

Intelligent Device Management: Challenges and Resolutions

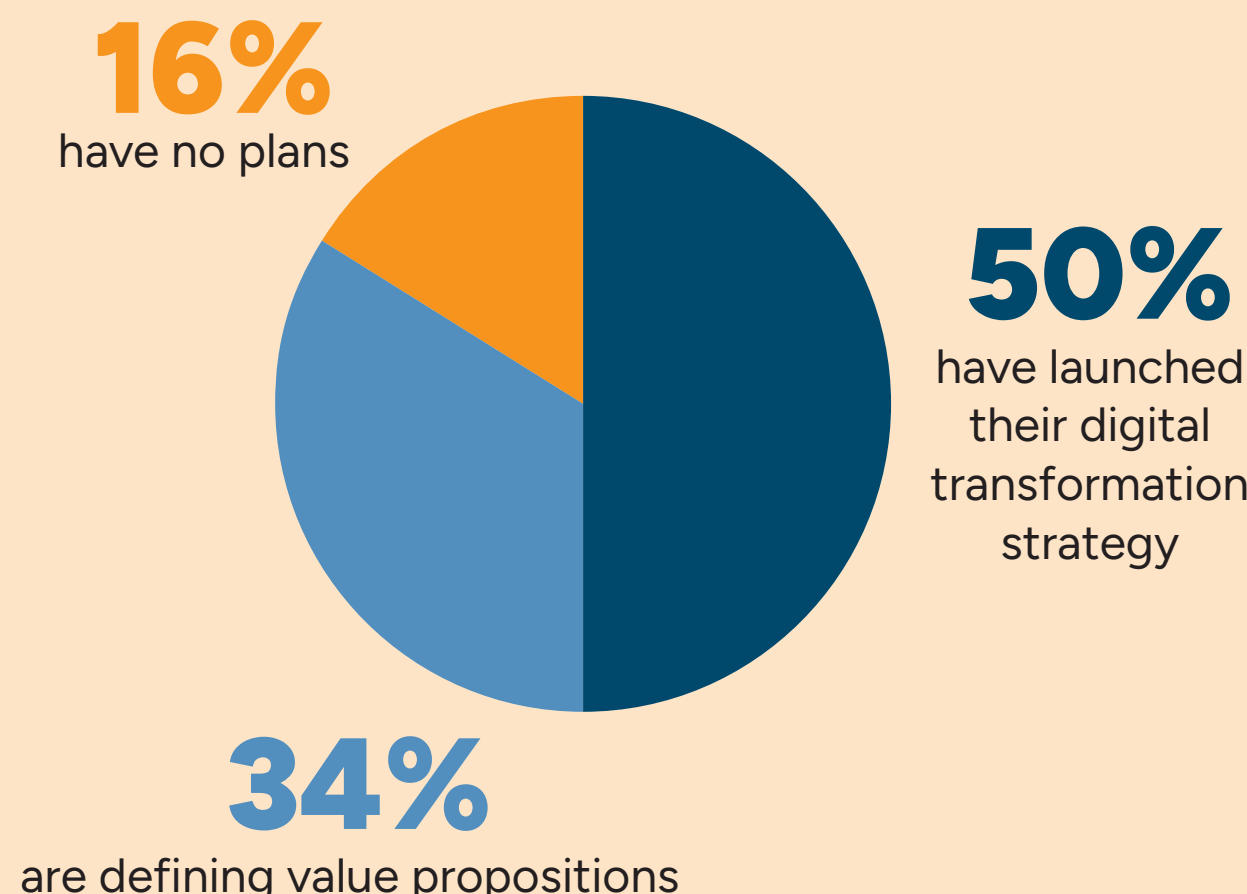
THE STATE OF DIGITAL TRANSFORMATION AND DEVICE MANAGEMENT

The intelligent device market is expected to grow by an **annual compound rate of**

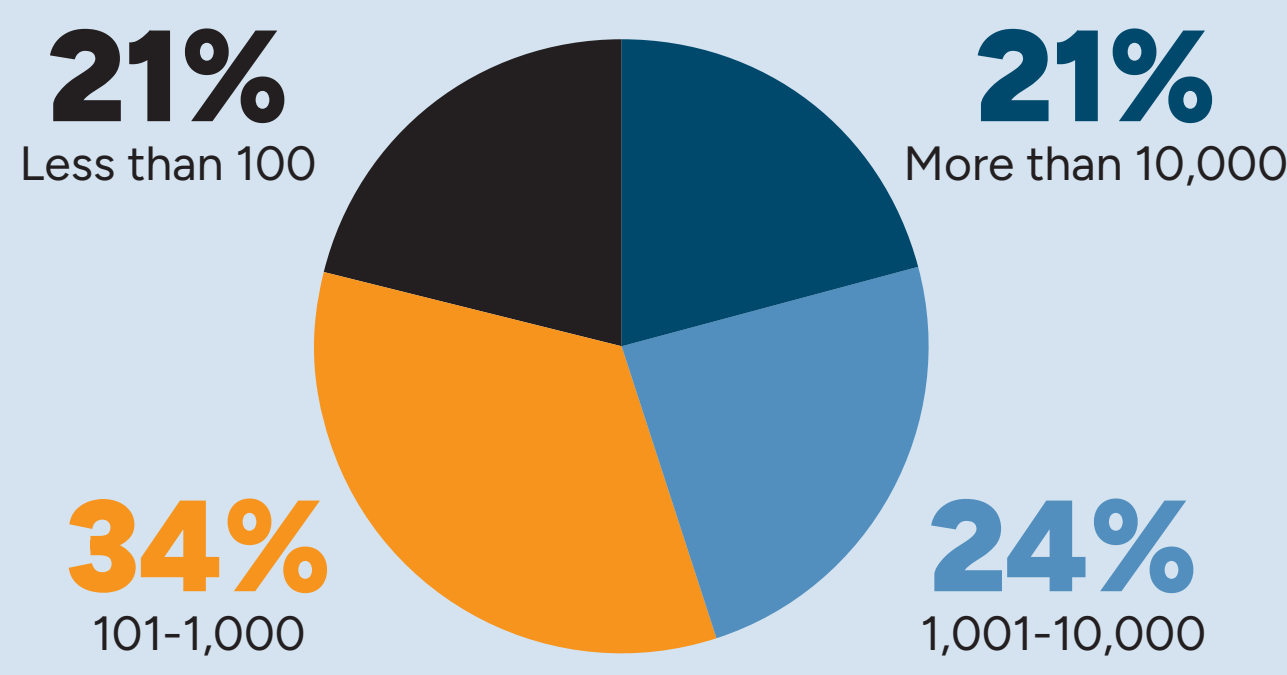
7.2% through **2031**.¹

Clearly, companies are increasingly deploying devices while at the same time accelerating their digital transformation strategies. However, these two forces are causing device integration and management challenges, according to a study by FDT Group.

Most end users in industrial automation markets are on the path to digitization:



At the same time, they are currently integrating thousands of devices into their engineering and control systems of all sizes:



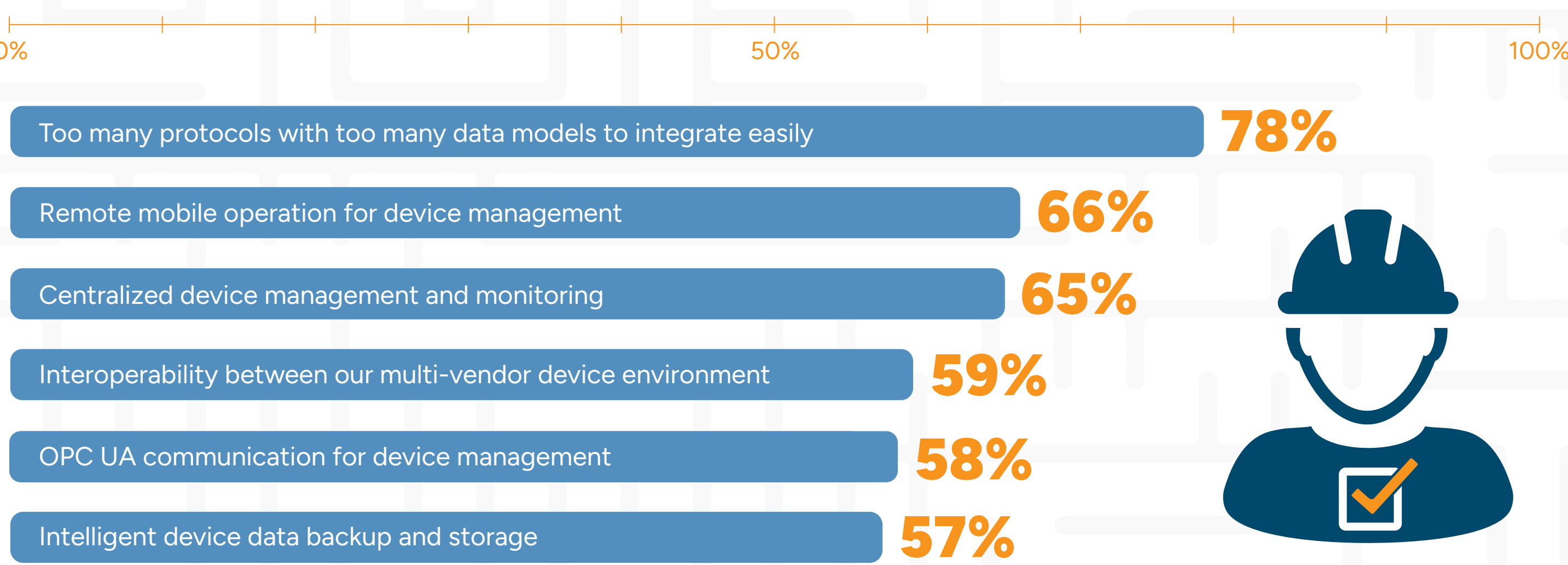
¹Conseic Business Intelligence, "Global Intelligent Electronic Devices Market," Sep. 25, 2023, <https://www.globenewswire.com/news-release/2023/09/25/2748413/0/en/Intelligent-Electronic-Devices-Market-to-Hit-US-21-55-Billion-By-2031-Updated-Insights.html>

65%

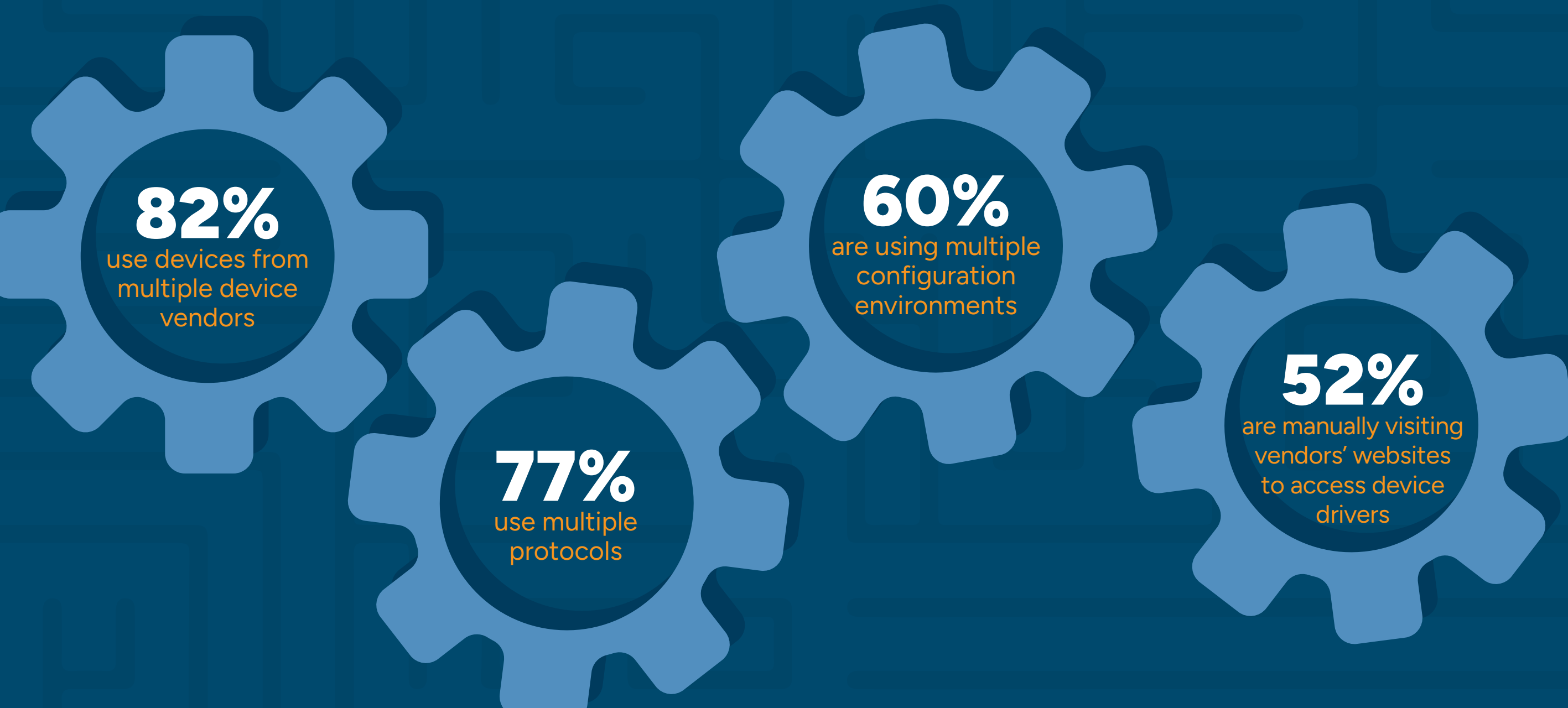
say their device management strategy isn't perfect, but they are making it work

HETEROGENEOUS INTEGRATION CHALLENGES IN CONTROL SYSTEMS

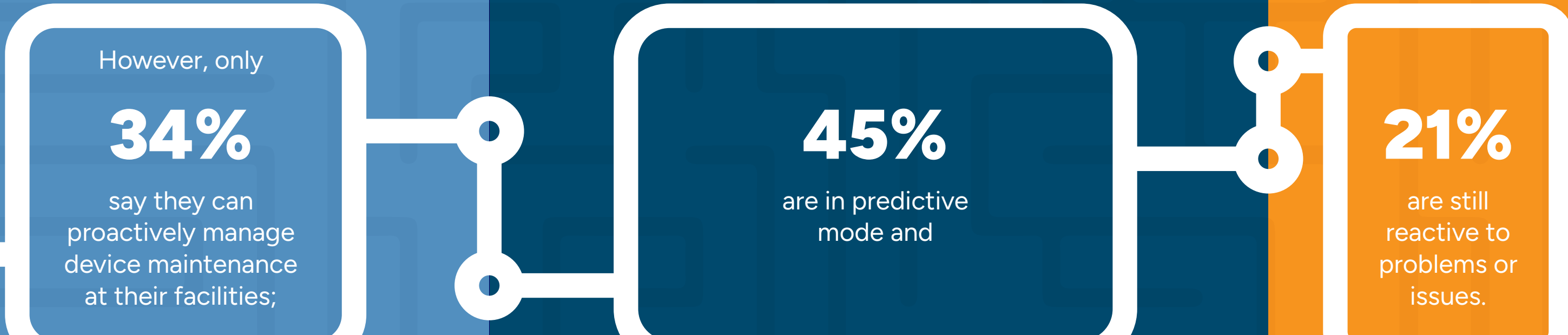
Device implementation challenges abound, many rated as "hard" or "very hard" to do:



Manufacturers have complex device environments:

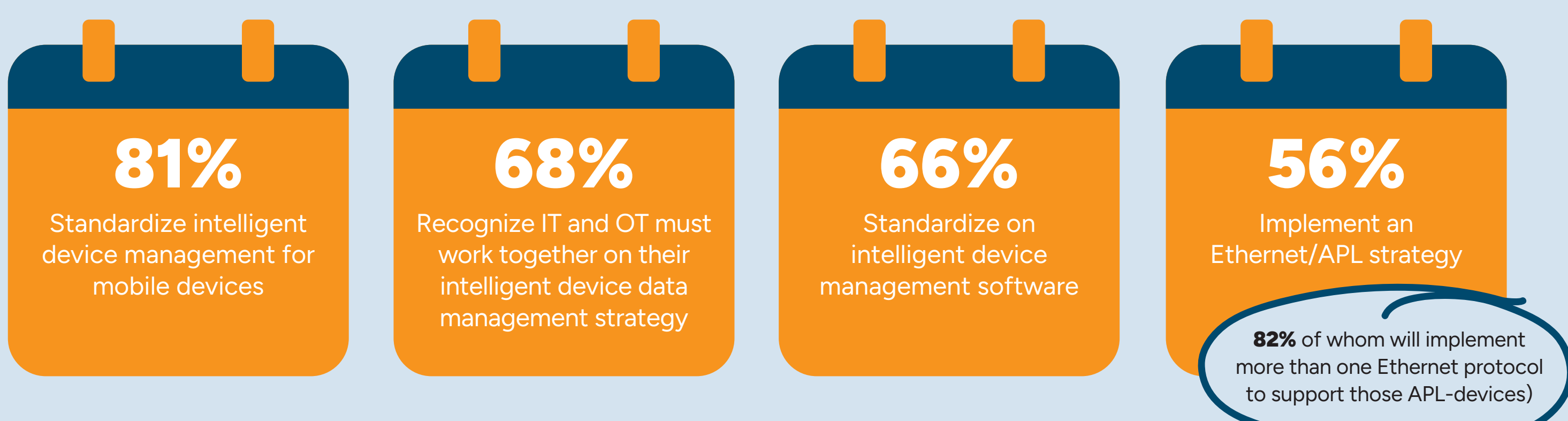


"Each vendor has devices with their own advantages, and by comprehensively using them, we can optimize equipment management." — an FDT survey respondent



FACTORS THAT EASE INTELLIGENT DEVICE MANAGEMENT

Respondents identified several ways they are seeking to mitigate the day-to-day device management challenges:



A SOURCE FOR STANDARDIZATION AND INNOVATION

FDT Group manages the FDT/DTM (IEC 62453) standard, whose mission is enabling the interfaces needed to support open device and system integration, communication, and lifecycle management in process, hybrid, and discrete applications, enterprise-wide.

"FDT Group has leveled the playing field for all sensor manufacturer by introducing the Device Type Manager (DTM) to the market. By using DTMs, the amount of software required to commission all brands of sensors is reduced. This is important because now the customer can buy the best technology for an application and not be locked to a single vendor or purchase additional commissioning software."
— John Groom - President and CEO, VEGA Americas

"Open enables simple and simplification in a heterogeneous environment is what really matters."
— Paul Brooks - Senior Manager, Rockwell Automation



It's Easy to Get Started with FDT/DTM Development

- [Host and Device Developer Tools](#)
- [Service Provider Community](#)
- [Educational Resource Library](#)

Discover more at the FDT Group website:

fdtgroup.org

