

Corporate Backgrounder

Spring 2018



Synopsys Overview and History

Synopsys, Inc. (Nasdaq: SNPS) is the Silicon to Software™ partner for innovative companies developing the electronic products and software applications we rely on every day. As the world’s 15th largest software company, Synopsys has a long history of being a global leader in electronic design automation (EDA) and semiconductor IP, and is also growing its leadership in software security and quality solutions. Whether you’re a system-on-chip (SoC) designer creating advanced semiconductors or a software developer writing applications that require the highest security and quality, Synopsys has the solutions needed to deliver innovative, high-quality, secure products.

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Company Founded:	1986	Headquarters:	690 East Middlefield Rd. Mountain View, CA 94043
Revenue Q2 FY 2018:	\$777 million*	Locations:	120 offices worldwide in North America, Europe, Japan, the Pacific Rim, India, and Israel
Revenue for FY 2017:	\$2.725 billion**		
Employees:	12,590***	Contact:	(650) 584-5000 www.synopsys.com

* 14% growth over second quarter of Fiscal Year 2017

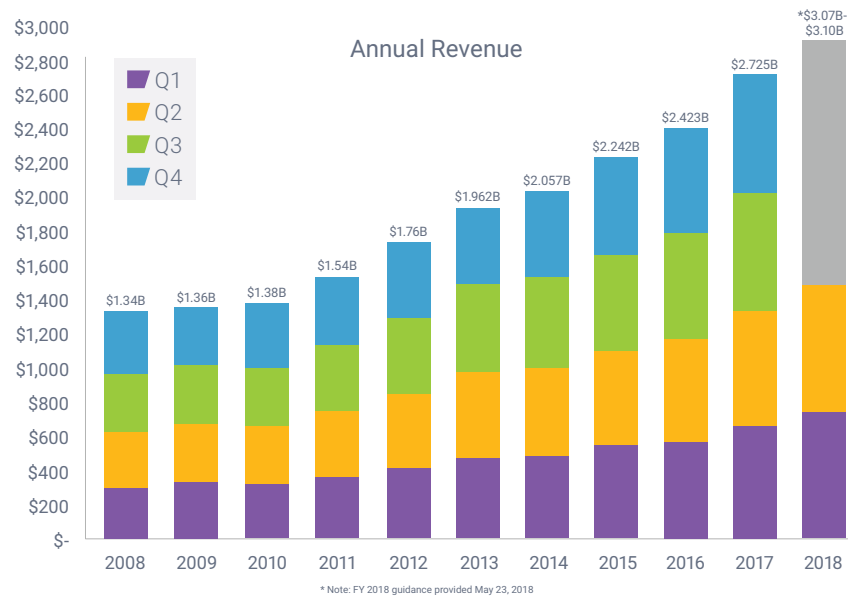
** 12.5% growth over Fiscal Year 2016

*** Total employees worldwide as reported for second quarter Fiscal Year 2018

Financial Information

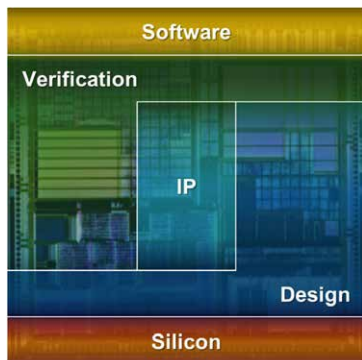
Synopsys stock has traded on the Nasdaq Stock Exchange under the symbol “SNPS” since the company’s initial public offering in 1992. Recent fiscal results are as follows:

- ▶ Revenue Q2 Fiscal Year 2018: \$777 million; 14% growth over second quarter of Fiscal Year 2017
- ▶ Revenue Fiscal Year 2017: \$2.725 billion; 12.5% growth over Fiscal Year 2016



Synopsys Annual Revenue, 2008-2018

Strategic Acquisitions



SOFTWARE

- 2017 Black Duck
- 2016 Cigital
- 2015 Codenomicon
- 2014 Coverity

IP

- 2010 Virage Logic
- 2002 inSilicon

SILICON ENGINEERING

- 2012 Mask Synthesis Technology
**from Luminescent Technologies*
- 2010 Optical Research
- 2003 Numerical Technologies

VERIFICATION & PROTOTYPING

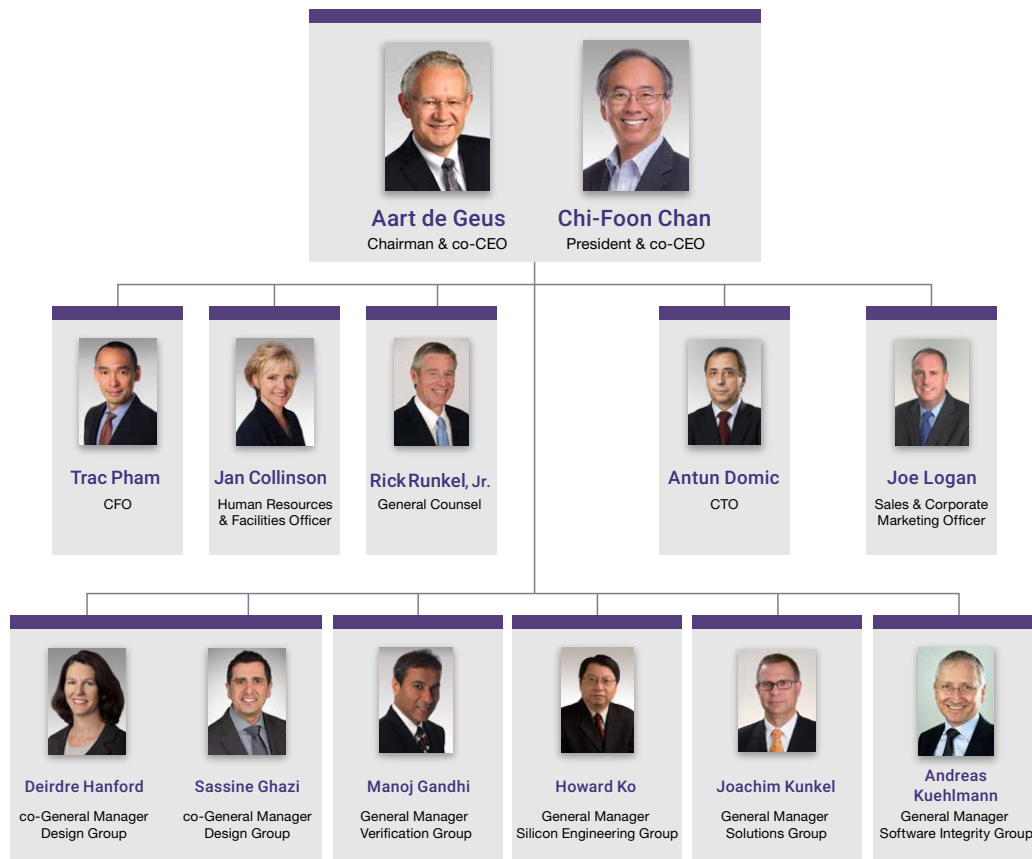
- 2015 Atrenta
- 2012 EVE
- 2012 SpringSoft
- 2008 Synplicity
- 1997 Viewlogic
- 1994 Logic Modeling

DESIGN

- 2012 Magma
- 2002 Avanti
- 1997 EPIC

Management Team

The company's executive management team is comprised of leaders with diverse global backgrounds and many decades of combined semiconductor industry experience. The tremendous "know how" they bring to Synopsys has helped the company become its industry leader.



Industry-Leading Solutions, from Silicon to Software

We live in an exciting era of smarter devices, clever applications, and connected everything. Our customers face tremendous pressure to build differentiated chips and develop robust code more quickly and cost-effectively than ever before. And with the increasing amount of embedded software in today's devices, security and quality are top concerns.

Synopsys technologies and services are designed to help you speed time to market, achieve the highest quality of results, get the greatest value out of your investment, mitigate risk, and maximize profitability.

Silicon Design and Verification

Our comprehensive portfolio of EDA tools addresses each phase of digital and mixed-signal design, for every process node down to 10nm. With robust support for silicon design, verification, prototyping, and manufacturing, you can quickly develop advanced chips and start software development earlier for a wide range of end markets—from IoT and consumer to industrial and automotive.

Silicon IP

Synopsys is the leading provider of high-quality, silicon-proven IP solutions for complex SoC design and verification. Our broad DesignWare® portfolio includes complete interface IP solutions, verification IP, security IP, analog IP, embedded memories and logic libraries, processor solutions, and IP subsystems to reduce integration risk and help you bring your chips to market faster.

Software Security and Quality

Synopsys is setting the standard for software security by maximizing risk-visibility across the cyber supply chain. We'll help you fix defects and vulnerabilities with unmatched depth, accuracy, and speed so you can avoid costly product crashes, unexpected behavior, security breaches, or catastrophic system failure. Our software security, quality, and compliance solutions are ideal for safety-critical industries such as medical and automotive.

Professional Services

Synopsys' services organization provides consulting and design services to help chip developers accelerate innovation and achieve success in their design programs. These services are tightly aligned with our EDA, IP, FPGA and optical products to advance customers' learning curves and help them develop and deploy advanced methodologies that improve their productivity and design results. Our worldwide team of design consultants complements our customers' core competencies to mitigate their project risks and accelerate the implementation of their chips.

Standards and Interoperability

For the benefit of our customers, Synopsys is committed to making tool interoperability a reality. The company demonstrates its leadership and focus on accelerating innovation by actively participating in industry organizations, partnering with customers, semiconductor IP and EDA companies, and making its own technology available through open-source licensing or donation to standards groups. Synopsys works with standards bodies and industry organizations to lay the groundwork for tool and semiconductor IP interoperability throughout the EDA industry.

Through its in-Sync program, Synopsys establishes relationships with other EDA and semiconductor IP vendors to create a smooth, predictable path between Synopsys tools and its in-Sync partners' products. Synopsys has made significant contributions to and has driven the industry adoption of a number of industry-critical standards via direct contributions to the industry or through standards bodies and industry organizations.

Synopsys was recognized by the IEEE Standards Association with the 2010 Corporate Award for long-term vision, outstanding leadership and volunteer contributions to the IEEE-SA specifically for the development and deployment of EDA standards.

Strategic Alliances and Partnerships

Synopsys has long-established proven strategic alliances with the leading foundry, FPGA and IP suppliers that are dedicated to jointly solving the challenges of system complexity and nanometer scale for leading-edge SoC design.

Key alliance partners include:

▶ Foundry Partners

- Taiwan Semiconductor Manufacturing Company Ltd. (TSMC)
- GLOBALFOUNDRIES, Samsung, IBM and UMC (ITDA Alliance members)
- Intel Custom Foundry (ICF)

▶ FPGA Partners

- Achronix, Altera (now part of Intel), Gowin Semiconductor Corp, Lattice (including Silicon Blue), Microsemi (formerly Actel), and Xilinx

▶ IP Partners

- ARM Ltd.
- Imagination Technologies

Synopsys also maintains a broader semiconductor and IP vendor program aimed at enabling our vendor partners to produce the best quality libraries and design flows for our mutual customers.

Synopsys Users Group (SNUG)



Established in 1991, SNUG represents a global design community focused on accelerating innovation. SNUG is the electronics industry's largest user conference, and it continues its tradition of delivering a robust technical program developed by users, for users. SNUG brings together more than 10,700 users across North America, Europe, Asia and Japan, features approximately 680 customer papers, and includes strong ecosystem partner participation through Designer Community Expos in many regions. For information on the SNUG 2016 program, or to view SNUG Silicon Valley keynote presentations, please visit the SNUG Conference page.

Synopsys University Program

Another way Synopsys demonstrates its commitment to accelerating innovation is through its Worldwide University Programs. Synopsys provides research and academic institutions with access to the tools and technology needed to develop well-educated students who can meet the difficult challenges of IC, SoC and Optical design. Prior to entering the workforce, engineering students receive hands-on experience – in the classroom and in graduate-level research programs – with Synopsys' industry-leading EDA, IP and Optical solutions. Synopsys software is currently installed in more than 1,775 educational institutions worldwide and reaches thousands of students and professors across the globe every year.

Synopsys Community Affairs



Synopsys Community Affairs embodies the company's values by implementing worldwide philanthropic strategies that strengthen local communities, encourage employee engagement and inspire a new generation of leaders.

Synopsys is committed to making a positive impact in the communities where employees live and work. Each year, the company and its foundations donate more than \$2 million in charitable contributions to nonprofit organizations with a strong focus on math and science education. Signature programs promote interest in Science, Technology, Engineering, Math (STEM) at the K-12 level through teacher training in project-based learning and science fairs and competitions such as "sciencepalooza!" Since its inception in 1999, more than 1 million students and teachers have participated in the Synopsys Silicon Valley Science & Technology Outreach Foundation programs.

The Synopsys Shares program is another important part of the company's philanthropy and leverages the creative energy of employees to make a positive difference and respond to local needs. Through the program, employees are empowered to organize community service projects and giving campaigns, participate in Synopsys-sponsored volunteer activities, and take advantage of the employee matching gift program to double the impact of their charitable gifts. Each year, employees are involved in more than 150 community affairs activities at offices around the world.