

Microsoft® Research

Faculty Summit 2010

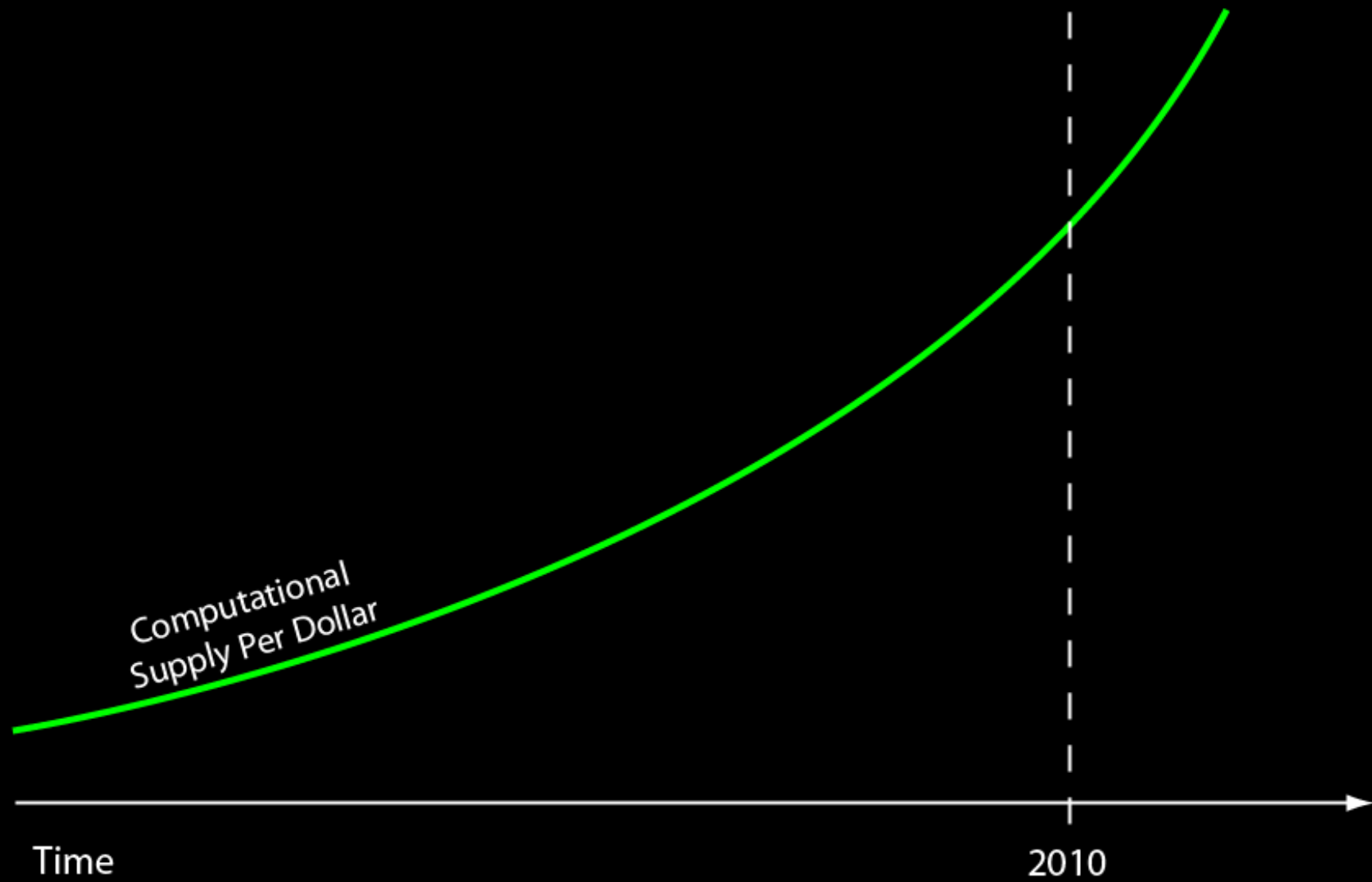
“Natural” is not in the technology

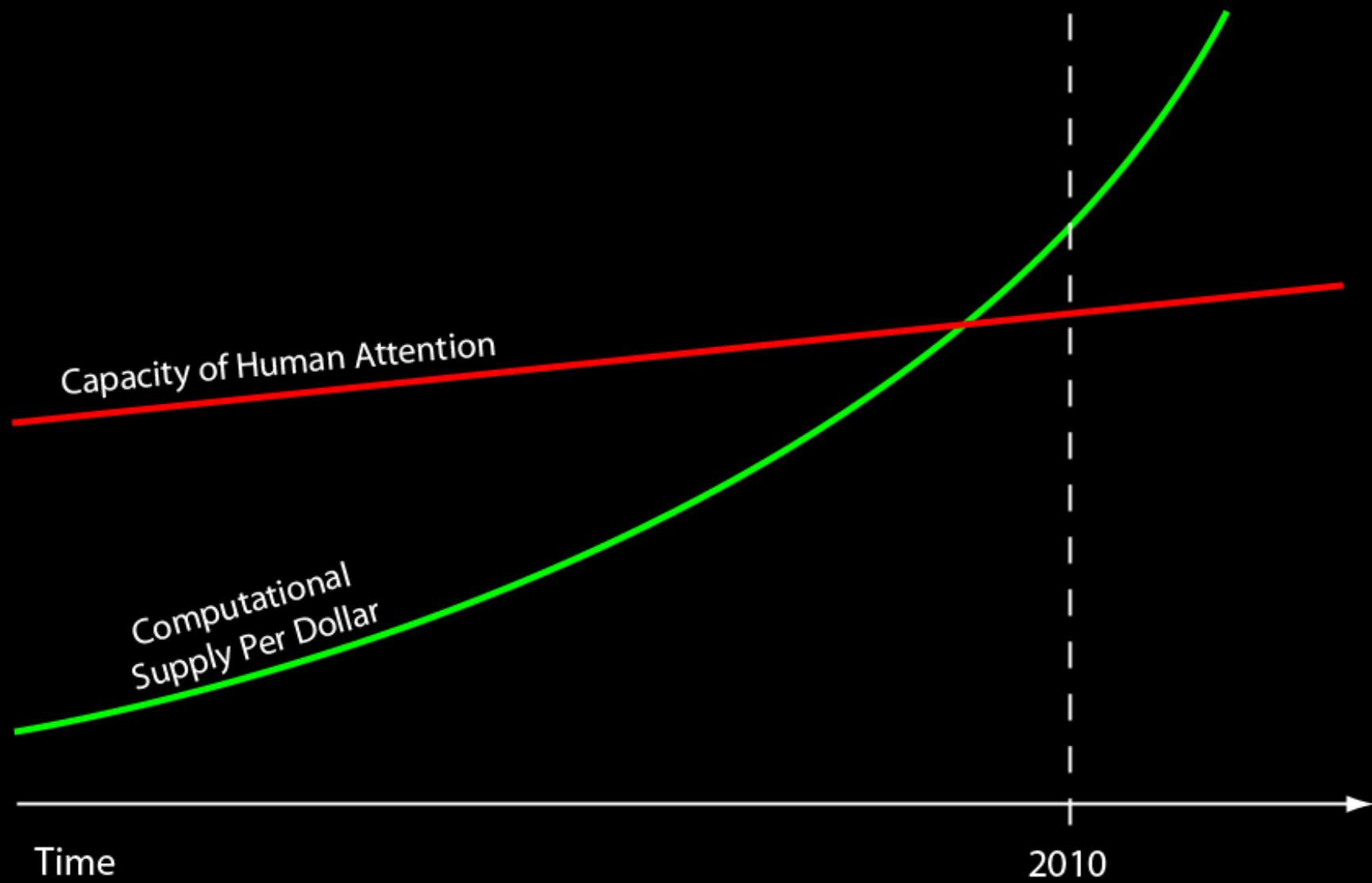
Johnny Chung Lee

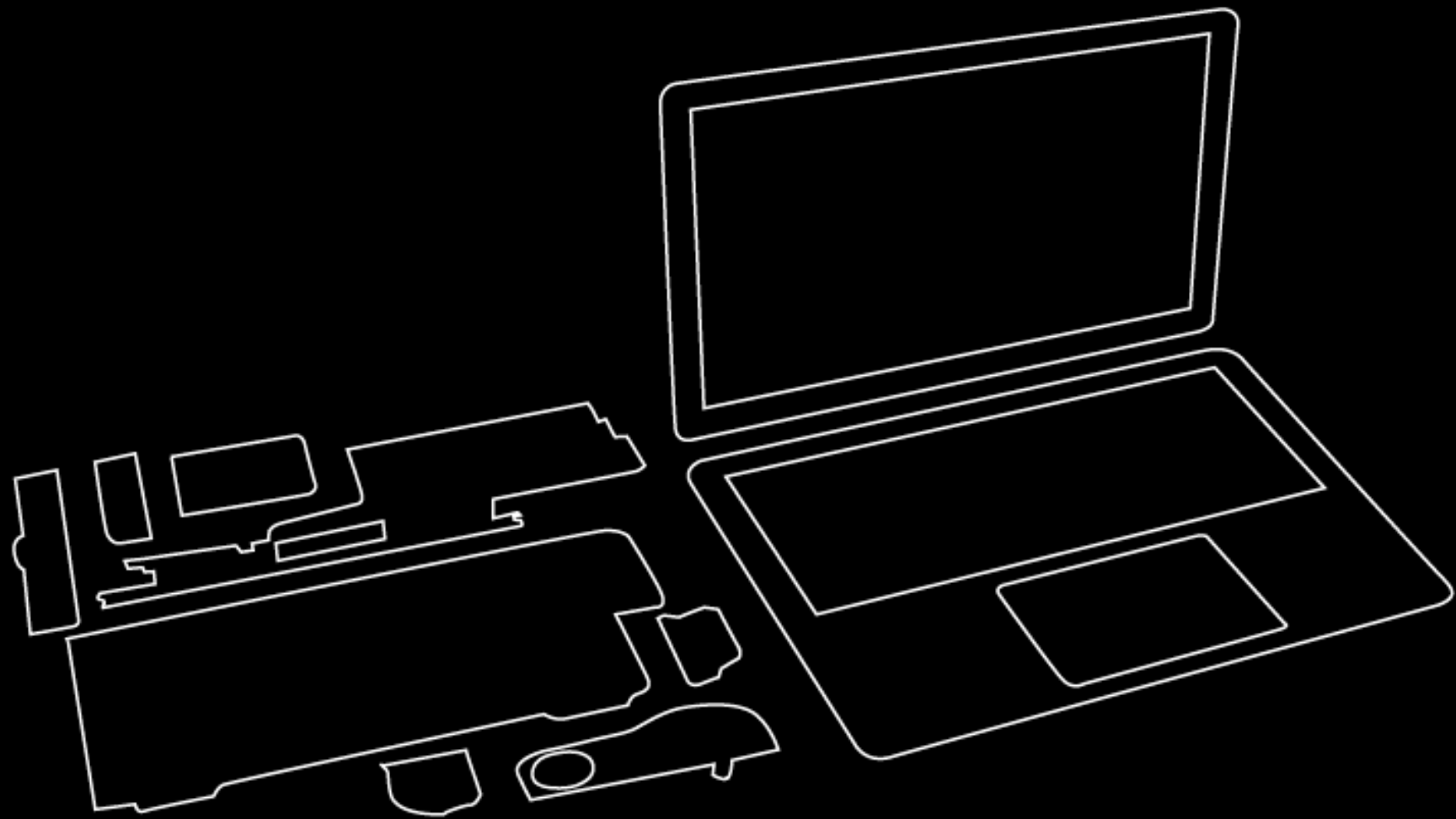
Researcher

Microsoft – Applied Sciences Group

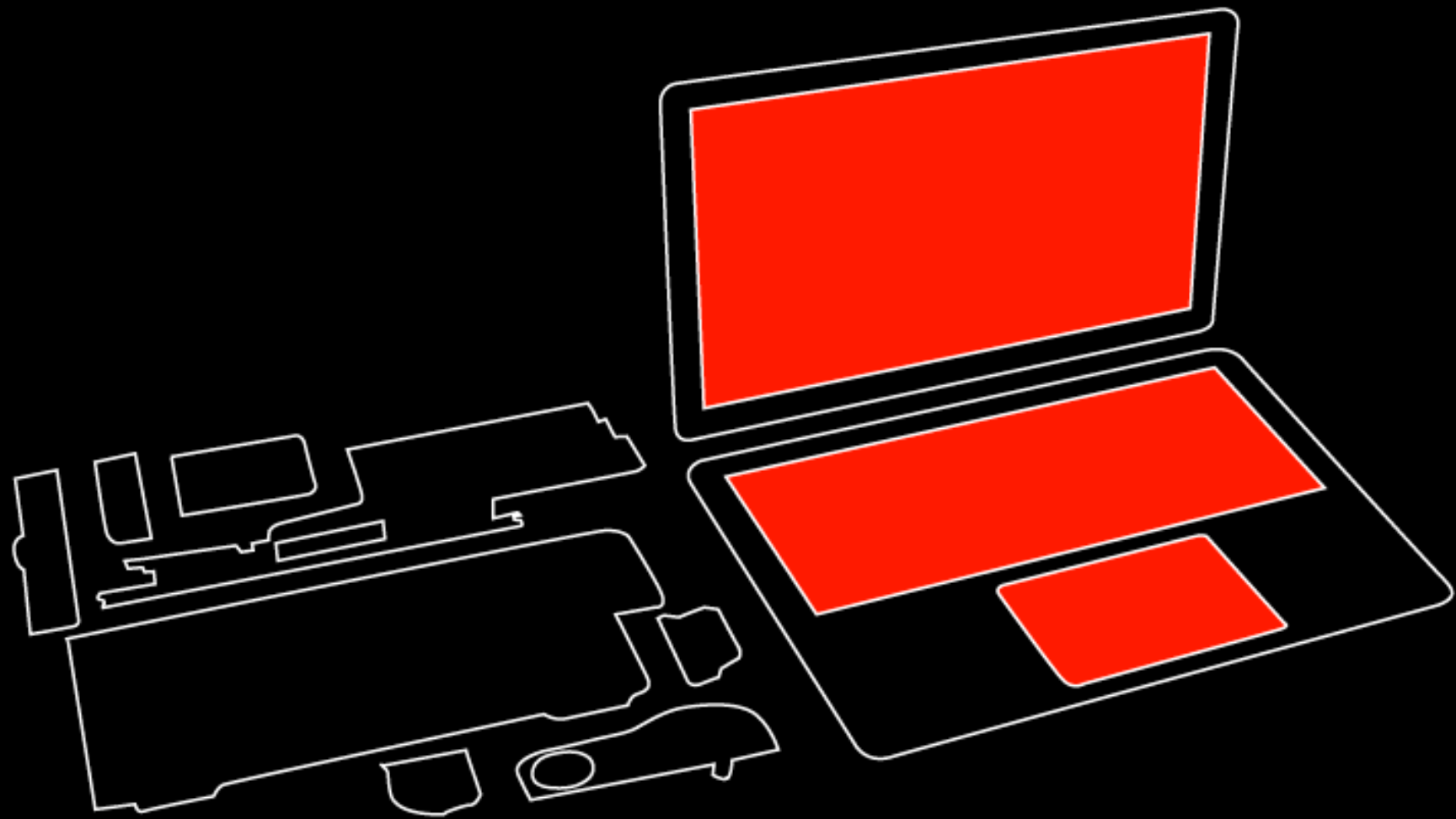
Moore's Law

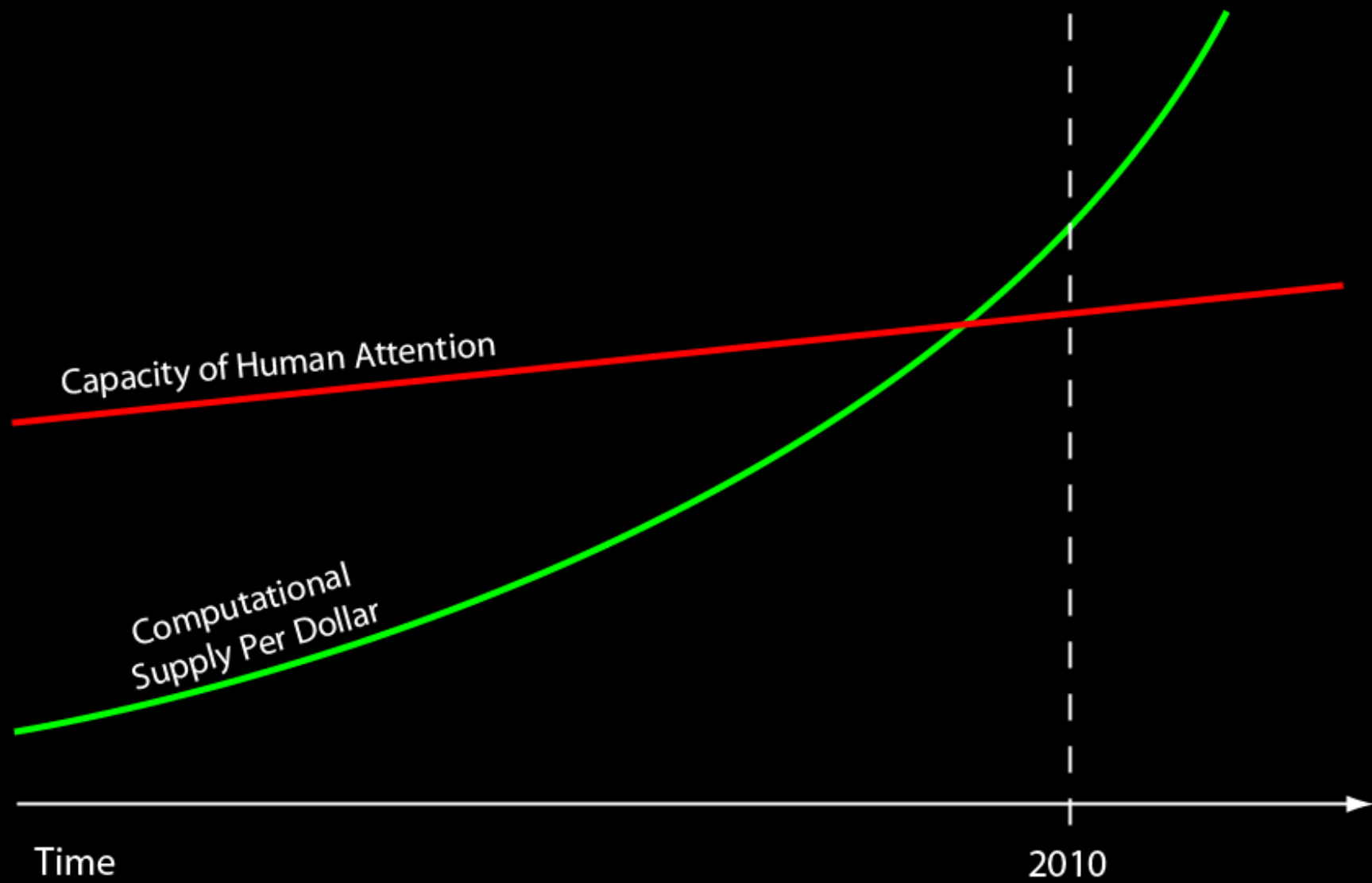


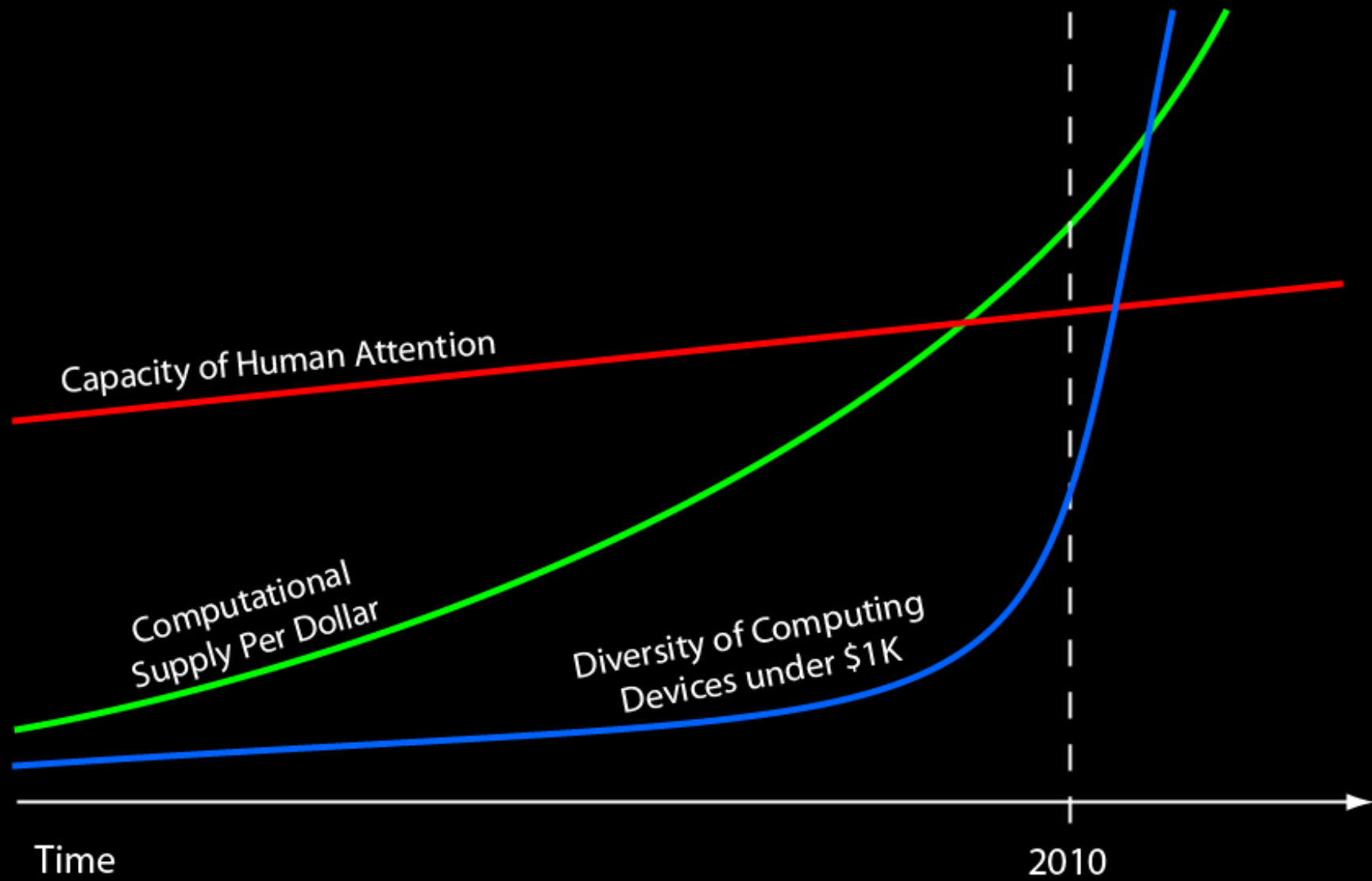


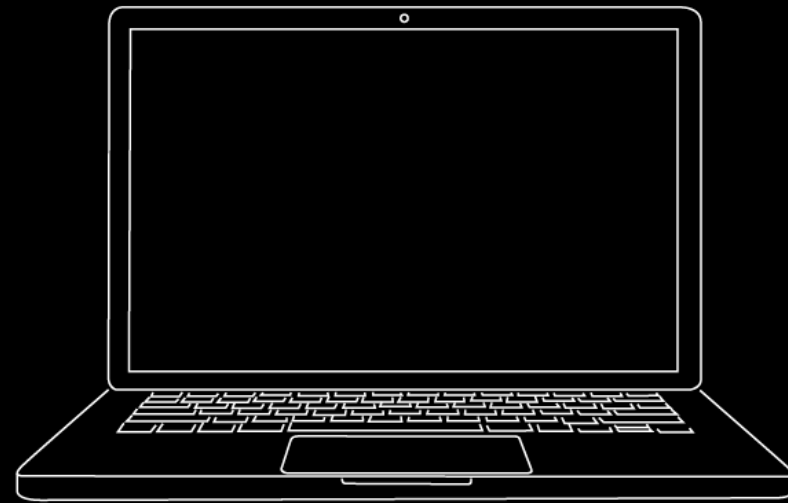
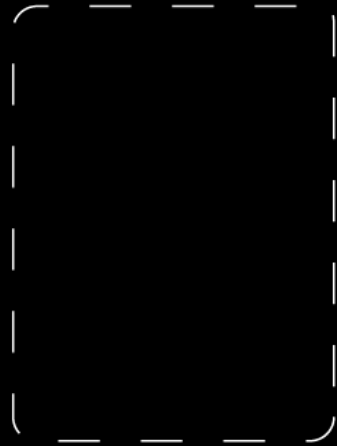


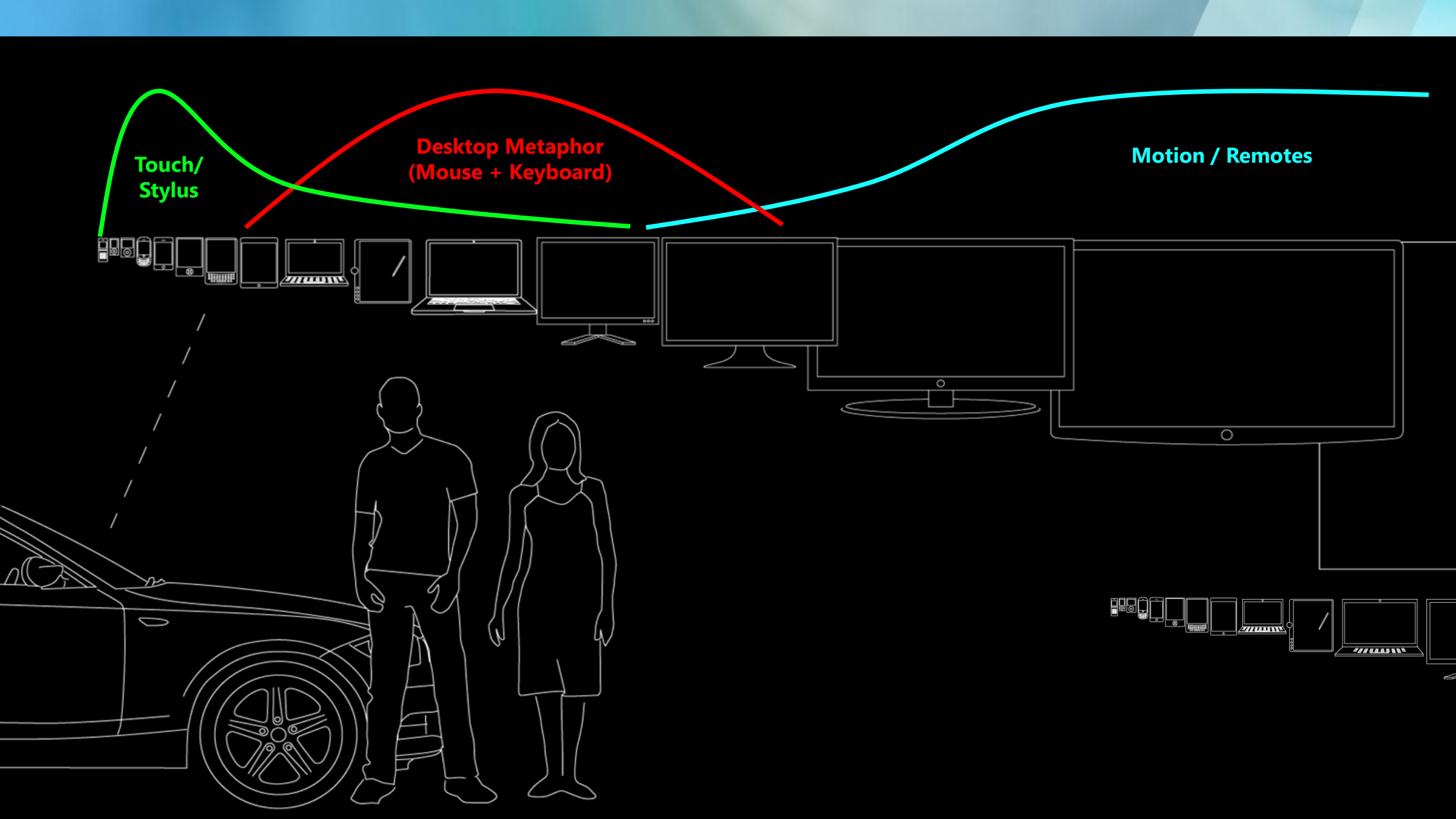












**Touch/
Stylus**

**Desktop Metaphor
(Mouse + Keyboard)**

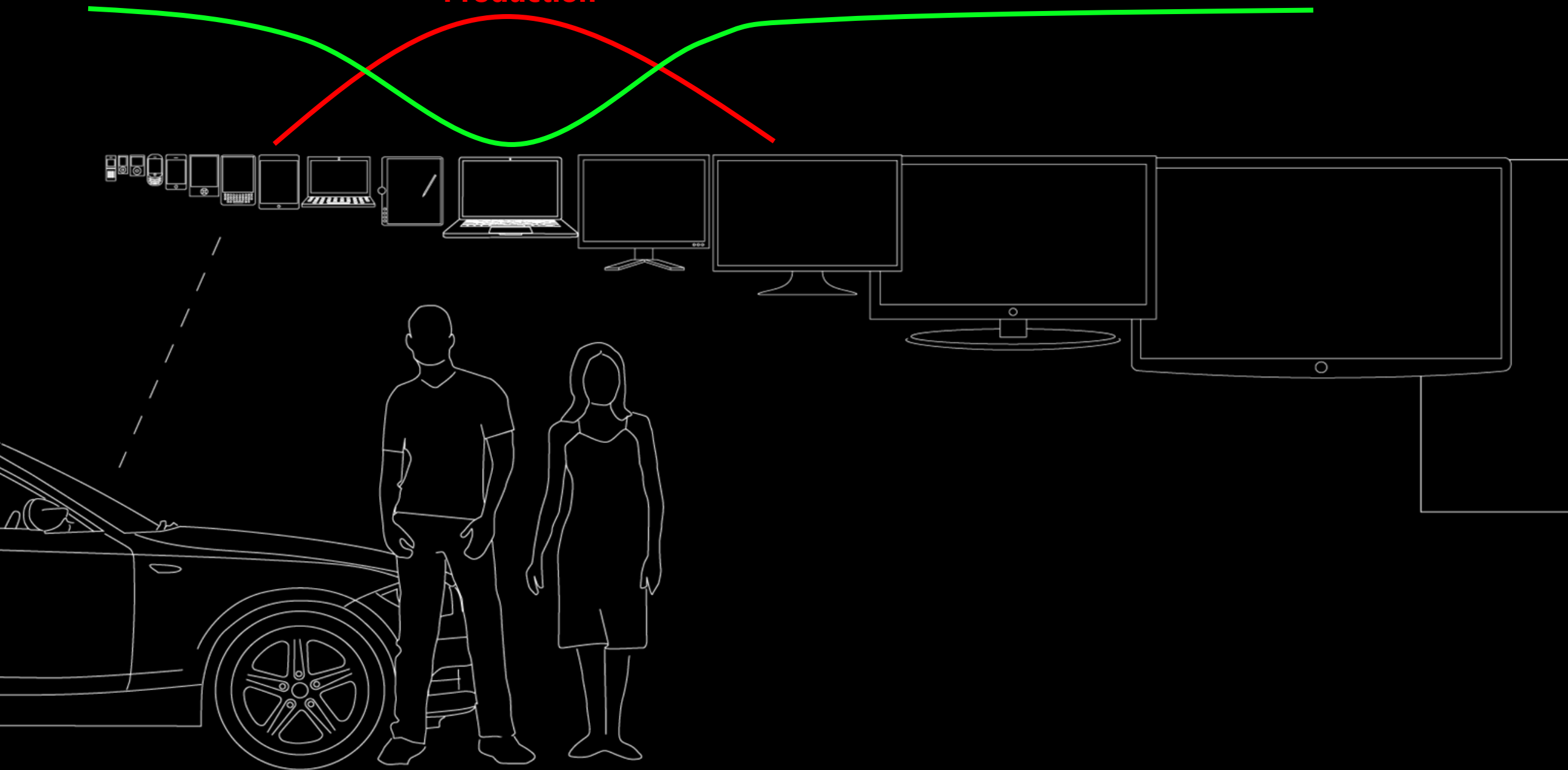
Motion / Remotes

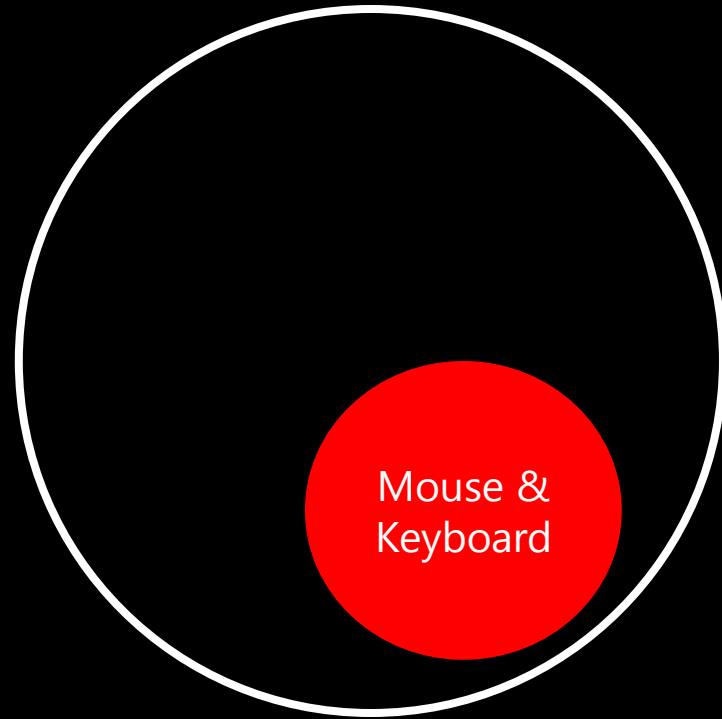


**YOU ARE
THE CONTROLLER**

Production

Consumption

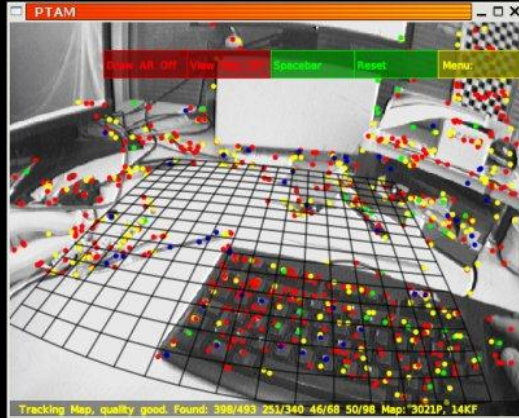


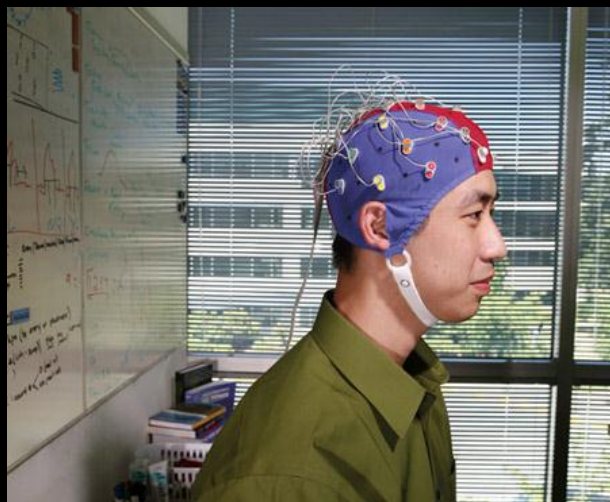
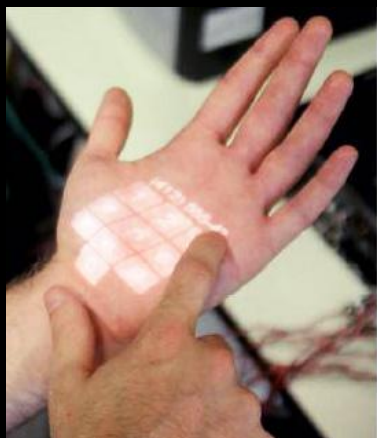
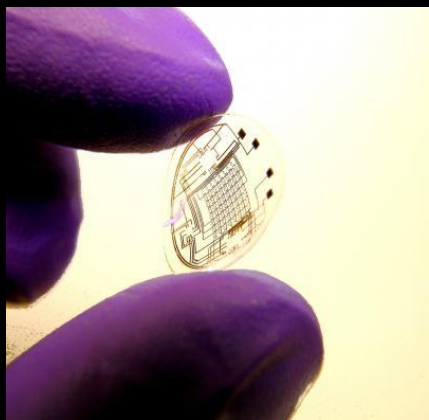




Mouse &
Keyboard





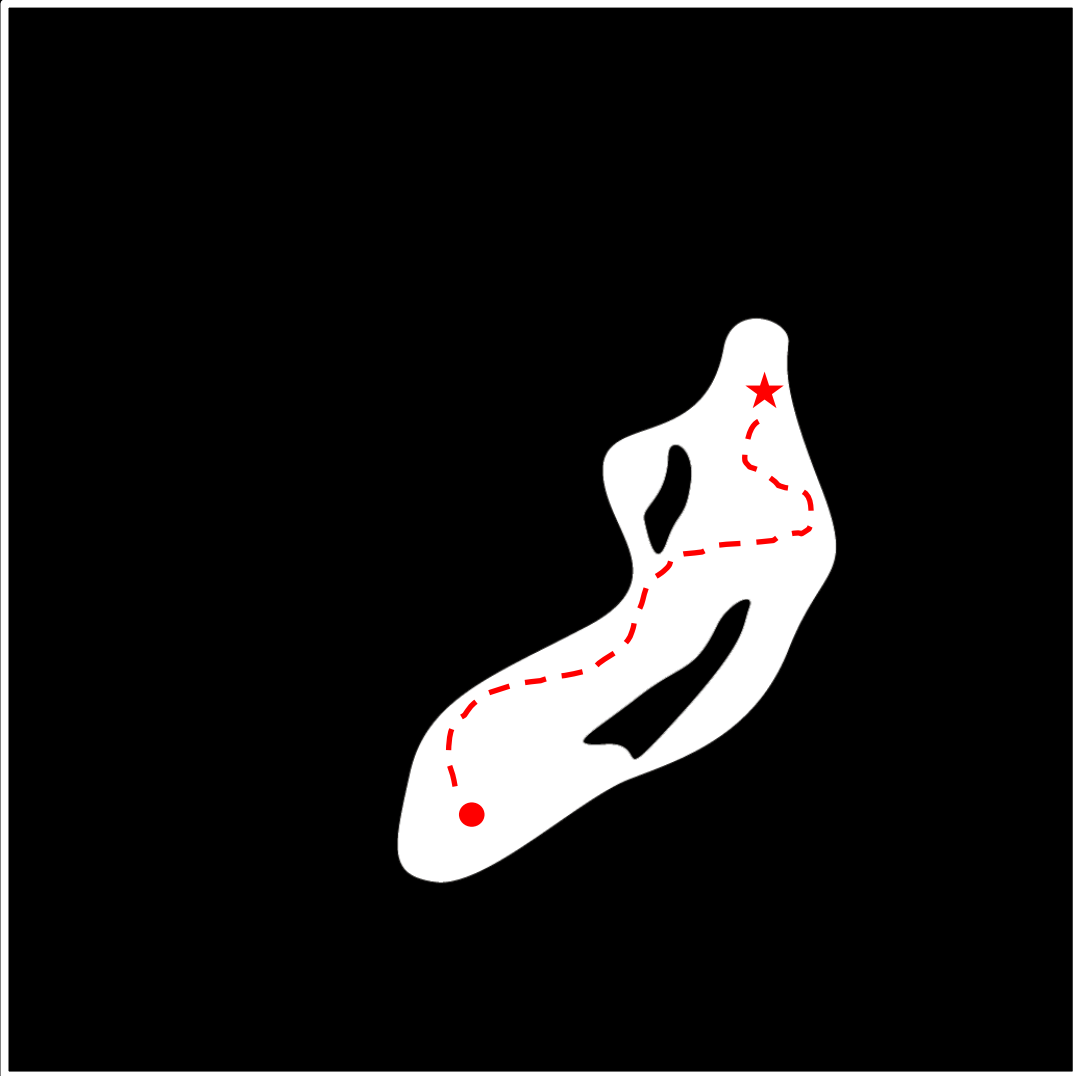


capture intent

does not come for free

$$\mathbf{UX} = \mathbf{P}_{\text{Success}} * \mathbf{Benefit} - \mathbf{P}_{\text{Failure}} * \mathbf{Cost}$$


All Possible User Scenarios



good experience design

limitations

marriage

application

**broad reaching new
interface technology is a myth**

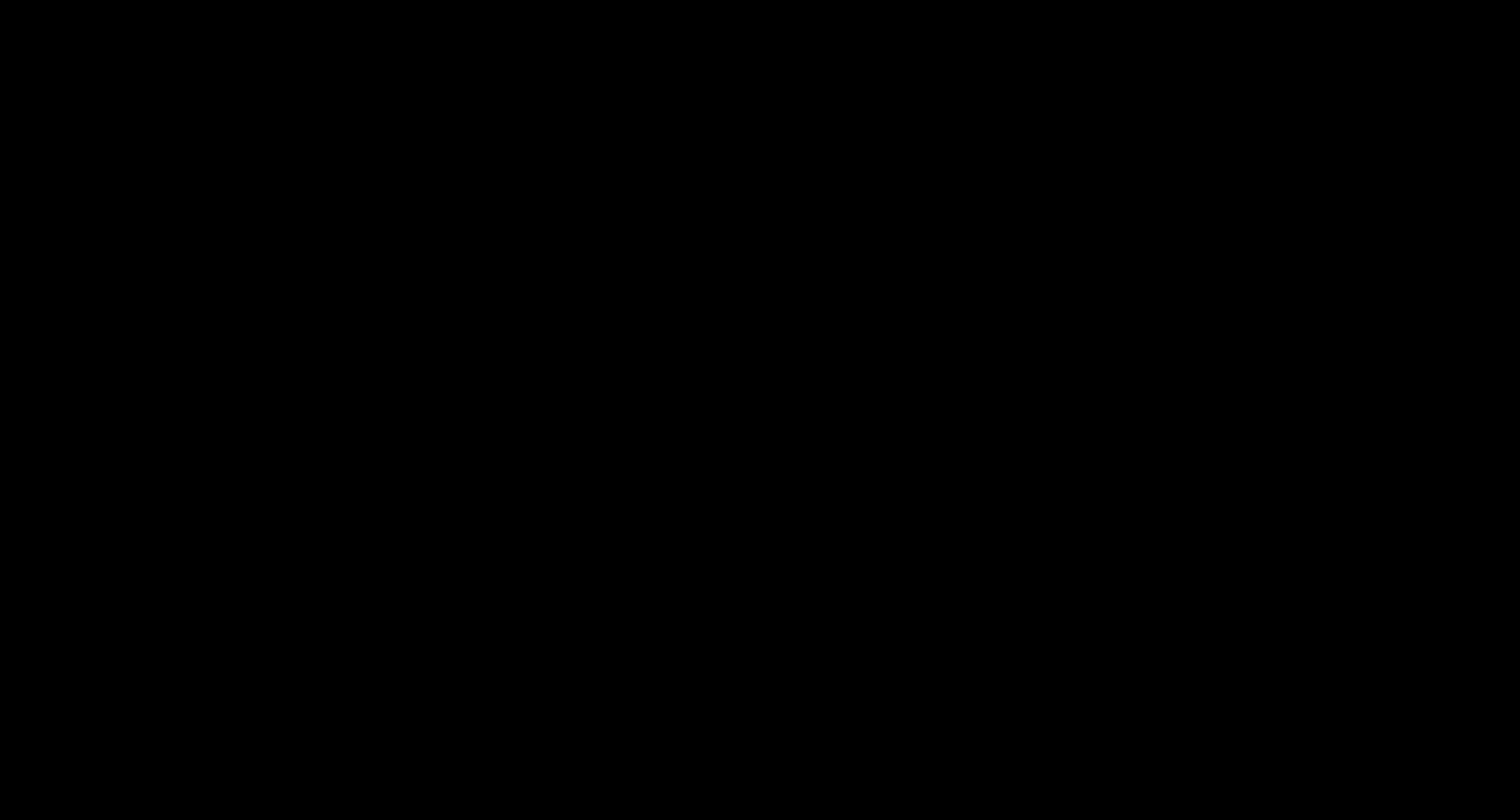


< 1% of mobile phones
< 0.1% of computing devices

era of **specialization**

era of **diversification**

good hw/sw/ux design



what does this mean for HCI academic **research?**

**number of academics
working with new UI technology**

100's

number of **non-academics
working with new UI technology**

>10,000's

academics adding a few drops to the bucket
of **massive parallel** exploration is not very valuable

**well-funded research should focus problems
that enthusiasts cannot:**

new **algorithmic capabilities**

new **sensor designs**

new **emitter designs**

new **optical designs**

new **materials**

The Microsoft logo is centered on a black background. The word "Microsoft" is written in a white, bold, italicized sans-serif font. A registered trademark symbol (®) is located at the top right of the word. The top of the slide features a blue gradient header with diagonal lines.

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