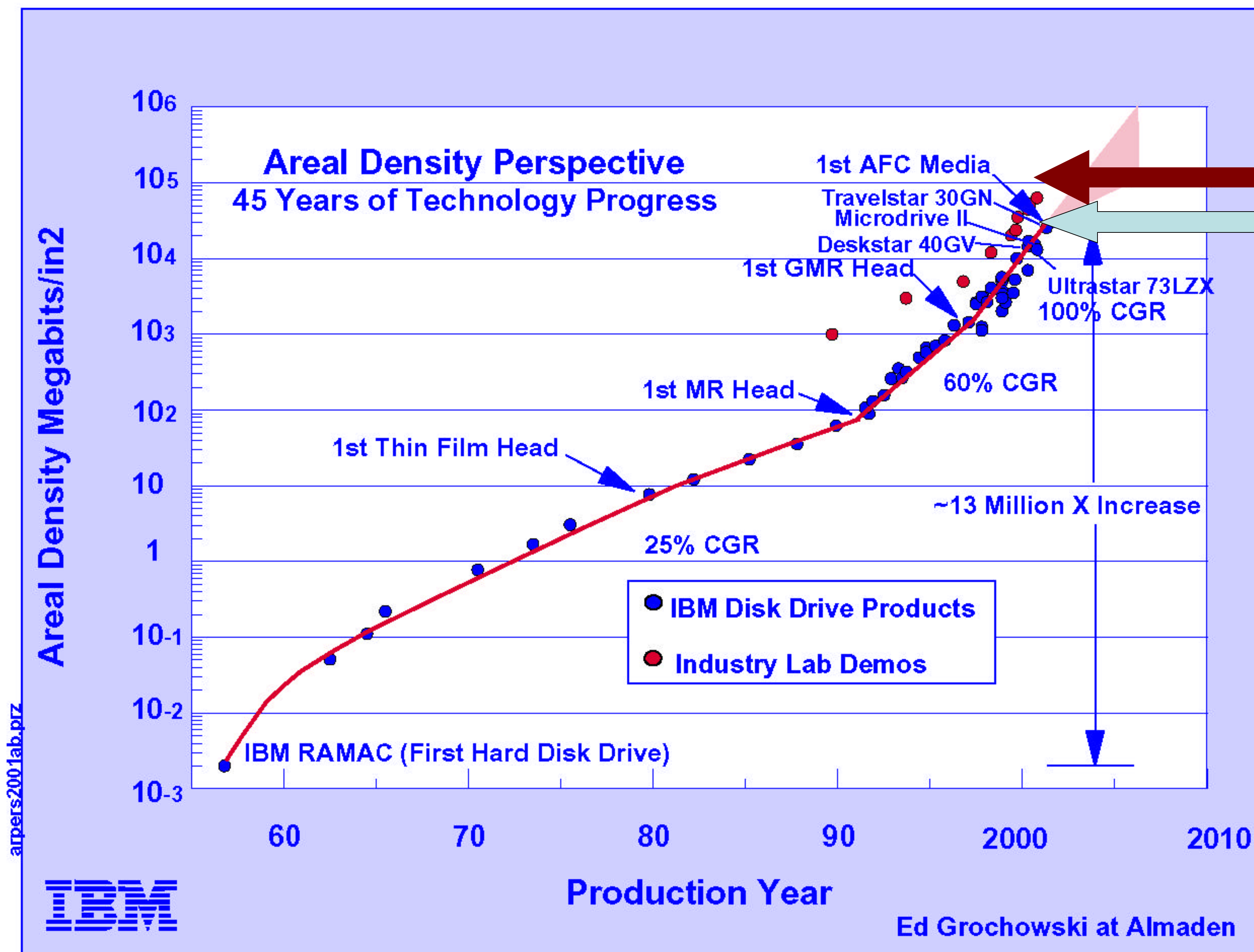


Nanomagnetism

Disk Drive Product Evolution

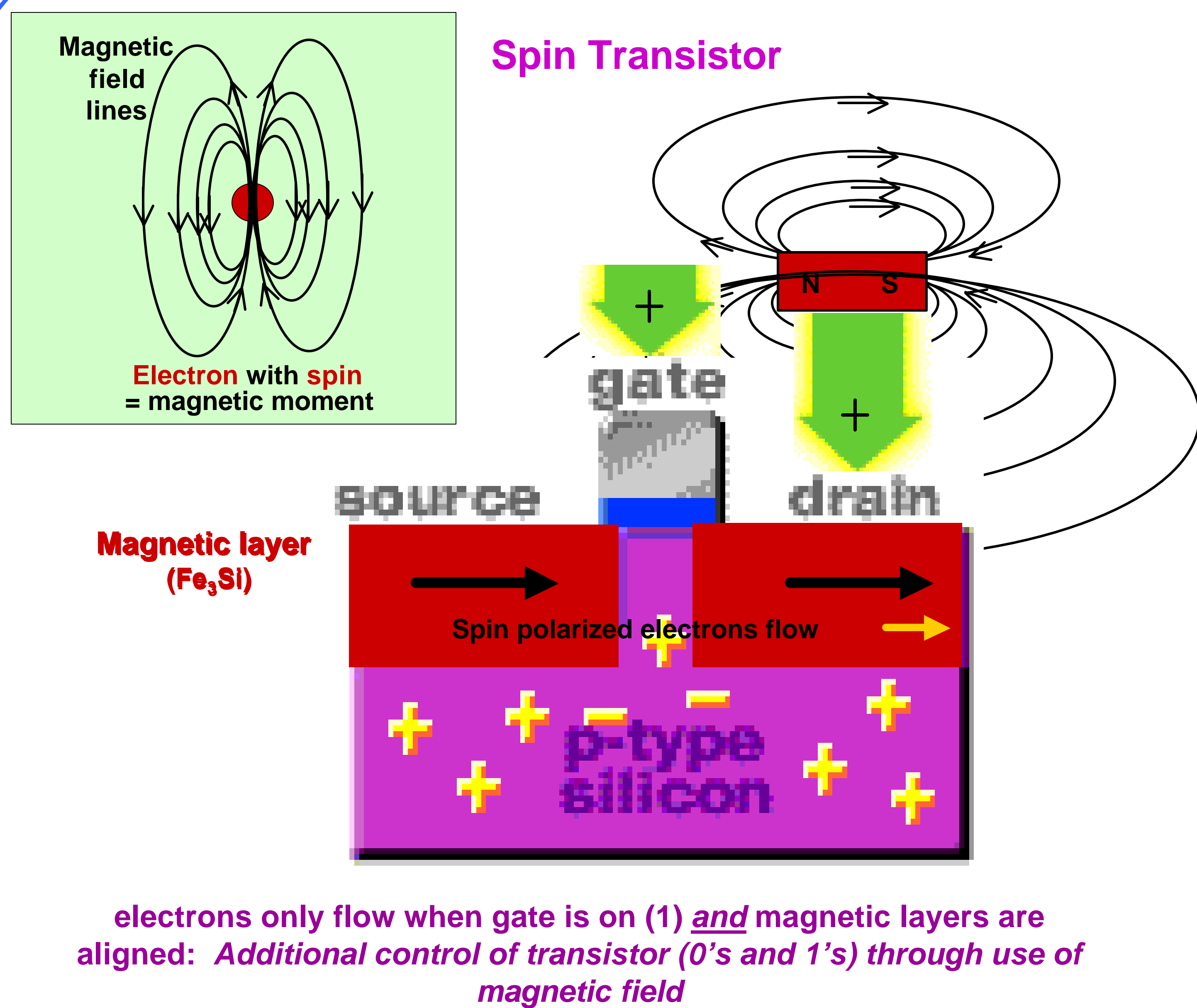
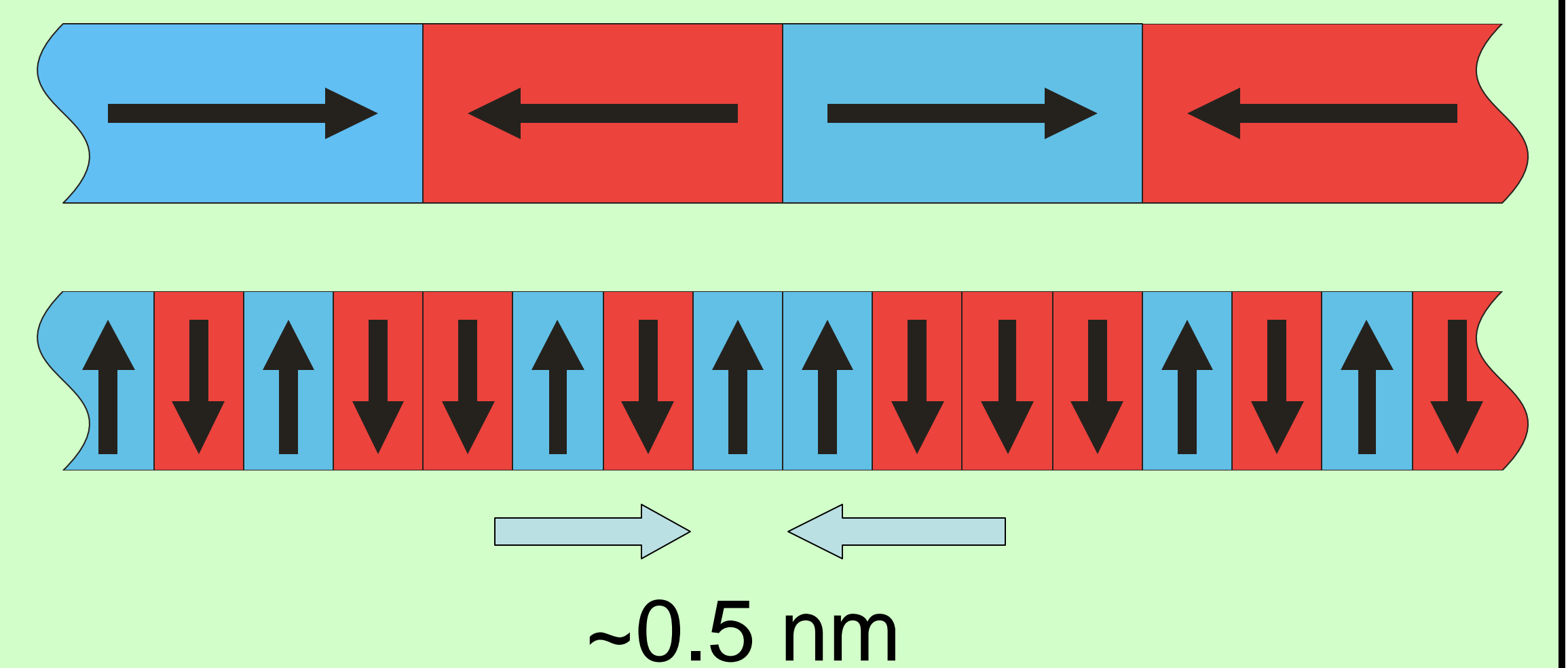


Goal: 1000 Gbits/in² !
bit width = 17 atoms

Demonstration: 100 Gbits/in²
bit width = 55 atoms

Current Product: 30 Gbits/in²
bit width = 100 atoms

Perpendicular media:
higher bit density



Science → Application

Spins in semiconductors

Quantum Computers

Magnetic anisotropy

Faster, higher-capacity hard drives

Spin Transistor

Programmable logic chips

Terminator-type thinking machines

