



A platform to gain significant and **relevant knowledge about major industries** and connectedness



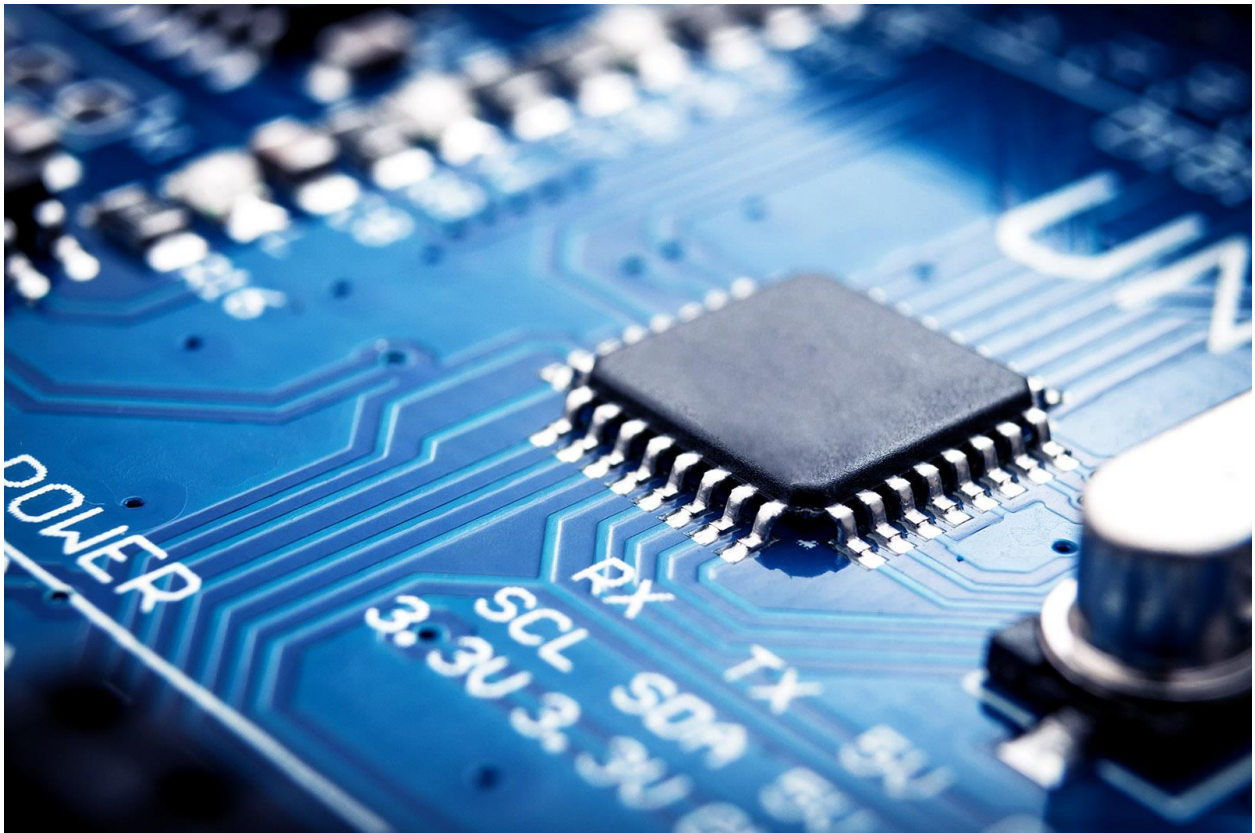
Objective of Experiential Workshop

- Know about trends and insights about major industries which trigger innovation in your mindset



- Develop knowledge and understanding about the nature of work and enterprise
- Understand the contribution of an industry to economy & society

21 Industry: Semiconductor



The semiconductor industry is the aggregate collection of companies engaged in the design and fabrication of semiconductors. It formed around 1960, once the fabrication of semiconductor devices became a viable business.





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Semiconductors are an essential component of electronic devices, enabling advances in communications, computing, healthcare, military systems, transportation, clean energy, and countless other applications.



21 Industry

Innovation Unlimited

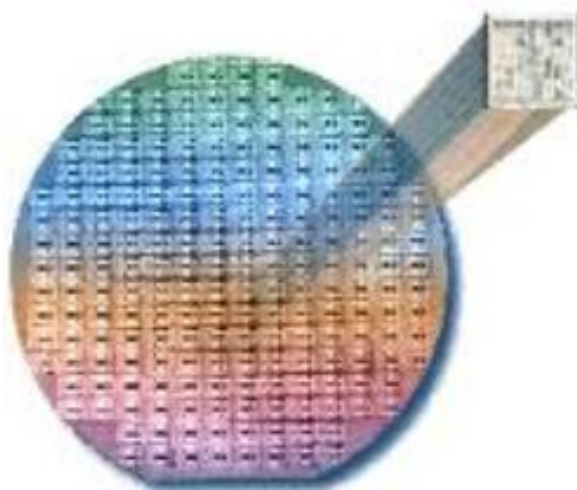
Do You Know ?

- What is an Ingot?
- What is a Bare Wafer & Pattern Wafer?
- What is 3, 5, 7, 10 nm?
- How Integrated Chips (IC) are manufactured?
- Memory Chips & Processor Chips?
- What is an OEM?
- What is FAB? What they do in a FAB?
- How is SEMICONDUCTOR Industry connected to other Industries?
- What do I need to learn and develop to become Semiconductor expert?



Facts & Figures

50,000 semiconductor chips fit on an eight-inch (200-mm) silicon wafer



In complex production process lasting up to 14 weeks, the raw silicon wafers are made into semiconductor chips.

Micro SD Card Cost - 1 GB : Approx. 1000 INR, 1 TB : Approx. 15,000 INR

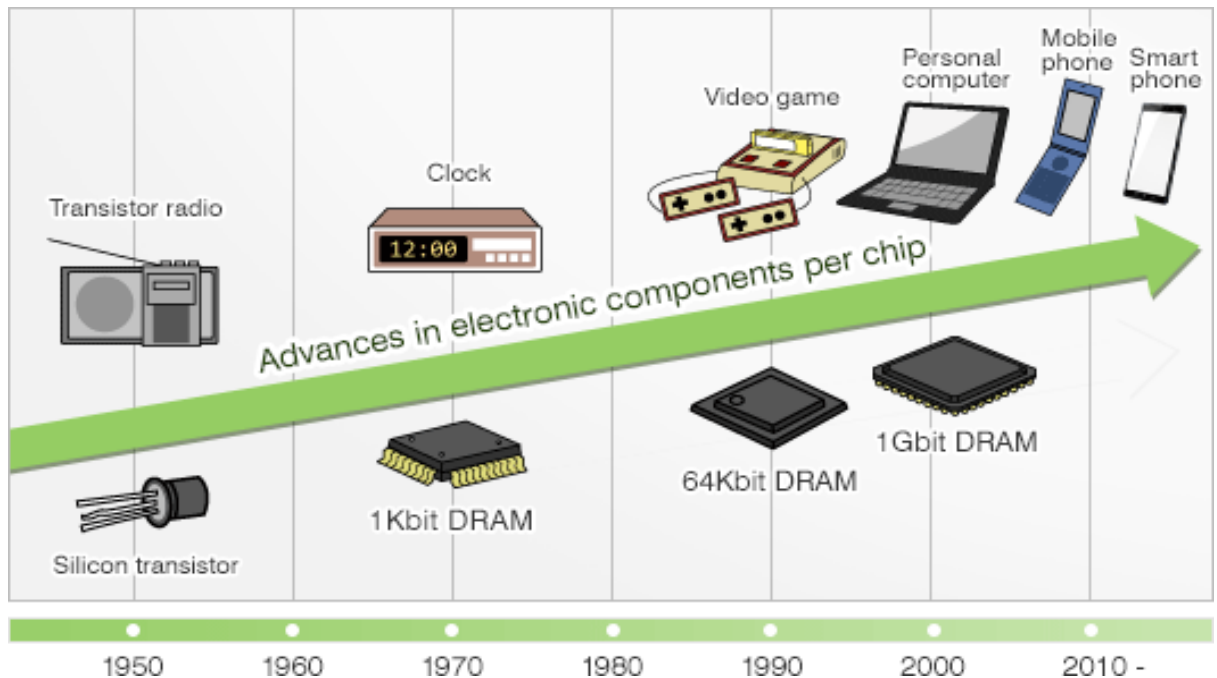


Semiconductor & its Evolution

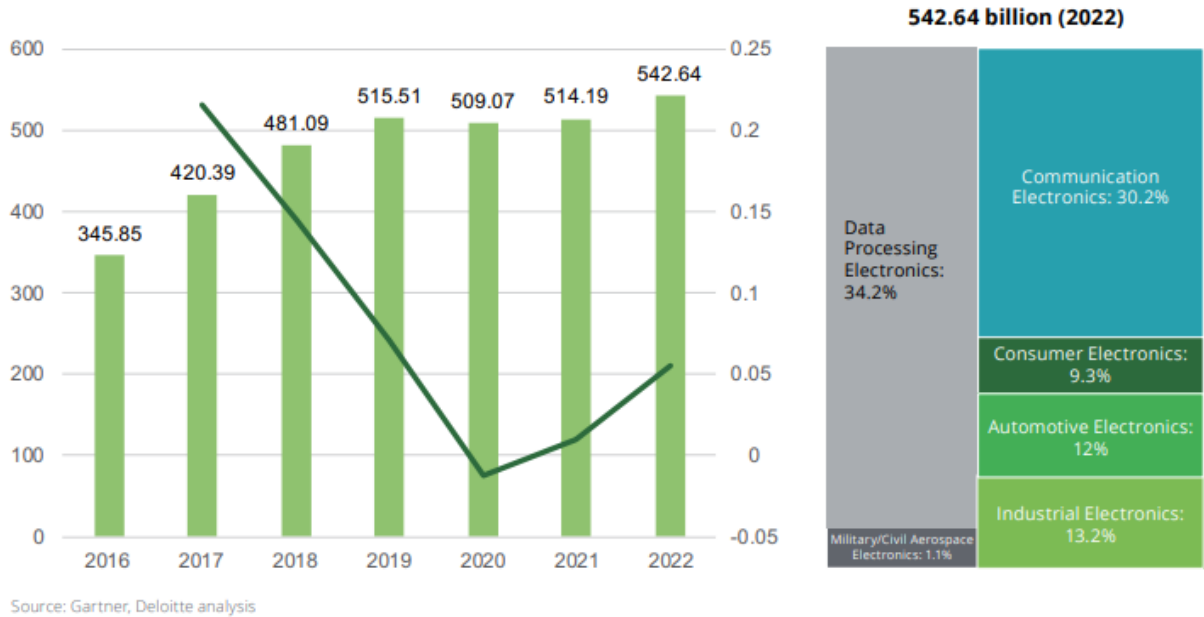
5 MB in 1956



1 TB today



Semiconductor Connectedness to Other Industries





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Banking : Chip Enabled Debit / Credit cards



Insurance : Connect Car Data for Diagnostics and premium calculations



Retail : Smart Robots for Assistance



Healthcare : Smart Healthcare Products



Life Science : Capsule filling Machine



Logistics, Transport & Travel : Smart Robots for Inventory



Media, Entertainment & Publishing : Gaming Devices



Manufacturing : Industry 4.0 Enabled - Smart Factories – IoT Sensors, Control Systems, Robots...



Consumer Packaged Good : Automated Vending Machines



Energy, Utilities, Oil & Gas : Smart Meters



Textile & Leather : Smart Factories



Agriculture : Drones for Smart Farming



Aerospace & Defence : Satellite Communication Devices



Network & Telecom : Wireless Devices



Servers & Storage : Data Centers and Storage Devices



Medical Devices : MRI Machines & Imaging



Automobile : Smart Sensors for connectivity and communication



Consumer Electronics : Smart Devices / Smart Home



Industrial : Digital Meters



HiTech : Products & Platforms : Smart IoT Products

Top Semiconductor Companies in the world

Know about what these companies do..

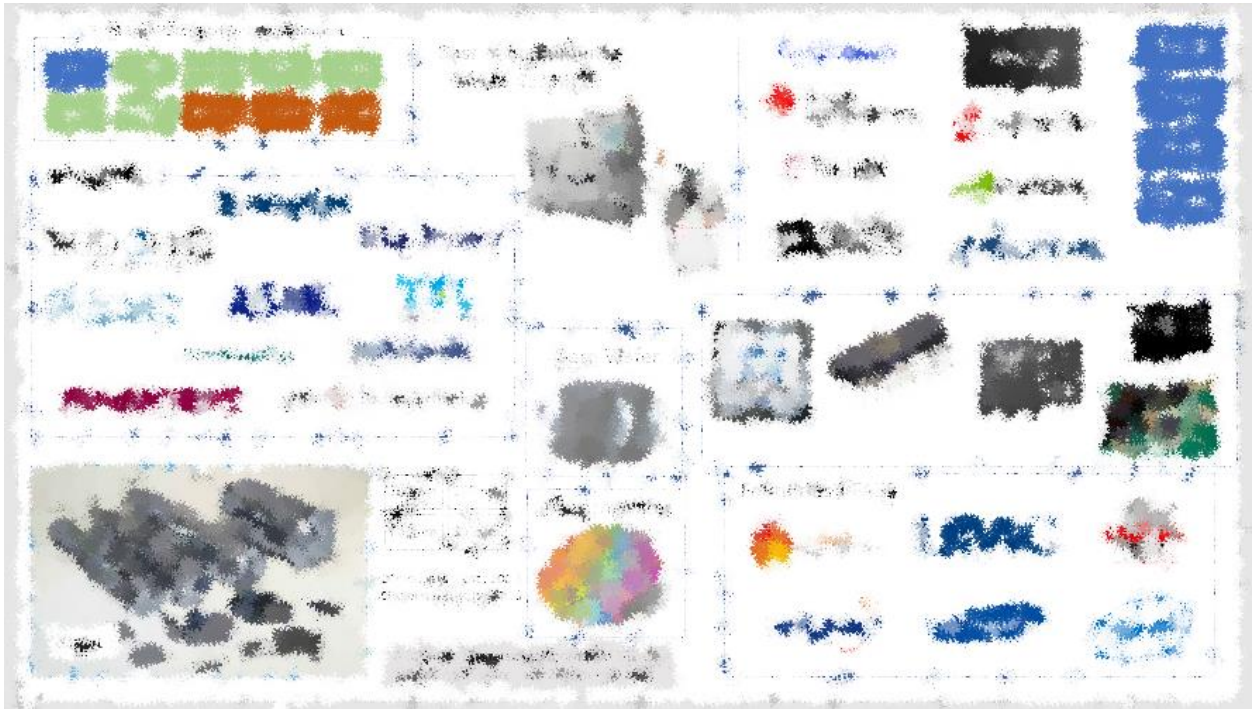


Semiconductors power all of this. Each connected IoT or IIoT device contains sophisticated microchip designs that allow even low-energy devices to achieve remote connectivity. And because the IoT is so clearly poised for growth, it means the semiconductor industry is, too



Experiential Workshop

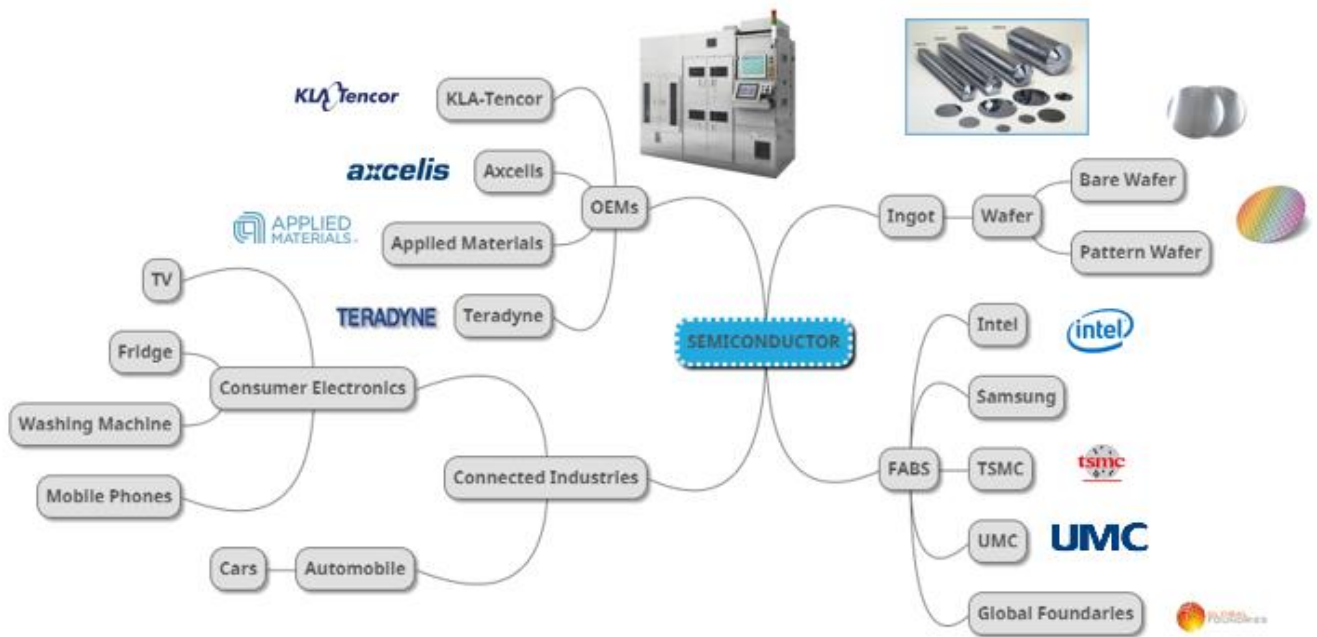
Create Mind Maps using stickers



21-Industry : Semiconductor : Sticker

Various Images of Company Logos, Equipment used in Fabrication of IC Chips, Circuit Board, etc., will be provided during the workshop.





21-Industry : Semiconductor : Mind Map

Participants to Create Mind Maps using Charts & Stickers provided



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Outcome of Experiential Workshop

- Insights & Trends about the Industry
- Bird's-Eye view of an industry
- Innovative Mindset



21 Industry

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*Note: The sample shown in this document is for Semiconductor Industry,
Similar Pattern will be followed for all other Industries.*



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