

Audiência Pública Virtual para debater o tema
“Bio e Nanotecnologia”.

Euclides Marega Junior

Center for Optics and Photonics (CEPOF)

Sao Carlos Institute of Physics – University of Sao Paulo

<http://cepof.ifsc.usp.br> – euclides@ifsc.usp.br

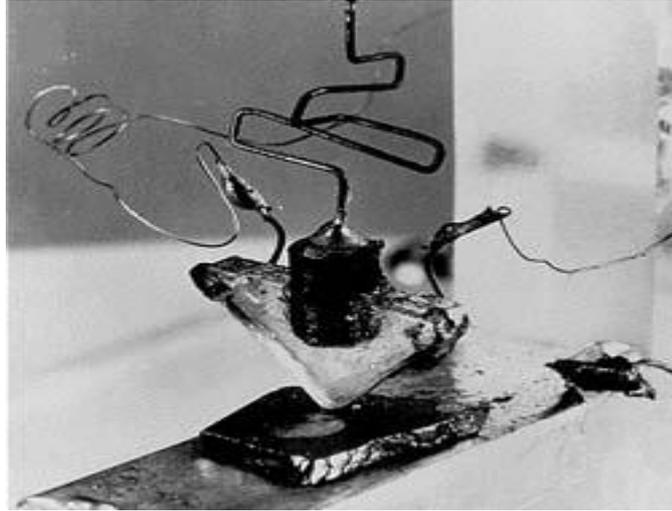
Lattes: <http://lattes.cnpq.br/1410215769571368>

- 
- INTELIGÊNCIA ARTIFICIAL
 - COMPUTAÇÃO QUÂNTICA
 - COMUNICAÇÃO QUÂNTICA
 - INTERNET DAS COISAS
 - BIÓPISIA LÍQUIDA

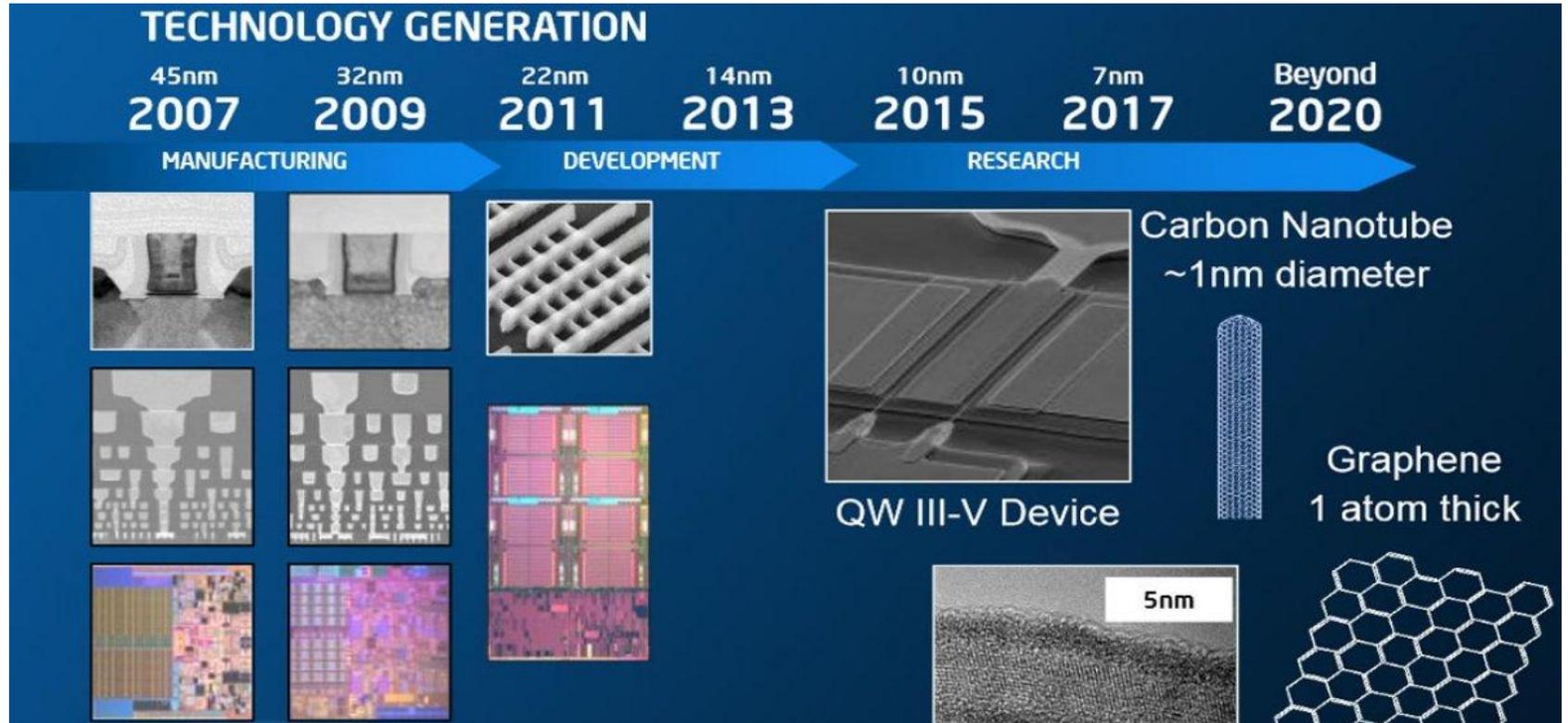
Mobile Phone Evolution Reflects Moore's Law



A re-invenção da eletrônica– O Transistor

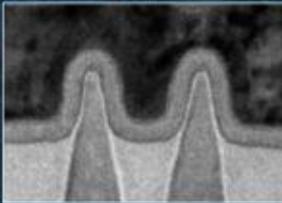


1º Transistor (1947) - Foto
Schockley, Brattain e Bardeen



3RD GENERATION FINFETS

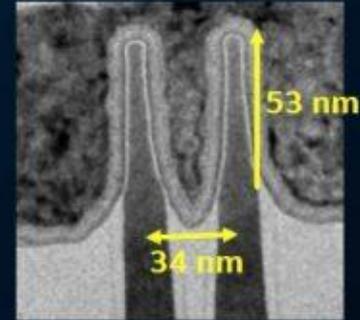
22 NM



14 NM

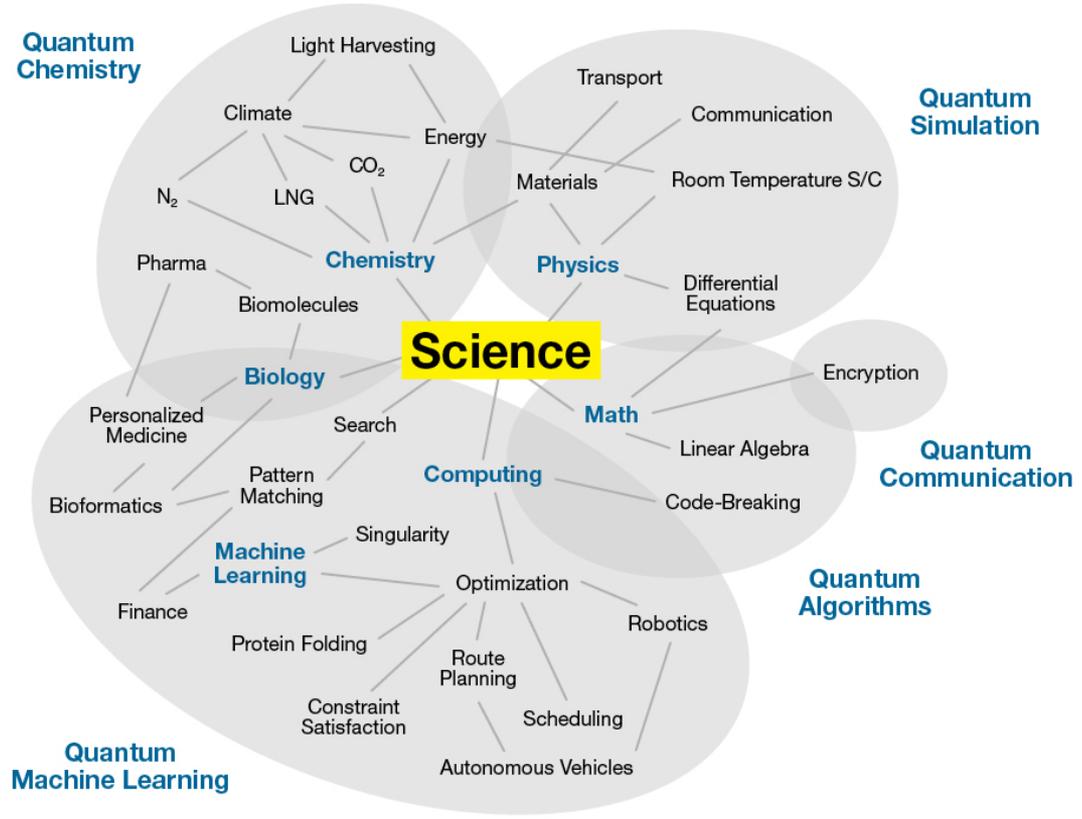


10 NM



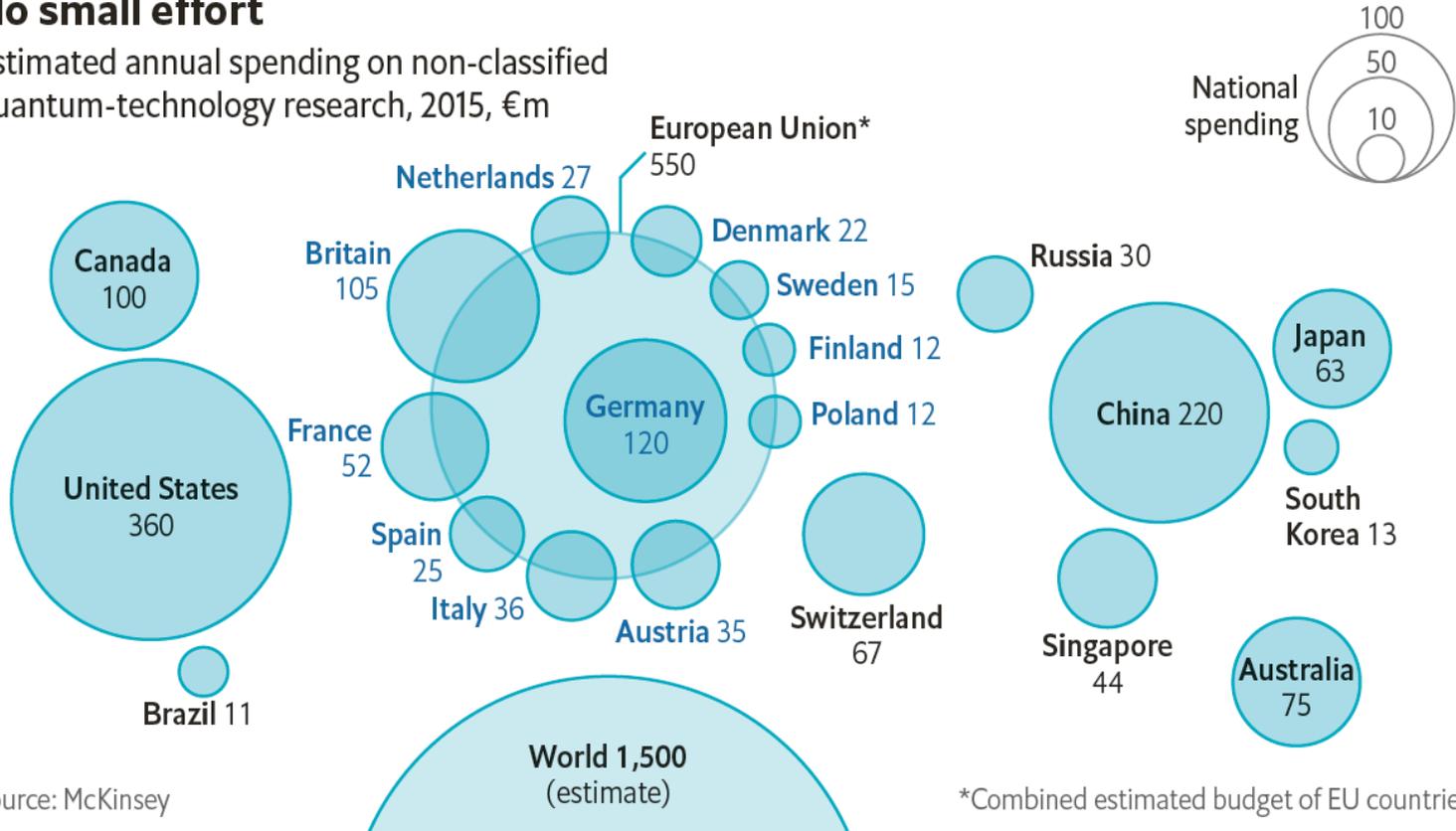
Intel's 10 nm technology features a Fin Pitch of 34 nm, Fin Height of 53 nm





No small effort

Estimated annual spending on non-classified quantum-technology research, 2015, €m



Source: McKinsey