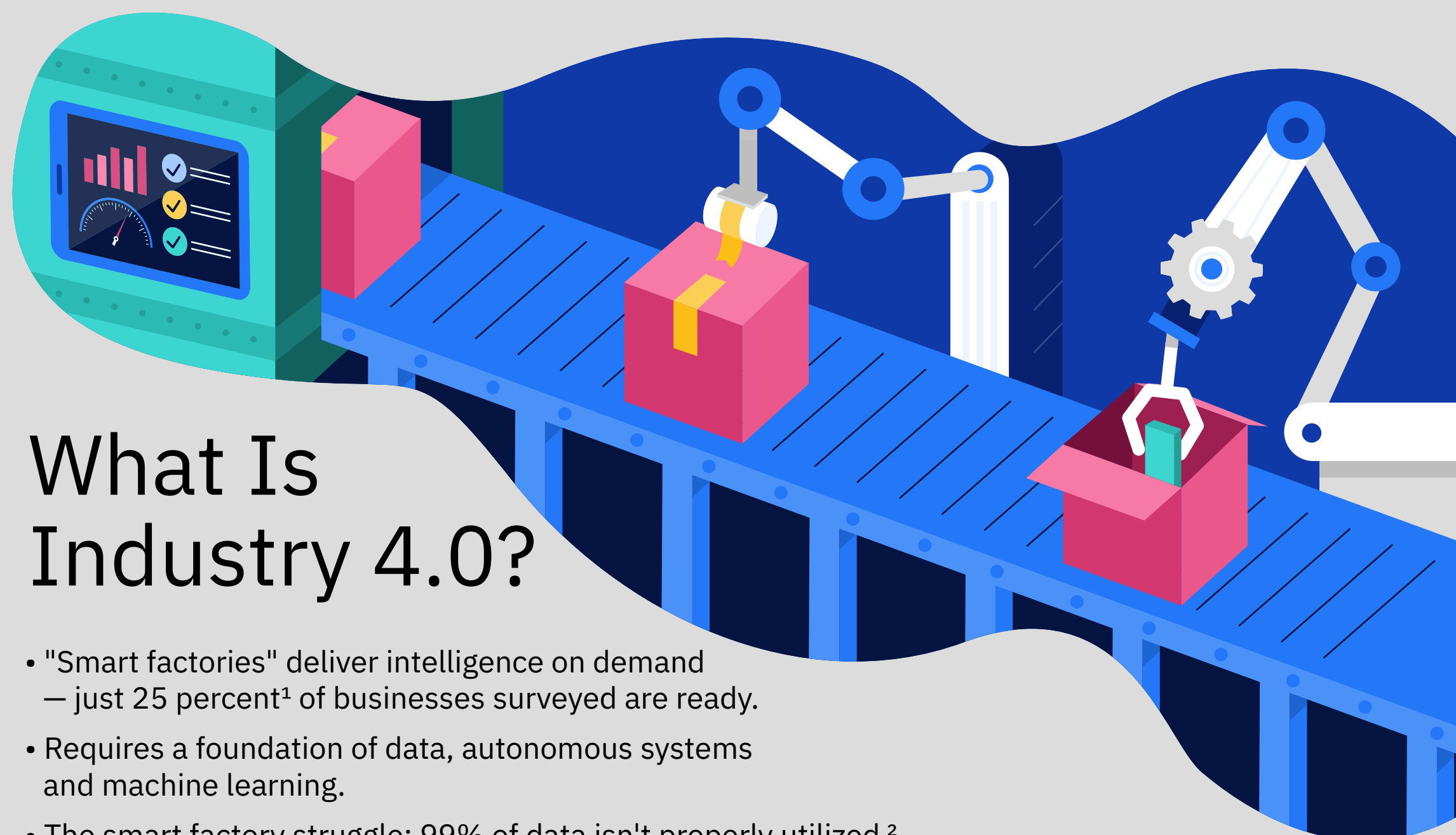


The Digital Transformation Journey



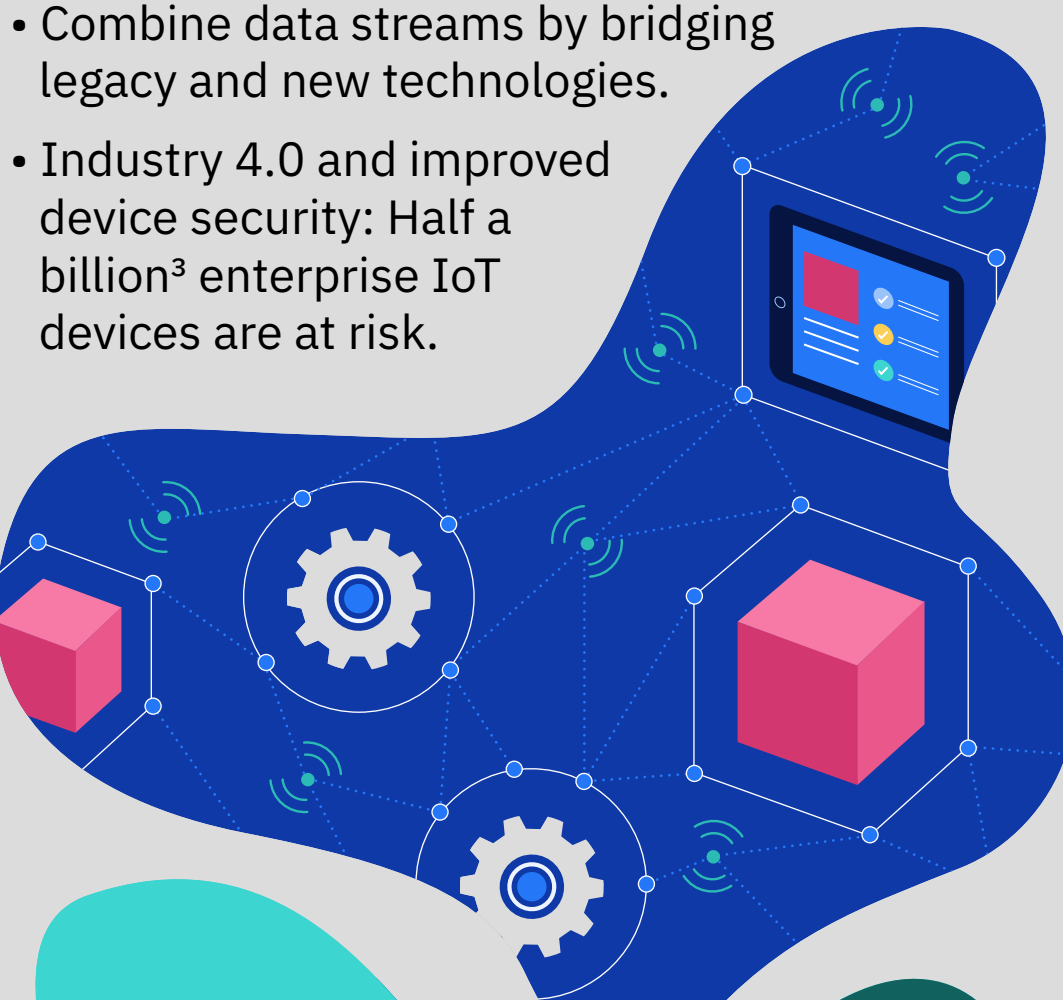
What Is Industry 4.0?

- "Smart factories" deliver intelligence on demand – just 25 percent¹ of businesses surveyed are ready.
- Requires a foundation of data, autonomous systems and machine learning.
- The smart factory struggle: 99% of data isn't properly utilized.²

Industry 4.0 demands a 5-step digital transformation.

1 Connect Devices

- Data gathered by PLCs and other legacy devices isn't enough.
- Combine data streams by bridging legacy and new technologies.
- Industry 4.0 and improved device security: Half a billion³ enterprise IoT devices are at risk.



2 Collect Key Data

- Save, store and aggregate data; typical smart factories produce 5PB of data per week!⁴
- Don't just collect! Shift to online/offline data aggregation that empowers application.
- The big impact? Move from report generation to actionable outcomes.

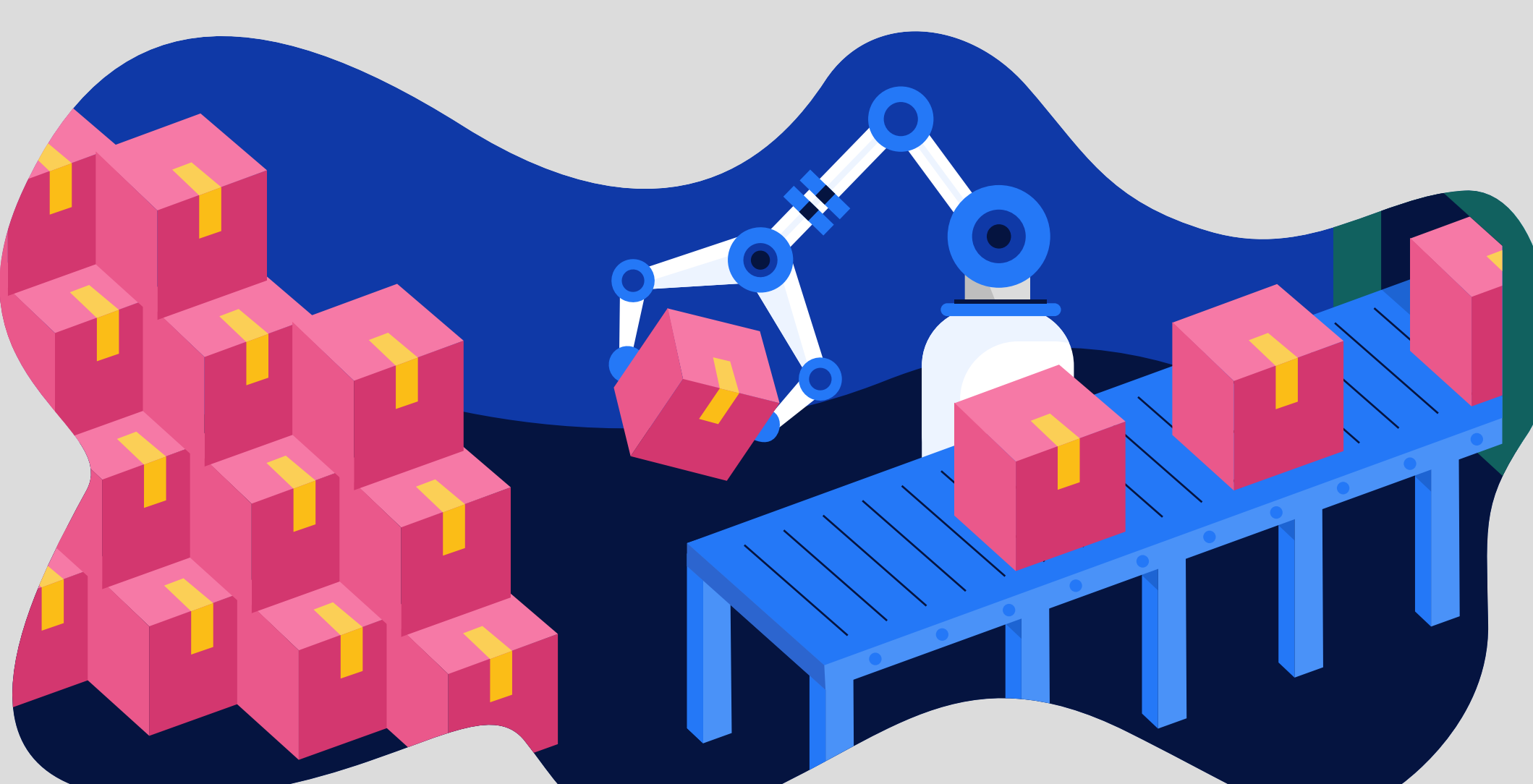


3 Visualize Outcomes

- "Blank screens" on factory floors leave operators and managers in the dark.
- Industry 4.0 leverages dashboards that transform operator-level data.
- Filter production data "noise". Empower operators to take actionable outcomes.

4 Analyze Everything

- Don't rely on manual processes to drive data analysis and make decisions.
- Leverage prescriptive analytics to identify factory upgrades.



5 Optimize Processes

- 78% of manufacturing organizations surveyed plan to increase their investment in industrial IoT.⁵
- IBM's Watson can help you develop manufacturing strategies and onboard employees.
- End goal: Optimize digital and human processes to create smart factories.

Industry 4.0 has arrived: Empower intelligence on demand and drive digital transformation with IBM's Watson for Manufacturing.⁶ Get the rest of the story at IBM.com.

IBM Services

1 Exmos, "Smart Factory Statistics in 2017 - Industry 4.0 in Numbers". <https://www.exmos.com/blog/smart-factory-statistics-in-2017-industry-40-in-numbers/>
 2 <https://www.ibm.com/industries/manufacturing/smart-manufacturing-technology>
 3 Armis, "DNS Rebinding Exposes Half a Billion Devices in the Enterprise". <https://armis.com/dns-rebinding-exposes-half-a-billion-iot-devices-in-the-enterprise/>
 4 Craig, Leo. "How data will build the factories of the future". The Stack, May 14th, 2018. <https://thestack.com/data-centre/2018/05/14/smart-manufacturing-factory-automation/>
 5 <https://www.exmos.com/blog/smart-factory-statistics-in-2017-industry-40-in-numbers/>
 6 <https://www.ibm.com/internet-of-things/explore-iot/industrial-equipment/manufacturing>