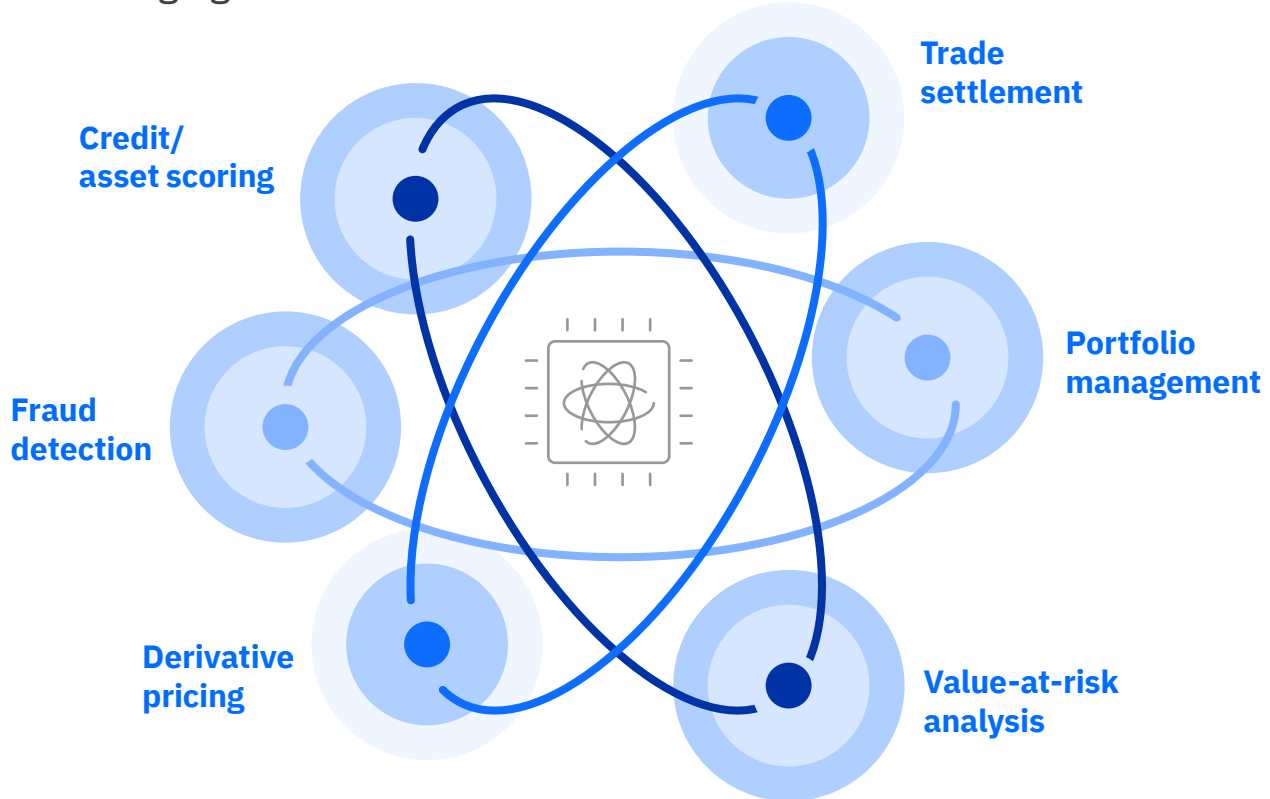# Prioritizing quantum computing applications for business advantage

Charting a path to quantum readiness

Evaluating the potential business impact of quantum computing applications can be challenging

- Credit/asset scoring
- Trade settlement
- Portfolio management
- Fraud detection
- Value-at-risk analysis
- Derivative pricing

Our prioritization matrix categorizes quantum computing applications into four distinct categories
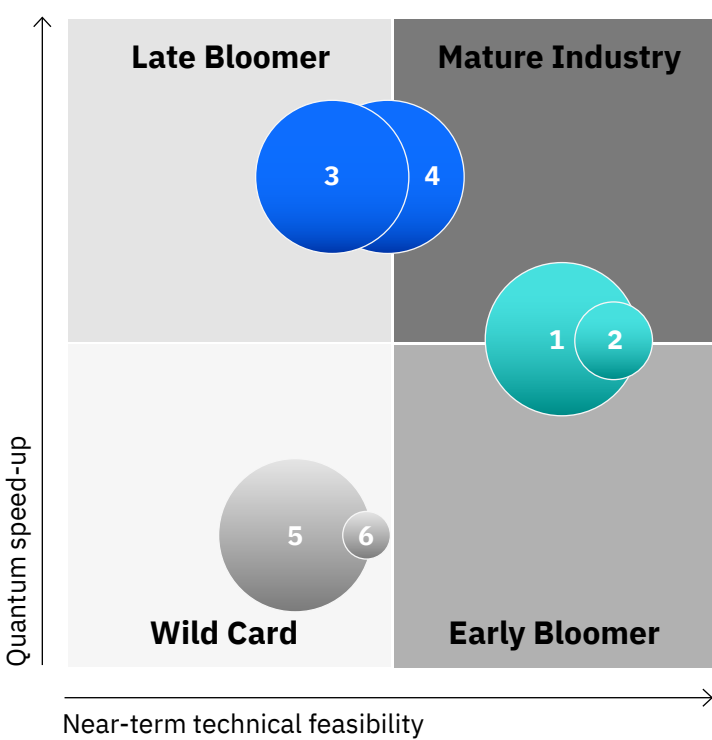
Early Bloomer applications are the most feasible to implement today

Late Bloomer applications promise significant quantum advantage in the future

Wild Card applications may or may not ultimately deliver clear business advantage

Mature Industry applications can deliver competitive advantage on a business scale

An illustration of the quantum prioritization matrix for a financial services trading organization

Late Bloomer | Mature Industry | Wild Card | Early Bloomer

Quantum speed-up

Near-term technical feasibility

1. Trade settlement
2. Portfolio management
3. Value-at-risk analysis
4. Derivative pricing
5. Fraud detection
6. Credit/asset scoring

Relevant algorithms
- Quantum Approximate Optimization Algorithm
- Quantum Amplitude Estimation
- Quantum Support Vector Machine

Unique business value
Low ⟶ High

Identifying a diverse mix of quantum applications can prepare your organization to rapidly respond to breakthrough advances in quantum computing technology.

To learn more, visit ibm.co/prioritizing-quantum-apps

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