Electronics Supply Chain

Neil Cannon, CEO
IC manufacturers >$500B in product sales

Global semiconductor market share (image via Counterpoints Research)
Electronics & Software Pervade Numerous Industries

Wafer  Packaged IC’s  Printed Circuit Board
Modern humans are indoors as much as 80% of the day – Oops!
Invention Leads to “Sunlight Inside”

• Well received by eldercare industry for circadian entrainment capability
• Used in museum and retail applications for color rendering
First Deployments During Covid – Challenges

- Mechanics
- Optics
- PCBAs
- LEDs
- Micro Processors
- Current Drivers
- Opportunistic purchases
- Rewriting software
Conclusions

The Semiconductor Industry
- “On shoring” fabrication
  - Capital $10B to $20B
  - Skilled manpower
  - Environmental restrictions
  - Three to five years
- Note: US makes 47% of the fabrication equipment
- Chips and Science Act: $50B

The electronics Industry
- In house software – credited for Tesla’s ability to ship cars
- Rapid substitutions
  - Flexible designs
  - Multiple approved components
- Ability to redesign