Moore’s law

Moore’s law is the observation that the number of transistors in a dense integrated circuit doubles about every two years.

The transistors consume power, while the density of transistors going up on the processors, the transistors consuming a chunk of power which become a critical issue and they call it a power wall,

Temperature becomes too high which will physically melt the chips. Power consumption on portable devices

Voltage cannot go too low (Dennard scaling)

Transistor leaks off power even when it’s not switching (Leakage power)