

# Modernize manufacturing with ChromeOS



Manufacturing is poised for a surge in powerful technologies, unlocking new avenues for human potential, productivity, and creativity within the industry.<sup>1</sup> Yet, the industry faces several challenges:



Supply chains are highly susceptible to price fluctuations. Soaring labor, energy, and transportation costs pose a significant risk to the stability of existing systems.<sup>2</sup>



In 2023, manufacturing saw the highest share of cyberattacks among the leading industries worldwide.<sup>4</sup>



82% of manufacturing companies are experiencing a labor shortage.<sup>3</sup>



Manufactures are focused on cost reduction and peak performance in any economic climate.<sup>5</sup>

## How ChromeOS can help fast forward your factory

### ChromeOS Flex

**Update your existing PCs and Macs at no cost with ChromeOS Flex**

**An estimated 240 million Windows 10 PCs can't be upgraded to Windows 11<sup>6</sup>**

- ChromeOS Flex is a sustainable way to modernize devices that you already own
- ChromeOS allows for ten years of automatic updates
- Modernize while reducing your carbon footprint

### Security Simplified

**Secure your fleet**

**ChromeOS is the most secure OS out of the box<sup>7</sup>**

- ChromeOS has had no reported ransomware attacks or viruses—ever.\*
- Read-only OS and no executables
- Active threat prevention

### Easy management

**Manage your fleet 100% in the Cloud**

**Access your fleet anytime, anywhere**

- Quickly switch out downed devices with a stateless OS
- Fast deployments for more productive employees
- Reduce burnout with fewer IT service calls

### Leverage AI features

**Leverage the best of Google AI**

**ChromeOS is your portal to the best of Google AI**

- Work smarter with AI-assisted features
- Device Hub in the Google Admin console centralizes fleet information for IT Admins with AI-driven notifications and recommendations
- Draft and refine text on any website or app with Google AI

### Smart Investment

**Reduce costs**

**ChromeOS provides a 208% ROI over three years<sup>8</sup>**

- \$1.3 million in savings on device and management costs over three years
- \$500 three-year average cost savings per device
- \$1.1 million in reduced IT support costs over three years

# Success starts with ChromeOS

Royal Technologies, deployed Chrome OS to remove their data storage burden, eliminate software patches, and do away with additional antivirus tools.



In 2002, our four-person IT team supported about 200 workers. Today, we support 600, with the same number of IT people. If we tried to launch these projects in a Windows environment, it would have cost us four times as much money, and wouldn't have worked as well as Chromebooks do. **Over the past five years, we estimate we've saved about \$787,000 in hardware and software costs.**

**French Williams**

IT Manager, Royal Technologies

It took Sanmina only two months to deploy 2,000 Chromebooks in 600 locations. They extended the life of existing devices with ChromeOS Flex and saw a 50% savings on operation costs



**SANMINA®**



Sanmina manufactures mission-critical products for its customers around the world. **Those customers rely upon Sanmina, and in turn, Sanmina relies upon ChromeOS.**

**Manesh Patel**

Senior Vice President and CIO, Sanmina



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<sup>1</sup> Accenture Technology Vision, 2024

<sup>2</sup> The Pressure is on for Manufacturers to Lower Costs Now.

Here Are 6 Ways to Get Started, September 2022

<sup>3</sup> 82% of Manufacturing Companies Are Experiencing a Labor Shortage: Here Are the Opportunities, April 2023

<sup>4</sup> Distribution of cyberattacks across worldwide industries in 2023, April 2023

<sup>5</sup> The Pressure is on for Manufacturers to Lower Costs Now. Here Are 6 Ways to Get Started, September 2022

<sup>6</sup> Canals Research: At least 240 million Windows 10 PCs can't be upgraded, Dec 2023

<sup>7</sup> Atredis Partners: Google ChromeOS Competitive Analysis, 2024

<sup>8</sup> Forrester: A commissioned study conducted by Forrester Consulting on behalf of Google, The Total Economic Impact of Google ChromeOS, September, 2025, from a composite organization

\* As of 2025 there has been no evidence of any documented, successful virus attack or ransomware attack on ChromeOS. Data base on ChromeOS monitoring of various national and internal databases