

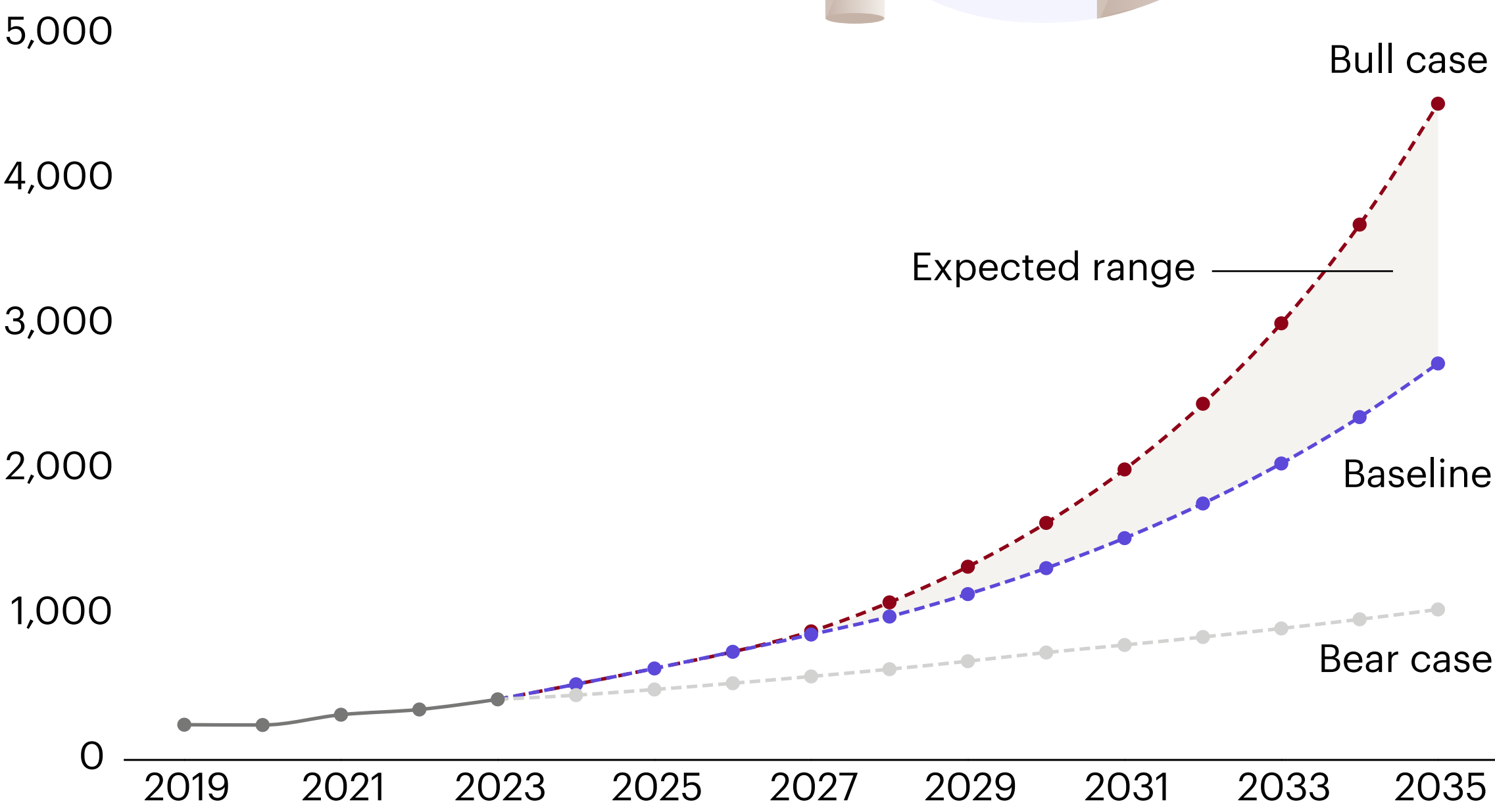
What DeepSeek Means for Data Center Investment Risk

Lighter models won't slow data center growth, but they do add uncertainty. Investors must assess demand shifts and readiness for AI's power and cooling needs.

Electricity demand will grow markedly

AI adoption and software advances such as DeepSeek create a range of potential outcomes; investors must plan accordingly

Global installed IT electricity demand forecast (terawatt-hours)



Most workloads will be in the cloud

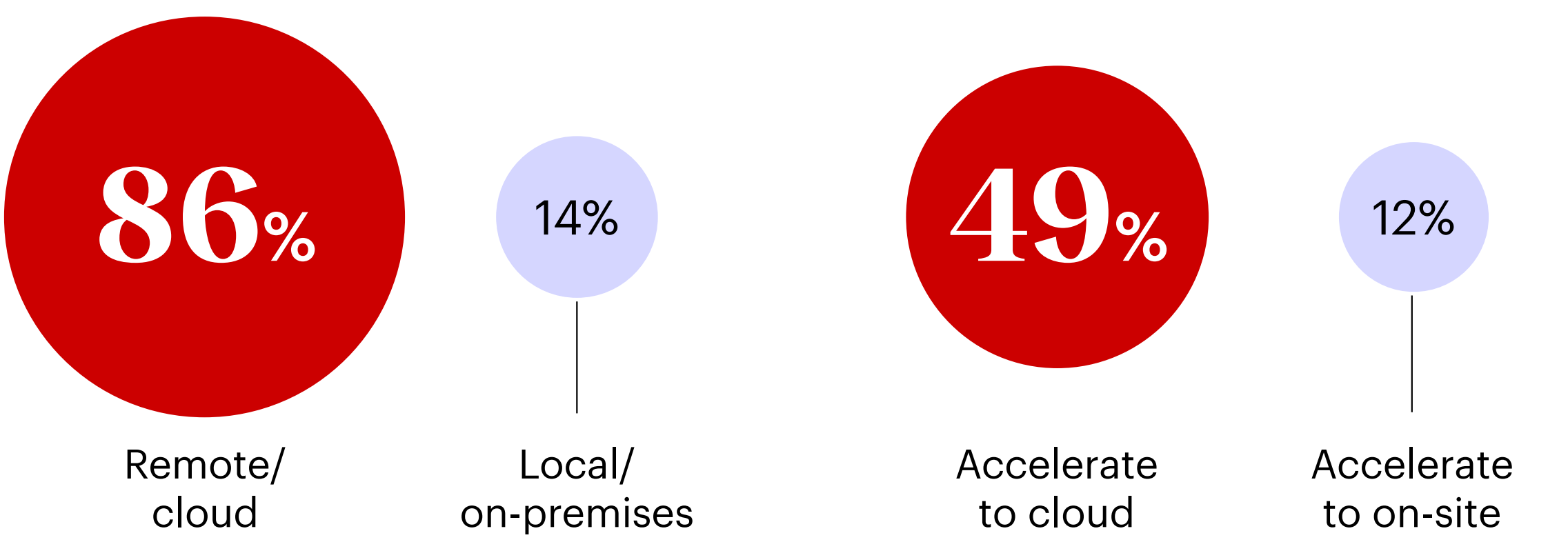
Large cloud service providers will account for most of the demand growth, even for smaller models

Executives expect a vast majority of AI workloads to be cloud based ...

... and expect the shift toward the cloud to continue to accelerate

Average allocation percentage across respondents

Percentage of respondents



Retrofits won't serve AI training demand

Older data centers may support AI inference, but the power demands of AI training will require new builds

Limited space

Space may not exist for upgraded power distribution or liquid cooling

Floor load limits

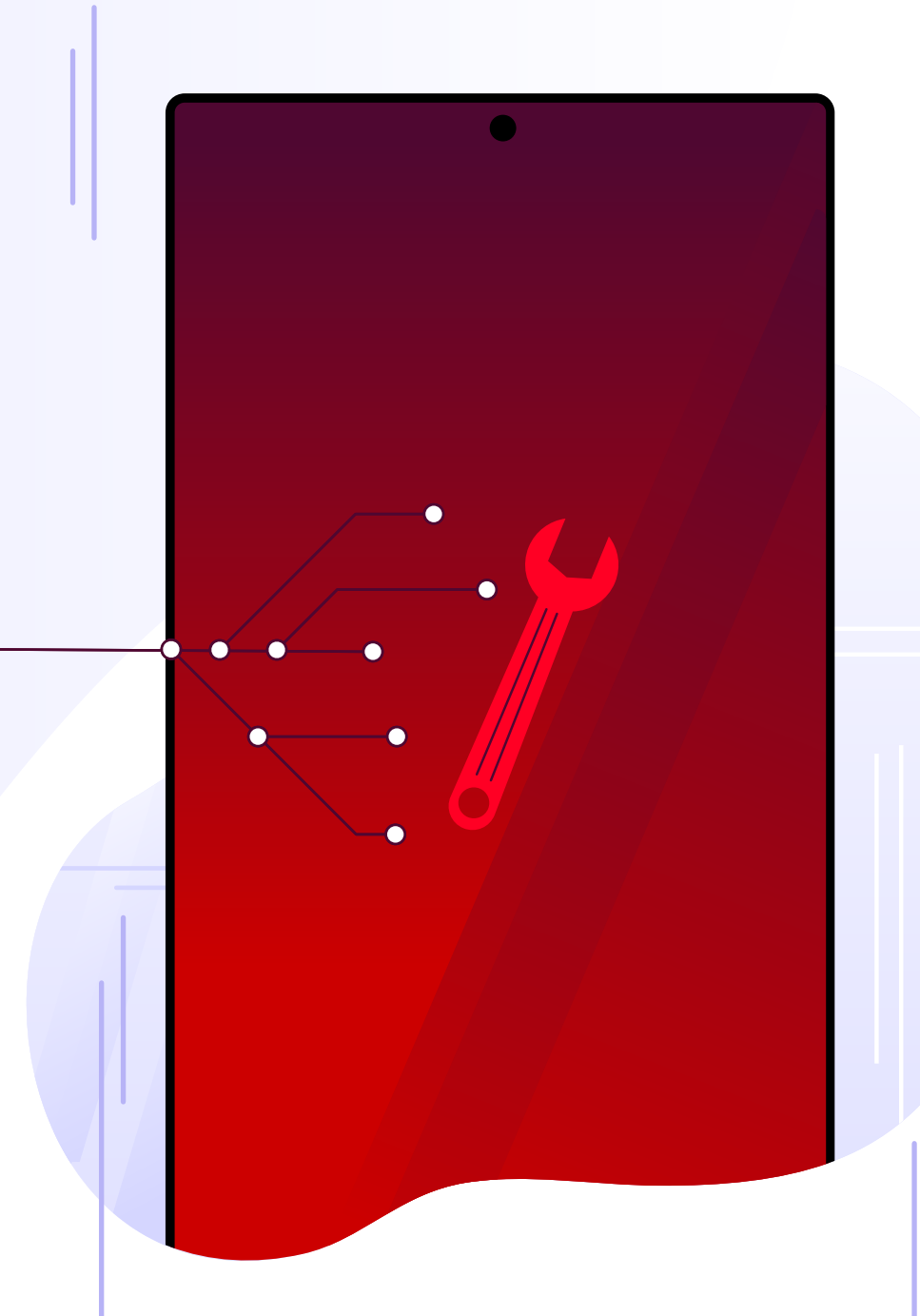
Floor plates may not support heavier weights for high-density racks

Infrastructure redesign

Networking infrastructure may require substantial redesign for large clusters of graphics processing units

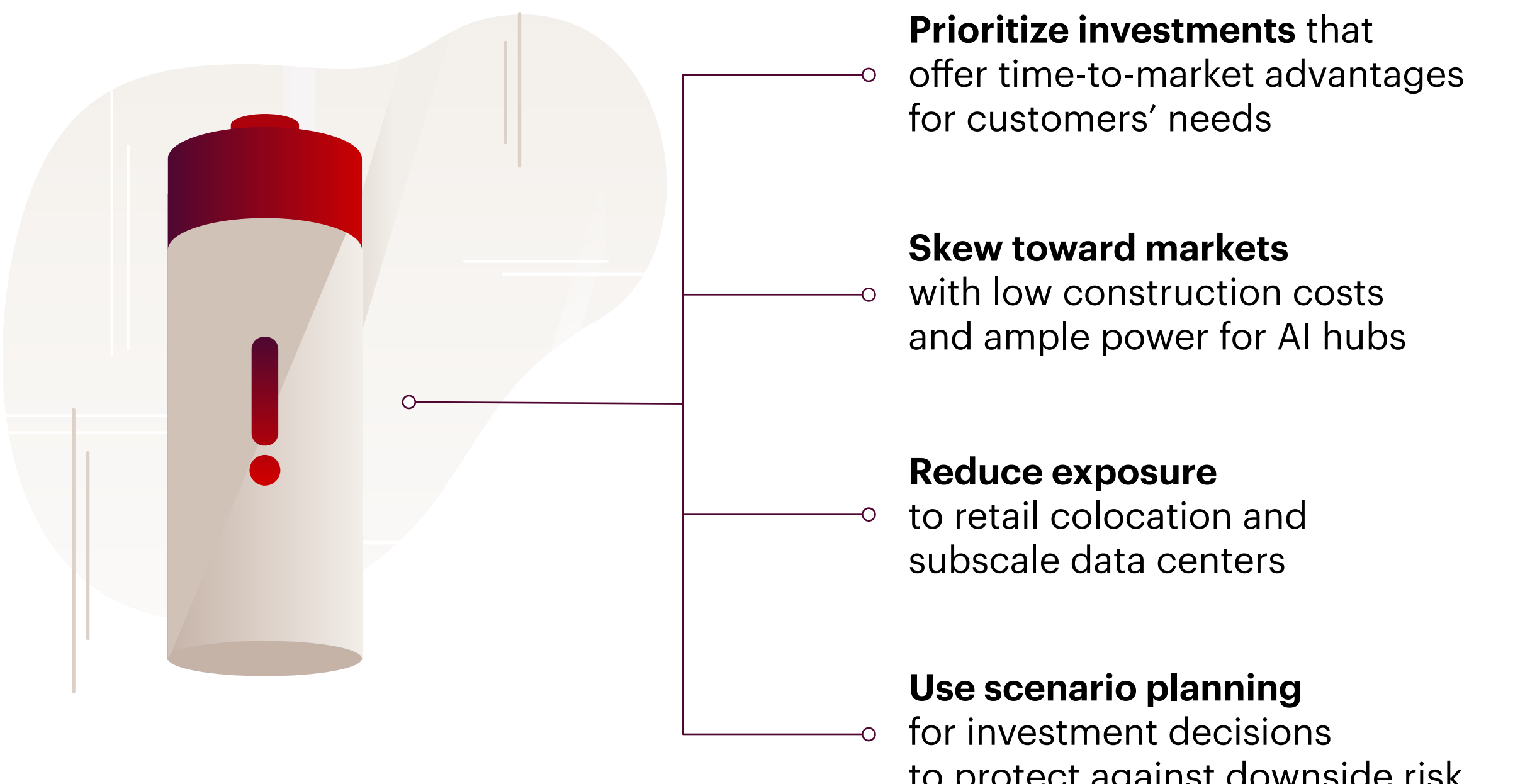
Power gaps

Power access for massive workloads might fall short



How investors can manage higher risk

Planning for a range of data center evolution scenarios helps make smarter, risk-aware investment decisions



Note: 40% of respondents indicated they expect no effect to their cloud-based workloads
Sources: IDC; TD Cowen; Goldman Sachs; JPMorgan; Wells Fargo; S&P Capital IQ; Bain analysis; Bain Generative AI Survey, February 2024 (n=200)