Gain the Edge:

7 Edge Al Insights to Fuel Innovation

Let's take a look at why edge Al—the process of running artificial intelligence (AI) algorithms on devices at the edge of the network, instead of the cloud—can be a game changer for businesses.

Key Edge Al Market Stats You Should Know:

\$143.6Bn

Estimated market value of edge AI by 2032

Source: Market.us

Estimated smart sensor market size by 2032 Source: scoop.market.us/smart-sensors-statistics

\$227.6Bn

40%

the cost savings edge Al is anticipated to drive in data transmission and cloud computing expenses for IoT by 2025.

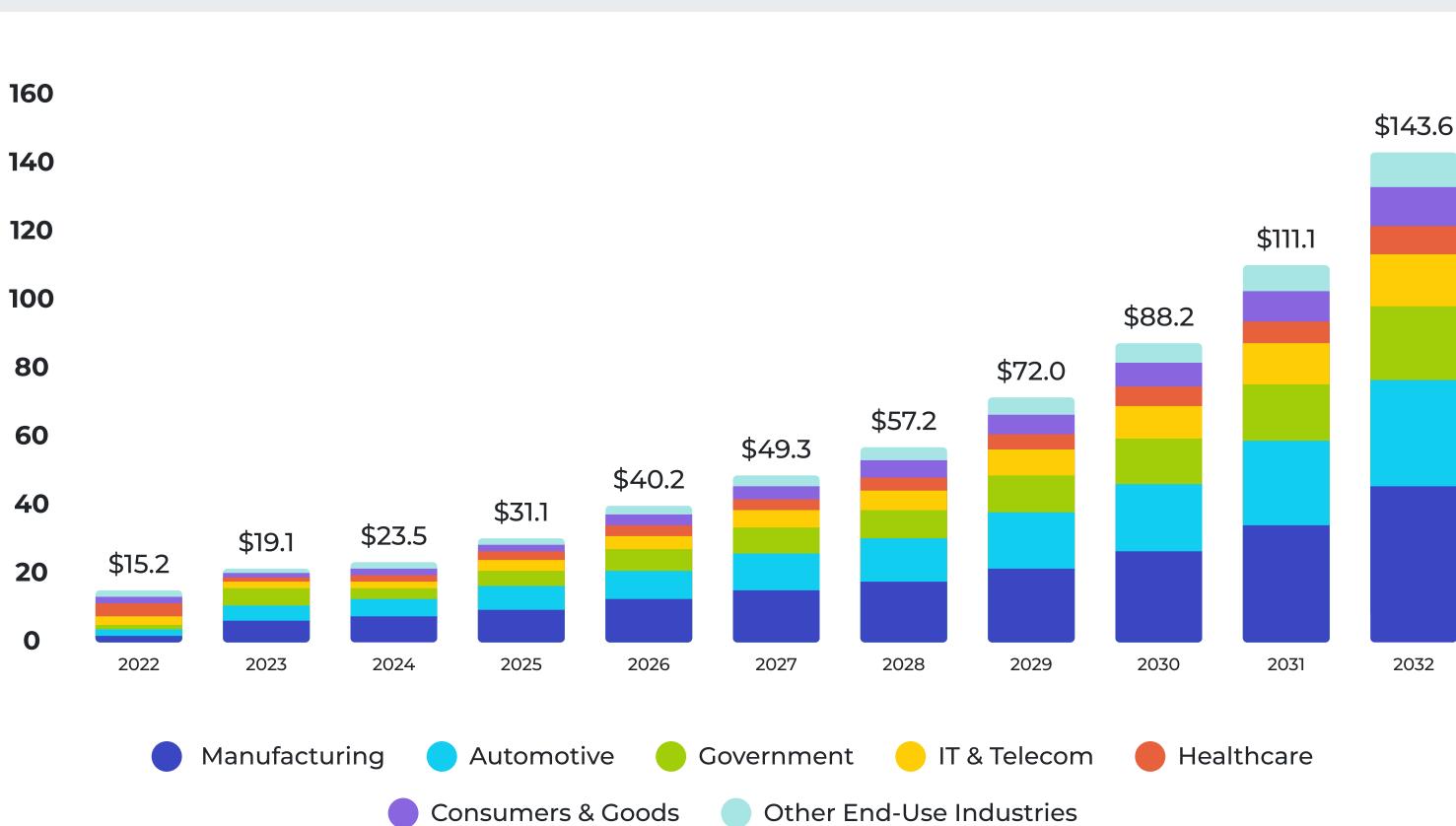
Source: McKinsey Global Institute - The Internet of Things: Mapping the Value Beyond the Hype

50%

estimate of organizations looking to adopt edge AI for anomaly detection and condition monitoring by the end of 2024.

Source: Market.us Scoop

Global Edge Al Market Size, by industry, 2022-2032 (USD Billion)



The Market Will Grow At the CAGR of: 25.9%

The Forcasted Market \$143.6Bn
Size for 2032 in USD: \$143.6Bn
ONE STOP SHOP FOR THE REPORTS



7 Advantages of Accelerating Edge Al Adoption





Less bandwidth required By running algorithms on-device, you avoid sending sensor data

to the cloud, reducing the level of connectivity required.

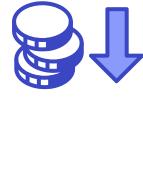




Faster response times On-device algorithms can be much more responsive, since there's

no round-trip to the cloud required, leading to lower latency.





Reduced connectivity demand can save on both BOM and network communications costs, and removing the need for cloud-

Cost reduction

hosted AI systems can lower recurring spend —achieving significant economic savings over time.





on-device AI systems are potentially more reliable than those in

Increased reliability

the cloud, which is essential for applications where safety and user experience are critical.

By removing the reliance on connectivity and communication,



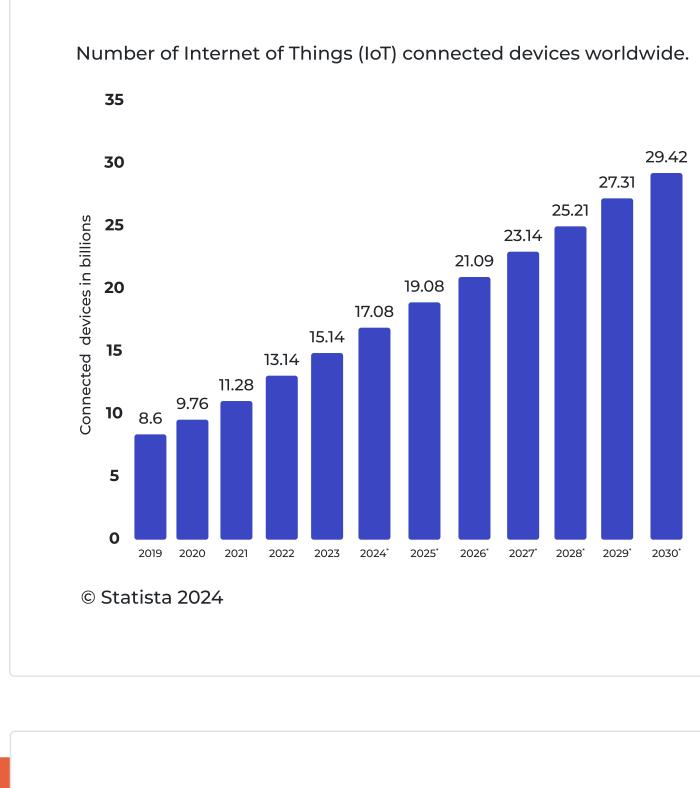


Edge AI allows you to benefit from AI without data leaving the device, ensuring user privacy.

Enhanced privacy

Rapid growth & opportunities

The proliferation of IoT devices is fueling edge AI growth.



Discrete Manufacturing Process Manufacturing **Professional Services** 9.4% Utilities 10% 21.2% Retail 13.3% Others IDC Worldwide Internet of Thing Spending Guide -Forecast 2023 | May (V1 2023)

Worldwide IoT spending in 2023: \$805.7Bn and 2026:

estimated \$1Tn plus.

Top applications and use cases for edge AI include:

Fast adoption across multiple industries



maintenance, quality control, and process optimization in manufacturing plants



analysis, and personalized treatment recommendations



management, and personalized shopping experiences



Smart cities

and safer roads

Build. Train. Optimize. Al for the Edge Sign up for our **free trial** and learn how Edge Impulse can help you run Al at peak performance on any edge device with unmatched speed and ease.



