

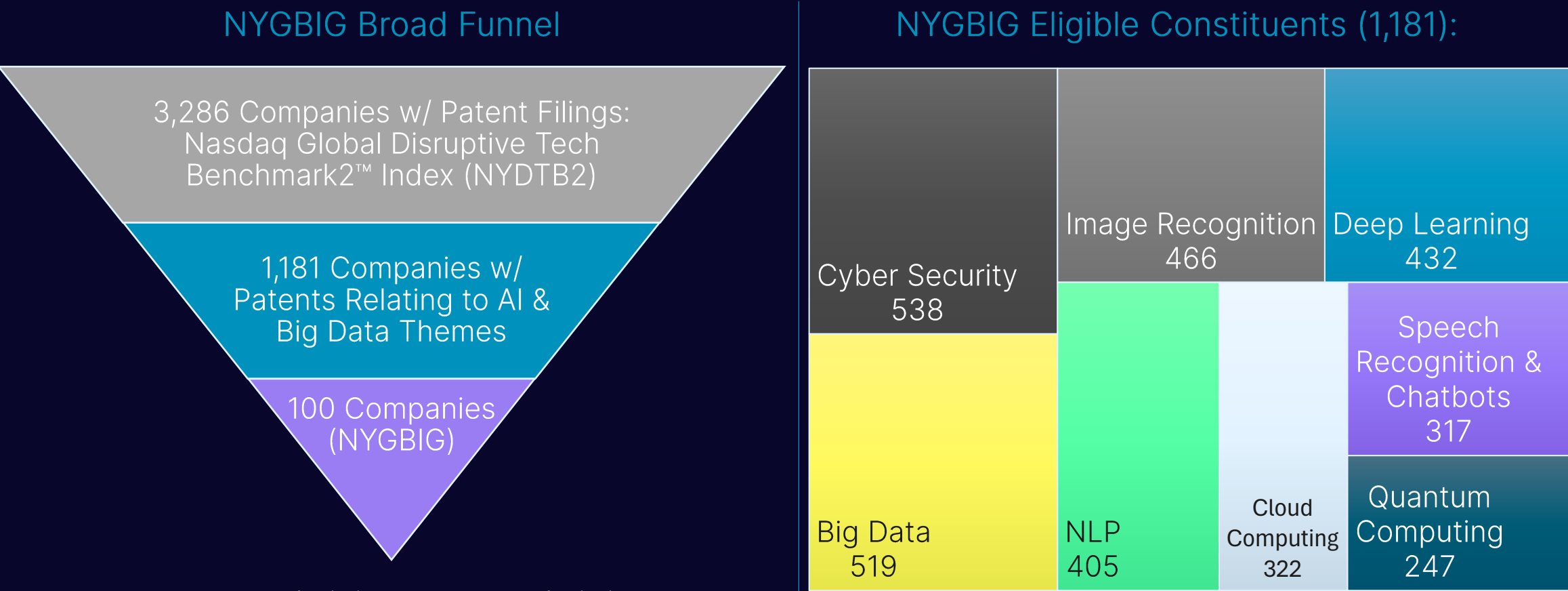


Nasdaq Global Artificial Intelligence & Big Data™ Index

Effective July 2026

Nasdaq Global AI & Big Data™ Index (NYGBIG™)

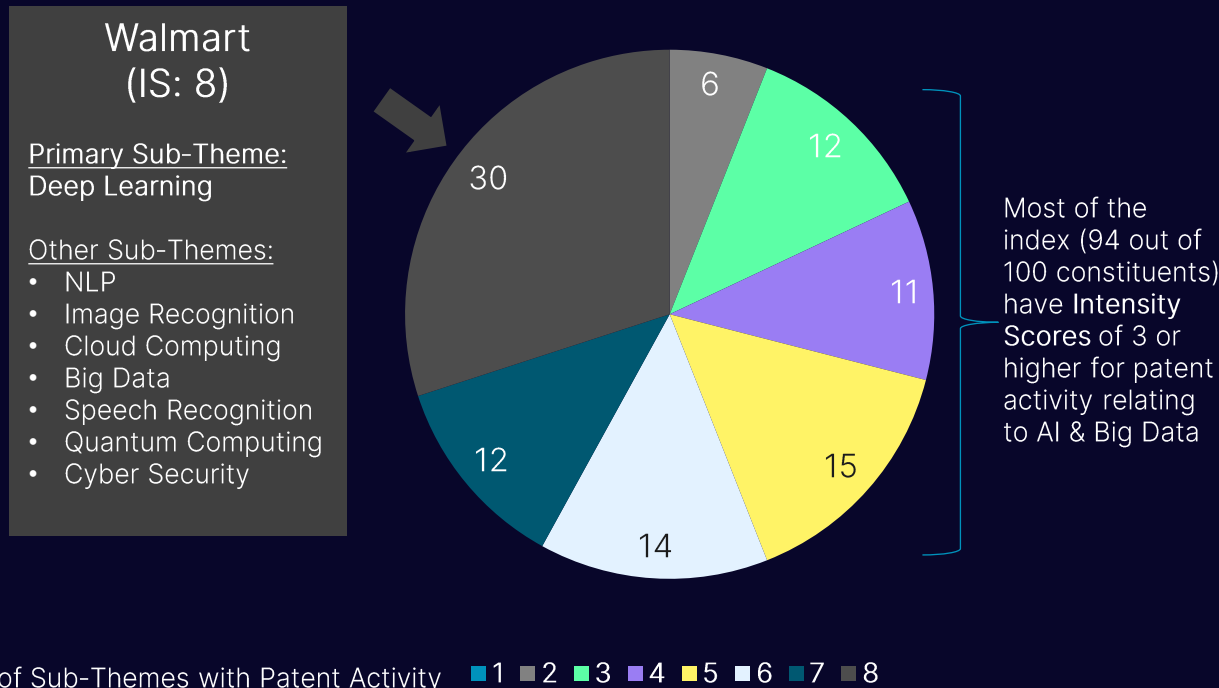
NYGBIG is designed to track the performance of companies that are most active in filing patents relating to Deep Learning, Natural Language Processing (NLP), Image Recognition, Speech Recognition & Chatbots, Cloud Computing, Cyber Security, Quantum Computing, and Big Data. Of the 3,286 companies in the starting universe (NYDTB2™), 1,181 filed patents in one or more of these areas in the most recent two-year lookback period; Cyber Security was most common with 583 companies filing related patents; 100 companies met all index criteria and were selected for NYGBIG inclusion



Nasdaq Global AI & Big Data™ Index (NYGBIG™)

NYGBIG's universe of eligible constituents are assigned an Intensity Score, measuring the number of sub-themes (i.e. relevant technologies with patent filings) with a level of involvement (max score = 8, min = 1). Constituents are selected based on the strength of their Pure & Contribution scores (must be in the top 50th percentile to remain in the index, top 35th percentile for additions), as well as their Intensity Score. Preference is given to constituents that belong to ICB Subsectors determined as being most relevant to the theme, while also allowing a few other high-relevance, high-scoring stocks (e.g., Walmart, Amazon, Alibaba) that are eligible irrespective of industry classification.

of Constituents vs. Breadth of Patent Activity



NYGBIG Constituent Examples (Primary ICB Subsector):

SAP (IS: 8)

Primary Sub-Theme:
Big Data

Other Sub-Themes:

- NLP
- Deep Learning
- Image Recognition
- Cloud Computing
- Speech Recognition
- Quantum Computing
- Cyber Security

Adobe (IS: 7)

Primary Sub-Theme:
Image Recognition

Other Sub-Themes:

- Deep Learning
- NLP
- Cyber Security
- Cloud Computing
- Big Data
- Speech Recognition

AMD (IS: 6)

Primary Sub-Theme:
Quantum Computing

Other Sub-Themes:

- Image Recognition
- Deep Learning
- Big Data
- Cloud Computing
- Cyber Security

QuantumCTek (IS: 2)

Primary Sub-Theme:
Quantum Computing

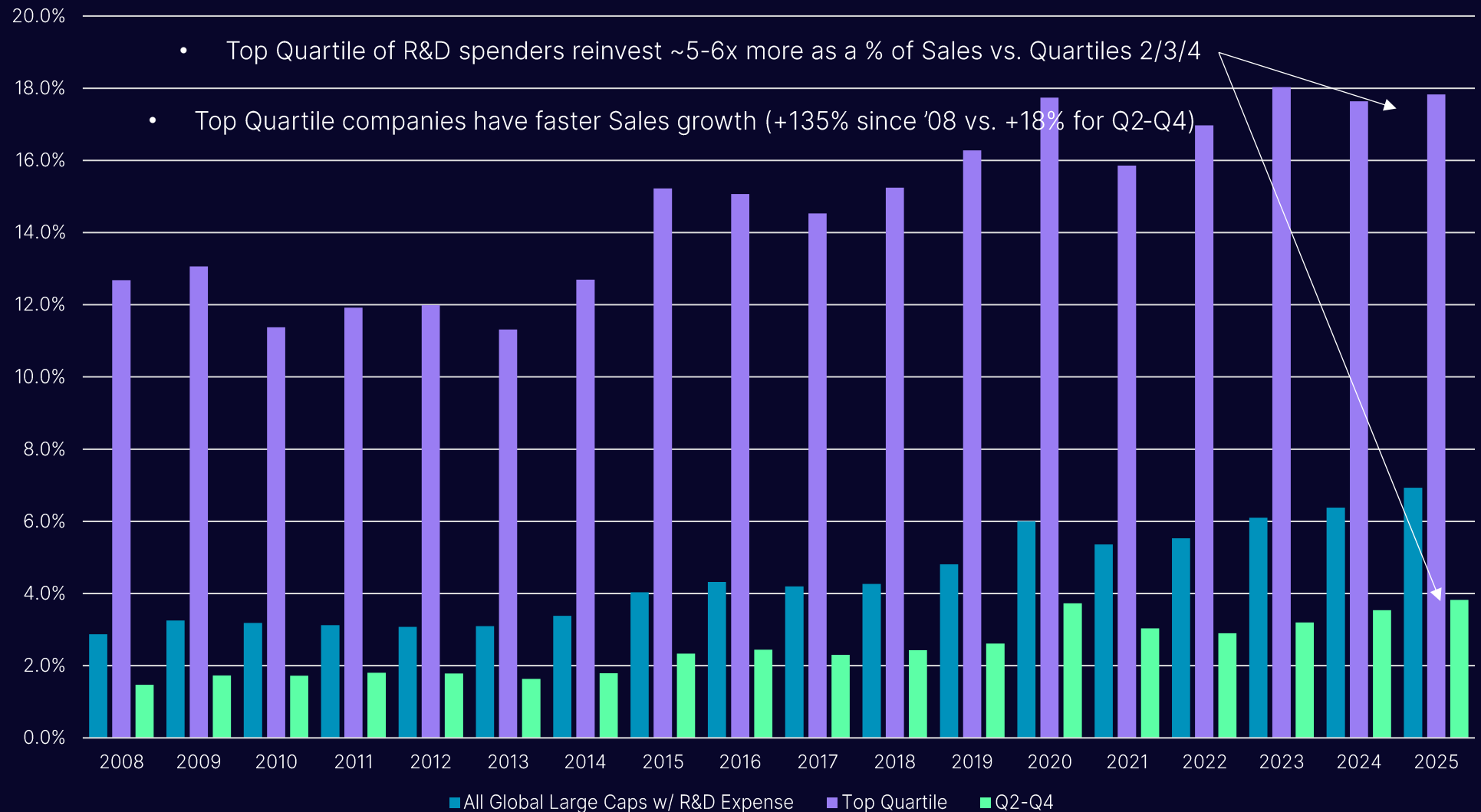
Other Sub-Themes:

- Cyber Security

Growth of R&D Spending among Global Large Caps

- Based on Nasdaq Global Large Cap Index universe of companies with some level of reported R&D (2025: 349 out of 948 companies)
- Annual R&D as % of Sales has steadily grown from ~3% in 2008 to ~6-7% in recent years among this group
- Top Quartile has increased R&D from ~12-13% of Sales to ~17-18% in recent years
- Rest of R&D spenders (Quartiles 2/3/4) has increased from ~1.5% to ~3-4%
- Total R&D across global large caps up from \$342B in 2008 to \$1T+ in 2024 / 2025

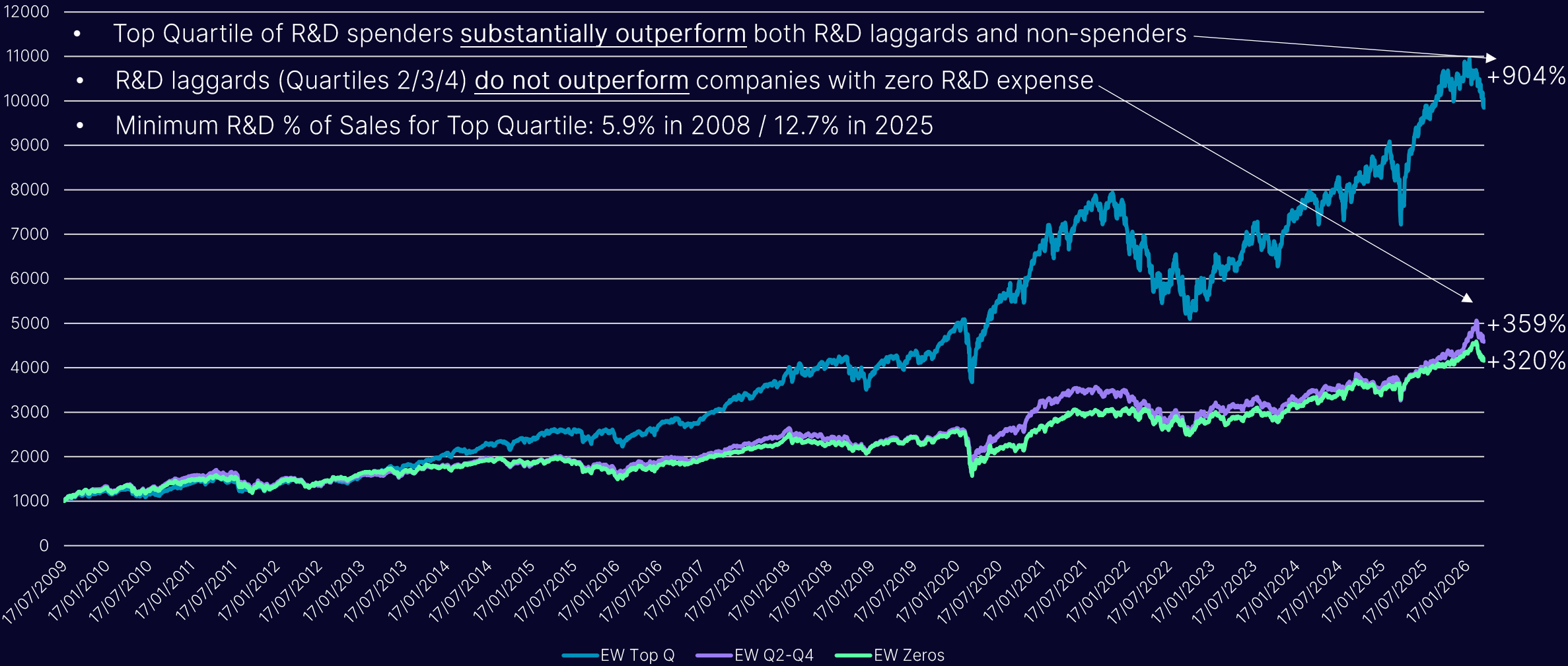
Global Large Caps, Aggregate R&D as % of Aggregate Sales vs. Top Quartile vs. Q2-Q4



Source: Nasdaq, Factset as of 6/11/2026. Index data as of each year-end from 12/31/2008 to 12/31/2025.

R&D Leaders Outperform Laggards/Non-Spenders

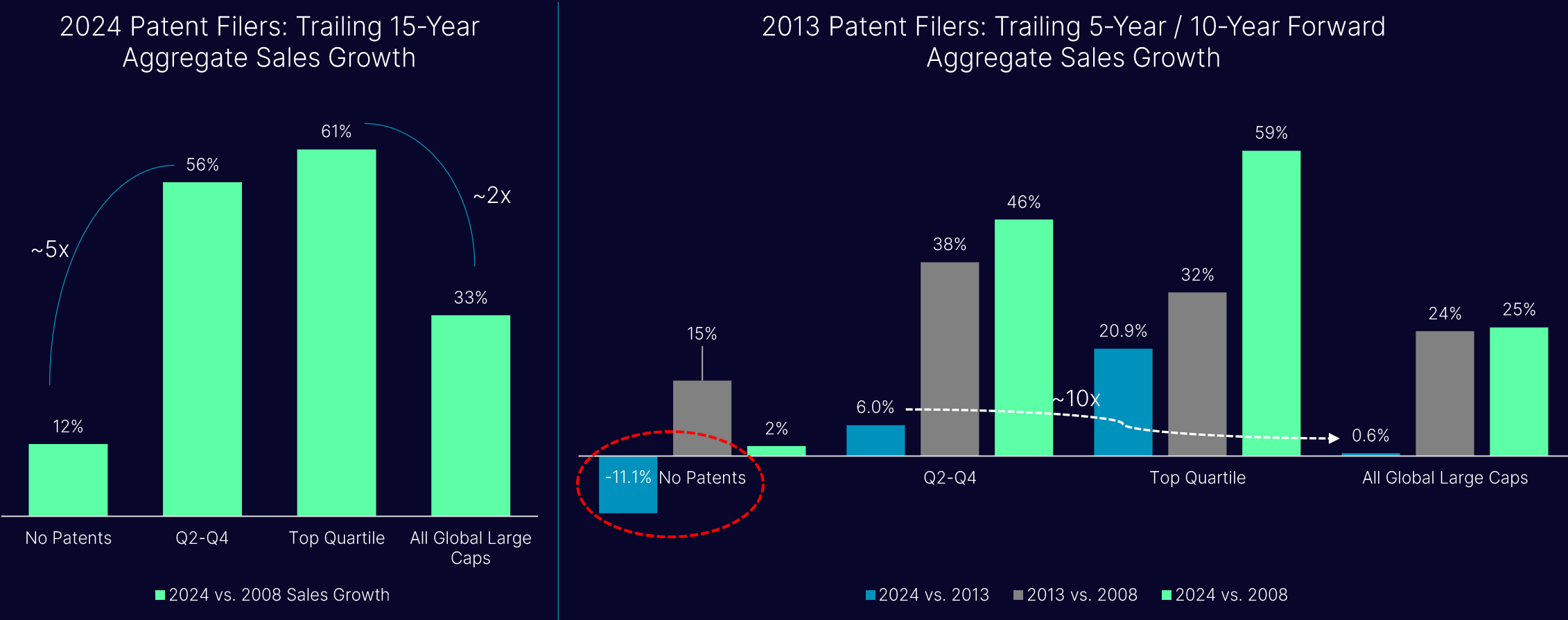
Global Large Caps: Top Quartile Firms Ranked by R&D % Sales vs. Quartiles Q2-Q4 vs. Zero R&D Firms, Equal-Weighted Performance (TR), 2009-2026



Source: Nasdaq, Factset as of 3/31/2026. Index data as of each year-end from 12/31/2008 to 12/31/2024. Companies are ranked on prior full-year R&D expense as % of Sales on a 6-month lag (June 30) to allow for disclosure of reported financials. Baskets rebalanced annually 3rd Friday of July.

Patent Filings as a Growth Signal

Among global large caps in 2024, patent filers recorded the fastest sales growth over the past decade and a half, up ~60% regardless of the volume of patents, ~2x the average for the entire group of companies (33%). Those with no patent filings recorded growth of only 12%. Looking at the same groupings of companies as of 2013 market cap/patent rankings, patent filers would have also seen at least ~10x the rate of sales growth on a 11-year, go-forward basis, while non-filers saw negative sales growth.



Source: Nasdaq Global Indexes, Nasdaq AI Team, IFI Claims, Factset as of 9/30/2025. Index data as of 12/31/2013 and 12/31/2024. Companies are ranked on prior full-year total patent filings.

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