

Conferência Internacional em Economia de Base Biológica

Resumo da reunião preparatória na FAPESP em 18/junho/2015

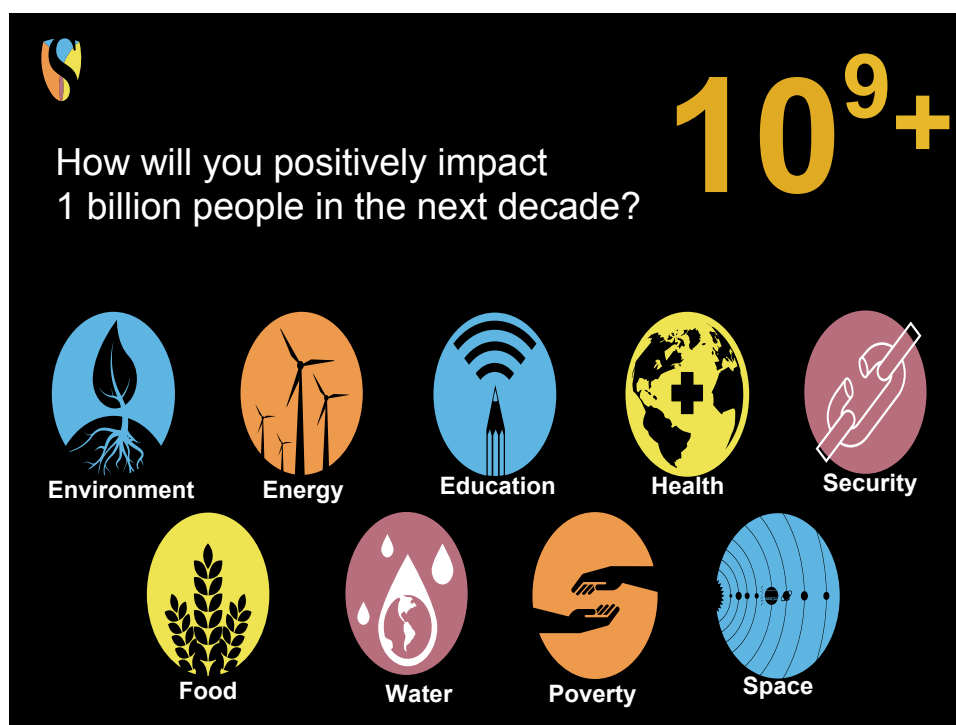
Wilson Nobre

CONIC e Fórum de Inovação da FGV-EAESP

CONTEÚDO PARA A CONFERÊNCIA



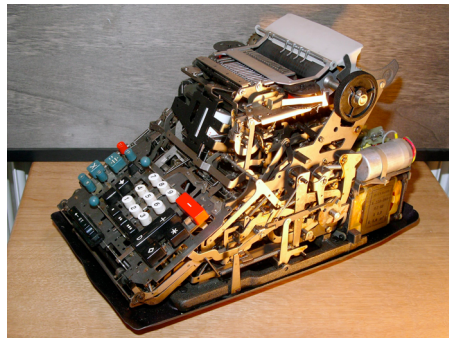
QUEM DEVE PARTICIPAR



Paradigmas

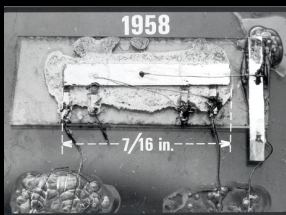
Eu vivi esta história:

- 1970 calculadora mecânica e computador mecânico
- 1970-1973 – relês, válvulas, transistores e circuitos integrados
- 1982 – CAD de circuitos integrados
- Etc.



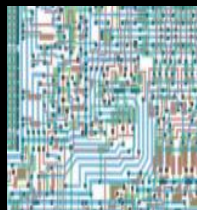
Integrated Circuits

1958: 2 transistors



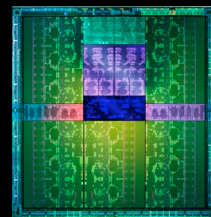
2 transistor

1971: Intel 4004



2,300 transistors

2012: Nvidia's GPU



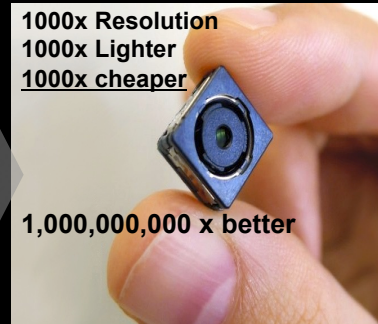
7.1 billion transistors

**← 10K (faster) & 10M (cheaper) →
100 Billion-fold improvement (40 yrs)**

Exponential Growth



1976 – 1st Digital Camera (Kodak)
0.01 MP / 3.75 lbs / \$10,000



2014– Mobile Digital Camera
>10 MP / 0.03 lbs / \$10

Moore's Law – 5th Paradigm of Exponential Growth

