

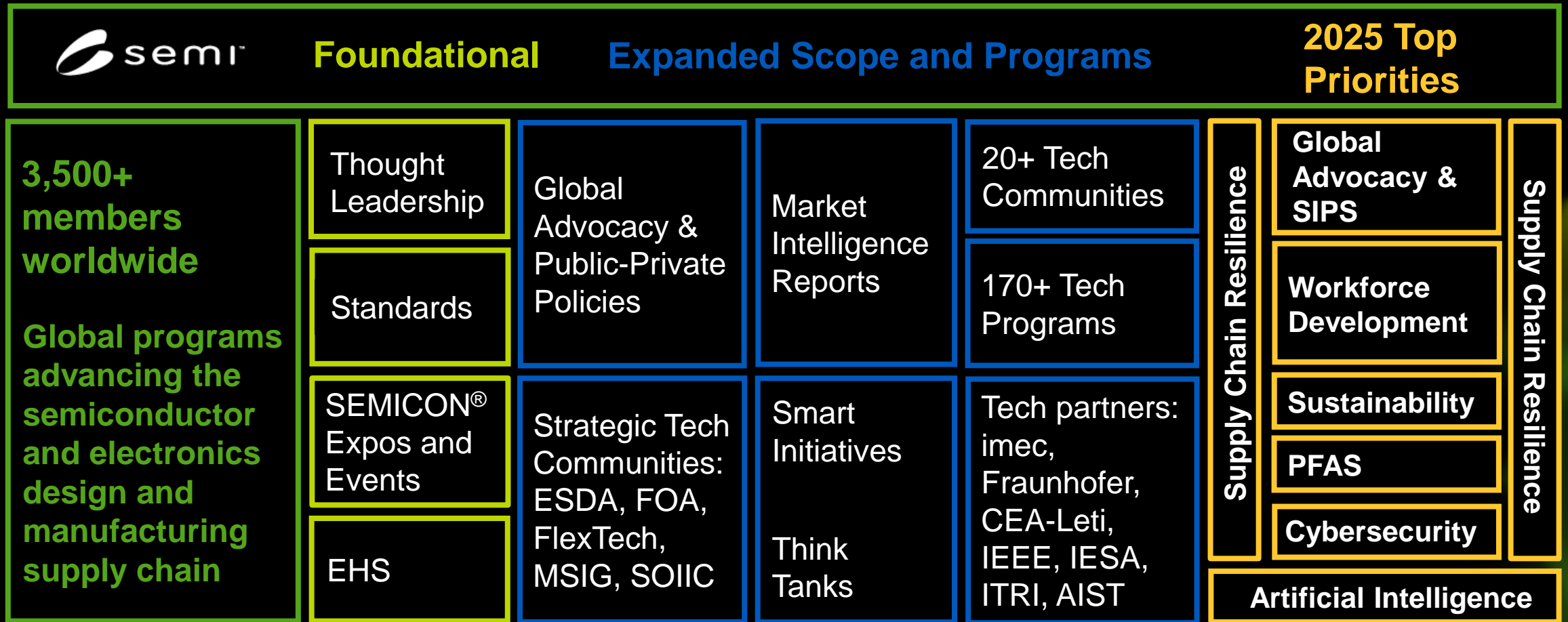


SEMI Webinar: Semiconductor CAPEX and Capacity Outlook – Architecting Growth in the AI Era

May 28, 2025

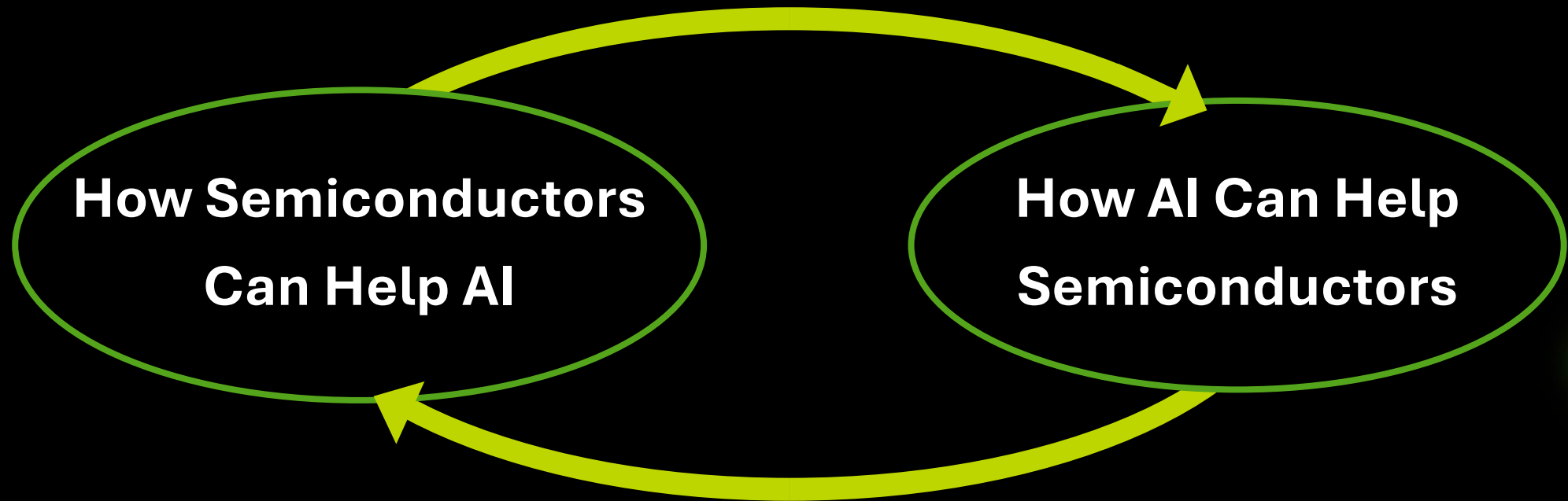
Ajit Manocha, President & CEO, SEMI

SEMI Uniquely Supports the Global Industry's Growth with Collaborations on Top Challenges



SEMI Smart Data-AI Initiative Focus Areas

Accelerating a Virtuous Cycle of Semiconductors and AI

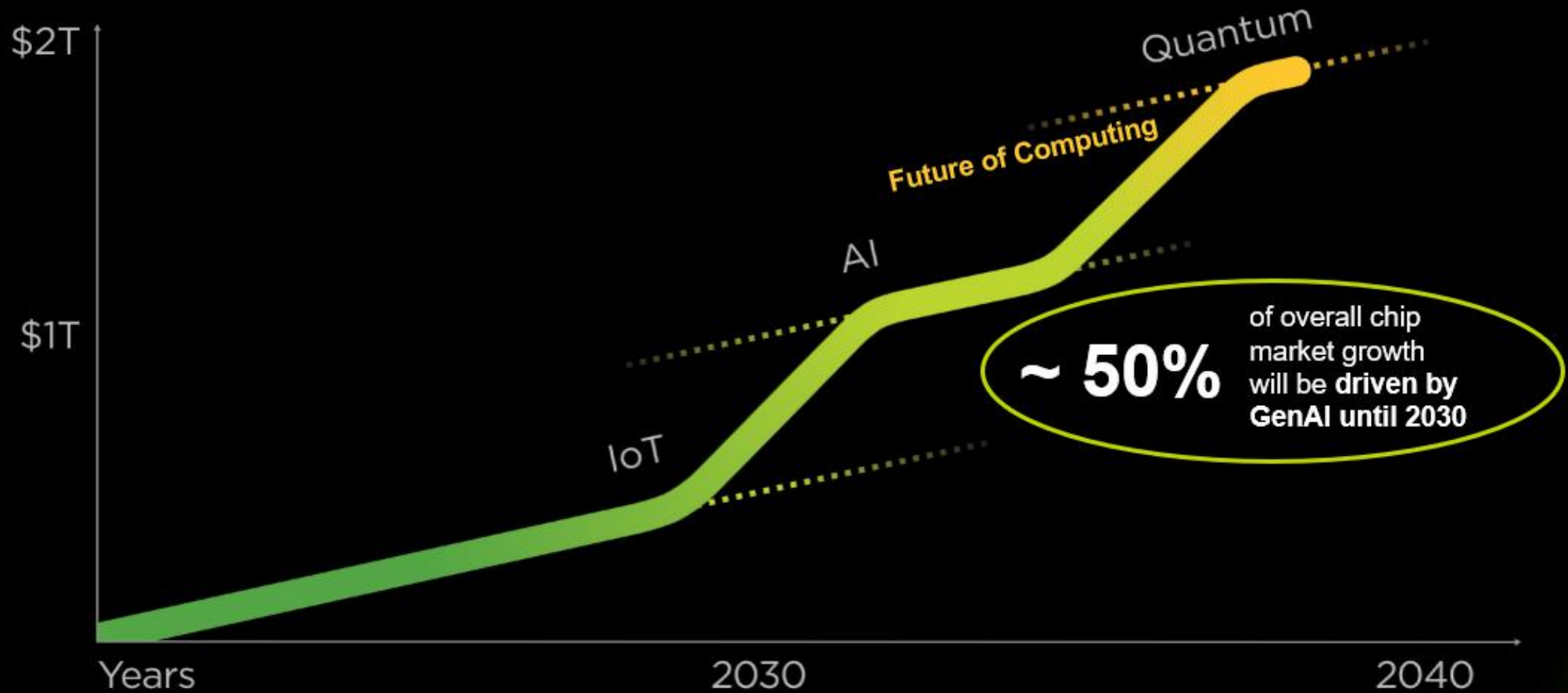


- Solutions to Enable Energy-efficient Future of Computing for AI
- Integration of Photonics & Quantum

- Demonstration of AI & Digital Twins (DTs) for R&D & Manufacturing
- Standards for Secure Data Sharing



Unprecedented Semiconductor Industry Growth



Unprecedented Manufacturing Expansion

105 New Fabs Coming Online through 2028 – **84** in progress

30+ Additional fabs still needed through 2030 – **135+** fabs – How much CAPEX?





**Get involved in the Smart
Data-AI Initiative and
other SEMI programs to
advance the industry.**

Thank You!