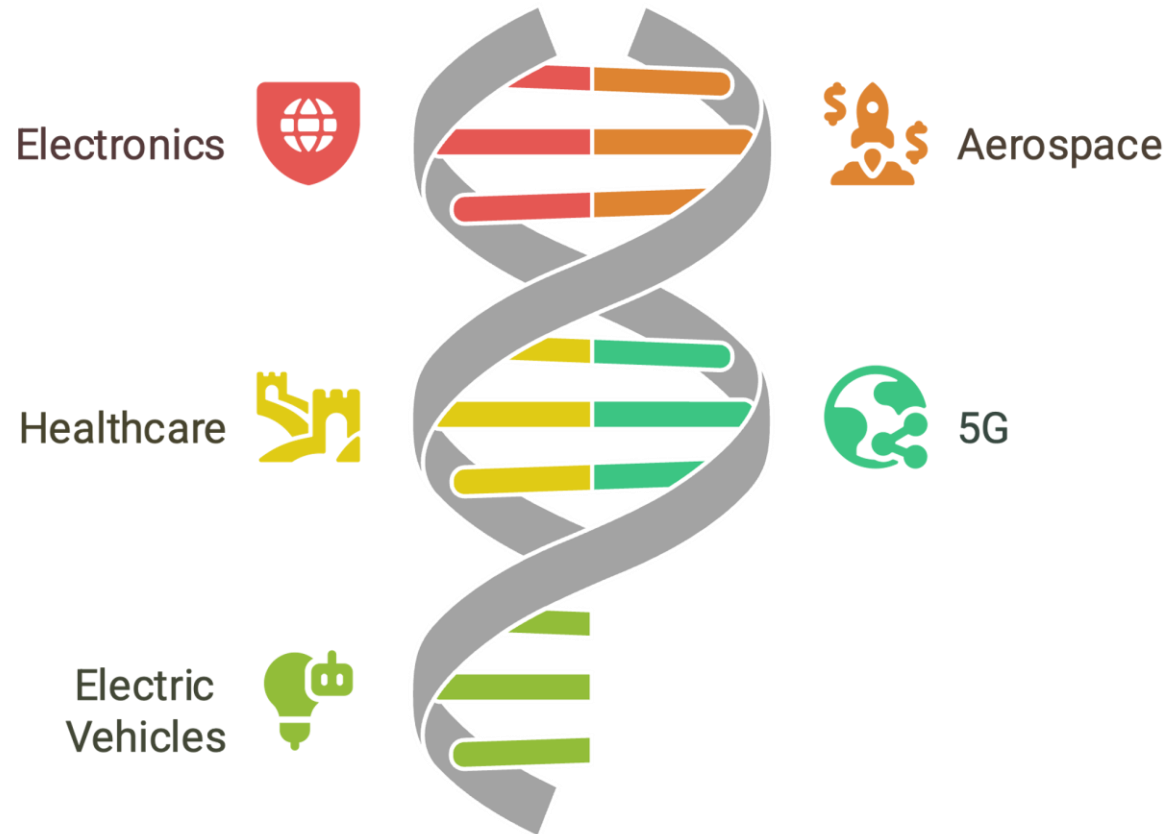


The image features a glowing green padlock centered on a dark blue background filled with intricate, glowing circuit traces and data points. The word "Semiconductor" is written in white, sans-serif font across the middle of the image, partially overlapping the padlock.

Semiconductor

## Investing in the Future of Technology Through Semiconductors





# The Semiconductor Investment Landscape

**Strategic Importance**

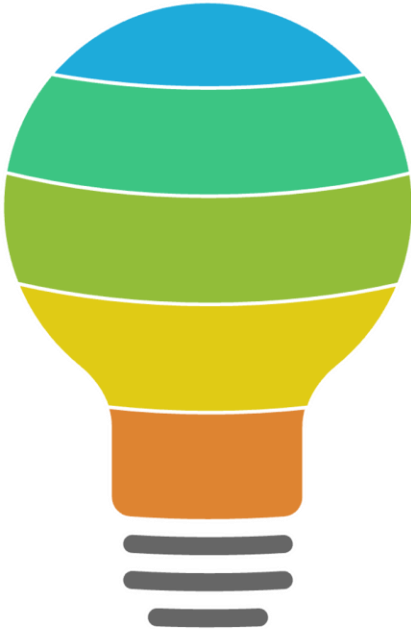
Semiconductors as national security assets

**High Barriers to Entry**

Complexity and capital requirements limit players

**Innovation Powerhouse**

Driving advancements in technology

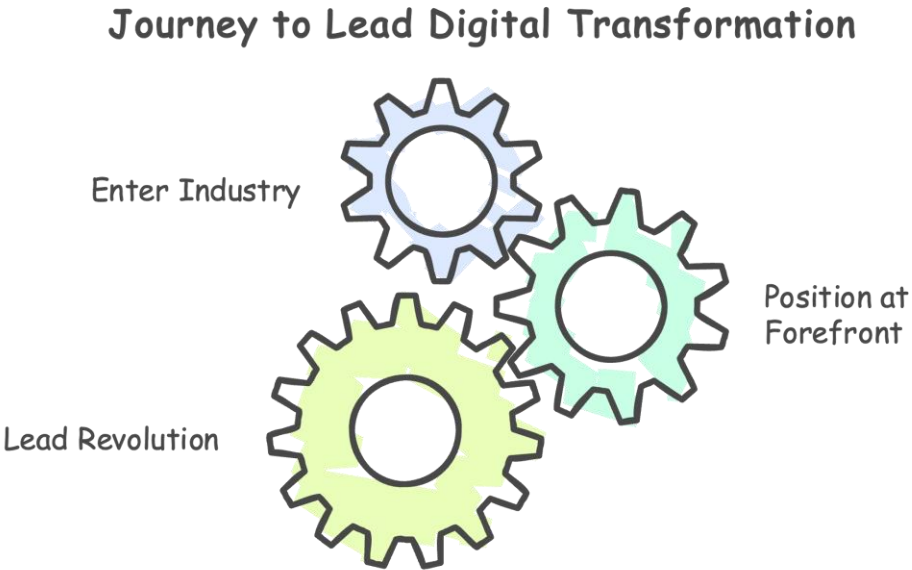


**Explosive Demand Growth**

Market projected to surpass \$1 trillion by 2030

**Global Supply Chain Shifts**

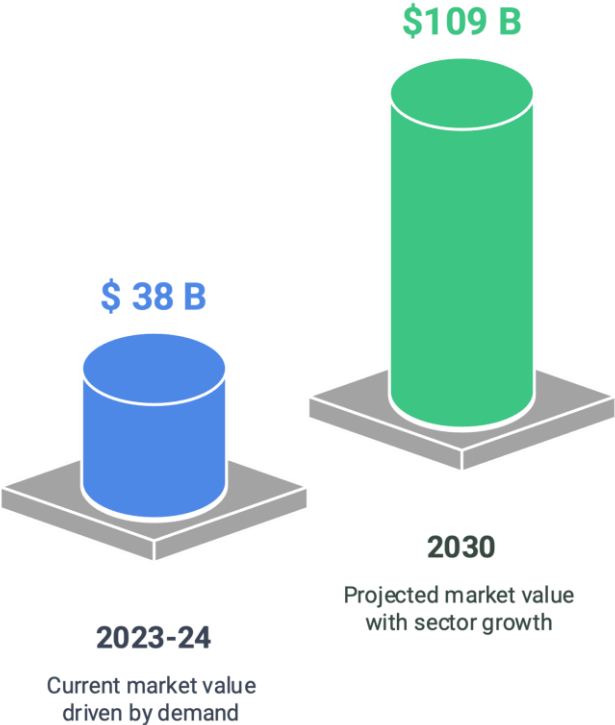
Diversification and localization opportunities



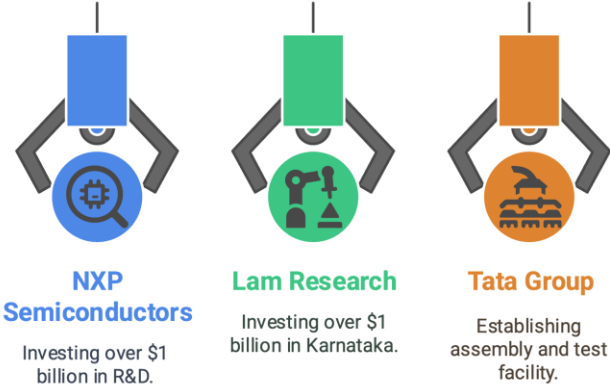
## Investing in India's Semiconductor Industry for Future Growth



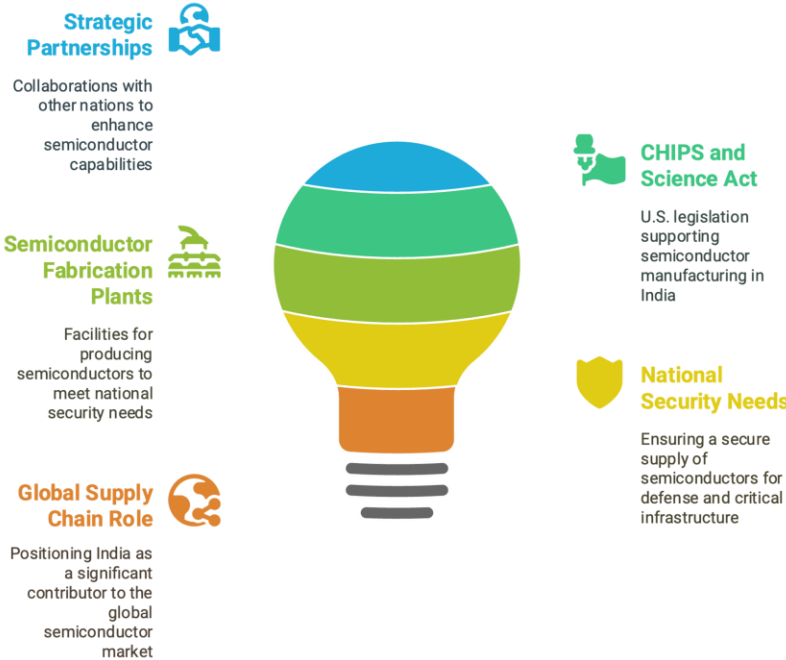
Growth of India's Semiconductor Market



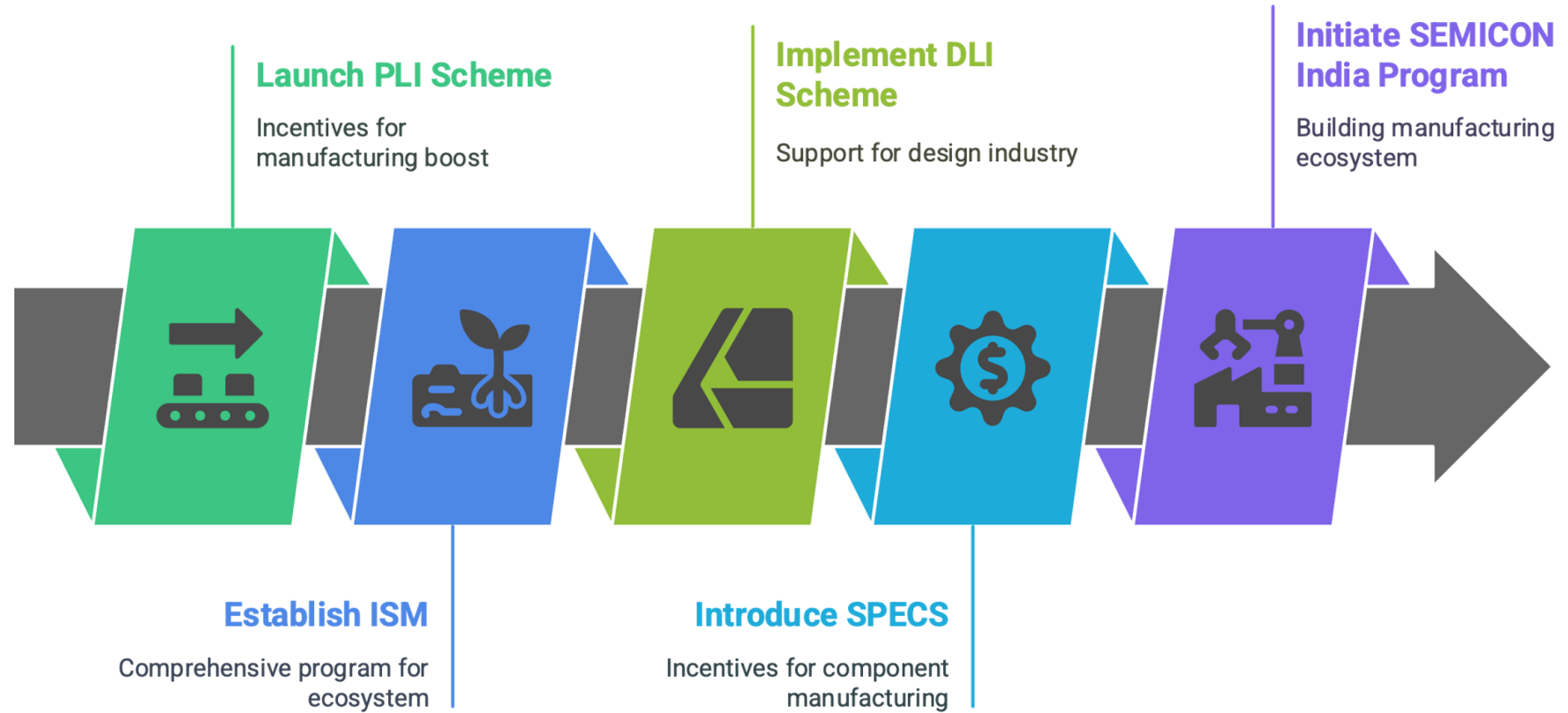
Semiconductor investments in India



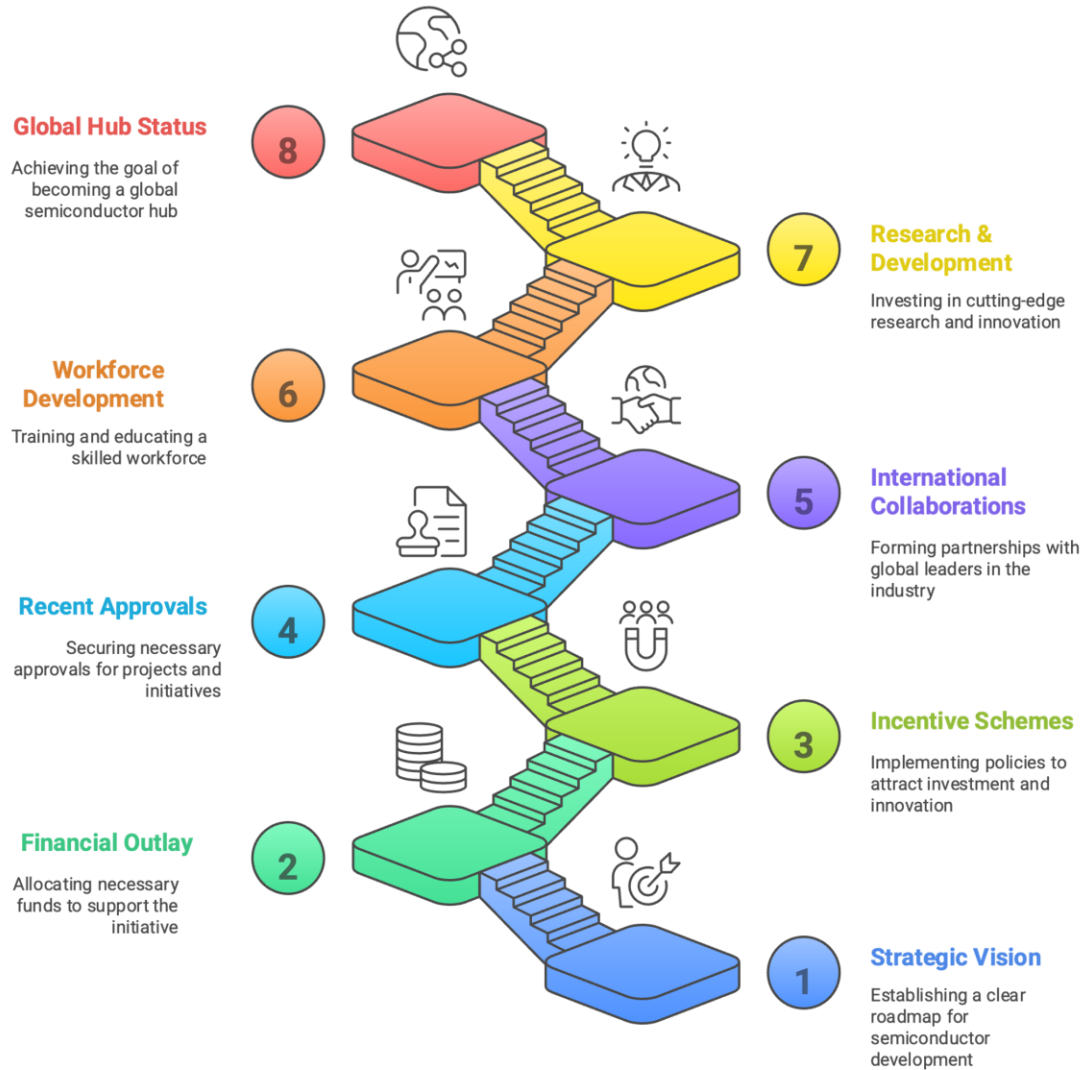
India's Semiconductor Strategy



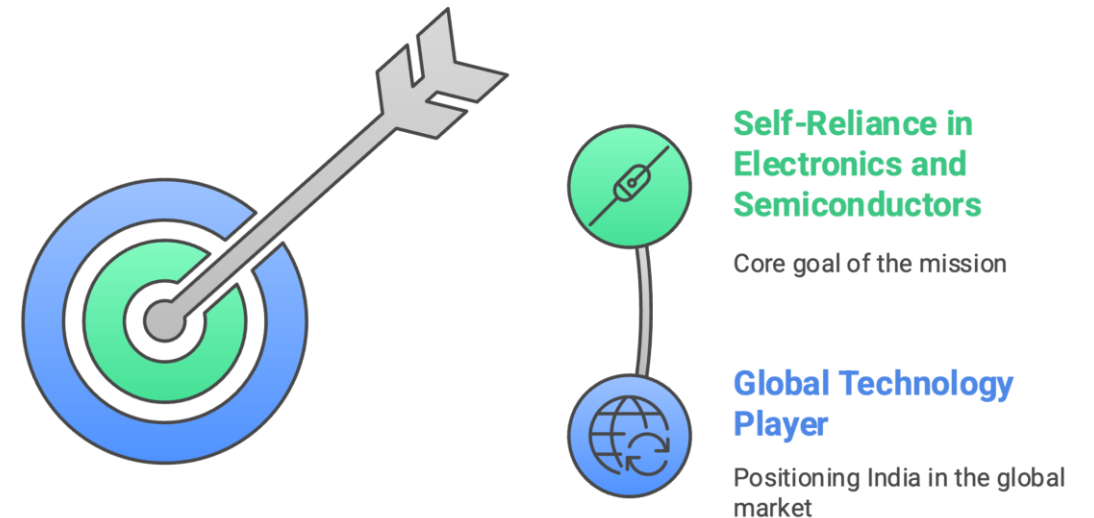
## Indian Semiconductor Industry Development



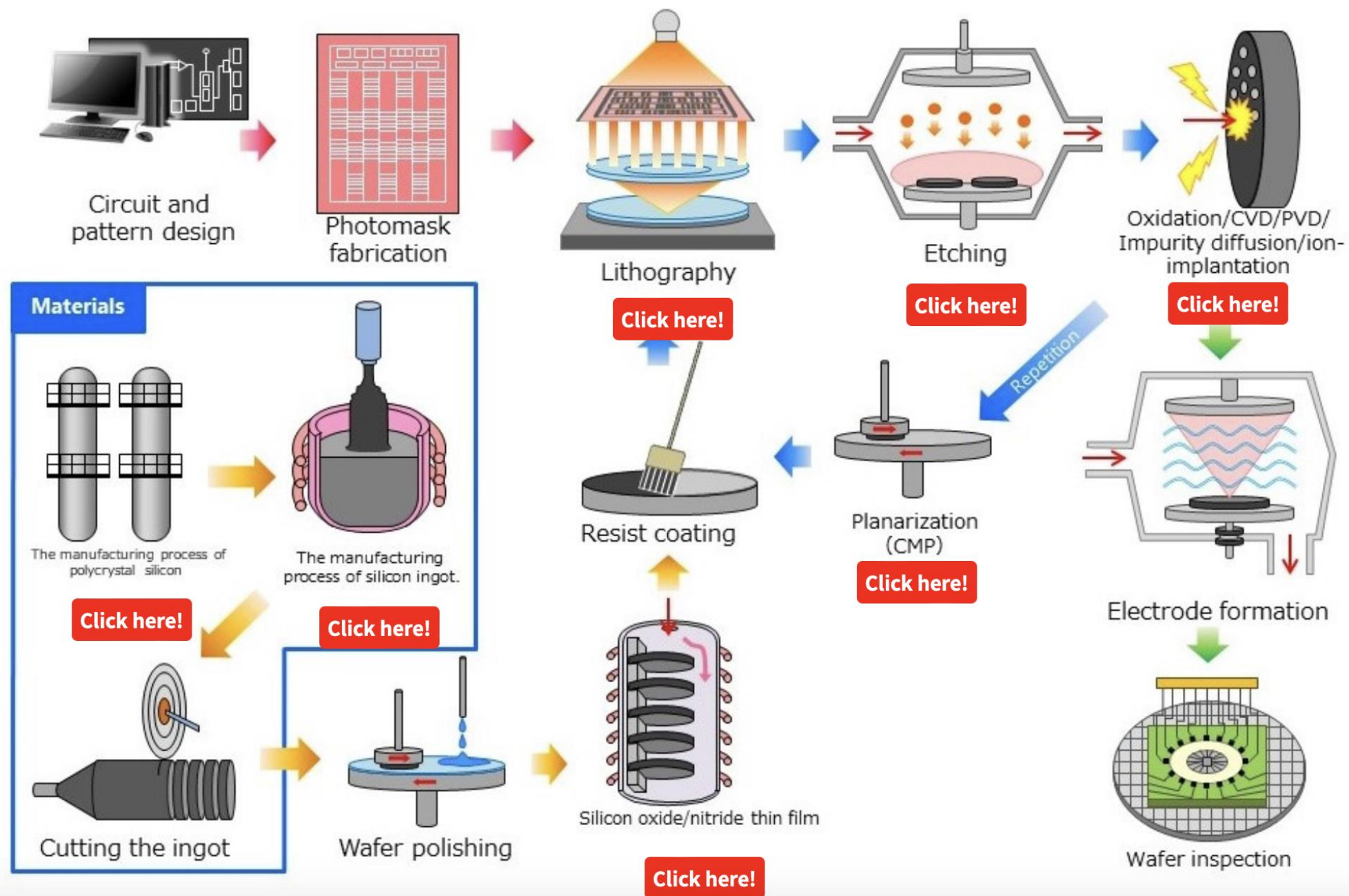
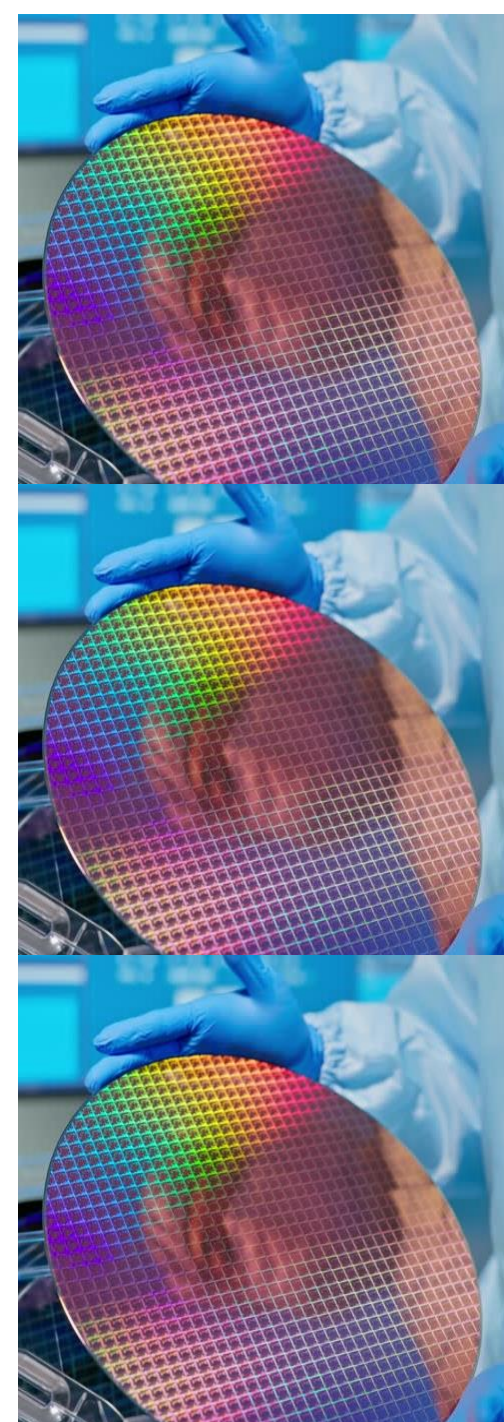
## Achieving Semiconductor Hub Status



## India Semiconductor Mission's Strategic Goals

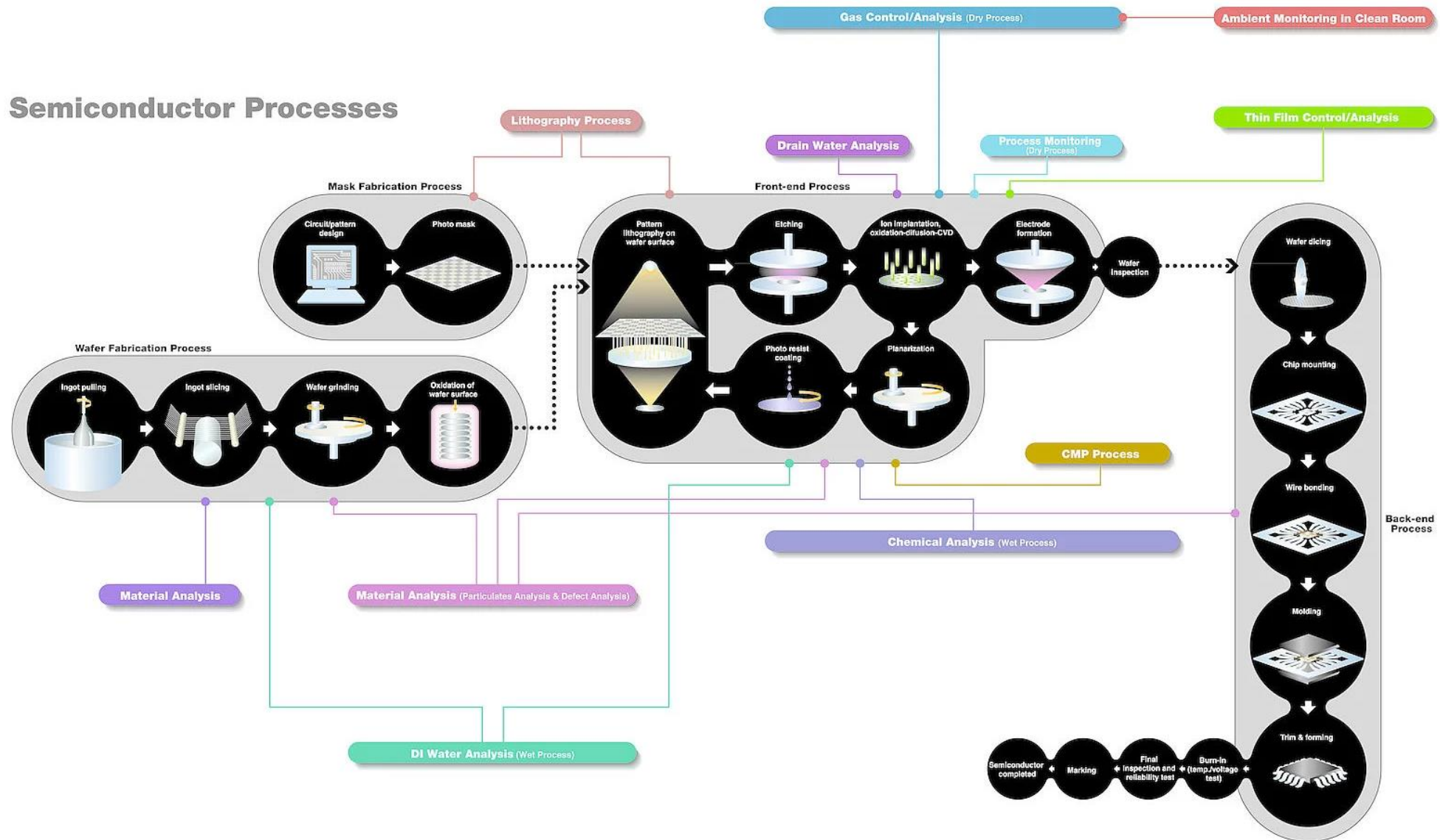




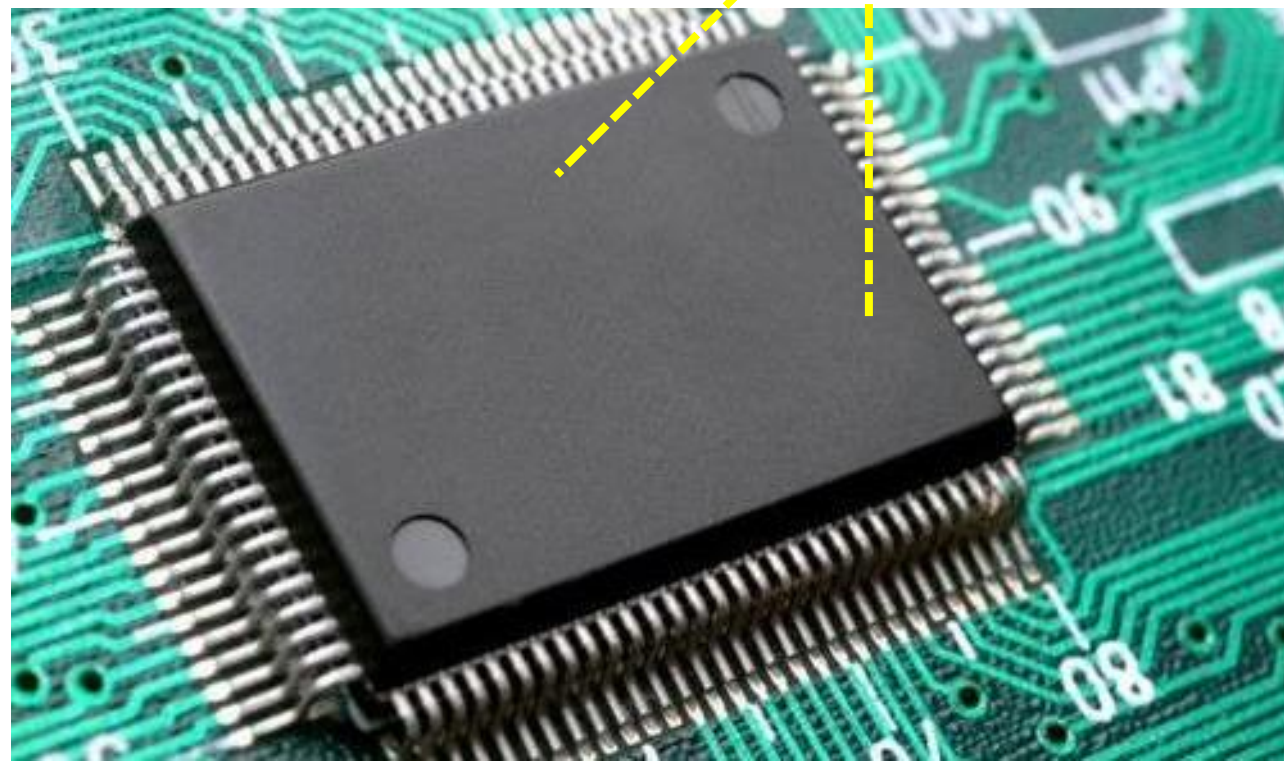
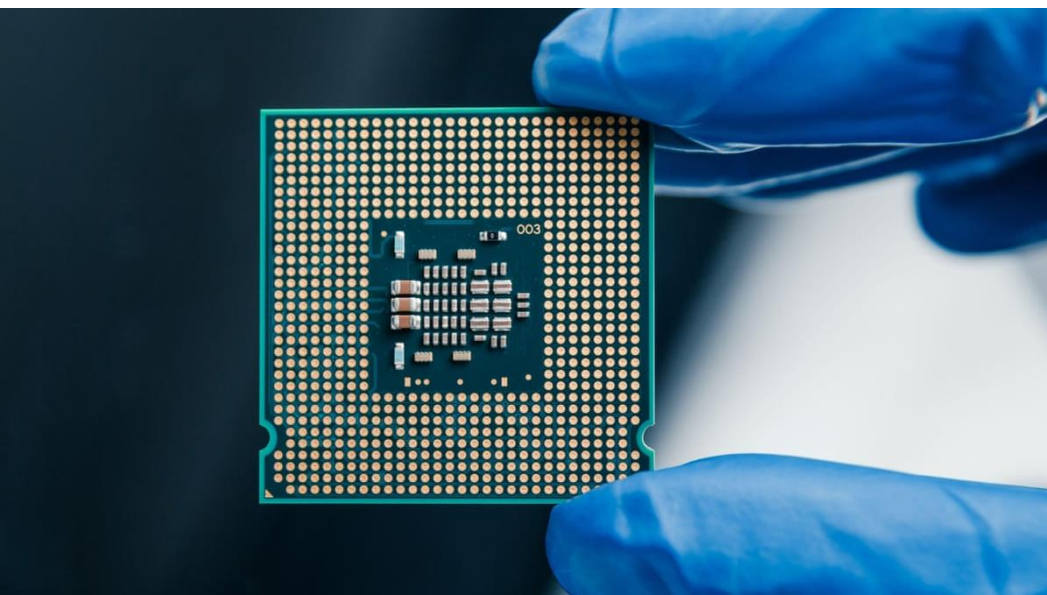
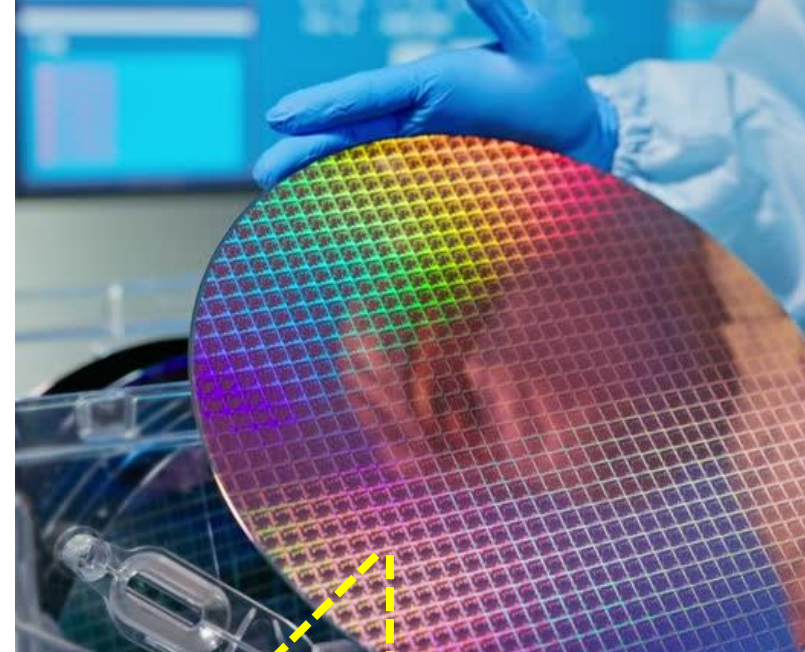
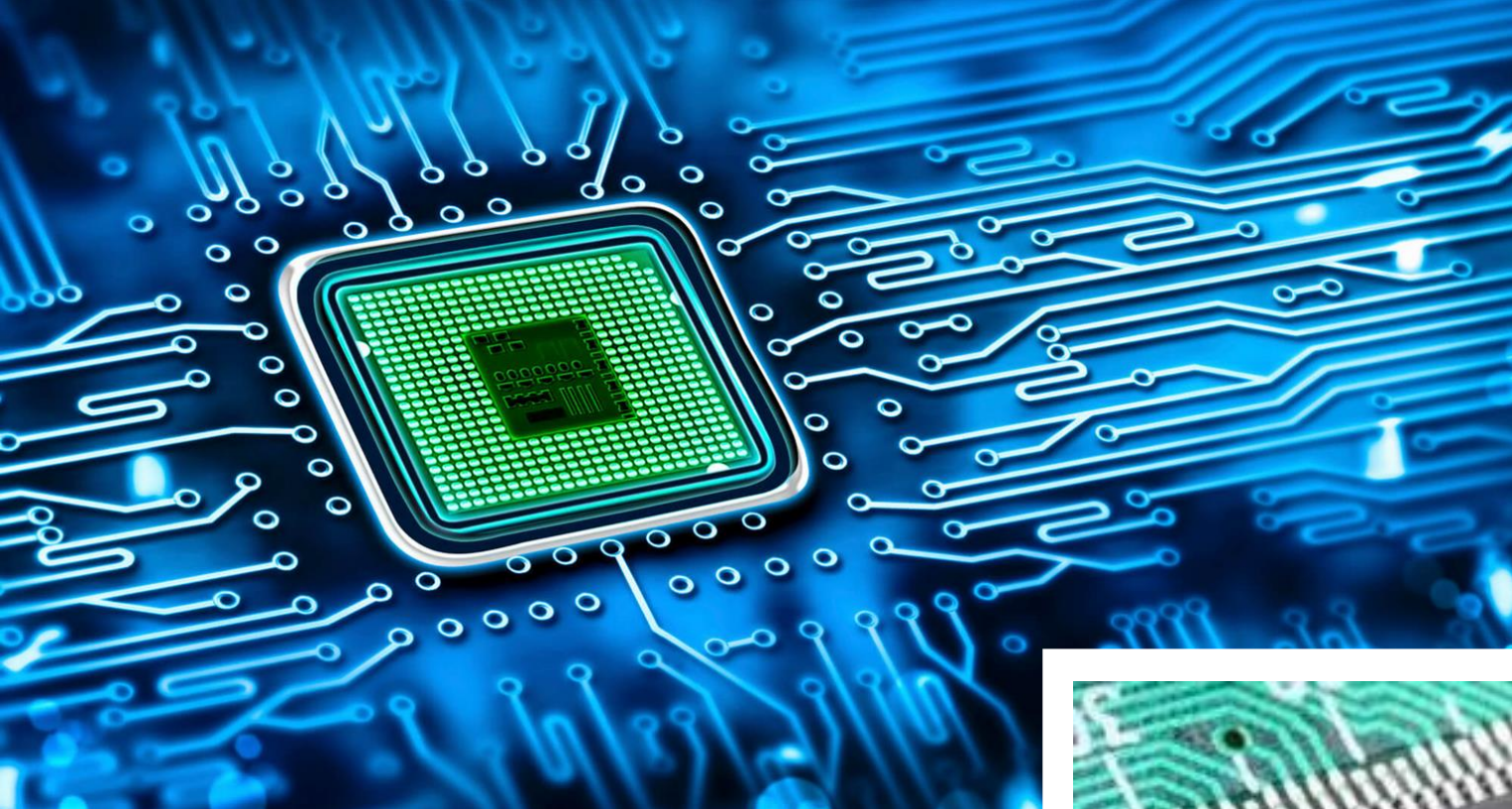




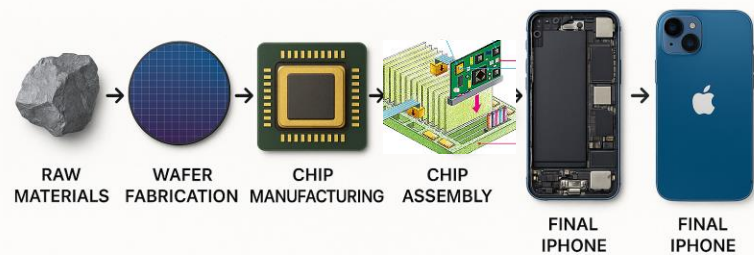
# Semiconductor Processes



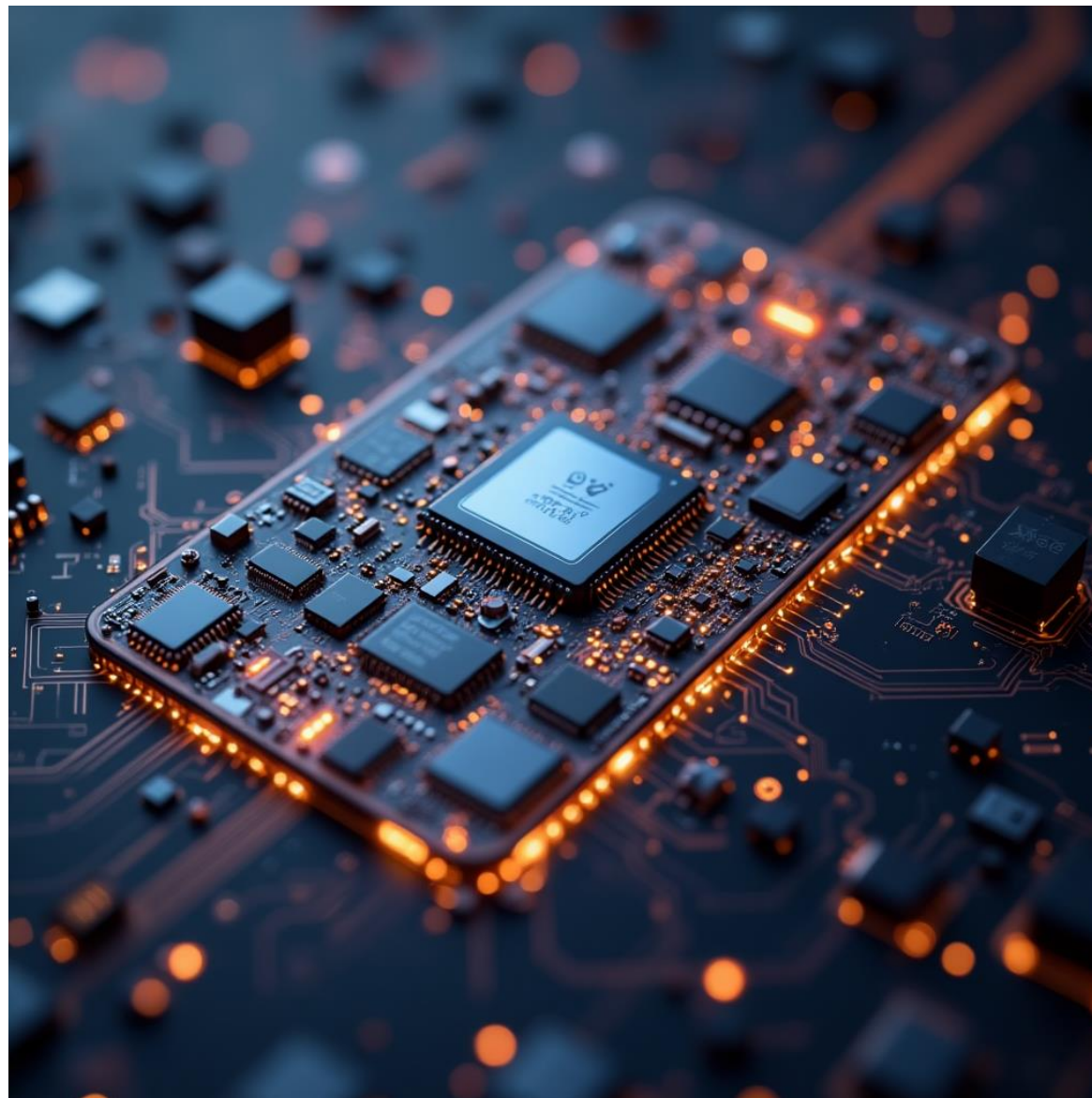
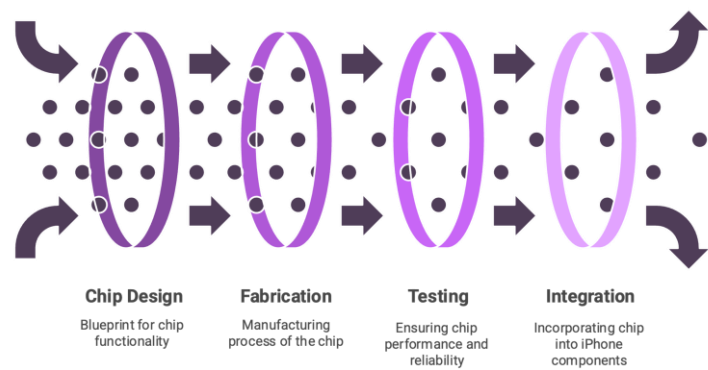




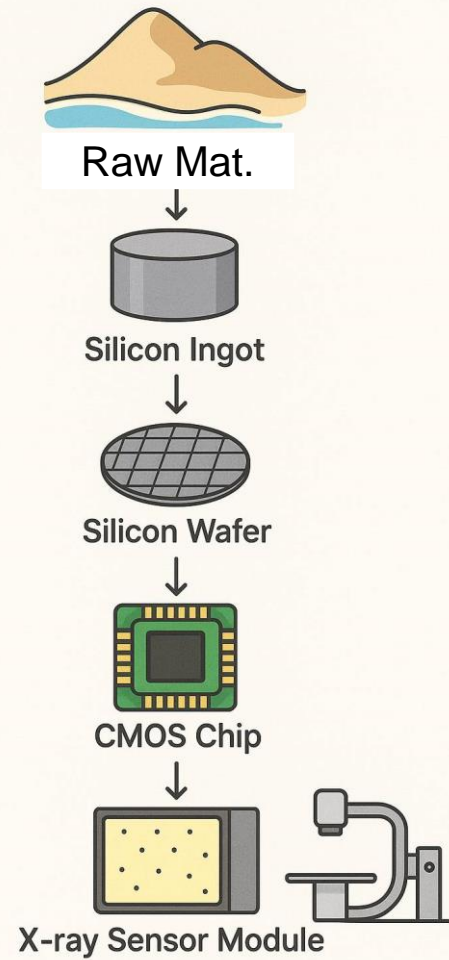








#### Semiconductor Chip Production for iPhone

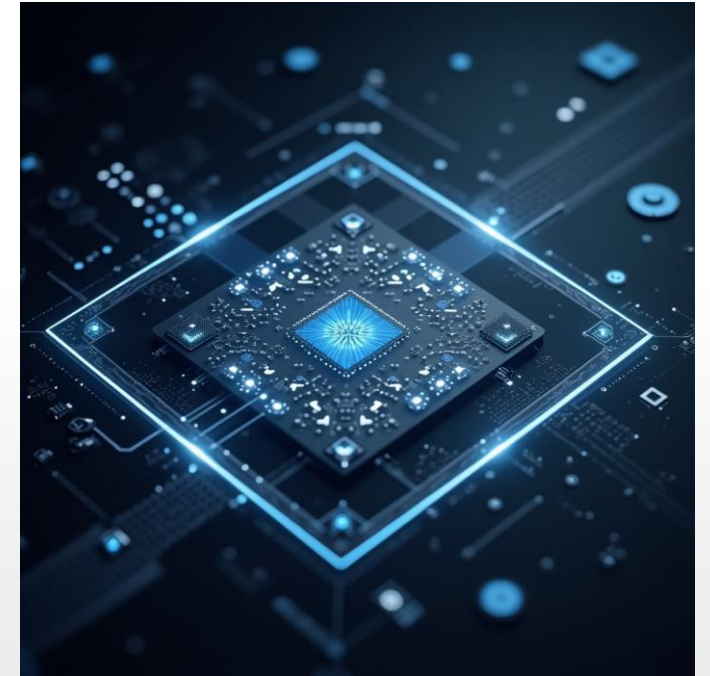




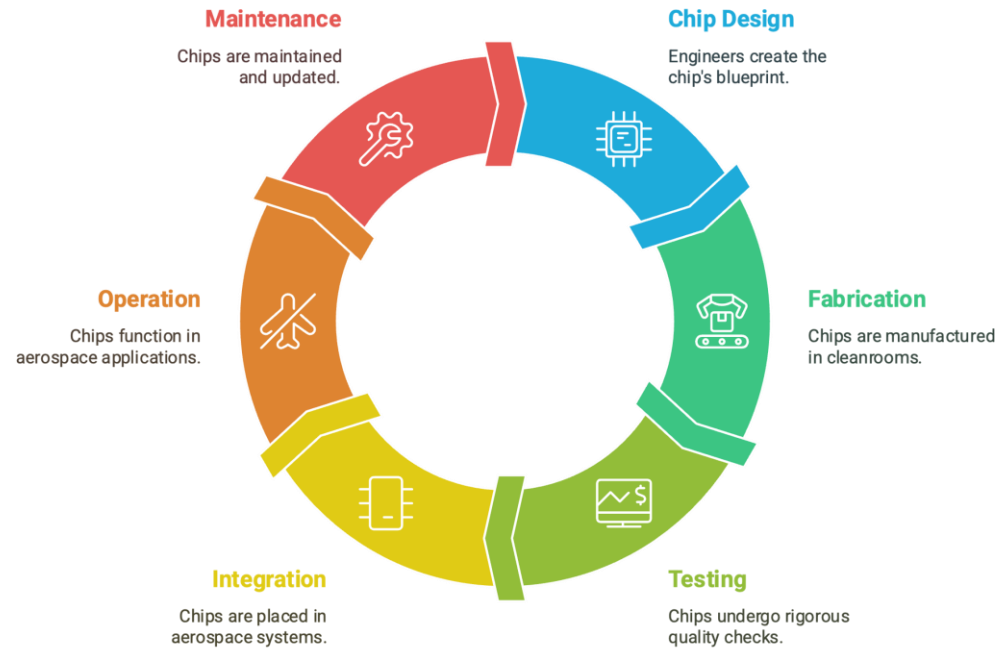


#### Semiconductor Chip to X-ray Sensor

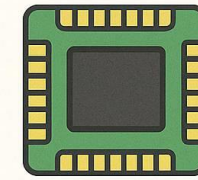
-  **Chip Design**  
Creating the blueprint for the chip
-  **Fabrication**  
Manufacturing the chip from design
-  **Testing**  
Ensuring chip functionality and quality
-  **Integration**  
Incorporating chip into sensor



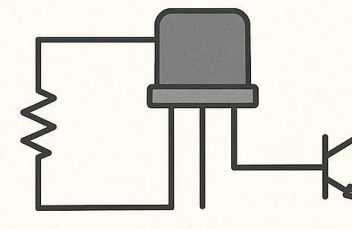
### Semiconductor Chip Lifecycle in Aerospace



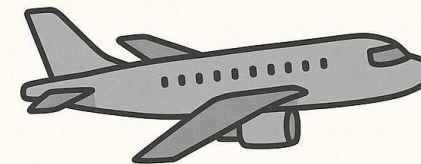
Raw Mat.



CMOS Chip

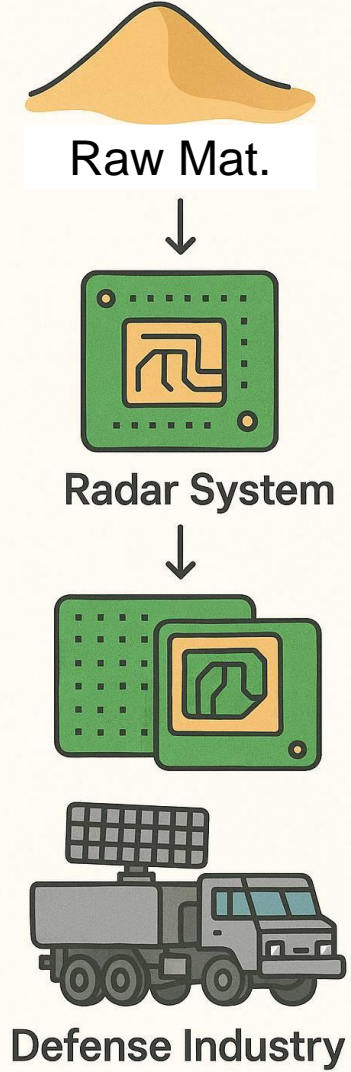
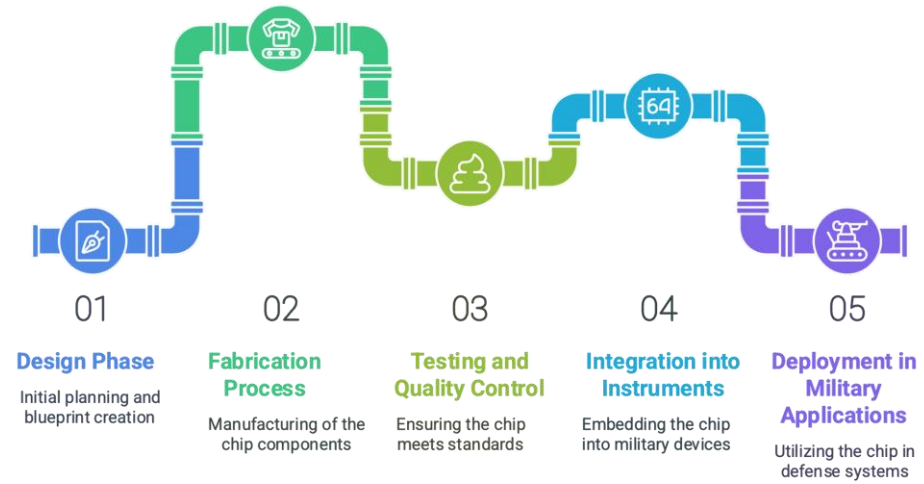


Transistor Circuit



Aerospace Industry

### Semiconductor Chip Production for Military Use





Essential Materials for Semiconductor Manufacturing



**Silicon**  
A fundamental material for semiconductors



**Gallium**  
Used in compound semiconductors



**Germanium**  
Another key semiconductor material



**Copper**  
Essential for electrical conductivity



**Aluminum**  
Used for interconnects and packaging



**Rare Earth Elements**  
Critical for specialized applications

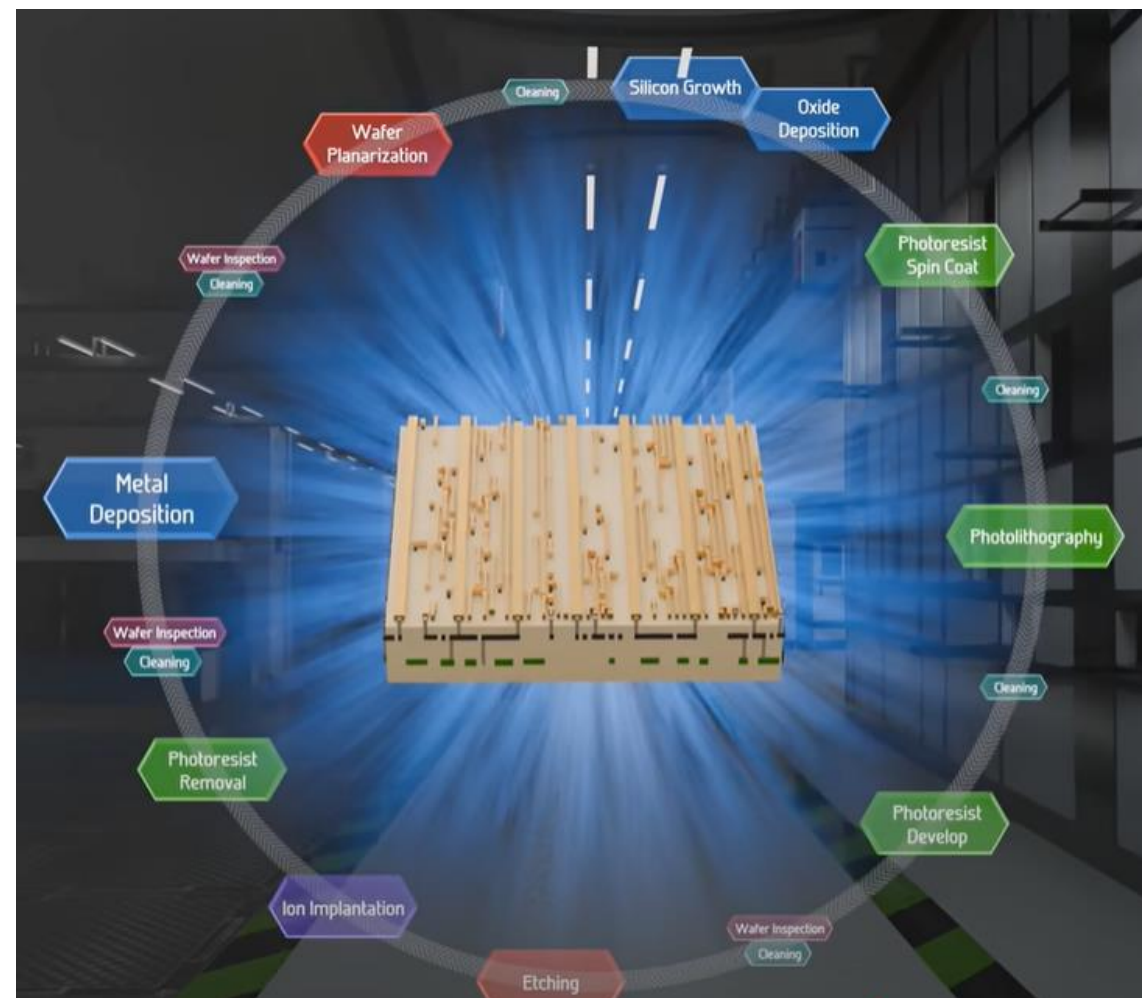
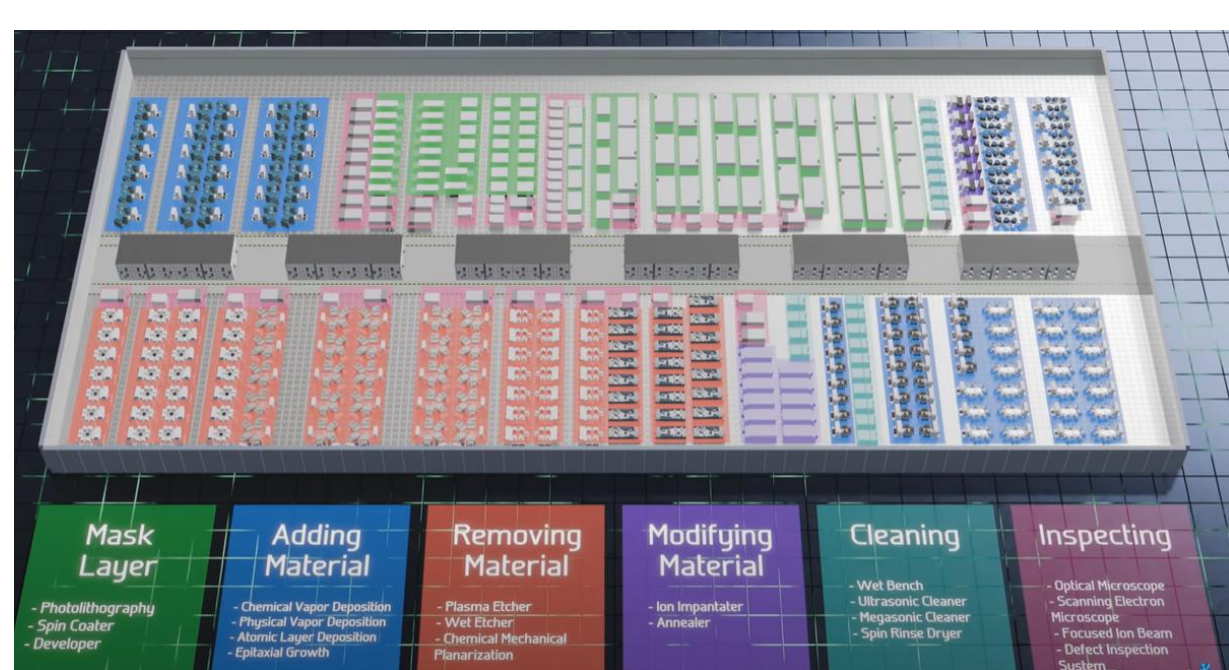


**Chemicals and Gases**  
Necessary for various manufacturing processes

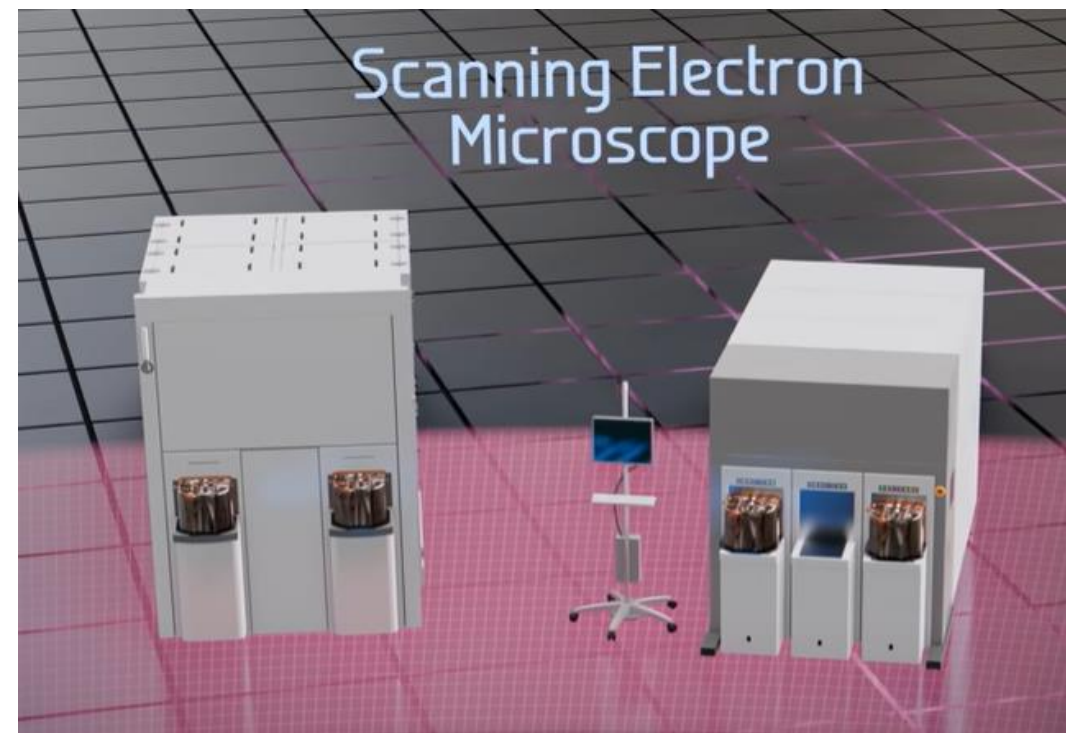
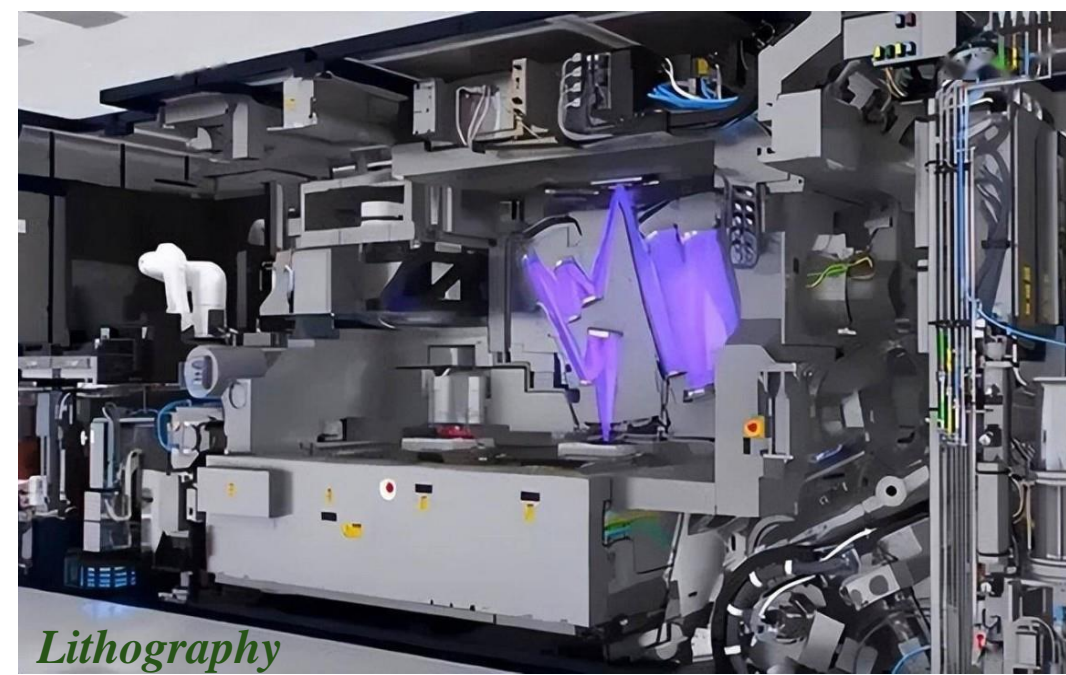
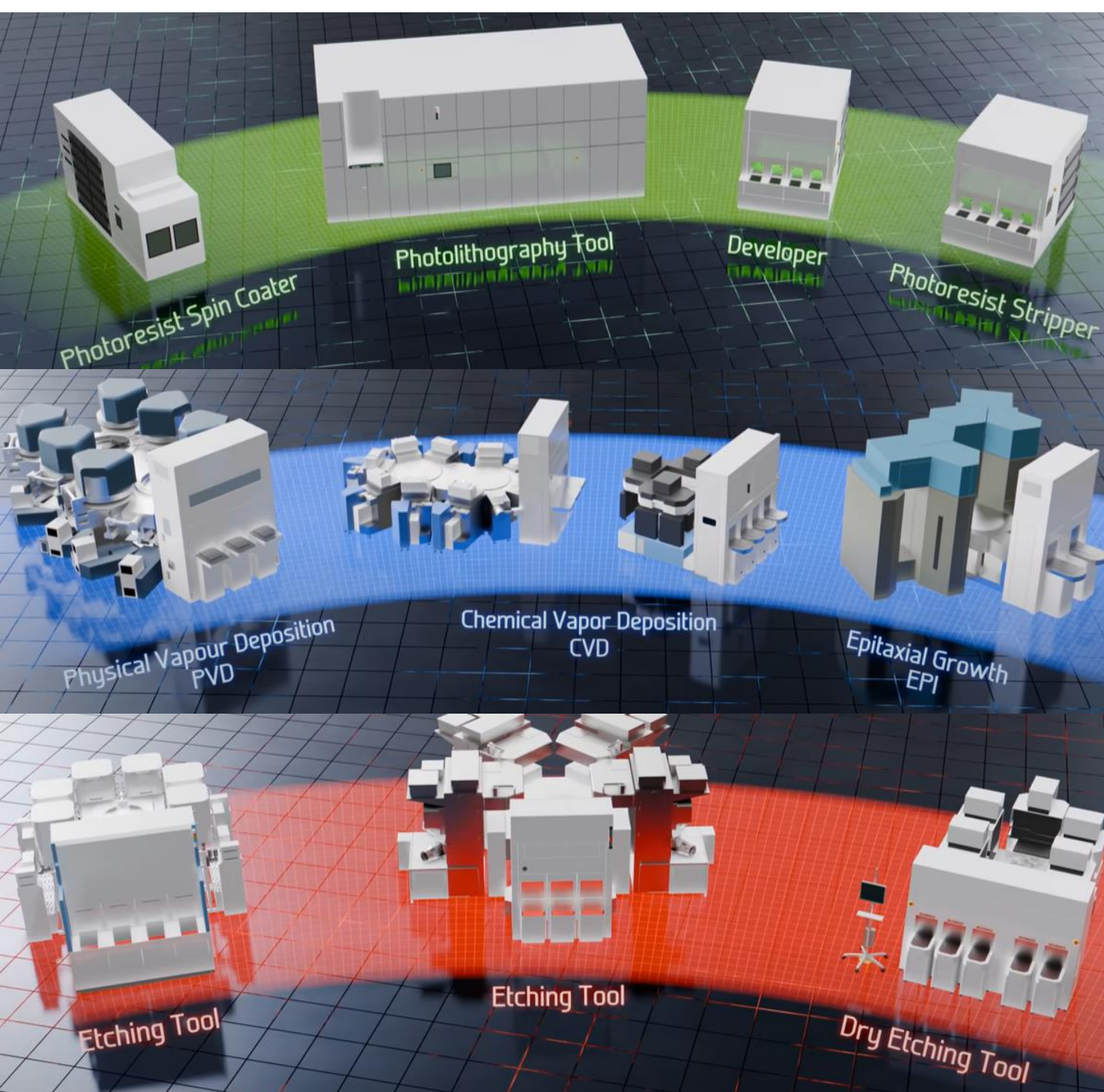
Availability of Materials in India

Material	Availability
Silicon	Available
Gallium	Available
Germanium	Available
Copper	Available
Aluminum	Available
Rare Earth Elements (REEs)	Available
Chemicals and Gases	Available









## Our Expertise- Streamlined Product Facility Setup



### End-to-End Setup

Comprehensive facility establishment



### Streamline Analysis

Optimizing processes for efficiency



### Expert Consultation

Training from scientists and engineers



### One-Pot Solution

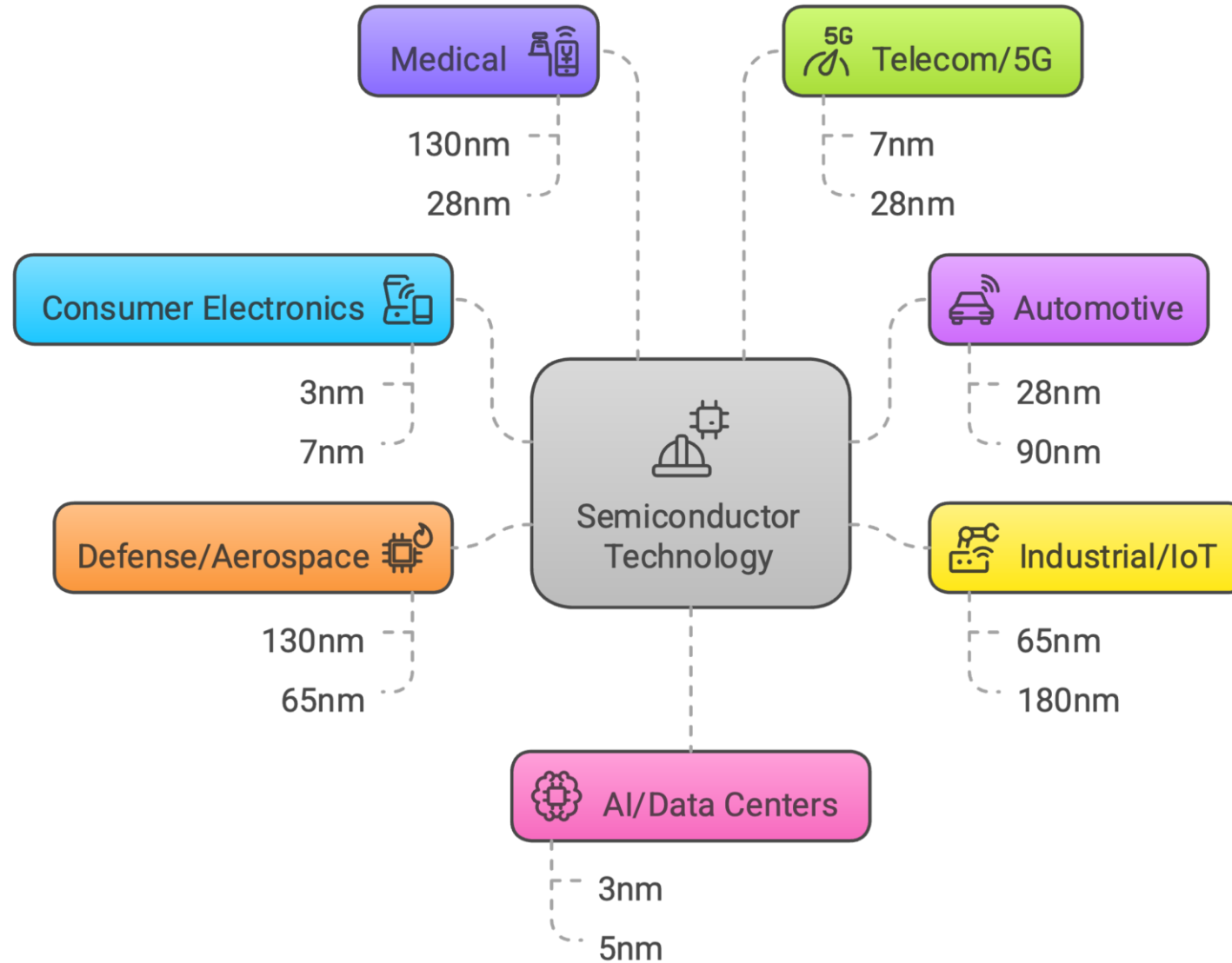
Integrated problem-solving approach



### Precision Instruments

Ensuring high-quality equipment setup

# Semiconductor Technology in Various Industries

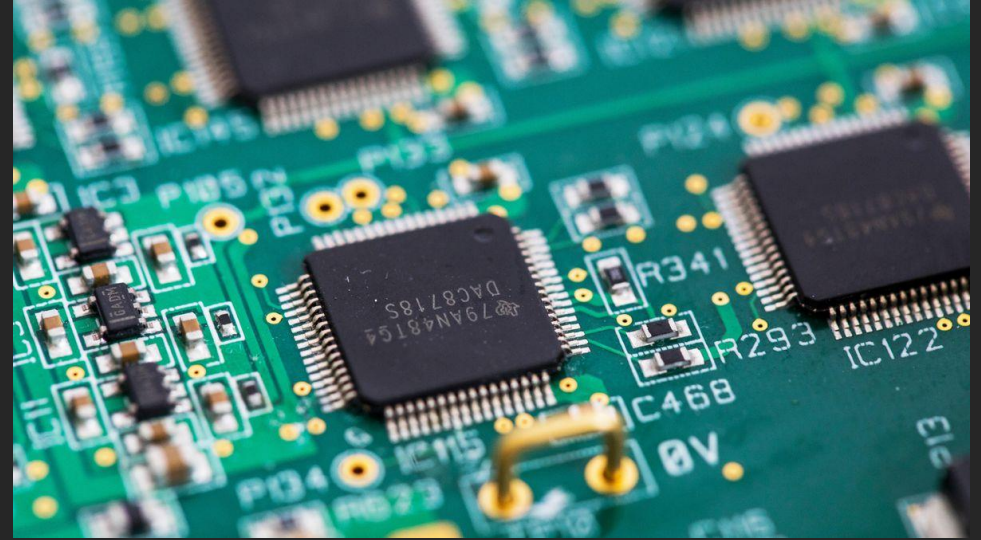




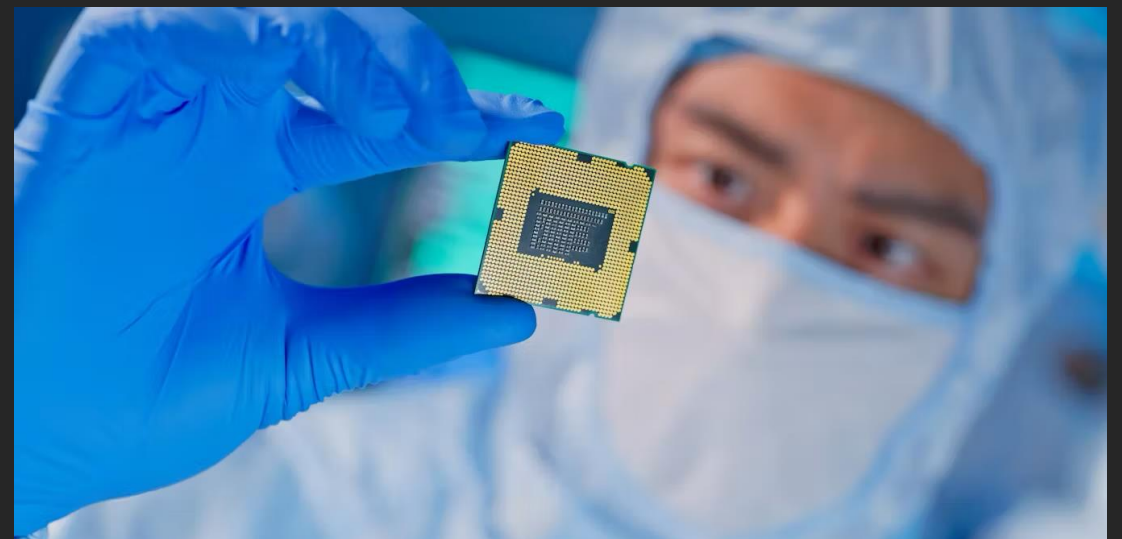
**Defense Industry**



**Aerospace Industry**



**Consumer Electronics Industry**



**Medical Industry**