



HYPERION RESEARCH

4th Annual Global QC Market: Robust and on the Rise



Bob Sorensen
Chief Analyst for Quantum Computing
Hyperion Research, LLC

2023 QC Market Dynamics Study Roadmap

Formulate global status and prospects from a data-driven perspective

- **Conducted QC supplier survey to gather data and insights on QC market dynamics**
- **Many thanks for assistance from various QC consortia in reaching out to their respective membership base to encourage participation in this effort:**
 - Quantum Economic Development Consortium (QED-C)
 - European Quantum Industry Consortium (QuIC)
 - Quantum Industry Canada
 - Japan Quantum Strategic Industry Alliance for Revolution (Q-STAR)
 - Australian Quantum Alliance
 - UKQuantum
 - Korea Quantum Industry Association
- **Gathered results to span:**
 - Geographic variety, company size (total and QC-related revenues), market concentration, QC industry sentiment, and impressions on general trends in the sector
- **Analyzed results from 133 respondents representing 108 different companies**
 - Individual responses for industry-wide questions
 - Combined single response for organizations



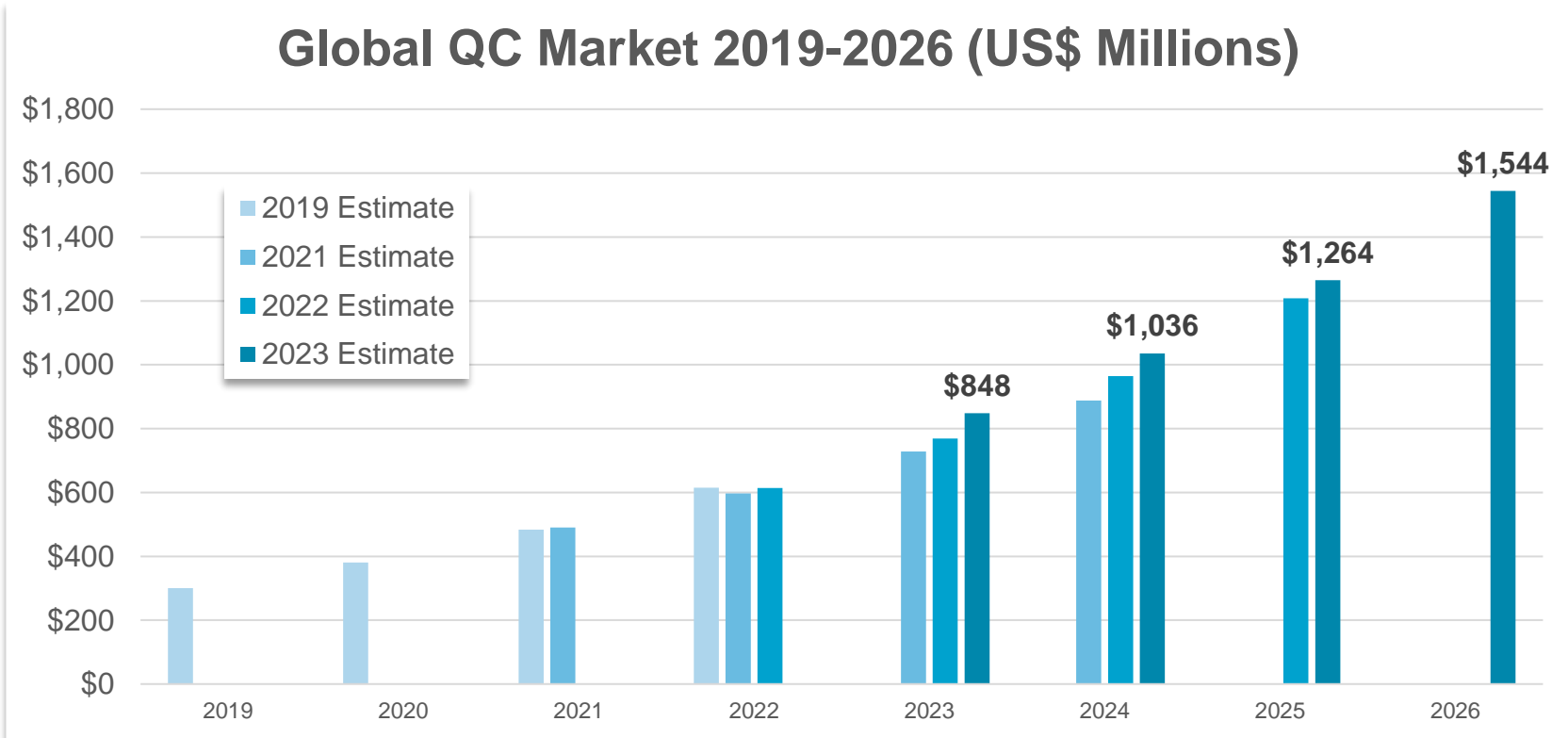
QC Market Highlights

Continued strong and steady progress for the global QC sector

- **The global quantum computing (QC) market is estimated to be worth US\$848 million in 2023**
 - A projected annual growth rate of 22.1% brings the global QC market to US\$1.5 billion in 2026
- **Supply-side growth driven by a collection of factors:**
 - Continued revenue growth by traditional QC suppliers
 - First revenue appearances by new-to-market players
 - Expanding base of domestic suppliers in nascent markets
 - Increasing sophistication and specialization of QC stack
- **Demand-side interest on the rise:**
 - Widespread interest in accelerating critical compute jobs
 - More end use case exploration within the overall HPC community
 - Sustained government programs, and related government procurements, fostering sales and increasing credibility to potential end users

QC Market Estimate: US\$848 Million in 2023

22.1% annual growth rate drives QC global market to US\$1.5 billion in 2026

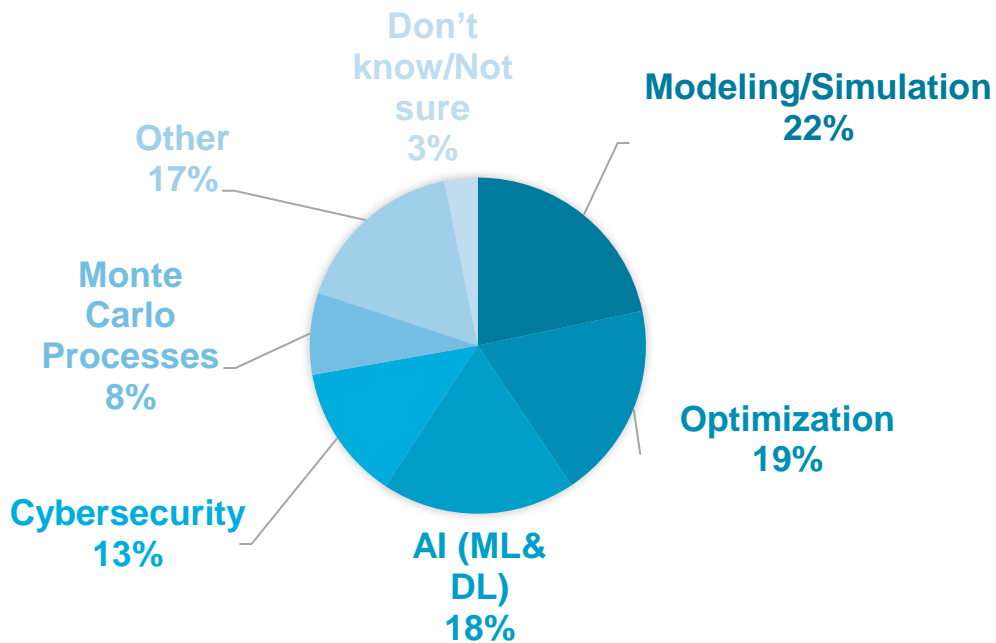


- **Dangerous to project out too far: too many unknowns**
 - But is this the first stages of an exponential curve?

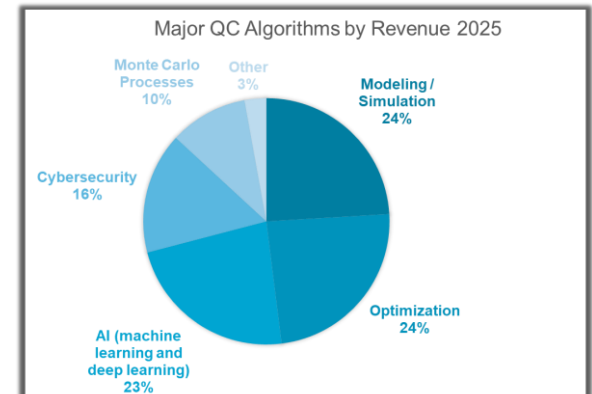
QC Market 2026: Major Algorithms by Revenue

Mod/sim, optimization, and AI still the three major algorithms areas

QC ALGORITHMS BY REVENUE 2026



- Some changes from previous years' studies
 - The overall share of the big three is slipping due to major gains in the 'Other' category
 - But there was little detail offered about the new alternatives
 - Suggests trends towards mixed algorithms use

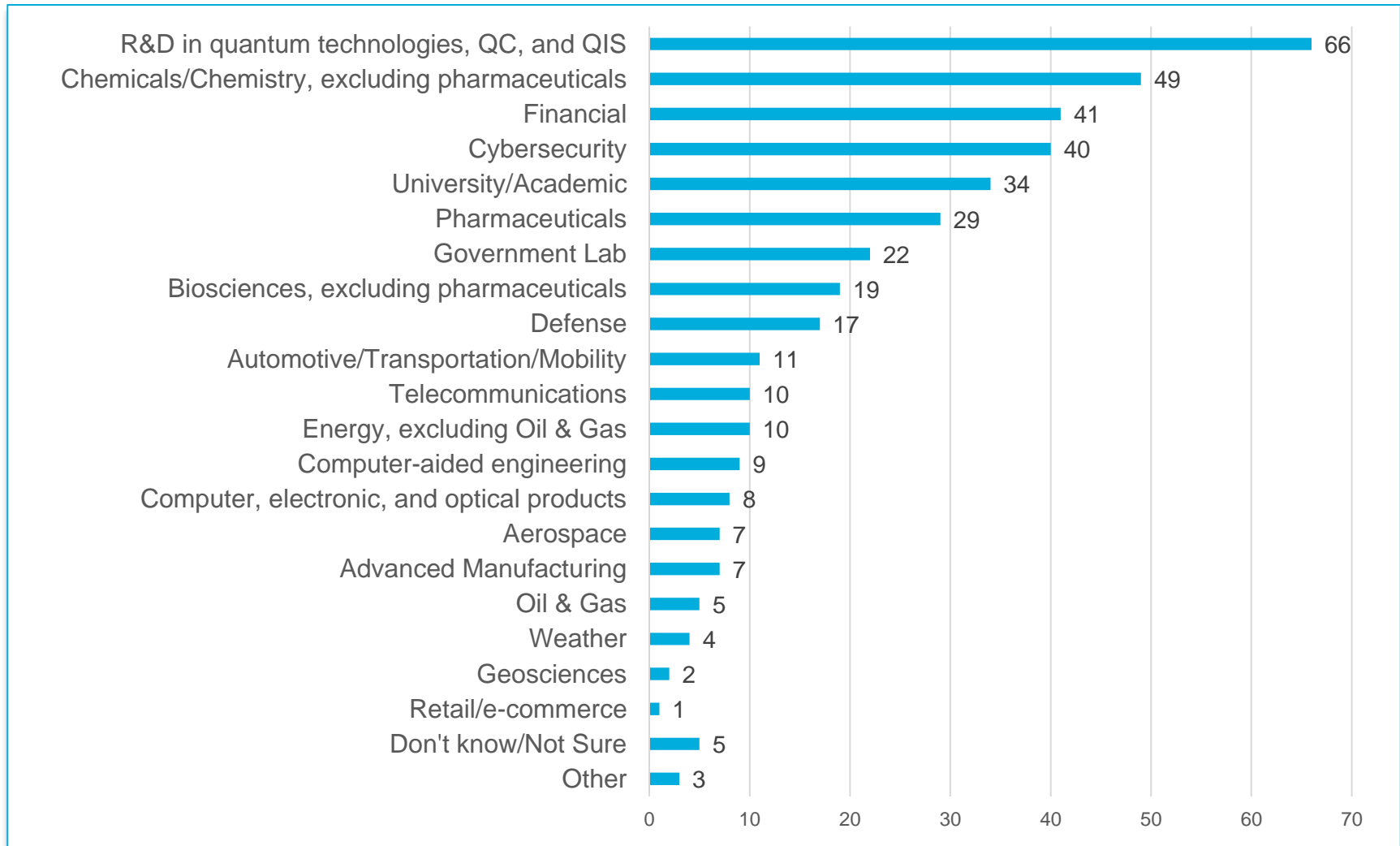


N = 133



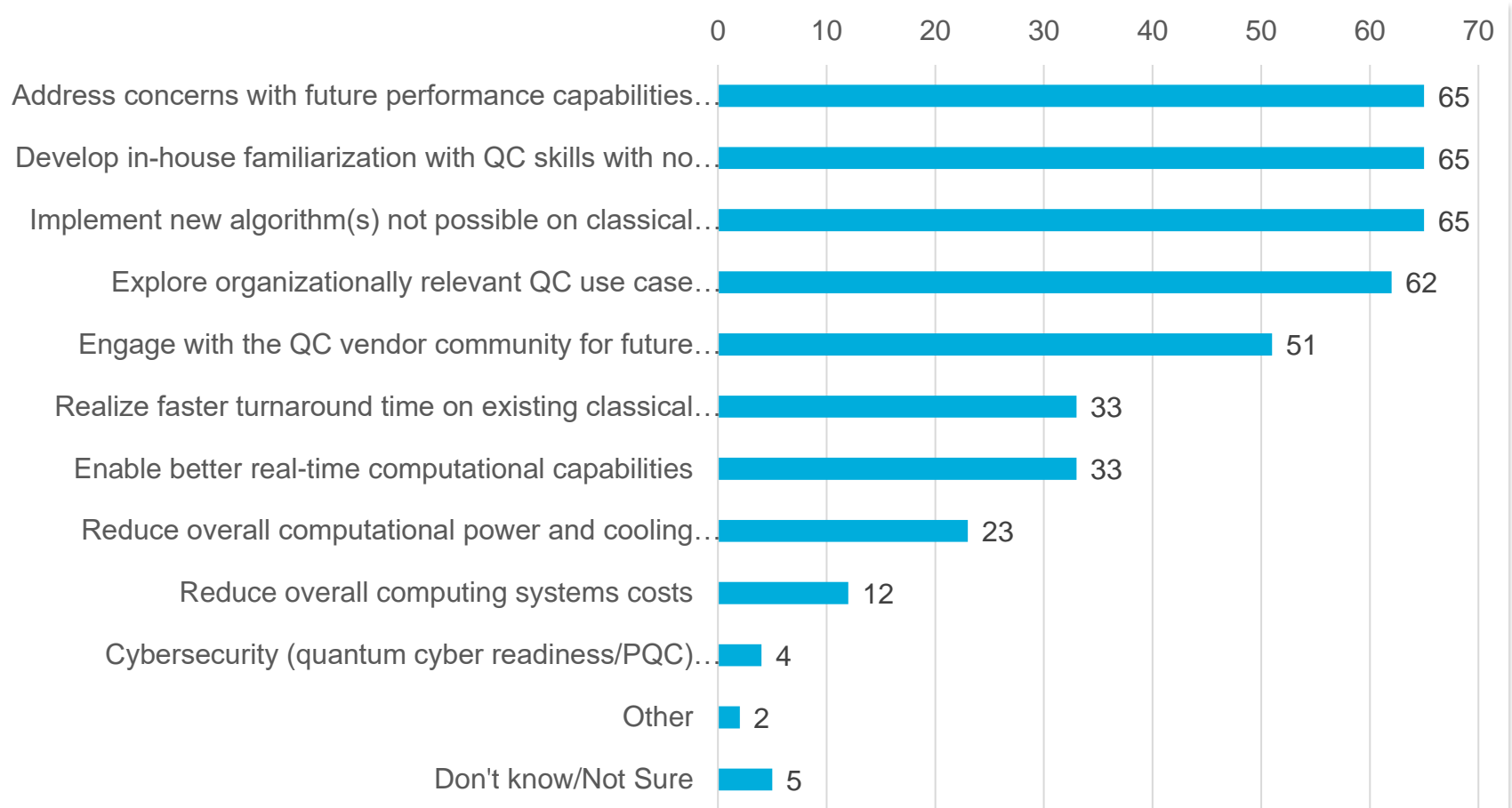
QC Market 2026: Top End User Sectors/Verticals

QC R&D and Chemicals on top, but broad applicability envisioned



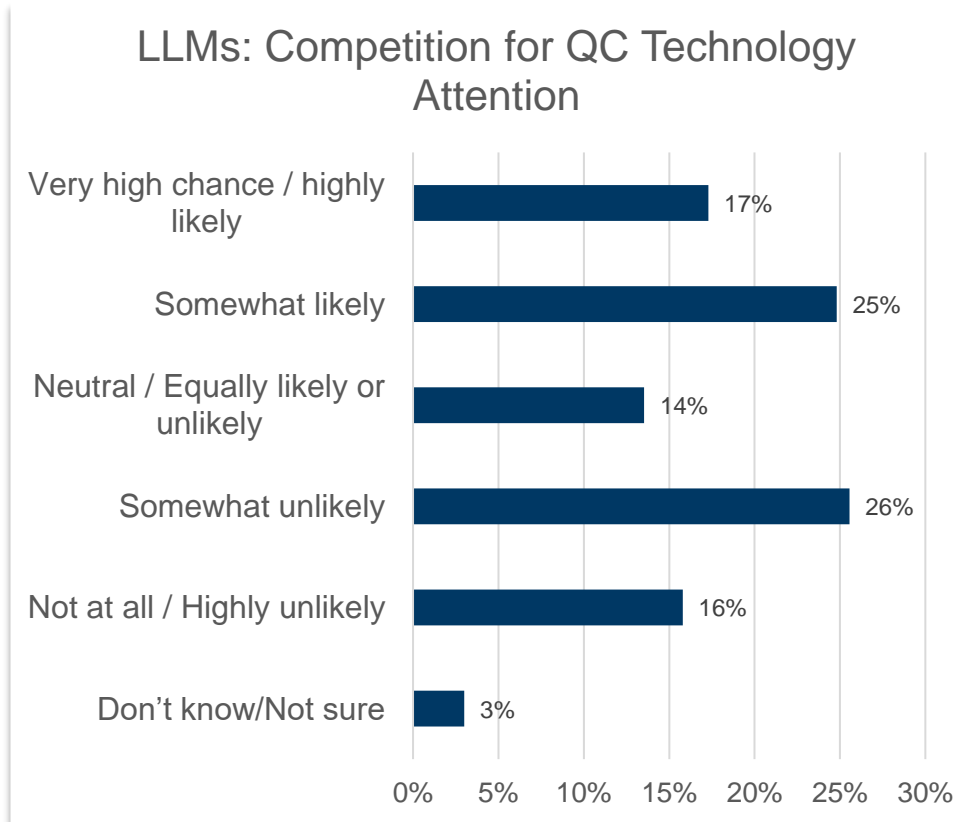
QC 2026: QC End User Perceptions

Mixed drivers for QC end user adoption



QC Distractions and LLMs

How likely is it that the emergence of large language models like ChatGPT and BERT will draw attention away from end user interest in quantum computing?



- **LLMs – and likely generative AI in general - seen as near-term competitor for end user interest in QC by 42% of respondents**
- **But equal percentage not overly concerned**
- **Demonstrates need for QC to continue to deliver on technology/performance gains**
- **Highlights perceived end user interest in performance gains no matter how it is delivered**

N = 133



QUESTIONS?



bsorensen@hyperionres.com

When the great innovation appears, it will almost certainly be in a muddled, incomplete, and confused form. To the discoverer himself, it will be only half understood; to everybody else it will be a mystery.

----Freeman Dyson 'Innovation in Physics', Scientific American, Sept 1958