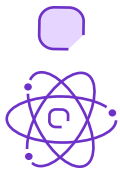


Coming soon to your business – Quantum computing

Five strategies to prepare for the paradigm-shifting technology

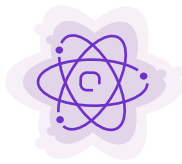
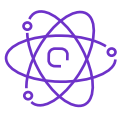
Own the power



To double the theoretical power of a classical computer, double its number of transistors. To do the same for a quantum computer, only one additional qubit is needed for some applications.



A future quantum processor could simulate a caffeine molecule; this would require a conventional computer larger than 10% of the earth's size.



Near-term quantum computers may help design new materials to create even more powerful quantum computers.

Seize the advantage

Anticipated uses of quantum computing

Machine learning

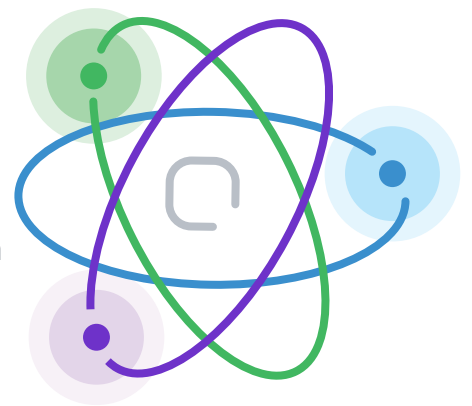
- Sampling
- Adaptive vendor/customer interactions
- Decision support
- Training

Simulation

- Chemistry
- Pharmaceuticals
- Materials
- Electric batteries

Optimization

- Travel and transportation
- Logistics/supply chain
- Network infrastructure
- Air traffic control
- Work scheduling
- Financial services



Your quantum future starts now

Step 1

Select champions



Step 2

Identify use cases



Step 3

Experiment



Step 4

Chart your course



Step 5

Flexibly adapt



Become quantum ready

Achieve quantum advantage

Will your organization be ready to capture quantum advantage?

To learn more, visit: ibm.biz/quantumstrategy