SYNOPSYS® Synopsys Overview Q3 FY2025



# **Empowering Our Customers' INNOVATION**

### **PURPOSE**

To power innovation today that ignites the ingenuity of tomorrow

### **MISSION**

to drive human advancement

### **VALUE PROPOSITION**

Maximize customers'
R&D capabilities and multiply
their productivity

# SYNOPSYS®

Our Technology, **Your Innovation**™

# CREATING THE LEADER in Engineering Solutions from Silicon to Systems



Leader in Silicon Design





Leader in Simulation & Analysis

### **PROVIDES**

comprehensive solutions for the entire silicon design process including multi-die simulation & analysis

### **EXTENDS**

Al leadership in EDA and simulation to accelerate customers' innovation

### **ACCELERATES**

creation of intelligent products by bringing silicon expertise across systems verticals

# THE LEADER in Engineering Solutions from Silicon to Systems

#1

in EDA

LEADER

in advanced node designs

**PIONEER** 

in Al-powered EDA

#2

in silicon IP

LEADER

in interface & foundation IP

**PIONEER** 

in IP nodes & standards

#1

in simulation & analysis

**LEADER** 

in multiphysics

**PIONEER** 

in simulation-related AI & digital twin

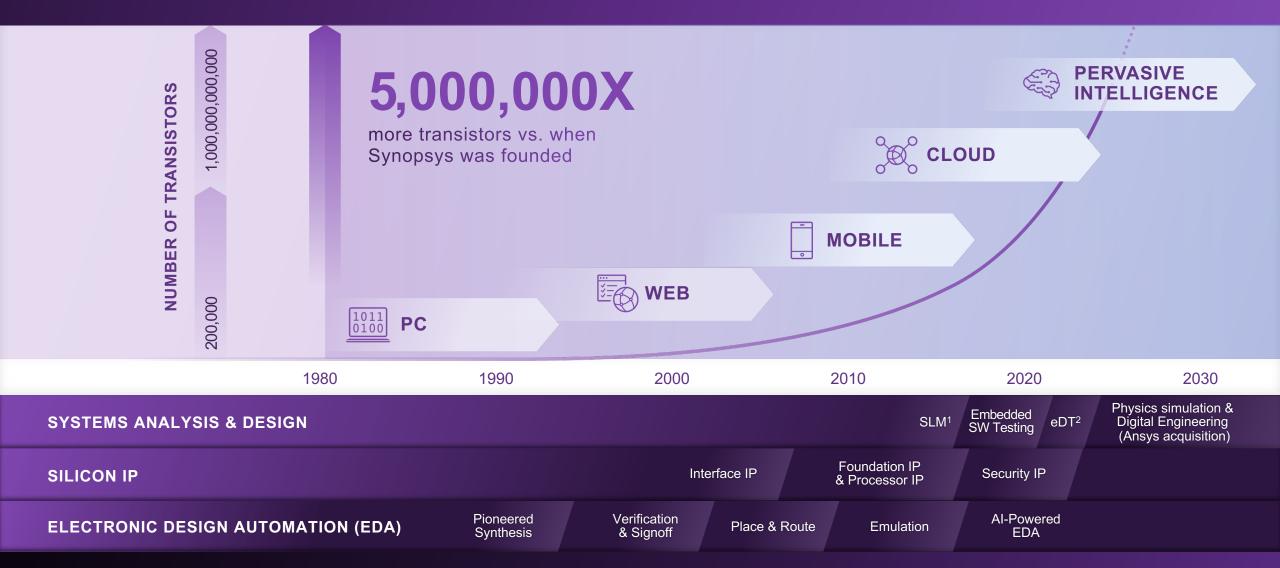
~\$9B
Revenue (TTM)

~28K
Employees

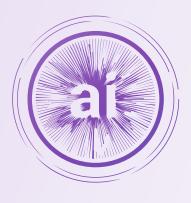
>25%
R&D Investment

38
Countries

# THE DRIVING FORCE of Transformative Technology



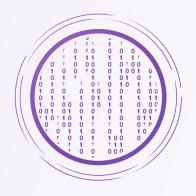
# Powering the Era of **PERVASIVE INTELLIGENCE**



### **ARTIFICIAL INTELLIGENCE**

Exponential productivity and efficiency gains

Overcoming energy and compute limits



### **SOFTWARE-DEFINED SYSTEMS**

New applications, new methodologies
Enabling increased complexity & pace of innovation



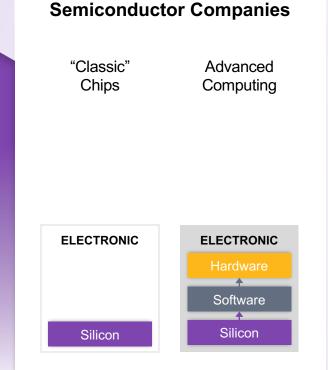
### **SILICON PROLIFERATION**

More silicon content everywhere Boosting R&D productivity

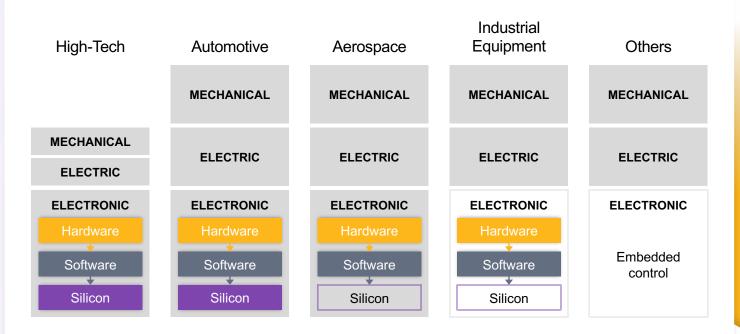
# Requiring Holistic ENGINEERING SOLUTIONS FROM SILICON TO SYSTEMS

Electronics SYSTEMS SPECTRUM Electro-Mechanical

# SILICON TO SYSTEMS



### **Systems Companies**

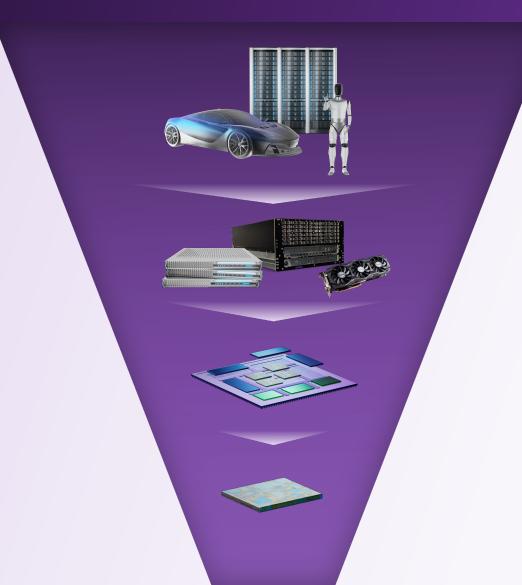


SYSTEMS

**T**0

SILICON

# Systems Design Encompasses MANY ENGINEERING DOMAINS



### **FLUIDS**

Aerodynamics for efficiency, cooling

### **THERMAL**

Heating/cooling

### **MECHANICAL**

Stress forces, multi-die interconnect

### **SOFTWARE**

OS, middleware, application

### **ELECTRICAL**

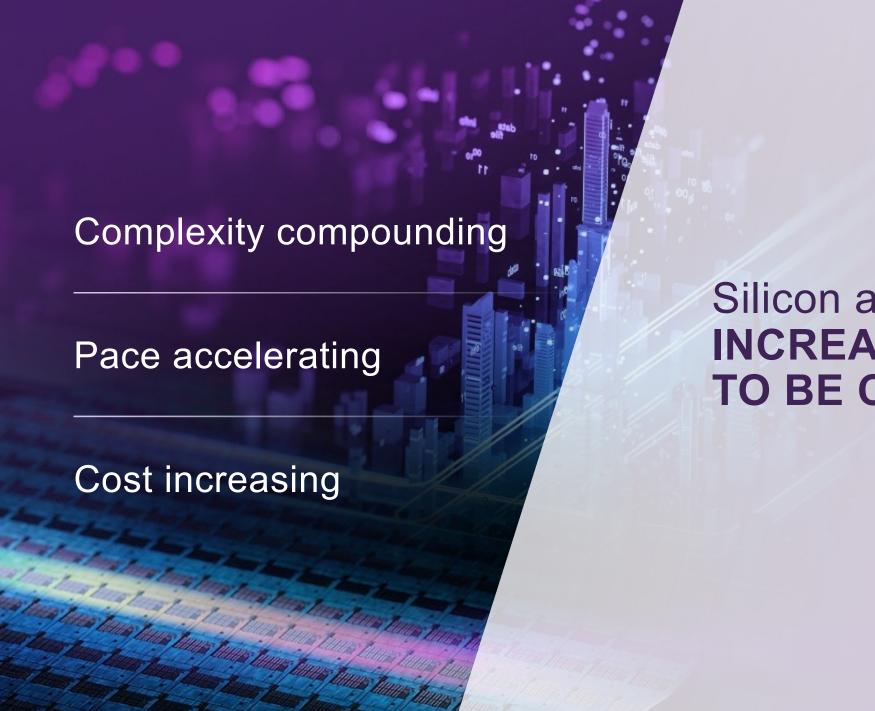
Reliability, PCB, power supply efficiency, ESD, EMAG

### **OPTICAL**

Photonics and lens design for high-speed interconnects

### **SILICON**

Functionality, power, performance, signal integrity, packaging, EMIR

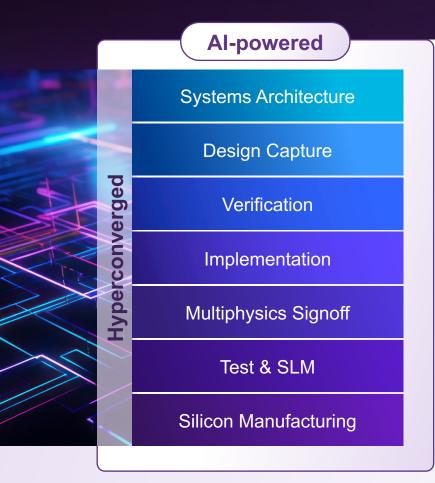


Silicon and Systems
INCREASINGLY NEED
TO BE CO-DESIGNED

ELECTRONIC DESIGN AUTOMATION (EDA)	SILICON IP	SIMULATION & ANALYSIS
<ul><li>Architecture</li><li>Digital design &amp; verification</li></ul>	<ul><li>Interface IP</li></ul>	<ul><li>Multiphysics</li><li>Structures</li><li>Fluids</li></ul>
<ul> <li>Analog design &amp; verification</li> </ul>	<ul><li>Foundation IP</li></ul>	<ul><li>Electronics</li><li>Optical</li></ul>
<ul> <li>Hardware-assisted verification</li> </ul>	<ul><li>Processor IP</li></ul>	<ul><li>Systems</li><li>Model-based engineering</li></ul>
<ul><li>Silicon manufacturing</li><li>Silicon lifecycle management</li></ul>	<ul><li>Security IP</li></ul>	<ul><li>Materials &amp; optimization</li><li>Safety &amp; security</li></ul>
<ul> <li>Methodology services</li> </ul>	<ul><li>Design services</li></ul>	<ul><li>Digital twin</li><li>Mission engineering</li></ul>



## **INDUSTRY-LEADING** Full-Stack EDA Solution



#1 IN EDA, Leader in digital design and verification

**OVER 1400** tape-outs at 16nm and below\*

**LEADER IN** GPU-accelerated analog verification

**LEADER IN** simulation and IR-drop analysis

GOLD STANDARD in Signoff and TCAD

**PIONEER** in Al-powered EDA

SUPERIOR CUSTOMER OUTCOMES through PPA, capacity leadership and silicon accuracy

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# **EDA AI LEADERSHIP** - RL to Generative to Agentic

REINFORCEMENT LEARNING

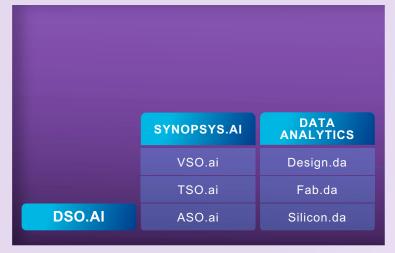
**GENERATIVE AI / LLMS** 

**AGENTIC AI** 

Optimization of Results

Assistive and Creative Capabilities

Autonomous Tasks







**AgentEngineer**<sup>™</sup> **Technology** 

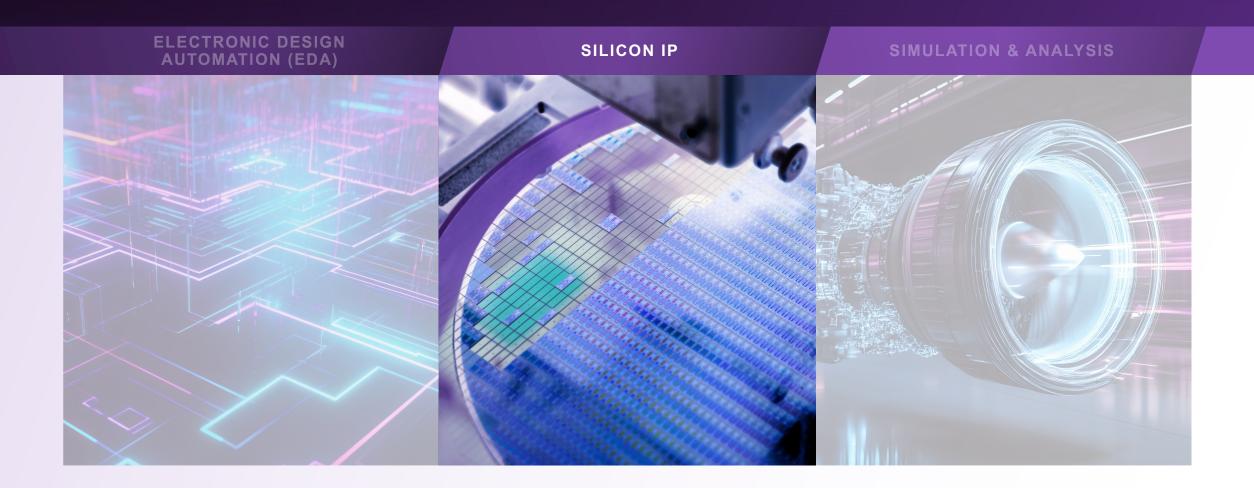
2017-2020

2023

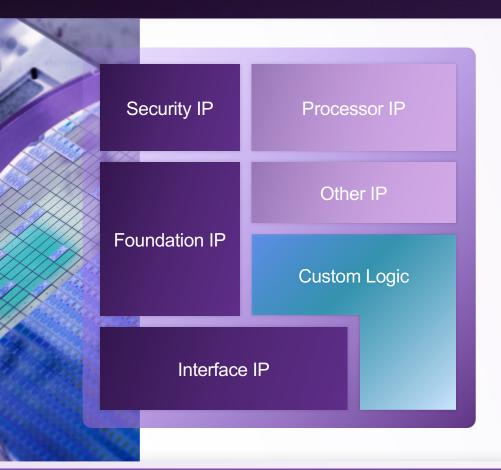
2023

2023

Next



### Broadest & Most Advanced IP PORTFOLIO



**26 YEARS** of investment & commitment

**#2 IP PROVIDER** worldwide

**#1 IN** Interface IP

**#1 IN** Foundation IP

**GROWING** Processor and Security IP portfolios

INCREASE PRODUCTIVITY AND REDUCE DESIGN RISK with high-quality Synopsys IP

# **ADVANCED TECHNOLOGY** to Accelerate Silicon Productivity

Broad IP Portfolio

IP Subsystems

IP Subsystem Hardening

Advanced Package

Silicon Bring-up

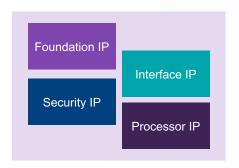
Reduced TTM

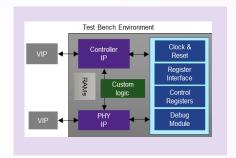
Reduced risk

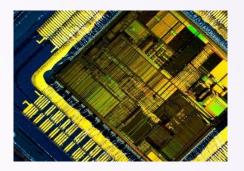
Improved design efficiency

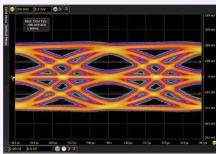
Maximized signal & power integrity

Shortened time to production







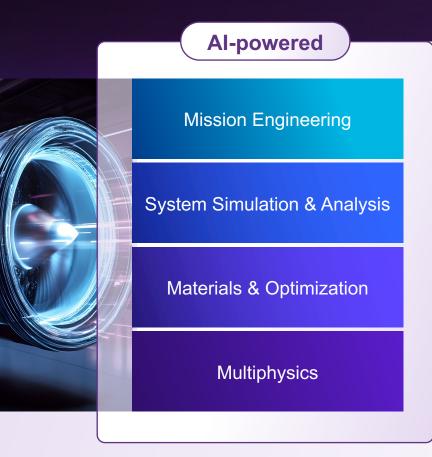




SYNOPSYS PARTNERSHIP from IP Core to Silicon Bring-Up



# **INDUSTRY-LEADING** Simulation & Analysis Portfolio



#1 in S&A, the leader in multiphysics analysis

**LEADER IN** orbital dynamics & mission operations

GOLD STANDARD in multiphysics & safety

**PIONEER IN** digital twins & AI physics informed neural networks

SUPERIOR CUSTOMER OUTCOMES through accurate digital twins and broadest multiphysics portfolio

# ADVANCED TECHNOLOGY to Accelerate Systems Productivity

# Multiphysics Simulation & Analysis

Numerics that provide accurate, reliable and consistent answers



# Systems Simulation & Analysis

Transforming the engineering lifecycle, enabling faster and more efficient product development



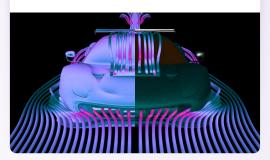
# High-Performance Computing

Scalable deployment with support for both managed and self-service cloud offerings



# Artificial Intelligence

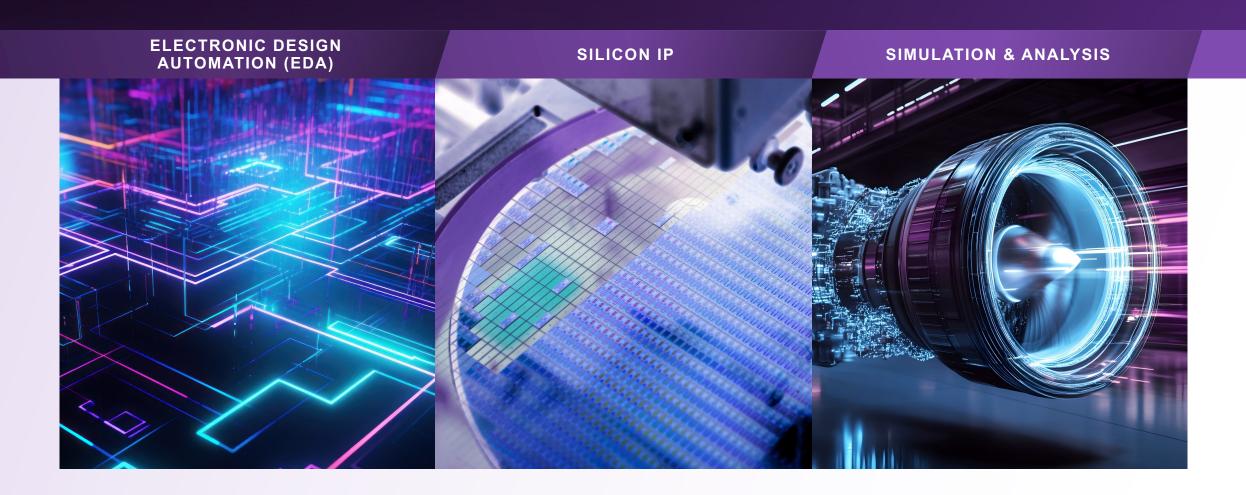
Leveraging AI optimized design configurations while improving efficiency and reducing errors



# Cloud & Experience

Ensuring traceability, security, consistency, and reusability of simulation data





### **EXPANSIVE ECOSYSTEM** to Accelerate Innovation



# **LEADING INNOVATION** at all Levels of Engineering

Synopsys.ai, WORKFLOWS **AI-POWERED** Ansys SimAI, **AgentEngineer™ Technology Synopsys PrimeTime BEST IN INDUSTRY, ENGINES & SOLVERS Ansys Mechanical, MULTIPHYSICS Ansys Fluent, etc.. GPU ACCELERATED** COMPUTE **Distributed computing Large-core multi-threading** 

# THE FUTURE of Al-Powered Engineering Workflows



### **EMPOWERING Our Customers' Innovations**

Synopsys + Ansys creates the leader in engineering solutions from silicon to systems

Enabling holistic, cross-domain engineering underpinning the Al revolution

Empowers customers to rapidly build Al-powered products

# SYNOPSYS®

Our Technology, **Your Innovation**™