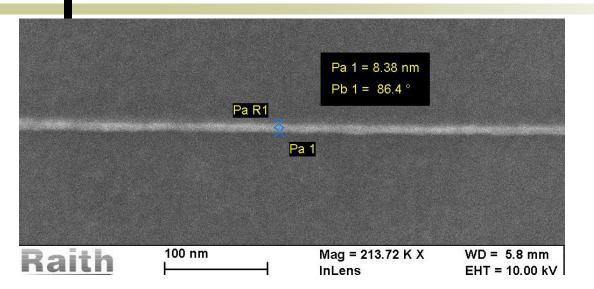






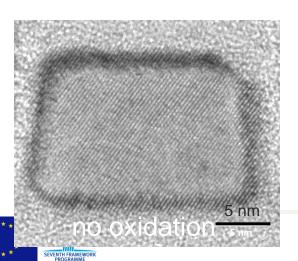


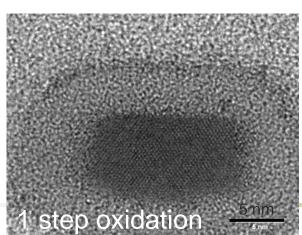
Sub-10 nm Si NWs

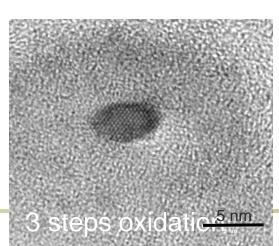


HSQ mask with sub-10 nm line width

HSQ mask with 20 nm line width and reduction of the Si-body by oxidation

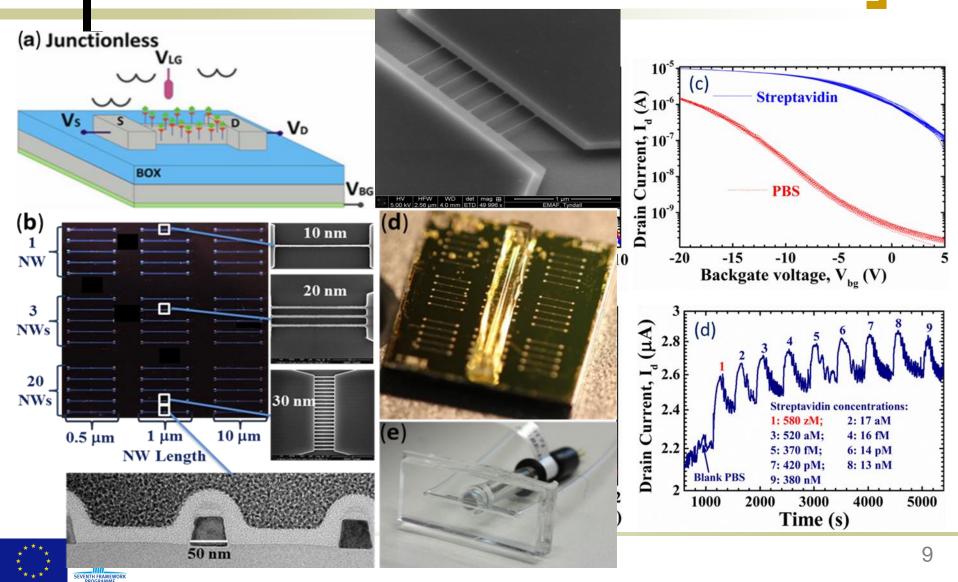




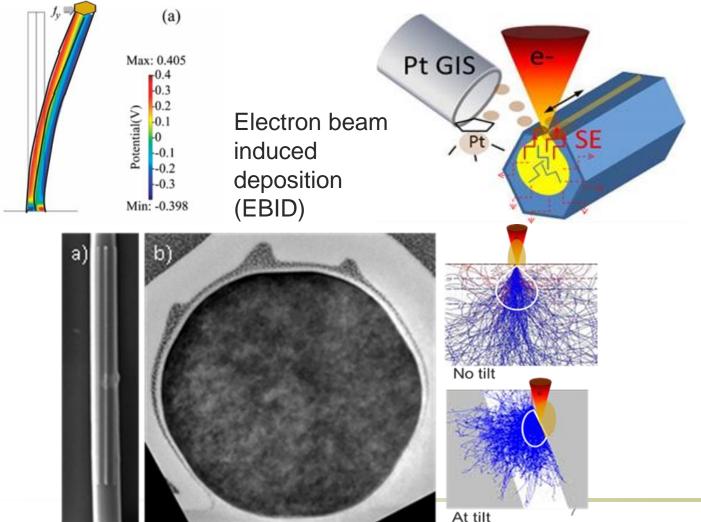


FP7 SiNAPS Project

Semiconducting Nanowire Platform for Autonomous Sensors



Contacting individual facets of vertical structures

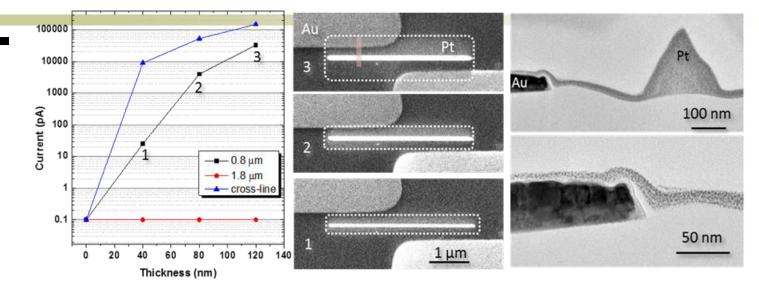




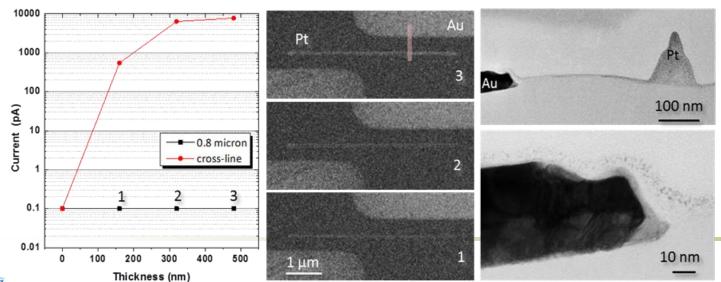


Understanding EBID halo formation

5 kV











EBID on individual vertical facets and prototype devices

