

# AUSTIN FORUM

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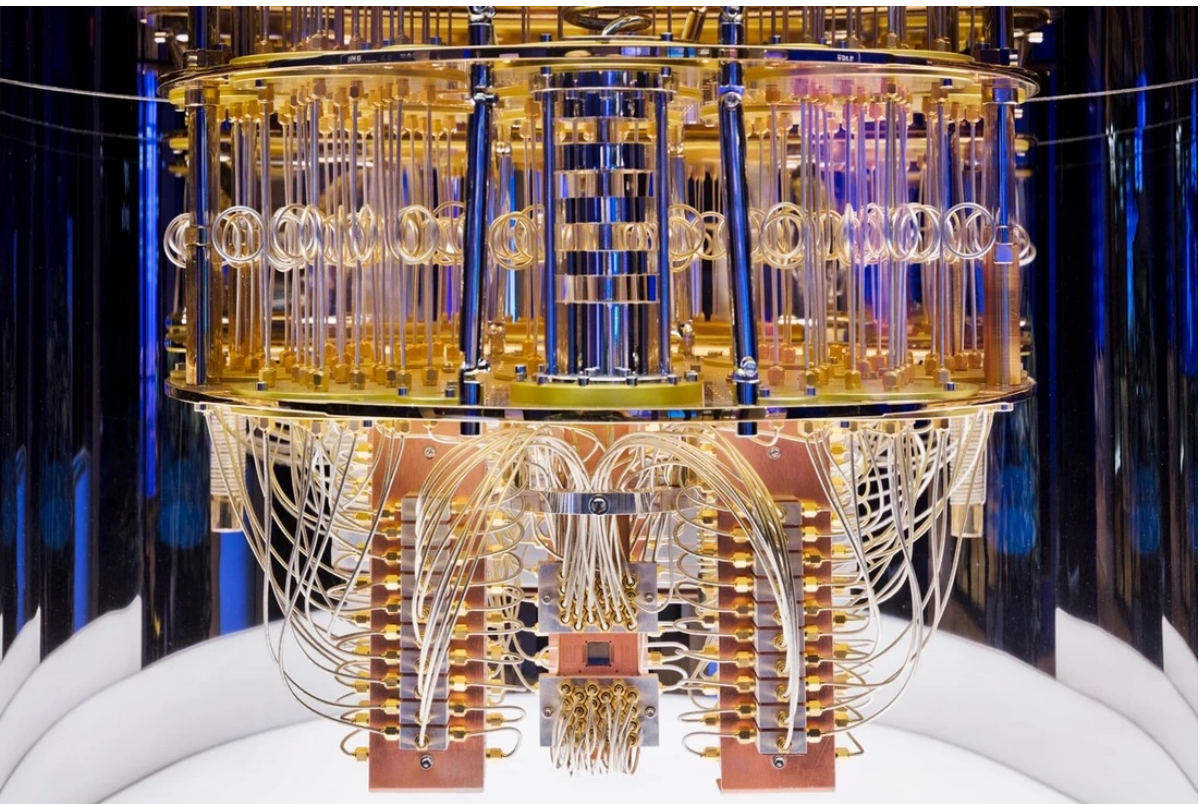
ON TECHNOLOGY & SOCIETY

*Connect. Collaborate. Contribute.*™

*Welcome to the*  
***Austin Forum on Technology & Society!***

*We bring leaders, thinkers, builders, creators, and learners together to **connect, collaborate, and contribute!***

*Thank you for joining our community  
online or in-person!*



# Quantum Computing: The Next Technological Evolution

Sept 5, 2023

# Our Partners Make Austin Forum Possible!

ADAPTER



arm



*Please contact us if you want to become an annual partner!*



And welcome to our newest partner!

**whurley**

**Thank you to our new Austin Forum Champions!**

***Nancy Giordano***

***Kelley Knutson***

***Roy Truitt***

***Luke Wilson***

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**And our new Friends of the Forum!**

***Don & Mary Kay Hanson***

***Chris Van Loan***

# You can be an Austin Forum Champion today!



BE A CHAMPION!  
BE A FRIEND!

**With your quick help & support, we can provide great educational programming and informative experts (\$1000+)**

- Offer advice on programming topics, invited speakers, podcasts & events
- Attend the annual meeting & VIP reception
- Get a nice tax deduction!
- Get cool AF swag
- 100% of your gift goes to executing the Forum
- **THANK YOU!**



**Or be a Friend of the Forum!**

- Get cool AF swag
- Get a tax deduction!
- 100% of your gift goes to executing the Forum



# We have 6 ways to learn, share, connect!

Live monthly events	Online content
<b>Presentation + Networking events</b> <ul style="list-style-type: none"><li>• Expert presenter-focused</li><li>• In-person and online—hybrid</li><li>• Recording and slides posted online</li></ul>	<b>Slack Community</b> <ul style="list-style-type: none"><li>• Get updates and register for events</li><li>• Learn more about the Austin Forum</li><li>• Ask questions, share, etc. (Slack)</li></ul>
<b>Meetup discussion events</b> <ul style="list-style-type: none"><li>• Participatory for everyone</li><li>• In-person <b>only</b></li><li>• Never recorded—speak freely!</li></ul>	<b>Podcasts – Austin Forum Upload <i>(new episodes weekly)</i></b> <ul style="list-style-type: none"><li>• Audio only</li><li>• Conversation formats</li><li>• Hosted in all major podcast stores, AF website</li></ul>
<b>Book discussion events</b> <ul style="list-style-type: none"><li>• Participatory for everyone</li><li>• Online <b>only</b></li><li>• Never recorded—speak freely!</li></ul>	<b>Blog – Austin Forum Update <i>(September 2023)</i></b> <ul style="list-style-type: none"><li>• Web-based (on Medium)</li><li>• Weekly(ish) articles</li><li>• Multiple formats: “Techsplanations,” interviews, analyses/positions, and series</li></ul>

# Before we get started, join our slack

## *Why join the Austin Forum Slack workspace?*

1. Continue and deepen the conversation after Austin Forum events
2. Find new opportunities for collaboration, mentoring, working, and more
3. Promote local events and relevant Tech & Society opportunities
4. Because this gives *everyone* in our community—online and in-person—the *same* way to ask questions!

## *How?*

1. Open a web browser
2. Go to: [www.austinforum.org/slack](http://www.austinforum.org/slack)
3. Click “Join the Austin Forum Slack Workspace”
4. Enter your email address
5. Check your email to confirm Slack invitation
6. Enter your name and click “Create Account”
7. You’re in! You can use the Slack mobile app now, too.
8. Add channels to your view using + **Add channels**)

# Austin Forum Upload: New episodes out now!



## New episodes!

- #66 – Web 3.0: It's Coming, It's Different, and Why You Should Care!
- **#65 - Quantum Computing: Weird, Transformational, and Coming Sooner than You Think!**
- #64 - Episode 64 - How Can Companies and Organizations Protect Against Cyberthreats?

## New episodes soon with leaders in:

- Women in Tech
- Austin Tech Ecosystem
- Cybersecurity



***Q: What companies have you heard of in the quantum computing space besides Strangeworks? (30 seconds)***

1 2 3 4 5 6 7 8 9 10

11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29



Questions for  
speakers?

Submit questions in  
the AF Slack channel

**#quantum**

for a chance to win a  
*SXSW 2024 badge!*

*Must be in-person and  
present at ~7:45PM to win!*

*Must use your name (first  
and last) on questions!*



**SXSW** 

**AUSTIN FORUM**

ON TECHNOLOGY & SOCIETY

[www.austinforum.org](http://www.austinforum.org)

# And now, our featured presentation...

## Please:

***Respect our speakers & audience***

*Do not talk during the presentation*

*Silence your cellphones*

***Ask questions*** in the Austin Forum

Slack in the **#quantum** channel

***Learn, think, and enjoy!***

***Stay after Q&A for free stuff!***



# Quantum Computing: The Next Technological Evolution



**William 'whurley' Hurley**  
CEO and Founder  
**Strangeworks**



# Quantum Computing: The Next Technological Evolution

September 5th, 2023



## ● Agenda

- Quantum Computing Explained
- Quantum Computing Milestones
- Quantum Computing & The Kitchen Sink
- Quantum Computing Fact Vs. Fiction
- Q&A

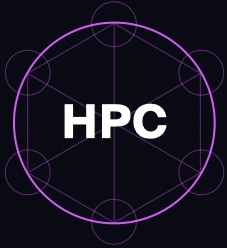




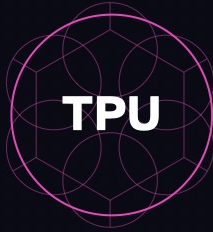
# Quantum Computing Explained



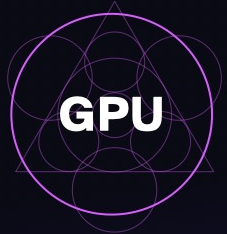
# Our current compute is limited.



High Performance Computing



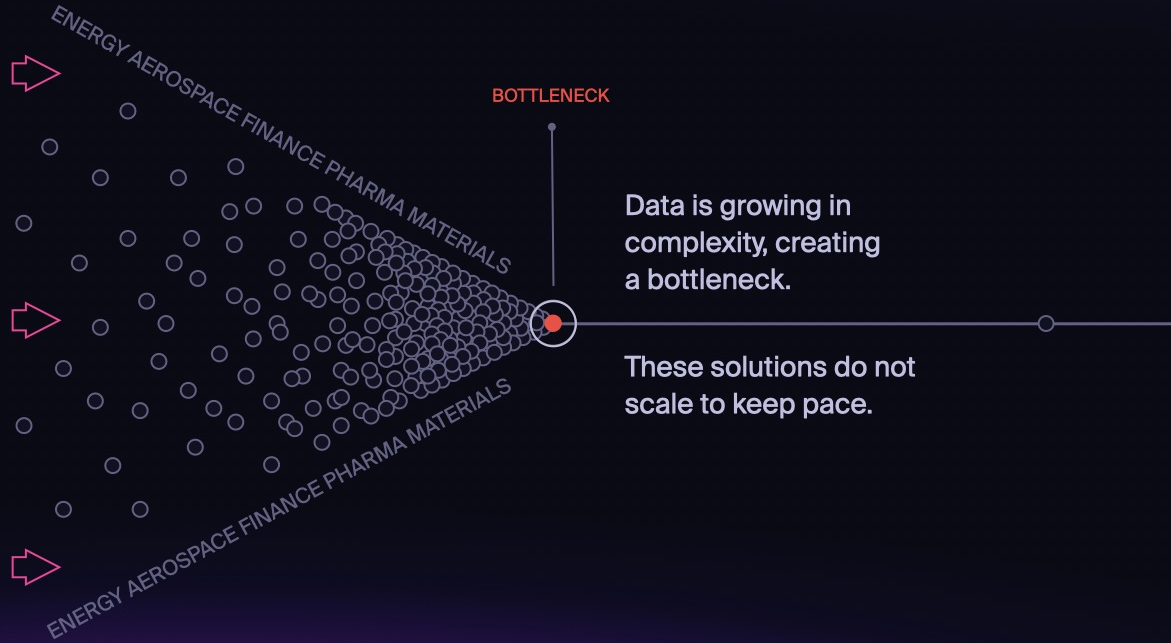
Tensor Processing Units



Graphics Processing Units



Field Programmable Gate Arrays



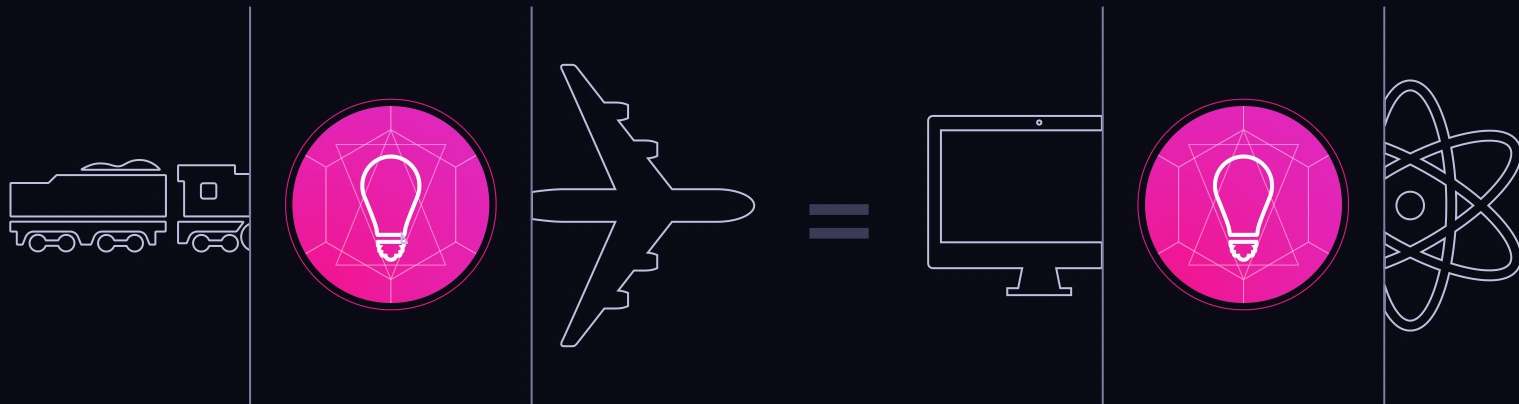
BOTTLENECK

Data is growing in complexity, creating a bottleneck.

These solutions do not scale to keep pace.



# My best analogy.

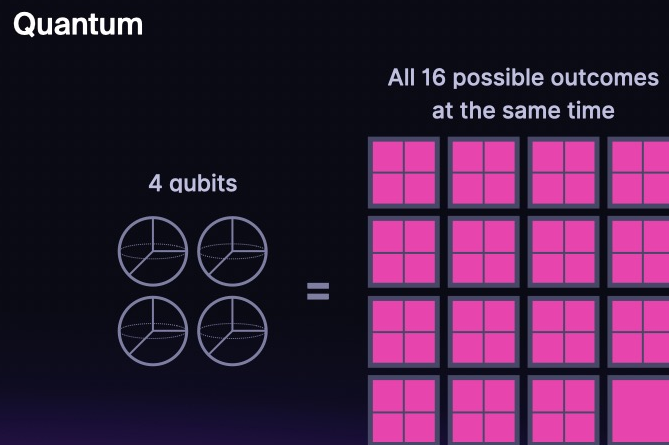
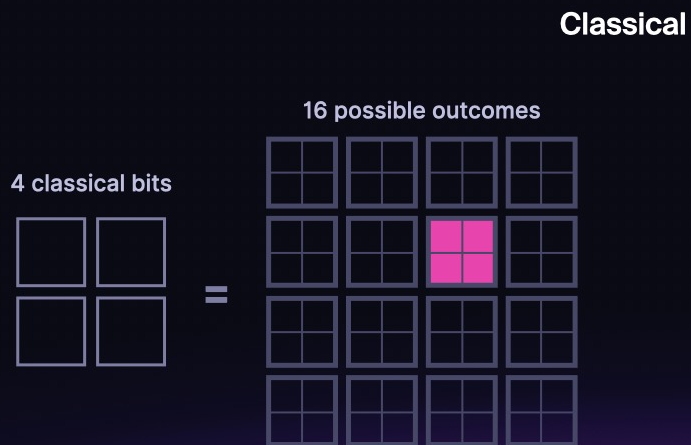


# Coins, cards, and an attempt to explain.



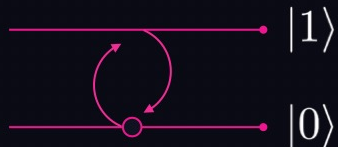
# Understanding quantum computing.

- New type of compute that leverages quantum mechanics to solve problems that are intractable to existing classical computers
- Due to the properties of entanglement and superposition, quantum computers are exponentially more powerful than classical
- QC strengths: linear algebra, combinatorial optimization, differential equations, and cryptography



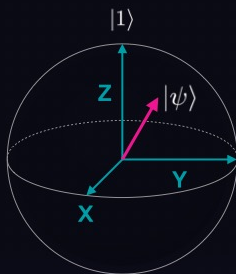
# What makes it work.

## TWO LEVEL QUANTUM MECHANICAL SYSTEM

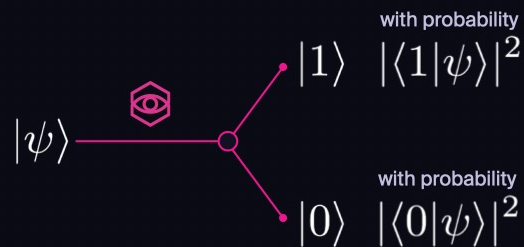


## ALLOWS FOR SUPERPOSITIONS

$$|\psi\rangle = \alpha|0\rangle + \beta|1\rangle$$

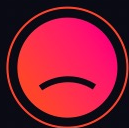


## MEASURING SUPERPOSITIONS GIVES PROBABILISTIC OUTCOMES





# Where are we at today?



Pessimists



QUANTUM IN

7 Years



Optimists

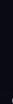


QUANTUM IN

3 Years



Realists



PREPARING

Today





# Quantum Milestones & Timing



# Its finally arrived...



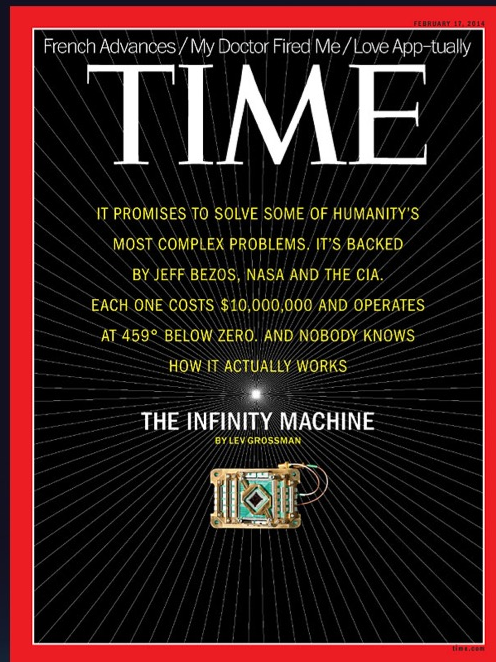
February 13th 2023



# Its finally arrived... again!



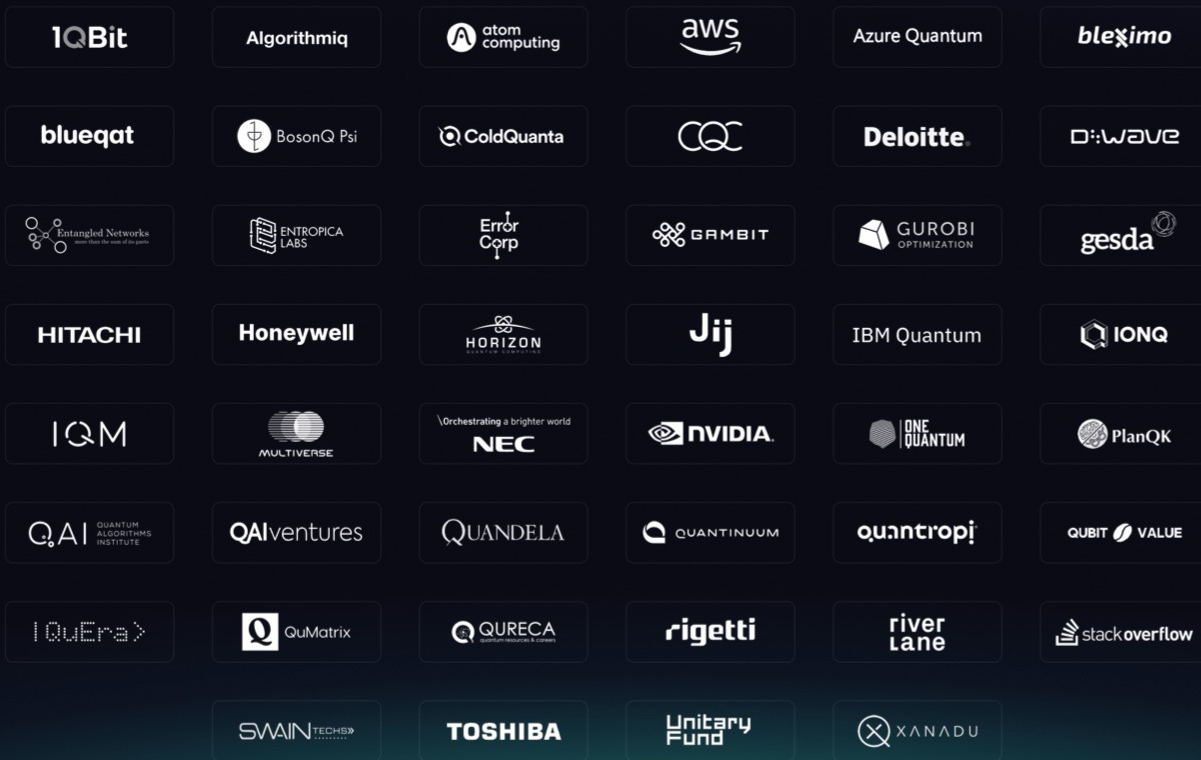
February 13th 2023



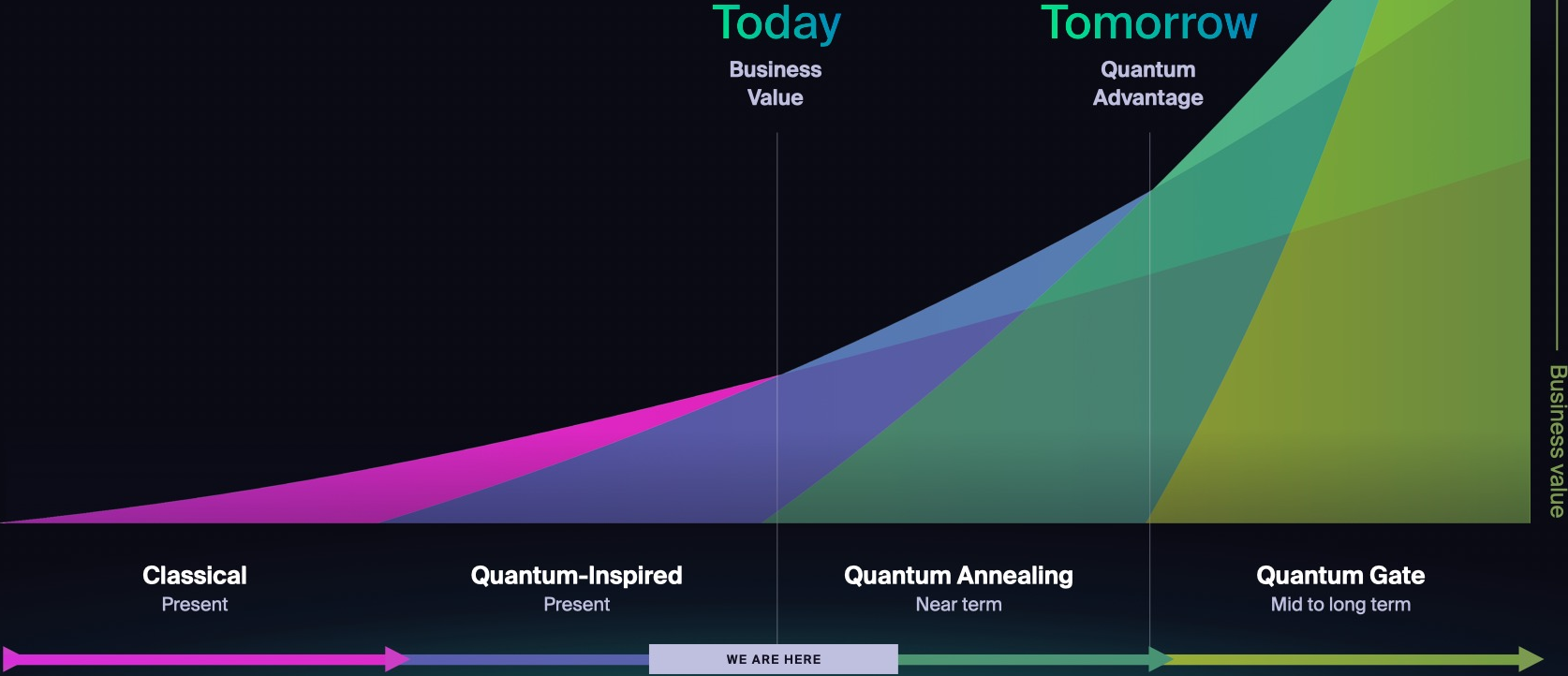
February 17th 2014



# Plenty of availability.



# Our current moment in time.





# Value for enterprises today.

## TYPICAL MENTALITY

### Quantum Advantage

When a quantum computer can *outperform a best-in-class existing solution*, or solves a problem that *no classical computer can*.

## ALTERNATE APPROACH

### Generate Value Today

Existing *quantum-inspired and quantum annealing technologies* are outperforming some classical solutions today.

## Quality of Result

An improvement of the result over a classical implementation.

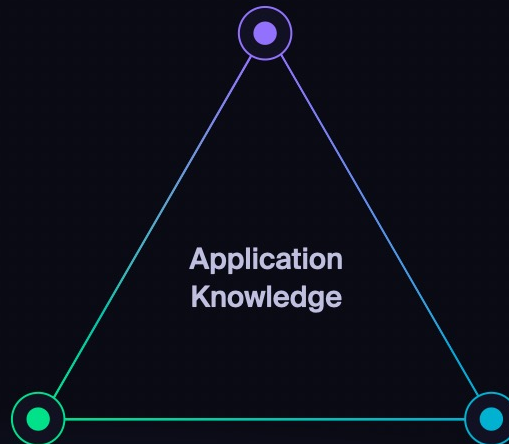
## Application Knowledge

## Cost of Computation

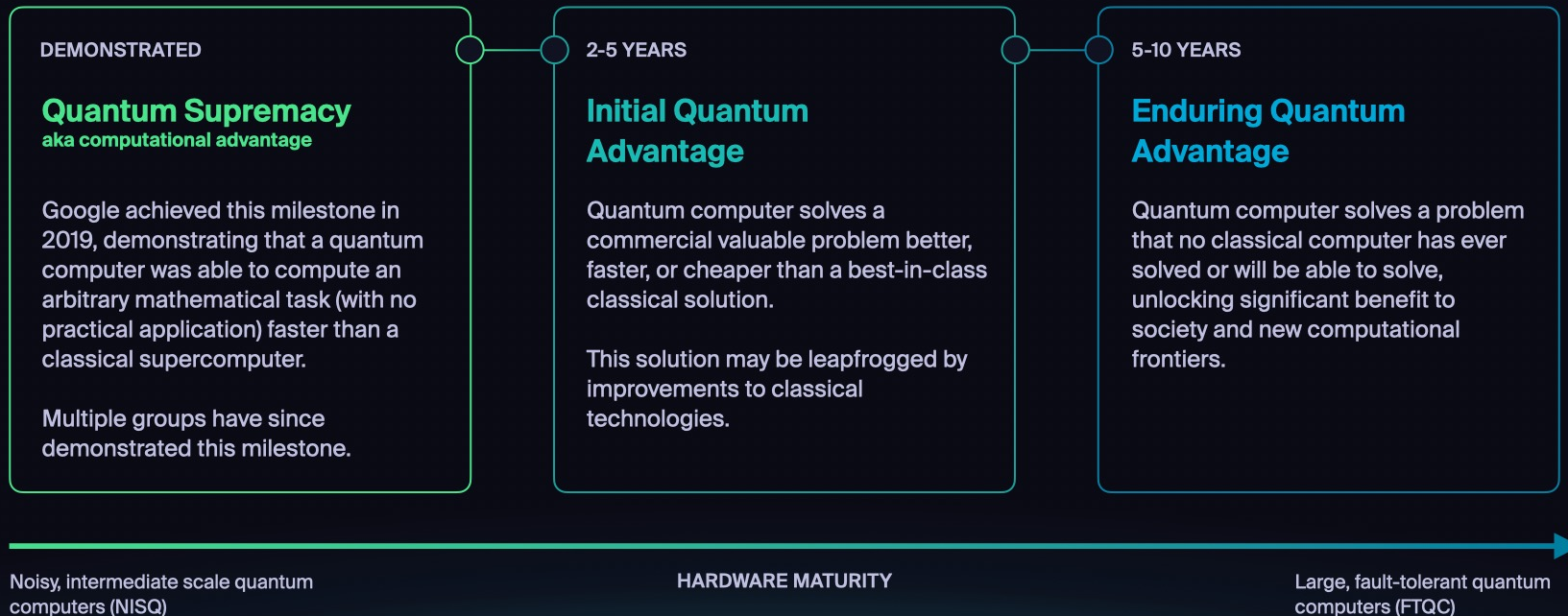
A reduction in the existing expense of compute resources or reducing existing cost of processing.

## Speed of Execution

A speed up in the time taken to get the same result.



# Milestones to quantum advantage.



# Quantum & quantum-inspired technologies.

## CLASSICAL

### Quantum-inspired classical solutions

#### Q-Inspired Algorithms on CPUs/GPUs

Quantum-inspired algorithms are classical algorithms that classically emulate the essential quantum phenomena that provide a speedup.



#### Q-Inspired algorithms on special purpose HW

Hardware specifically designed to run combinatorial optimization problems leveraging quantum-inspired algorithms.



## QUANTUM

### Quantum computing technologies

#### Quantum annealers

Quantum annealing processors are special purpose machines designed to solve optimization problems by finding the minimum of an energy landscape.



#### Gate based quantum computers

Gate based quantum computers are universal machines that can theoretically solve all problems types by leveraging qubits and quantum gates to encode and process information. There are different modalities of these computers including: superconducting, trapped ion, photonics, and neutral atoms.



# Pure quantum Vs. Quantum-inspired.

## OPTIMIZATION USE CASES

### Pros

- Technology providing business value today
- Less expensive to use than quantum annealers
- Easier on-premise capability than quantum or HPC
- Limited workforce re-skilling needed compared to quantum
- Likely requires less energy than HPC for same output

### Cons

- Limited to solving optimization problems
- Likely to be ultimately replaced by quantum
- Faces exponential scaling challenges
- Potentially more expensive than classical

## QUANTUM COMPUTING TECHNOLOGIES

### Pros

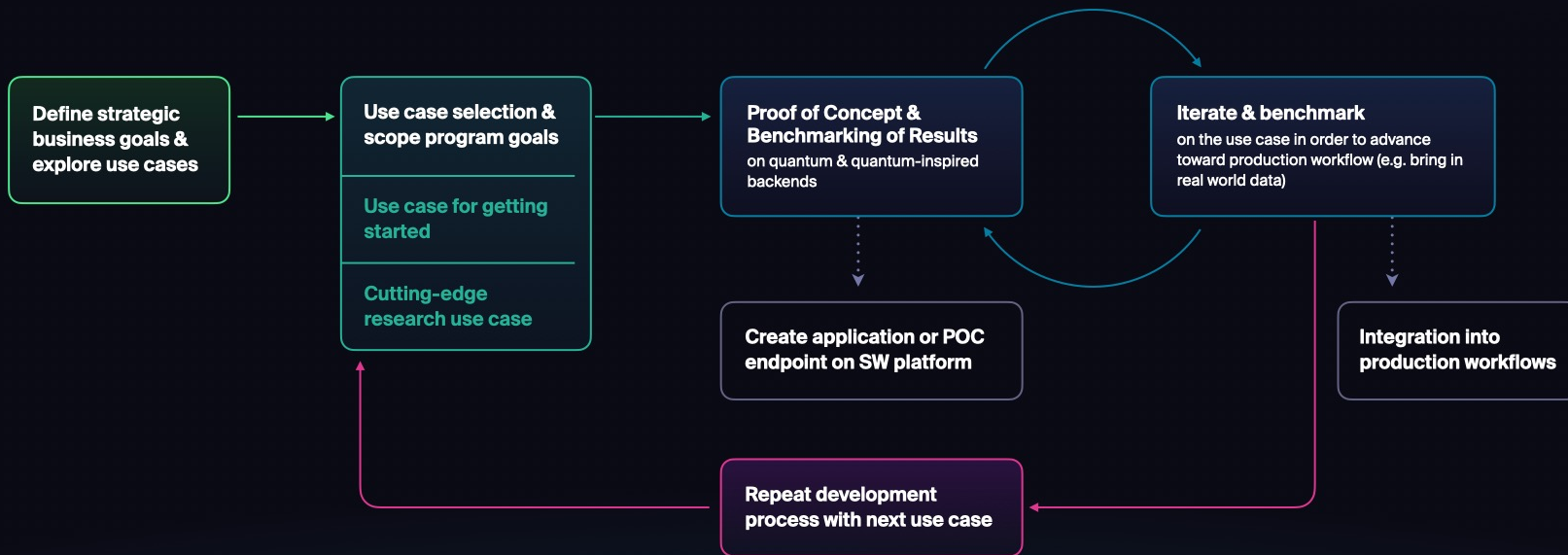
- Exponential speedup potential
- Solves problems that can't be solved today (unlocks new markets)
- Universal solver - more than optimization
- Diversity of hardware providers & modalities
- Requires less energy than HPC for same output

### Cons

- Not yet demonstrating business value (and unknown when)
- Limited problem sizes today
- Expensive to use
- High error rates compared to classical
- High barrier to re-skilling and/or building expertise



# The quantum 'fly wheel'.







# Quantum & The Kitchen Sink





# Quantum computing modalities.

	Adiabatic		Gate Based			
	 Quantum Annealing	 Trapped Ions	 Superconducting	 Photonics	 Cold & Neutral	 Silicon Spin
DESCRIPTION	Special purpose superconducting machines designed for optimization	Use naturally occurring ions as qubits, controlled with lasers & EMFs	Superconducting circuits create two-level systems as qubits	Use photons (particles of light) to perform quantum computations	Use neutral atoms trapped in lasers as qubits	Use the spin of electrons in silicon as the qubits
STRENGTHS	<ul style="list-style-type: none"> <li>• High gate speeds and fidelities</li> <li>• Comparatively well developed technology</li> </ul>	<ul style="list-style-type: none"> <li>• High fidelities</li> <li>• Long coherence times</li> <li>• High connectivity</li> </ul>	<ul style="list-style-type: none"> <li>• High qubit count</li> <li>• Fast gate speeds</li> <li>• Ease of manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>• Fast gate speeds</li> <li>• High fidelities</li> <li>• Cryogenic cooling not required</li> </ul>	<ul style="list-style-type: none"> <li>• High connectivity</li> <li>• Horizontal scaling potential</li> <li>• Cryogenic cooling not required</li> </ul>	<ul style="list-style-type: none"> <li>• High stability</li> <li>• Established semiconductor tech</li> </ul>
CHALLENGES	<ul style="list-style-type: none"> <li>• Requires cryogenic cooling</li> <li>• Short coherence times</li> <li>• Limited use case applicability</li> </ul>	<ul style="list-style-type: none"> <li>• Low qubit count &amp; scientific challenges to scaling not yet solved</li> <li>• Slow gate speeds</li> </ul>	<ul style="list-style-type: none"> <li>• Lower connectivity</li> <li>• Cryogenic cooling</li> </ul>	<ul style="list-style-type: none"> <li>• Noise from photon loss</li> <li>• Each program requires own chip</li> <li>• Realizing universal gate sets</li> </ul>	<ul style="list-style-type: none"> <li>• Slow gate speeds and low fidelities</li> <li>• Laser scaling challenges</li> </ul>	<ul style="list-style-type: none"> <li>• Requires cryogenics</li> <li>• Only a few entangled gates today with low coherence times</li> </ul>





# Key hardware players.



**Trapped Ions**

QUANTINUUM IONQ Universal Quantum

**Superconducting**

IBM Quantum Google rigetti Baidu OQC Amazon Braket

**Photonics**

PsiQuantum XANADU QUANDELA

**Silicon Spin**

intel Silicon Quantum Computing QUANTUM MOTION

**Cold & Neutral Atoms**

PASQAL IQEra ColdQuanta

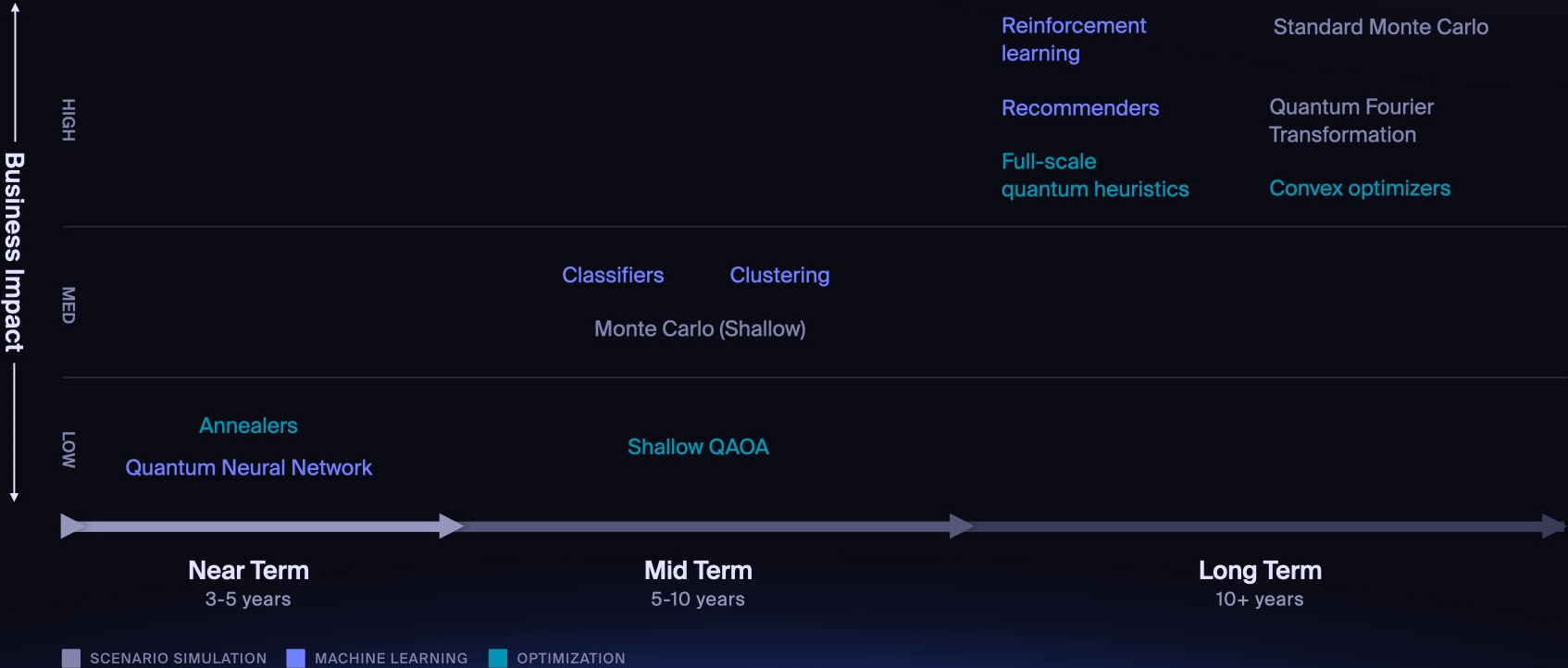


# Quantum algorithm categories.

	DESCRIPTION	COMMON PROBLEM TYPES
<b>Combinatorial Optimization</b>	Evaluate a large number of combinations to find the minimum or maximum of a function while satisfying constraints. Incorporate more variables and solve hard, constrained problems faster	<ul style="list-style-type: none"><li>• Traveling salesperson (ie. shortest route between cities)</li><li>• Knapsack problem (ie. total weight below limit)</li><li>• Job shop problem (ie. multiple jobs on one machine)</li><li>• Work shift (ie. employee scheduling)</li></ul>
<b>Machine Learning</b>	Integrate quantum algorithms with ML problems, typically expressed as linear algebra. Improve predictive accuracy or speed up training times	<ul style="list-style-type: none"><li>• Classification and regression</li><li>• Supervised and unsupervised learning</li><li>• Reinforcement and deep learning</li><li>• Natural language processing</li></ul>
<b>Simulation</b>	Simulate large quantum mechanical systems, typically expressed as differential equations. Model larger systems exponentially faster than classical computers	<ul style="list-style-type: none"><li>• Molecular simulation</li><li>• Computational fluid dynamics</li></ul>
<b>Cryptography</b>	Solve factorization exponentially faster than classical to break protocols at the heart of asymmetric encryption	<ul style="list-style-type: none"><li>• Factorization</li></ul>



# Quantum algorithms timeline.

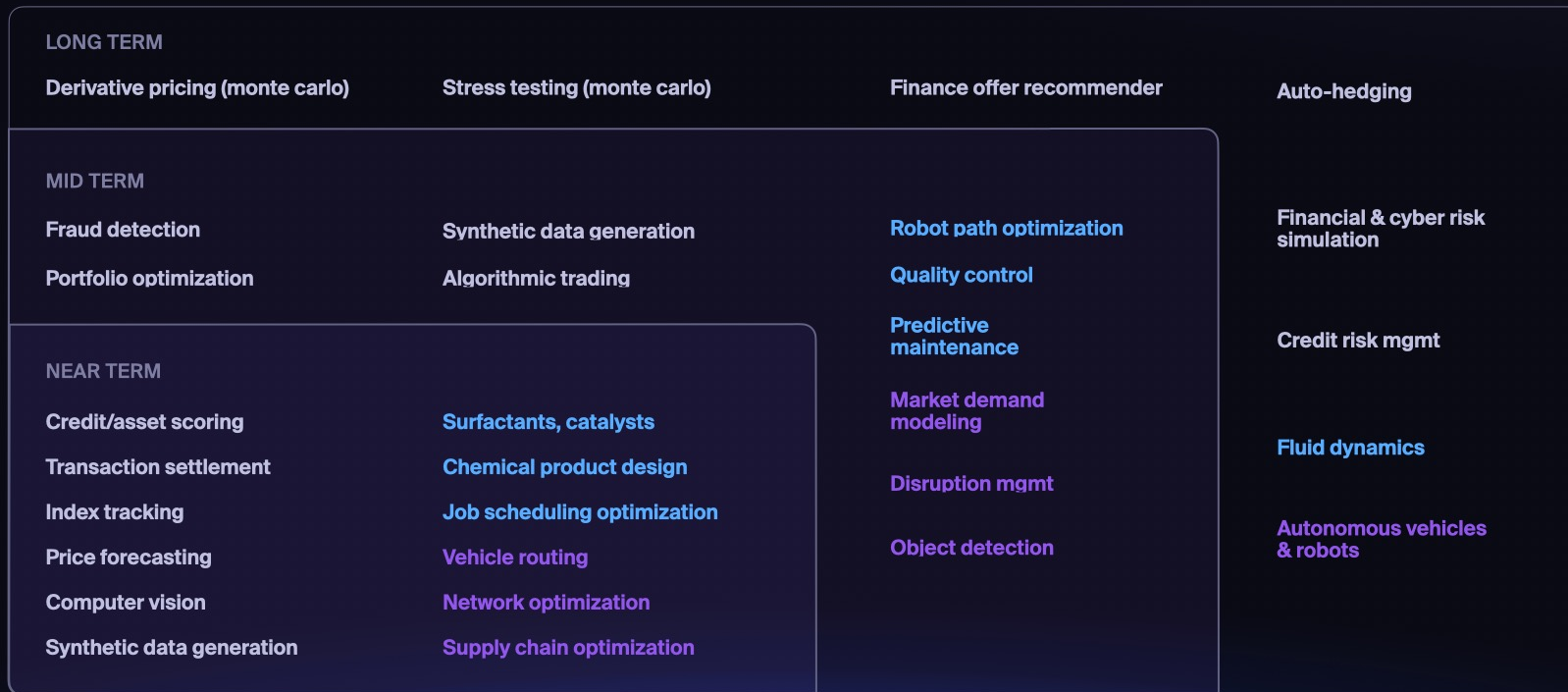


# Cross industry use cases.

Optimization	Machine Learning	Simulation	Cryptography
Finance: Portfolio optimization <b>\$20-50B</b>	Automotive: Automated vehicles, AI Algorithms <b>\$0-10B</b>	Pharma: Drug Discovery <b>\$40.8B</b>	Government: Encryption and Decryption <b>\$20-40B</b>
Insurance: Risk management <b>\$10-20B</b>	Finance: Anti-fraud, anti-money laundering <b>\$20-30B</b>	Aerospace: Fluid dynamics <b>\$10-20B</b>	
Logistics: Network operation <b>\$50-100B</b>	Tech: Search/ads optimization <b>\$50-100B</b>	Chemistry: Catalyst design <b>\$20-50B</b>	Corporate: Encryption and Decryption <b>\$20-40B</b>
Aerospace: Route optimization <b>\$20-50B</b>	ML apps to impact most, if not all, industries	Energy: Solar conversion <b>\$10-30B</b>	
		Finance: Market simulation <b>\$20-35B</b>	



# Use cases expanded.

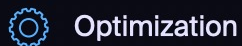


FINANCE
  MANUFACTURING
  LOGISTICS



# Near term opportunity: Optimization

## Optimization



Optimization

## Quantum Annealing Hardware



Optimization



Machine Learning

## Quantum Gate Based Hardware



Optimization



Machine Learning



Simulation



Cryptography

### OPTIMIZATION USE CASES

**Combinatorial optimization:** Find a combination which provides maximum or minimum value of an evaluation function from a large number of variables while satisfying constraints. Typical problems: Traveling salesman, knapsack problem, job shop problem, work shift problem, etc.

- Inventory Management
- Portfolio Optimization
- Route Scheduling
- Shift Scheduling
- Robot Path Optimization
- Supply Chain Optimization
- Improving Drug Discovery
- Manufacturing Cycle Optimization





A photograph of an airport terminal during the day. The scene is dominated by a long, empty row of dark metal airport-style seats in the foreground and middle ground. In the background, there are several large digital flight information display screens (FIDS) showing flight details. The terminal has a high ceiling with a complex structural grid and large windows on the right side that let in bright sunlight, creating long shadows on the polished floor. The overall color palette is warm, with a gradient from dark blue on the left to bright orange and yellow on the right.

# Examples of Value today Optimization





\Orchestrating a brighter world

**NEC**

Production Planning Optimization  
**Multi-Product  
Manufacturing**





**TOSHIBA**

High Frequency Trading  
**Fast Detection of  
Mispricings**



**HITACHI**

Insurance Underwriting  
**Natural Disaster  
Risks**







D:WAVE

Maximizing Reach  
**Television Ad  
Scheduling**





Global Supply Chain Optimization  
**Materials Campaign  
Scheduling**

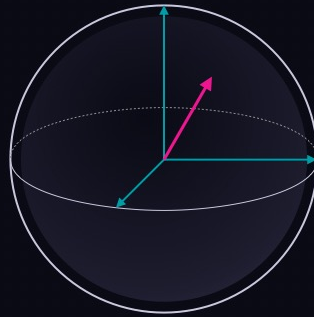




# Quantum Fact vs. Fiction



# Fiction 1 : Superposition is 'Everything'

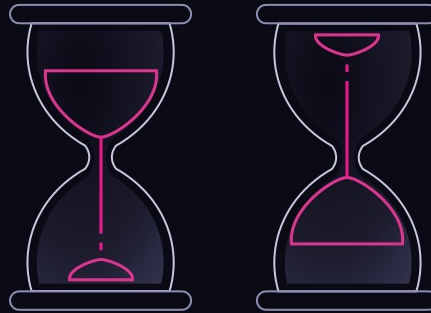




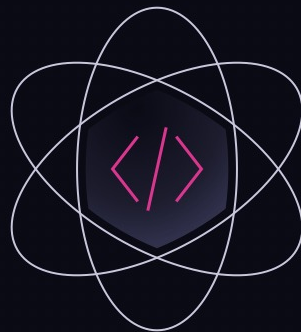
# Fiction 2 : Quantum mines bitcoin faster



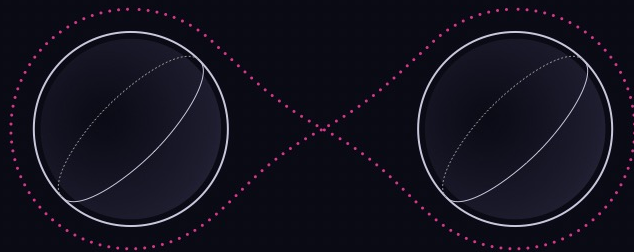
# Fiction 3 : Teleportation = Time Travel



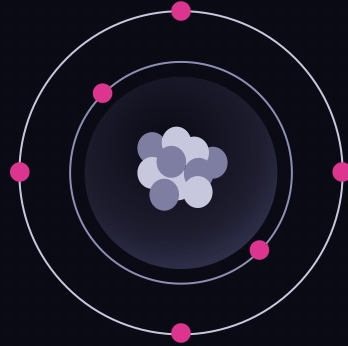
# Fact 1 : Developers face a learning curve.



# Fact 2 : Entanglement rules the day.



# Fact 3 : It's a new era in computing.

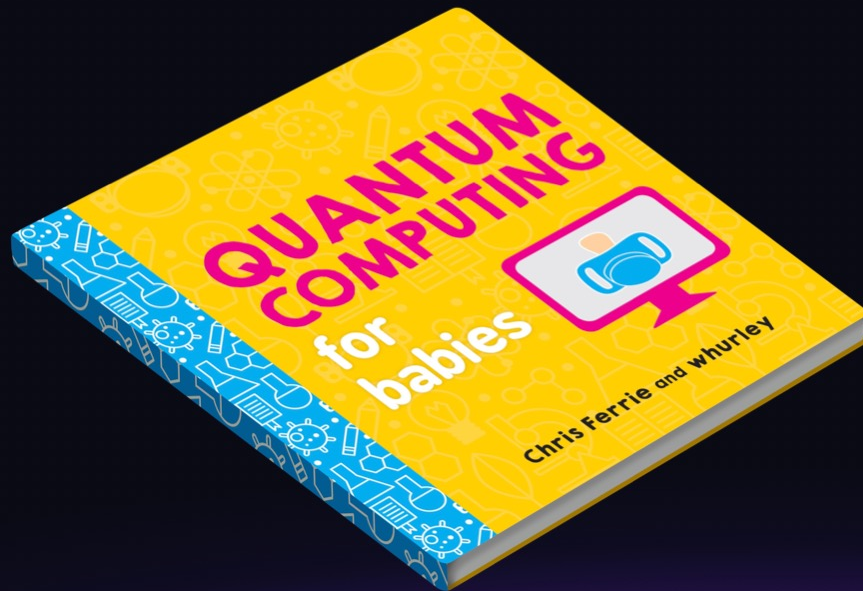




# Learning More



# Quantum Computing for Babies.

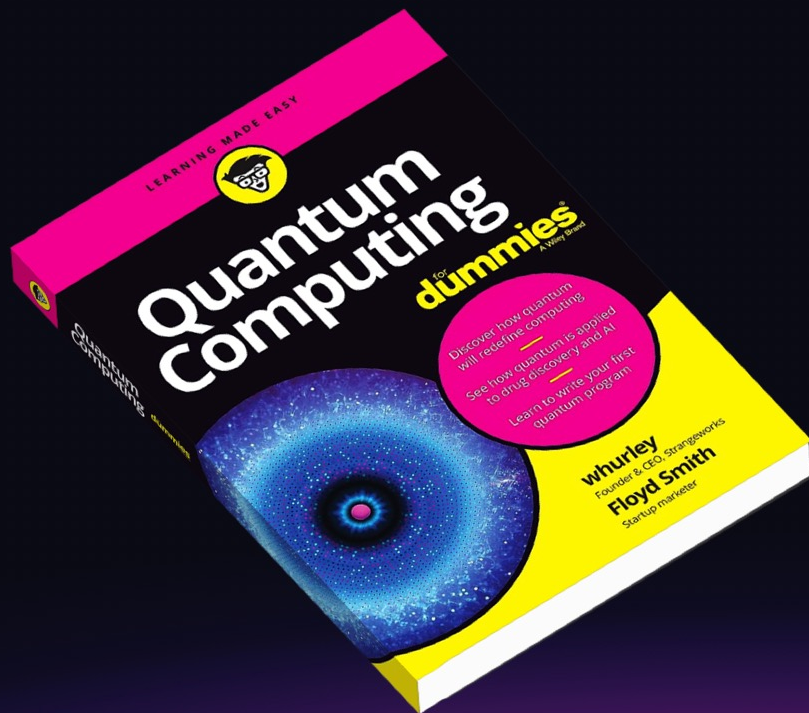


GET THE BOOK





# Quantum Computing for Dummies.



GET THE BOOK





Thank you.



# Global Energy Trends & Transitions Q&A



**William 'whurley' Hurley**  
CEO and Founder  
**Strangeworks**

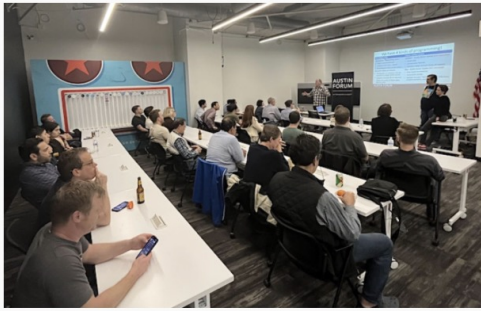


**Art Valentine**  
Director, Linux & Firmware  
Development, **IBM**

# Donate Your Unused Tech!

- If you have computers, tablets, or smartphones no longer being used, please help those in need
- Bring your devices to any in-person event, and we'll donate to our worthy charities!





September 13, 2023

# Austin AI Ecosystem Initiative: Decisions & Formation Meeting

6:30 p.m. CDT | **In-person**

[REGISTER](#)

## Location

**In-person**

Capital Factory, Voltron Room

701 Brazos Street Austin, TX 78701

## Agenda

6:30 - 8:00 p.m. | **Discussion**

## Moderator

**Jay Boisseau**, Executive Director, Austin Forum on Technology & Society

## Event Summary

This is the third meeting for Austin AI professionals, companies, and organizations to discuss the formation of an Austin AI Ecosystem Initiative, including the opportunities, scope, possible goals, and more. The first meeting in April 2023 covered the reasons for coming together, potential benefits, and potential goals and benefits. The second meeting on July 27 will discuss and draft priorities and goals, governance and participation models, and working groups and communications. This third meeting in September 2023 is for stakeholders to make decisions on these topics. The **Austin Forum on Technology & Society**, a longstanding technology non-profit (501c3), hosted the first and second meetings



September 28, 2023

## Discussion of "We Are Legion (We Are Bob)"

7:15 p.m. CDT | **Online**

[REGISTER](#)

### Location

**Online**

Zoom (register for event to receive link)

### Agenda

7:15 - 8:30 p.m. | **Discussion**

### Moderator

**Julie Tomlin**, Event Coordinator, [Austin Forum on Technology & Society](#)

### Event Summary

Join us for an upcoming book club event featuring 'We Are Legion (We Are Bob)' by Dennis E. Taylor. Delve into the sci-fi journey of Bob Johansson, an engineer turned AI who finds himself uploaded into a Von Neumann probe after his untimely demise. As he explores the universe, replicating himself and encountering various challenges, he transforms into a legion of Bobs, each with a unique personality and





October 3, 2023

# The Technologies, Applications, and Future of 3D Printing

6:15 p.m. CDT | **In-person** (including networking) and **Online** (Zoom)

[REGISTER](#)

## Location

### **In-person**

[Austin Central Library](#)

710 W. César Chávez St.  
Austin, TX 78701

### **Online**

On Zoom

(register for event to receive link)

## Agenda

**5:15-6:15 p.m.** Networking

**6:15-7:30 p.m.** Presentation

**7:30-7:45 p.m.** Q&A

**8:00 p.m.** Networking at [Trifecta](#)

## Speakers

**Leslie Bush**, Metal 3D Printing Applications Engineer, [EOS](#)

**Samantha Snabes**, Co-founder, [Re:3D](#)

**Melodie Yashar**, VP of Building Design & Performance, [ICON](#)

**AUSTIN FORUM**

ON TECHNOLOGY & SOCIETY

[www.austinforum.org](http://www.austinforum.org)

# Join Us for More Great Content in 2023

- **Schedule posted at [www.austinforum.org](http://www.austinforum.org)**
- Additional presentation topics for 2023 will include
  - 3D printing everything
  - Digital privacy, trust, ethics debate
  - Gaming and e-entertainment
  - Cybersecurity
  - Health & precision medicine
  - and more!



## **Plus:**

- New podcast episodes **now**
- In-person meetups
- Online book discussions

# Join us to learn, share, discuss!!



*Please share the upcoming events with your friends  
and colleagues!*

# Austin Forum Team!



Jay Boisseau  
Executive Director



Allison Warner  
Logistics



John Lockman  
Tech Director



Mary Garza  
Web/UX Designer



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Operations



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	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
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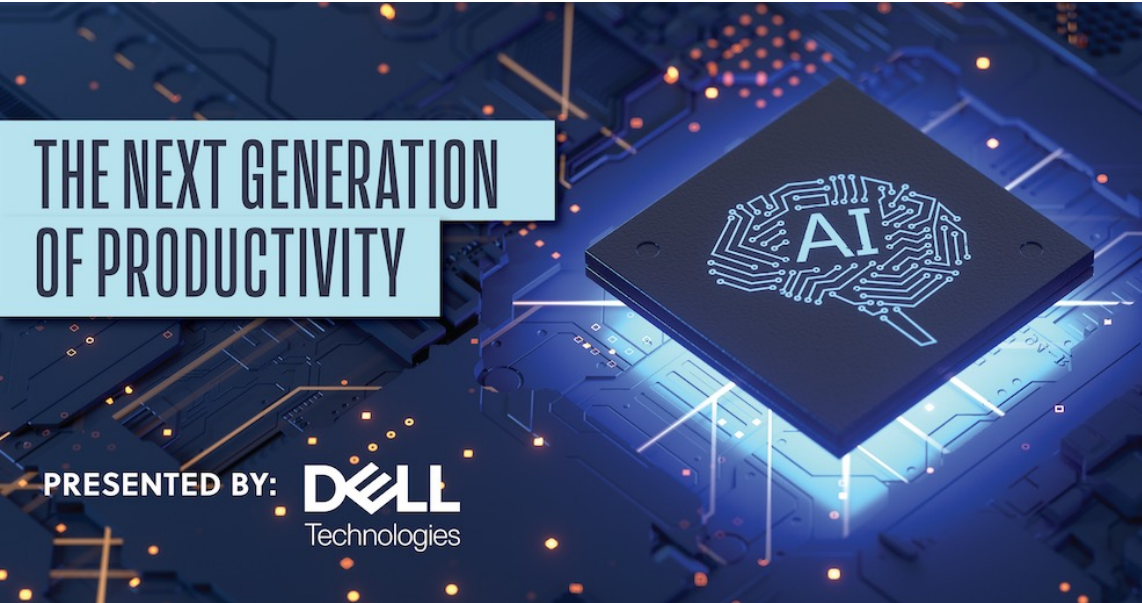
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