

Why QCI?

Accelerating the value of quantum computing for real world users

QCI Accelerates the Path to Quantum Value Today

QCI Ready-to-run
Quantum Software
NASDAQ: QUBT

Qatalyst
Ready-to-Run
Quantum Software

Quantum optimization software

- Ready-to-run on diverse QPUs, classical and hybrid

Business experts can use it

- No quantum expertise needed

No vendor lock-in

- Explore multiple QPUs simultaneously
- Use the best QPU for the problem

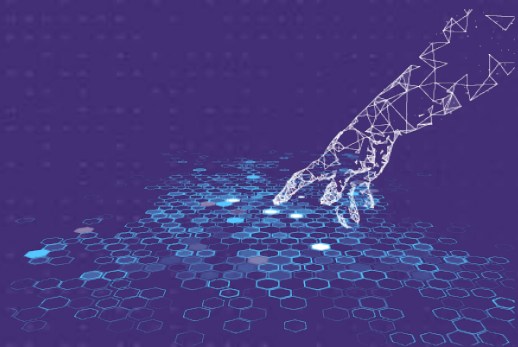


Eliminates Cost, Risk and Time of Complex Quantum Software Development

QCI Accelerates & Expands the Path to Quantum Value

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Quantum Software
NASDAQ: QUBT

Ready-to-Run
Quantum Software

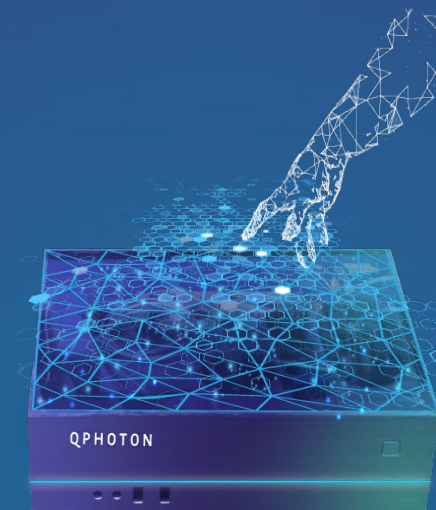


Qatalyst

Ready-to-Run
Quantum Computer



QPhoton



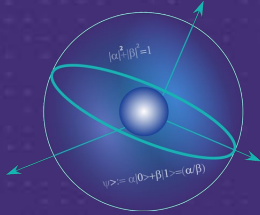
Full Stack, Ready-to-Run
Quantum Systems,
Anywhere for Anyone

Affordable and Accessible Quantum Computing Value for More Users

QCI is Uniquely Positioned to Capture Revenue

QCI Ready-to-run
Quantum Software
NASDAQ: QUBT

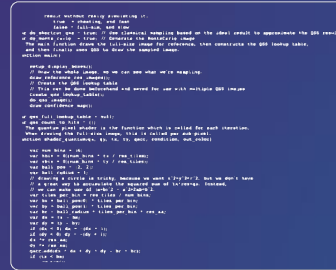
Quantum
Current
State



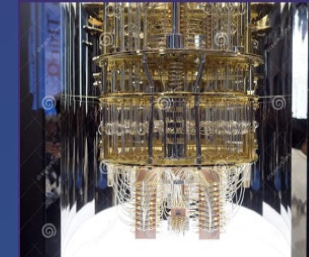
QPUs limited to
small problems



Elite experts
to code software



Hardware coding =
vendor lock-in



Deep cooling,
unstable, fixed configs



Elite Workforce,
High Risk and Cost

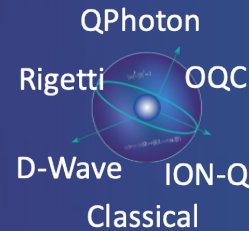
QCI
Opportunity



Solving 5-20x larger
problems



Biz users solve
optimizations now



Eliminates lock-in,
Empowers hybrid



Deploy anywhere, diverse
configurations



Quantum Anywhere
for Anyone

Disrupting and Accelerating Quantum Computing Adoption

Driving Quantum Computing Value

- ◆ QCI: Qatalyst quantum optimization software
 - Dramatically reduced cost & risk
- ◆ QCI: QAmplify QPU expansion
 - Solving 5-20X larger problems vs current QPU abilities
- ◆ QPhoton quantum computer
 - Lower-cost, deploy anywhere
 - Quantum photonic, gate or annealer capabilities

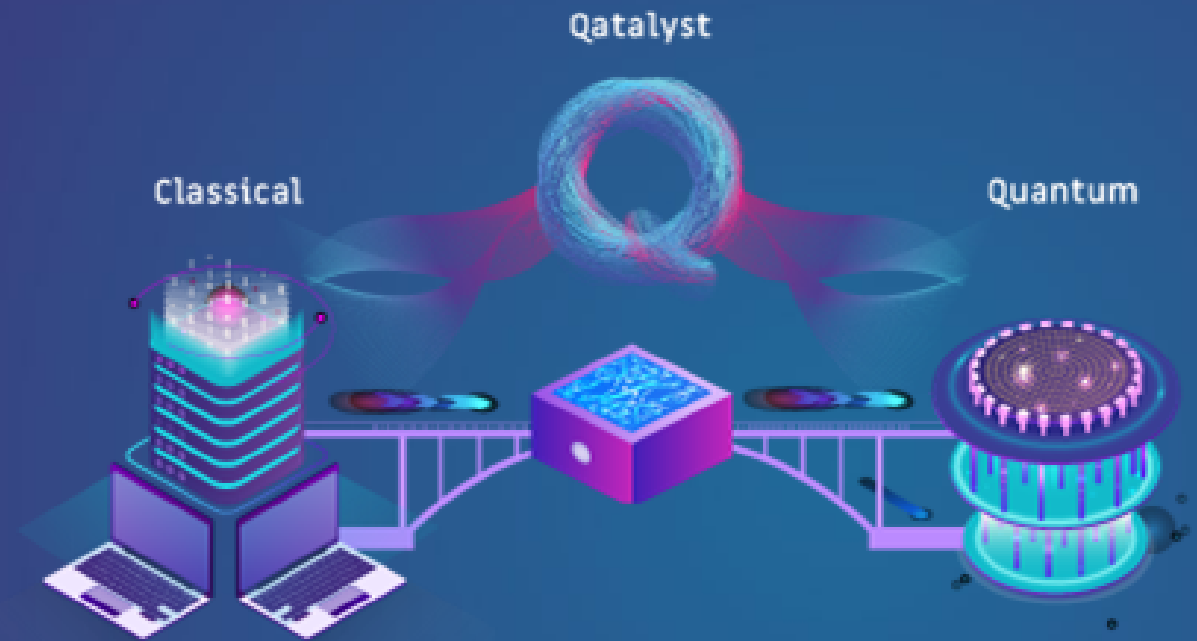


Delivering Real-World Value to Real-World Users at Lower Cost and Risk

Qatalyst

Ready-to-run Quantum
Optimization Software
For ALL USERS

- ◆ Vendor- Neutral Quantum Computers
 - IonQ
 - Rigetti
 - DWave
 - OQC
- ◆ Quantum-ready Classical



Democratizing Availability of Quantum Value for All Users

Qatalyst vs. Quantum Programming

SDK Code for Multi-Constraint Optimization



Qatalyst → 1 API call

```
sample_qubo(qubo: Union[dict,  
numpy.ndarray,  
scipy.sparse.base.spmatrix], **kwargs)  
→ qatalyst.response_client.ClientResponse
```

“I’ve worked with a popular Quantum open-source SDK for over 8 months. I just found a way to program a simple problem yesterday.

With Qatalyst, I was solving problems 2 days after I received access.”

Theoretical Physics PhD , VP of Quantum Applications

Why Choose Cost, Time and Complexity???

Comparison: Time-to-Business-Results

SDK ToolKits

Time-to-results: **7-12 months or more** , \$332K – \$476K per program

- Fundamentals of Quantum Computing
- Quantum Software Programming
- Training

Define Quantum
Problem &
Process

Tune Problem and Data, re-run for better results,
Tune and re-run, repeat

Repeat for every new problem

Qatalyst

Time-to-results: **1 week or less**, ~\$2K to learn

Learn API

Define and submit problem

Process and return results

Time

Month 1

3

5

7

9

11

Dramatic acceleration and cost reduction for quantum exploration

QAmplify - Expanding Current QPUs

- Powerful patent-pending, QPU-expansion software technologies
 - The software amplifies the problem size that can be processed on current QPUs
- Two technology approaches deliver a wide range of capabilities that span the QPU technology space
 - **BPSQ (Big Problem / Small Quantum)**
 - Provides computational scale for Gate-Technology systems ... to “amplify” the size of problems
 - **VAQO (Variation Algorithm / Quantum Oracle)**
 - New AI/ML algorithms expands Quantum Annealer (D-Wave) technologies

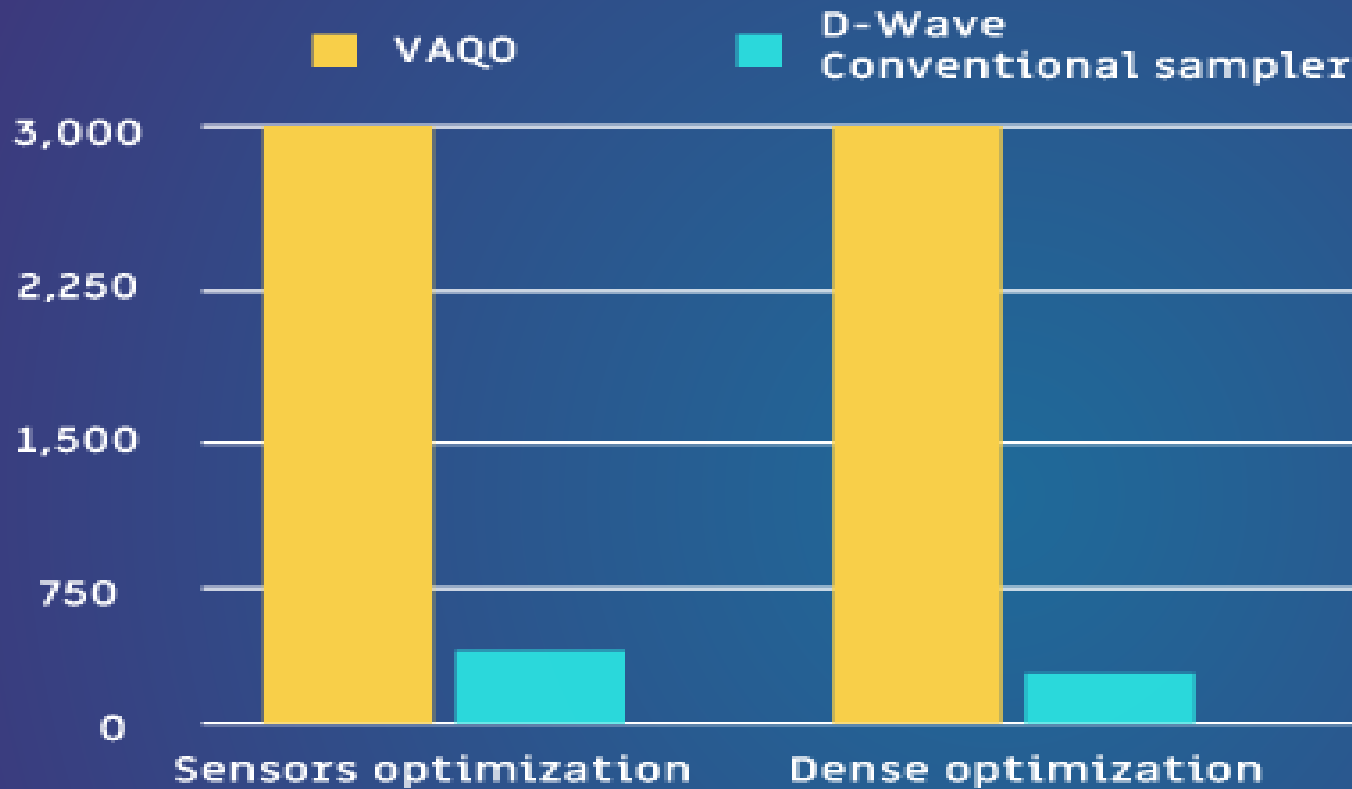
QCI makes the impossible possible, today, to enhance current QPU capabilities

Q Amplify – VAQO for DWave

Solving Larger, More Diverse Problems than DWave alone

qubits

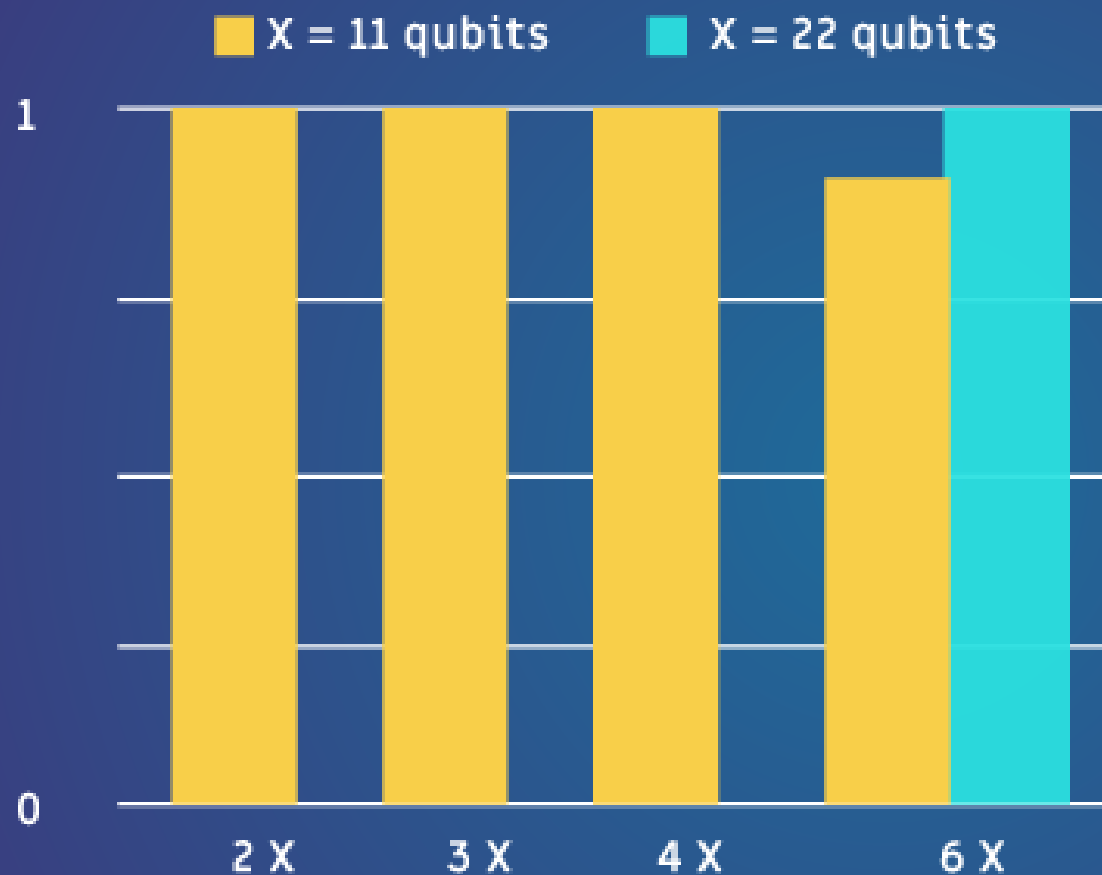
- 20x larger problems than DWave Annealer alone
- Solves QUBOs, Integer and continuous variable optimizations



Higher Value Solutions to More Diverse Business Problems

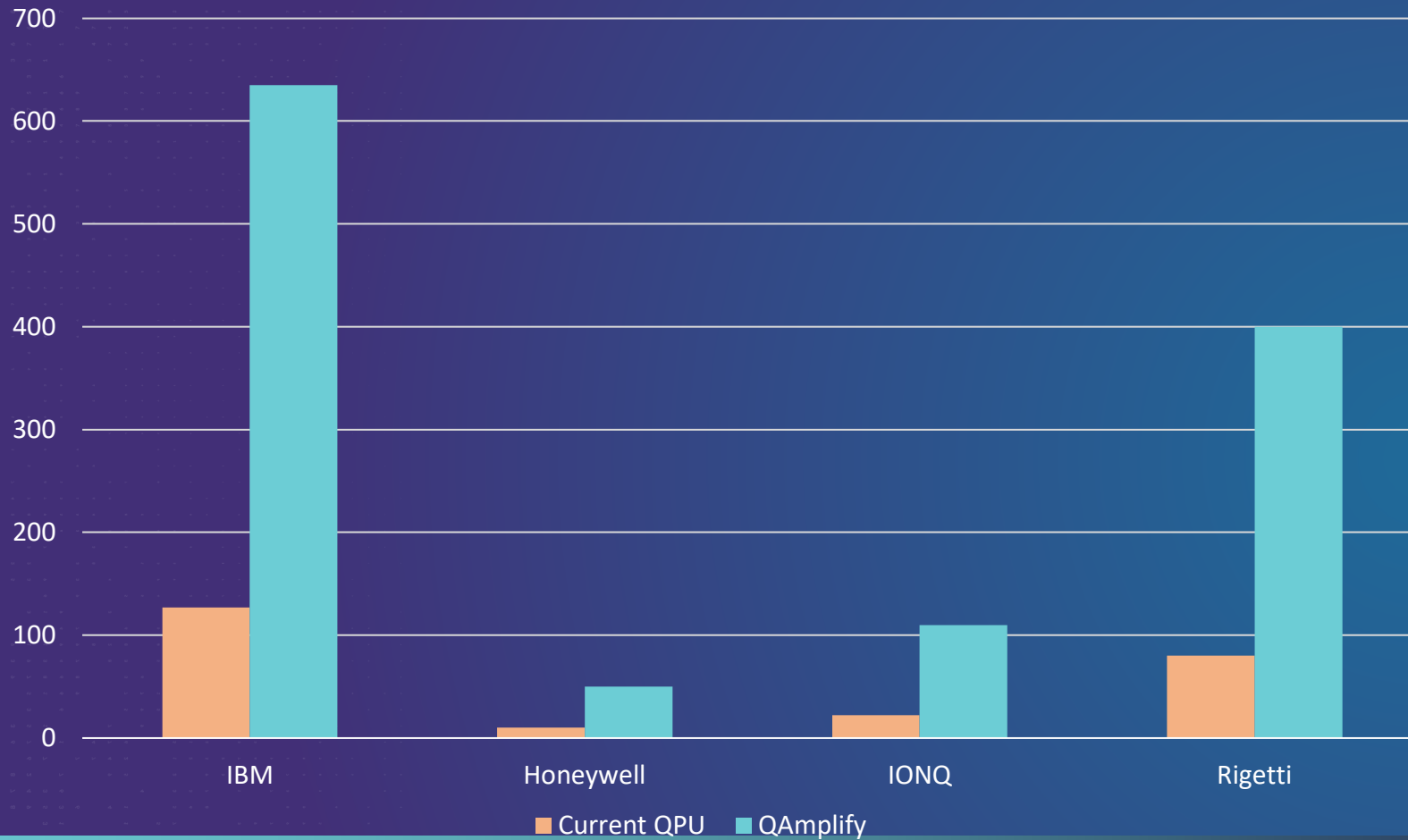
Solving Larger, More Diverse Problems than QPUs alone

- 5x larger problems than gate model QPUs
- Blue bar shows continued scale as qubits grow



Extending the Scale of Gate Model QPUs

Impact on Popular Gate Model QPU's Problem Scale



Quantum Exploration with More Realistic Problems

The QPhoton QPU Advantage

Quantum Anywhere, For Anyone

QPU Requirement	Other QPUs	QPhoton
Cooling	Hyper Cooled: Temperature of Space or Cooled Room	Room Temperature
Environment	Highly unstable, easily collapsed	Stable in most business environments
Infrastructure	Beyond supercomputers	No special requirements
Deployment/Mtc	Expert care and feeding on cloud or on premise	Deploy anywhere, cloud and on premise
PROJECTED TCO-Q	Cooling alone is millions	Like a departmental server

Affordable, Highly Accessible Quantum Computing

1st Generation vs QCI

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Quantum Software
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Hyper-cooled, Hyper-Controlled Environment

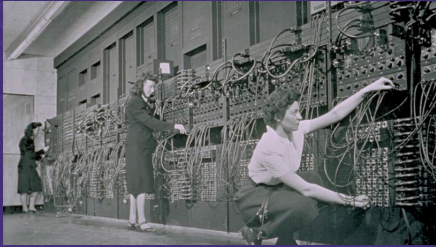


QCI QPhoton
2u Rackable Blade Chassis

The difference is obvious

Dramatic Acceleration of Commercial Quantum Computing

Evolution of Classical Computing



1945
ENIAC



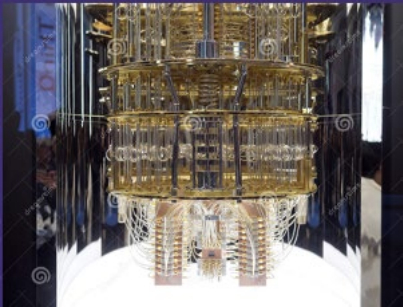
1964
IBM System 360



1983
First PC

**39 years to
Desktop
Classical**

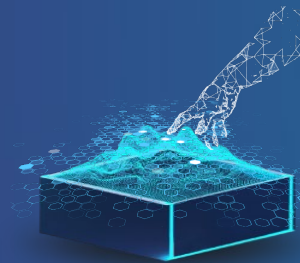
QCI Accelerates Quantum Computing



2019
Gate Model QC



2022
QCI/QPhoton Cloud

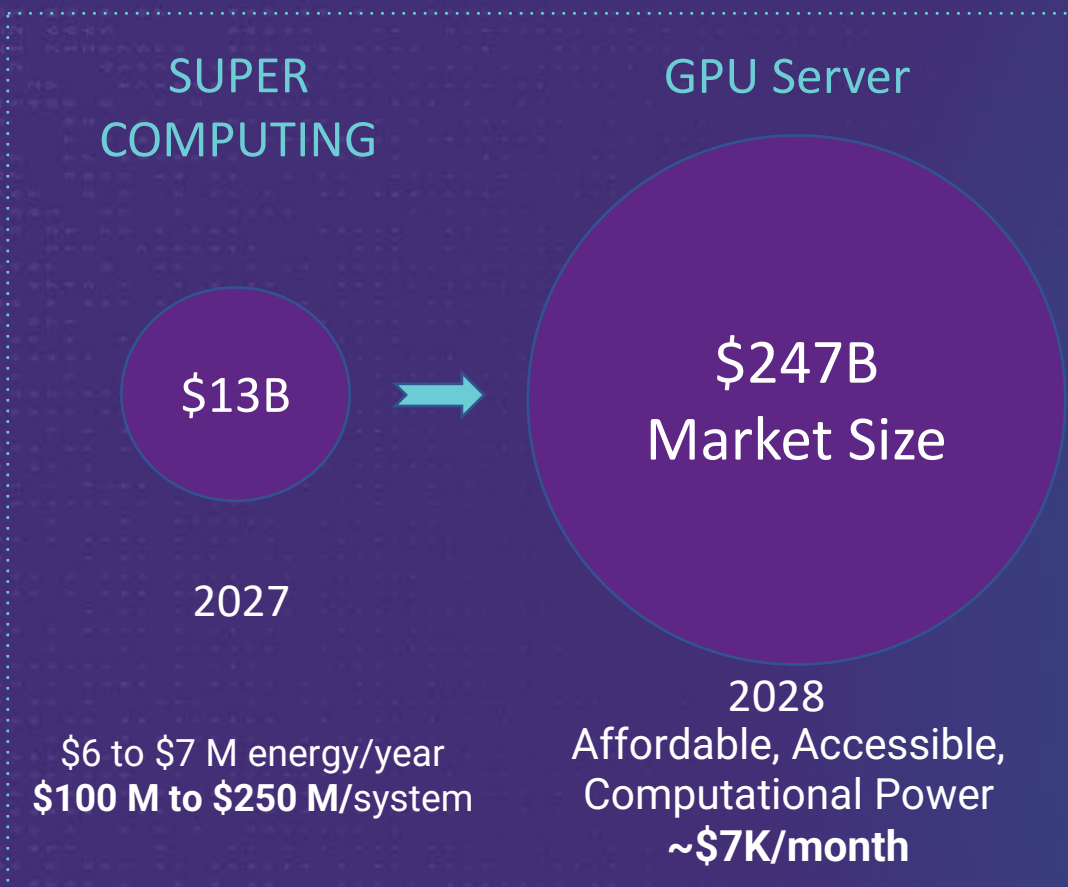


2023/4
QCI/QPhoton
On Premise/Desktop

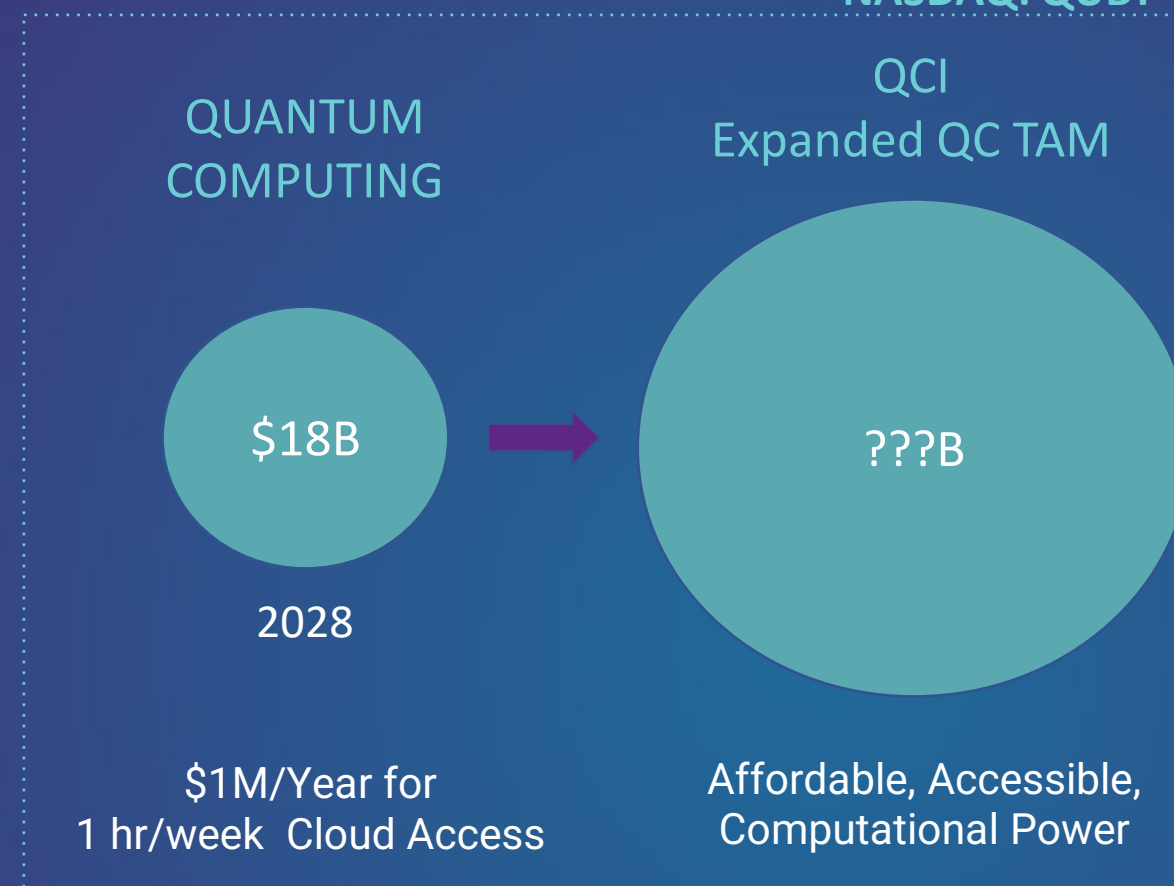
**5-6 years to
Desktop Quantum**

Significantly Expanding QCI Total Available Market/Revenue Opportunities

TAM Comparison



High Super Computing TCO/Price
Drove QPU Market Growth



Expect similar growth opportunities
in Quantum Computing

Demonstrated Market Behaviors Drive QCI Revenue Expansion Opportunity