

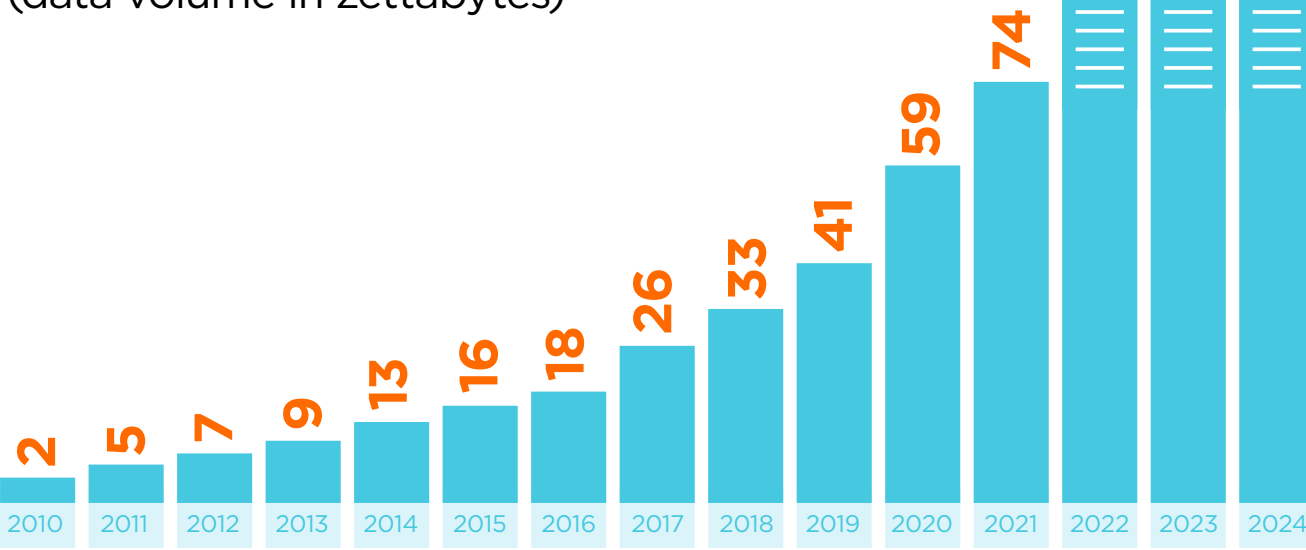
When milliseconds count:

Accelerating the path from data to intelligence with edge computing

More data and less intelligence

Data created, captured, copied, and consumed globally

(data volume in zettabytes)¹



Cloud computing vs. the speed of light

“The agility of cloud computing is great — but it simply isn’t enough. Massive centralization, economies of scale, self-service, and full automation get us most of the way there, but it doesn’t overcome physics — the weight of data, the speed of light ... waiting on a data center miles (or many miles) away isn’t going to work.”

Gartner

400

milliseconds

Time in which the fastest baseball pitches reach the strike zone

56

milliseconds

Time for data to travel from New York to San Francisco on modern fiber optic cable

1

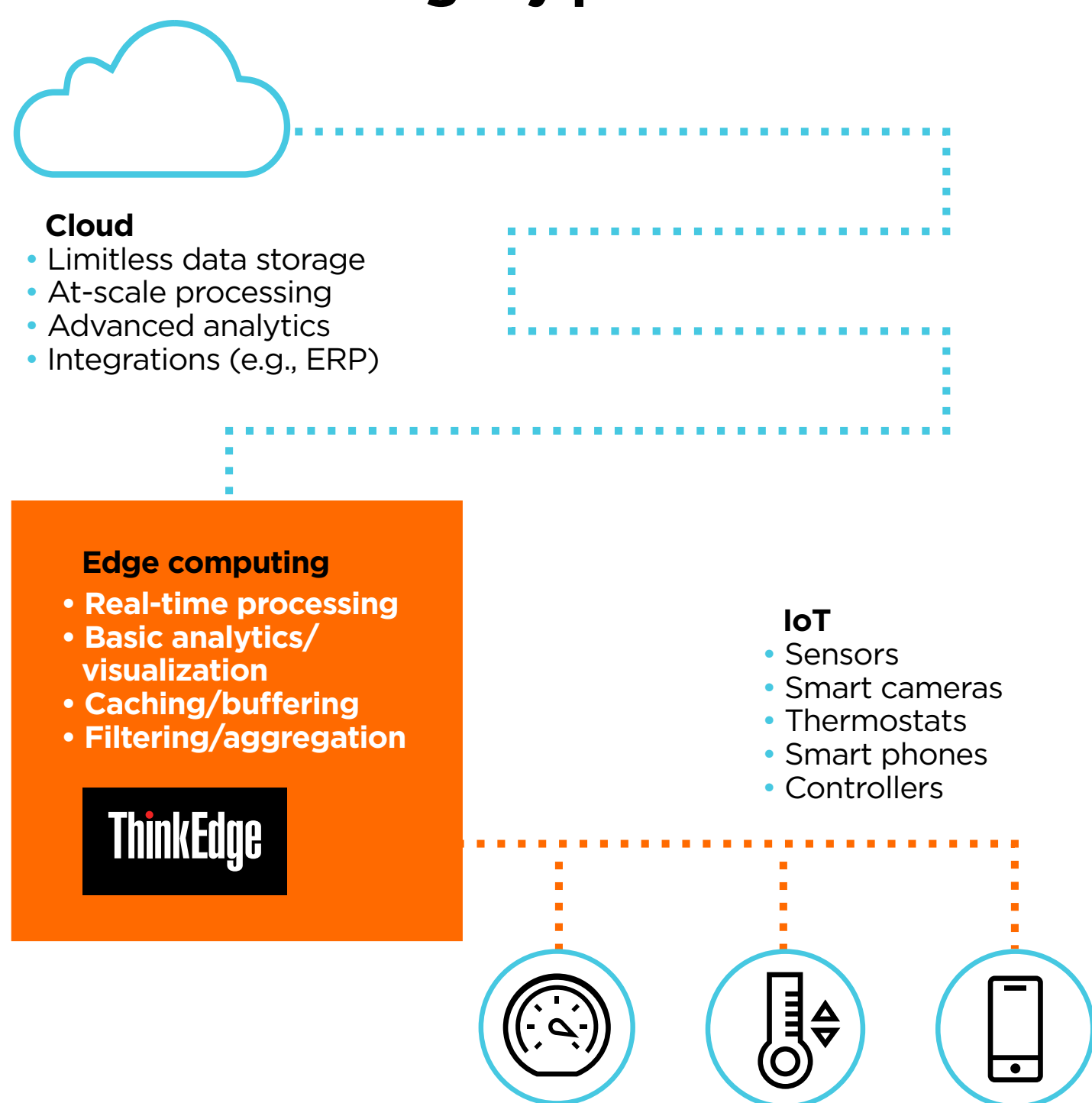
millisecond

Typical camera flash

40-100
milliseconds

Time typically lost in congested first- and last-mile connections²

Edge computing’s speed and agility promise



Getting the edge with edge computing

- ✓ Improved responsiveness and reliability
- ✓ Reduced bandwidth costs
- ✓ Enhanced security
- ✓ Less risk of system failures

Around **10%** of enterprise-generated data is created and processed outside a traditional centralized data center or cloud.

By 2025, Gartner predicts this figure will reach

75%³

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SOURCES

¹ Michal Shirer, “IDC’s Global DataSphere Forecast Shows Continued Steady Growth in the Creation and Consumption of Data,” IDC.com, May 2020

² Ilya Grigorik, “Primer on Latency and Bandwidth,” *High-Performance Browser Networking*, HPBN.co, 2013

³ Rob van der Meulen, “What Edge Computing Means for Infrastructure and Operations Leaders,” *Smarter With Gartner*, Gartner.com, October 2018