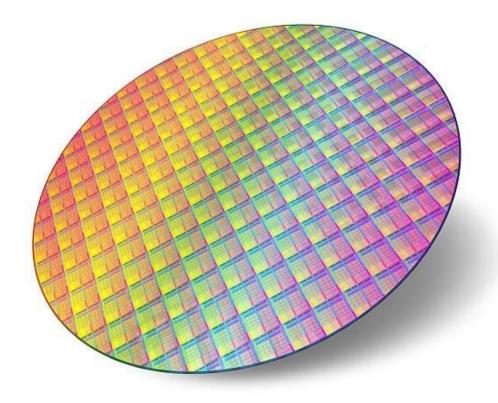
Establishing **Resilient Supply** Chains for Electronics & Semiconductor Manufacturing

Semicon India Program







Fastest Growing Major-Economy

Advantage India



Fastest growing G20 Economy



Highest Fin-Tech Adoption



2nd in Internet User Base



Vibrant Startup Ecosystem



5th Largest Economy jumped 6 positions since 2012



7% GDP Growth(FY 2022-23)

522 Mn Working class Population with median age of 28.2

3rd Largest Economy by 2027 (Morgan Stanley Report, 2022)

3rd Largest Startup Ecosystem

144k+

Registered startups

3.6k+
Deep tech

Startups

27k+

Technology startups

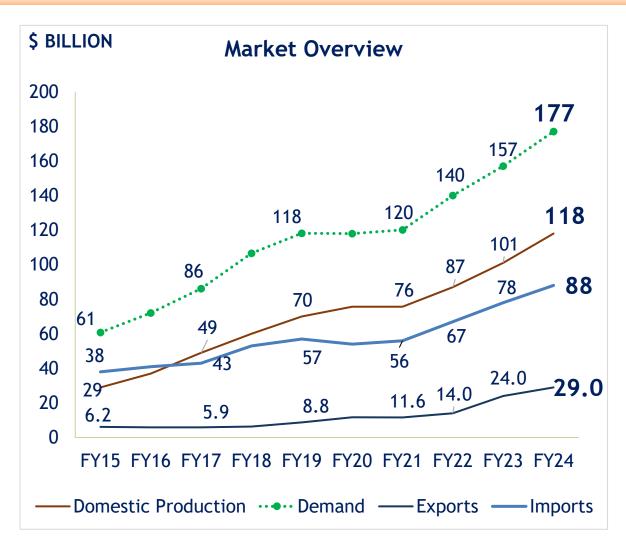
\$24 Bn+

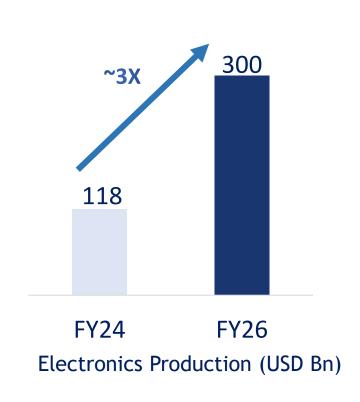
Equity investment received by Indian Tech startups

114+ Unicorns

~ 10 Mn STEM Graduate Pipeline

~\$300 Bn Electronics Manufacturing by 2026





Source: Ministry of Electronics and IT Annual Report

Policy Support for Semiconductor & Electronics Manufacturing (>\$22Bn)

PLI Scheme

- Mobile & IT Hardware
- Electronic Components
- IT Hardware

Support for Allied Sectors

- Advanced Chemistry Cell
- Automobiles Components
- Telecom & Networking
- Solar PV Modules
- White Goods

Supported Companies



Semiconductor Ecosystem in India (Since 1985)

Design/Virtual Fab Ecosystem

Manufacturing Supplier Ecosystem

























EDA & IP Core

cādence Synopsys Mentor arm













Strategic Facilities







Fab Consumables













India Houses more than 20% of Global Semiconductor Design Engineers

Semiconductor Ecosystem in India

Power



Installed Capacity

448 GW (3rd largest)



Installed Capacity

Renewables

197 GW

(~43%)



Renewables Targets:

500 GW by 2030

Talent Pool



~10Mn

STEM Talent Pipeline



85k+

Semiconductor Talent Development by 2026



28.2 years

Median Age

Largest Working Population by **2047**

Domestic Market



~\$300Bn

Electronics Production by 2026



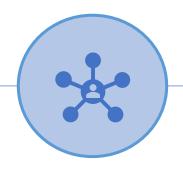
~\$110 Bn

Semiconductor Market Opportunity by 2030

(~10% of Global Market)

2nd Largest Manufacturer of Mobile Handsets

India Semiconductor Mission (ISM)







Dedicated Institution

- Independent autonomous institution
- Expert leadership
- Industry-driven approach to policy implementation

Implementation Agency

- Application appraisal
- Negotiations with applicants
- Approval letter
- Pari-passu Fiscal Support

Drive Long Term Strategy

- Sustained engagement with industry
- Partnership with State
 Governments
- Enable pre-competitive research & capacity building

Semicon India Programme

50% pari-passu Incentives for Semicon Manufacturing (~\$10 Bn Outlay)





- Semiconductor Fab (all nodes)
- Display Fab (LCDs/AMOLED)
- ATMP/OSAT
- Compound Semiconductors Fab
- MEMS
- Sensors
- Discrete devices

~20 Proposals under appraisal/approval

Confidential 8

Approvals under Semicon India Programme (~USD18 Bn total investment)

Semiconductor Fab





Outsourced Semiconductor Assembly & Test (OSAT)









Dholera, GJ

USD 11 Bn

(INR 91,000 Cr.)

Investment

50,000 WSPM Capacity

28/45/55/90/110 nm nodes

Sanand, GJ

~USD 2.7 Bn (INR 22,516 Cr.) Investment

~16 Mn units/ Week Capacity

Morigaon, AS

~USD 3.25 Bn (INR 27,000 Cr.)

48 Mn units/ Day
Capacity

Sanand, GJ

~USD 915 Mn

(INR 7,600 Cr.)

Investment

15 Mn units/ Day Capacity

Sanand, GJ

~USD 400 Mn

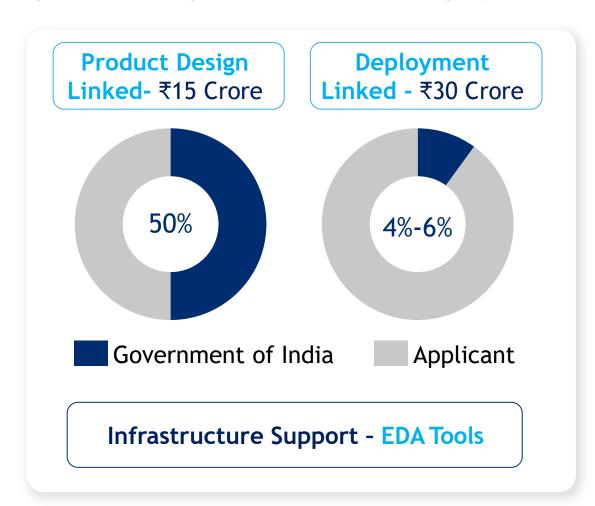
(INR 3,300 Cr.)

Investment

6.33 Mn units/ Day
Capacity

Design-linked Incentive (DLI) scheme

~50% product-design linked and 4-6% deployment linked incentives for Semicon design companies





Target Segments

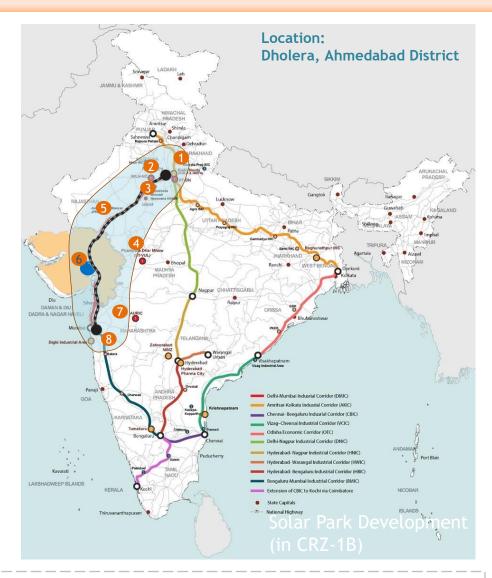
Integrated Circuits (ICs), Chipsets, System on Chips (SoCs), Systems & IP Cores

- 13 Companies approved for financial Support;
- 31 Companies approved for EDA Tool Support



Under Chips to Startups (C2S): EDA Tools to 200 Academic Institutions; Training 85K specialized manpower

Ecosystem Case Study I: Semicon City (Dholera, Gujarat)



Salient Features

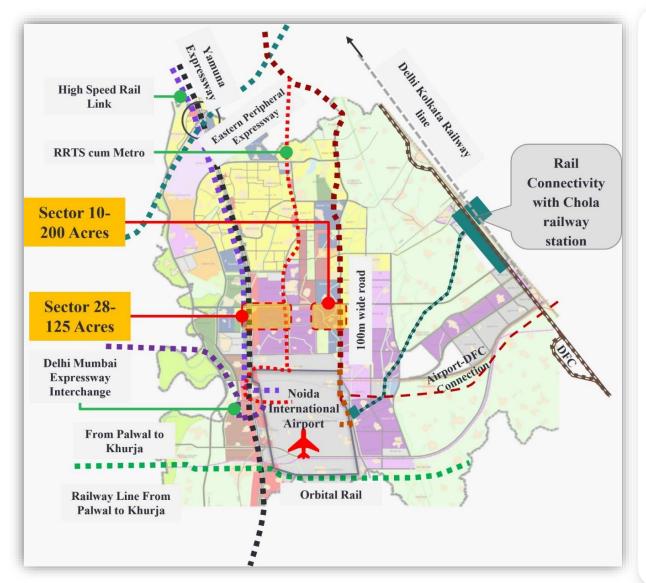
- Land:10K Acre developed, > 100K Acre Land
- Water: 30 MLD→100 (2 yrs.)→300 (5 yrs.)
- Power (Quality):5 interconnected Substations
- International airports by 2025-26
- High Speed Train from Ahmadabad planned
- 5 GW Solar Power under construction (300 MW commissioned)
- Good Ports connectivity

Existing Allotees





Ecosystem Case Study II: Semicon Parks (Noida, Uttar Pradesh)



Salient Features

- 2 Semiconductor clusters earmarked (Sector 28, Sector-10) in Yamuna Expressway Authority
- Land Bank: 325 acre; Power: 400/200/132 KV substation; Water: 8 MLD; STP 60 MLD

Multimodal Connectivity

- Noida International Airport (Distance from sector28&10-4km, CoD April-2025)
- Rapid Rail Transit System; High Speed Rail planned from Delhi to Varanasi
- Interchange of Delhi-Mumbai Expressway Constructed at Yamuna Expressway

Building Global Semiconductor Partnerships



Recent Announcements



\$400 Mn. for setting up collaborative engineering centre



\$400 Mn. in next five years to expand R&D operations in India

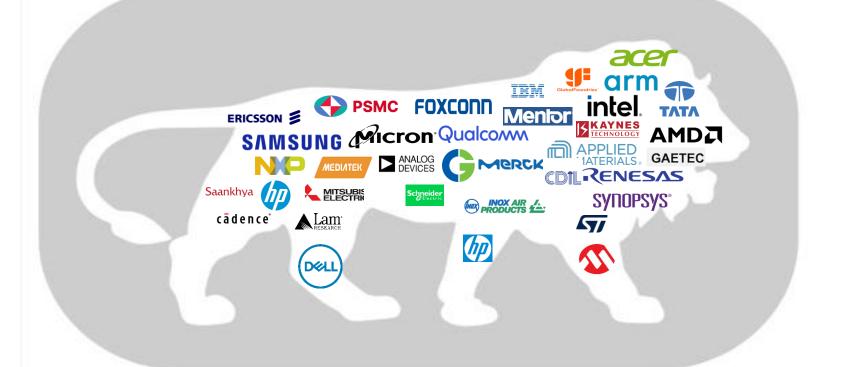


\$300 Mn. in expanding its R&D presence in India



Train 60K Indian engineers through its Semiverse platform

Make in India for the World



Thank You