Moore’s Law

Moore’s law states that the density of transistors on a chip doubles every 2 years.

But recently moore’s law has stopped being true due to the below points:

* As transistors consume power and today everything being so power dependent is makes it difficult to supply the required power.
* Also with power temperature is an constraint as chips melt when more number of transistors are placed on them
* It has also resulted in power leakage as insulators have become thinner.
* As per Dennard Scaling as well Voltage must be equally scaled and as that is not possible because of two reasons:
  + Voltage must stay above the threshold
  + Noise problems start occurring if voltage is lowered too much.