STRANGEWORKS

The Power of a Billion Minds

While building the future of compute.

whurley
Founder & CEO | Strangeworks

Our world has problems.

Pandemics that shut down the world.

$8.2T

estimated loss of output due to global recession caused by pandemic.

FINANCIAL TIMES

The rising threat of deadly diseases jumping from animals to humans

The Guardian

Future pandemic as big as Covid is inevitable, says Whitty

REUTERS

Big Pharma lacks motive to prep for new pandemics

CNN

Is bird flu the next pandemic? What to know after the first H5N1 case in the US

Source: World Bank Group

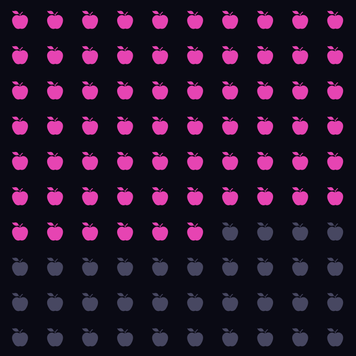
A climate that is burning, drowning, and drying.

50%

CO2 increase since pre-industrial times due to human activities.

Source: Cambridge University Press

The silent collapse of Africa’s food supply.



34%

decrease in agricultural production across Africa.

FURTHER AFRICA

Agricultural productivity in Africa declines 34%

The INDEPENDENT

Climate change has reduced agricultural productivity by 34 percent in Africa

The Economist

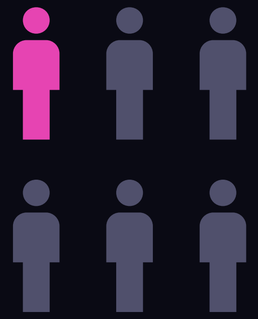
Africa has plenty of land. Why is it so hard to make a living from it?

WORLD ECONOMIC FORUM

Why science is key in Africa's agricultural transformation

Source: 2022 IPCC

Disease, a war we’re still losing.



1 in 6

deaths is
caused by cancer.

The Economist

Why cancer has not been cured

TIME

The Race to Explain Why More Young Adults Are Getting Cancer

HARVARD medicine

The Limits of Computer Vision, and of Our Own

USA TODAY

50 years after the US declared war against cancer, the fight continues

Source: American Cancer Society

An energy appetite we can’t satisfy.

50%

increase in the world’s energy consumption by 2040.

The Economist

The world’s energy system must be transformed completely

Goldman Sachs

AI is poised to drive 160% increase in data center power demand

The Guardian

Fossil fuel use reaches global record despite clean energy growth

WORLD ECONOMIC FORUM

Surge in global energy demand growth, and more top energy stories

Source: EIA.gov

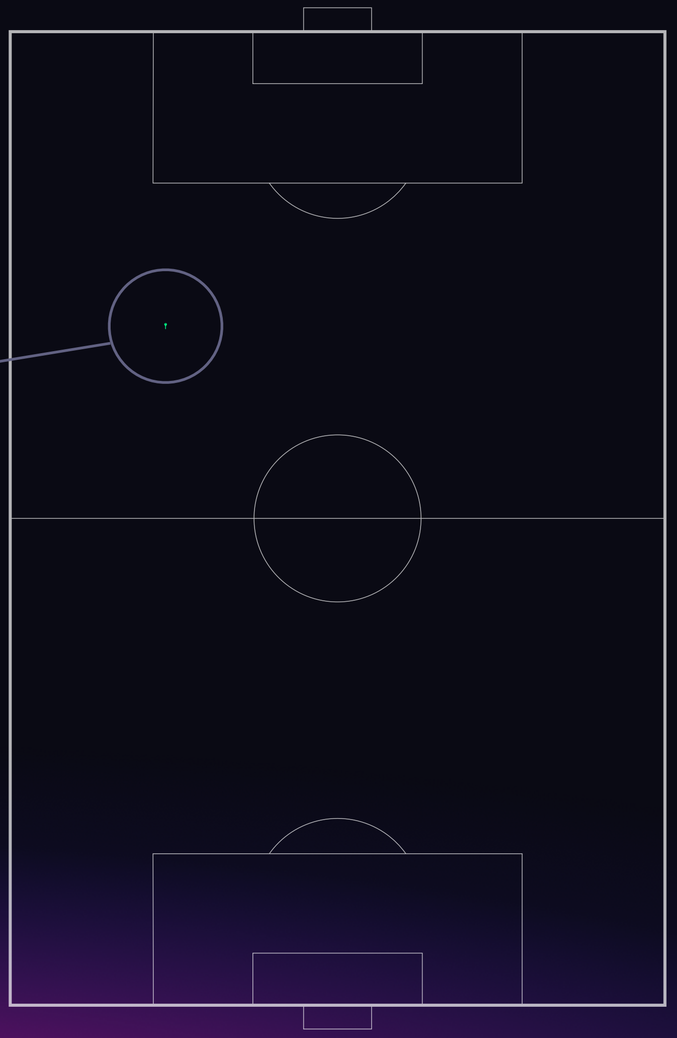
And a shortage of scientists.

Less than

0.1%

of the population are scientists and researchers.

That’s the length of your house key vs the length of a football pitch.



Our challenges are complex, their computation is intractable.

We’d like to propose a solution.

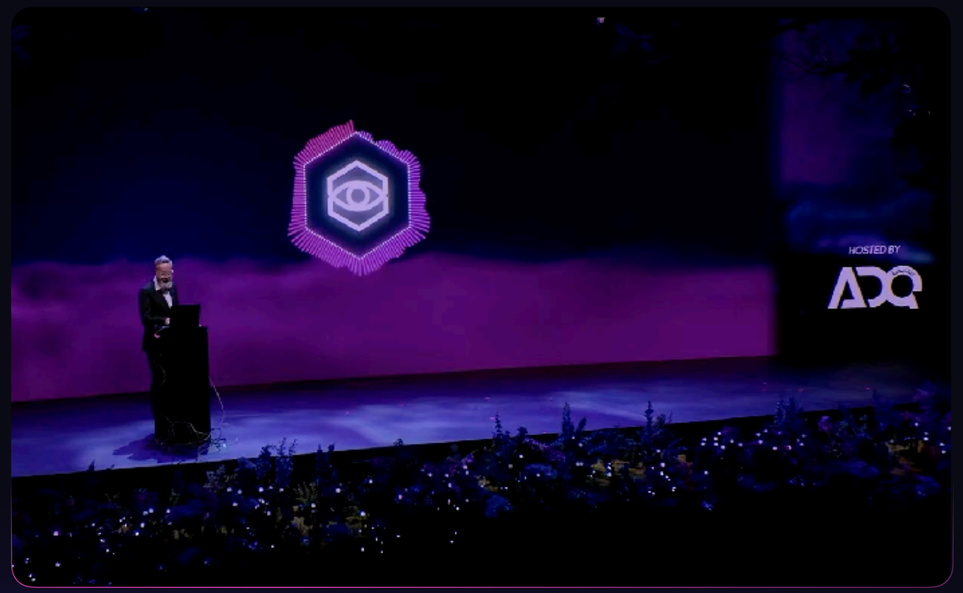
From playgrounds to particle physics.

Dubai Future Forum

NOV 2023

Expanse Abu Dhabi

NOV 2024



More scientists, more solutions.

Condorcet's Jury Theorem

1785

This theorem highlights the power of group decision making by stating that as the size of a group increases, the probability that the majority's choice is correct approaches certainty, assuming each member's decision is better than random. It underscores the importance of group size, independence, and diversity in enhancing the accuracy of collective decisions.

Law of Large Numbers

1837

This principle explains that the average result of repeating the same experiment many times will converge to the expected value, improving in accuracy with the number of trials. In the context of crowd wisdom, it suggests that larger crowds can provide more accurate aggregate predictions or estimations due to this statistical phenomenon.

Diversity Prediction Theorem

2007

Formulated by Scott E. Page, this theorem provides a mathematical justification for why diversity within a crowd improves its collective decision-making ability. It reveals that the collective error decreases as the diversity of individual predictions increases, assuming there's no systematic bias, thereby enhancing the crowd's accuracy through diverse viewpoints.

Let’s take advantage of the “Wisdom of the crowds”.

The state of artificial intelligence.

The state of the quantum computing.

Exaggerated claims but good science.

89

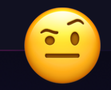
“World’s _____”

72

“Ground breaking”

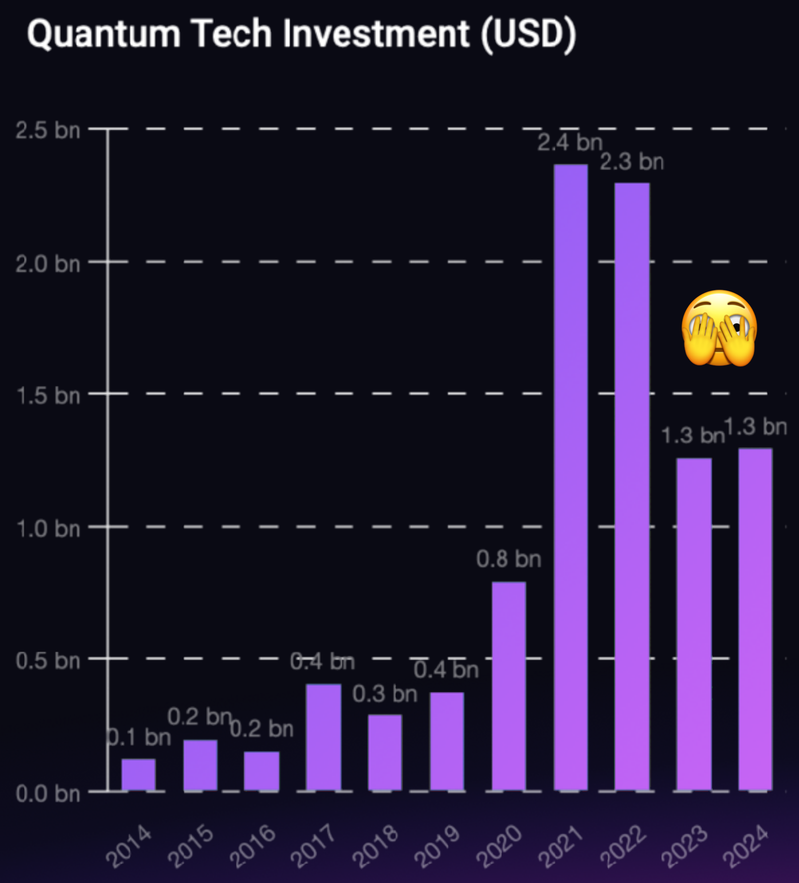
57

“Industry leading”



Scanning quantum news from the past year

A dramatic downturn in funding.



WIRED

Revolt! Scientists Say They're Sick of Quantum Computing's Hype

Forbes

Quantum Computing: The Next Frontier Or A Hype-Filled Bubble?

cybernews

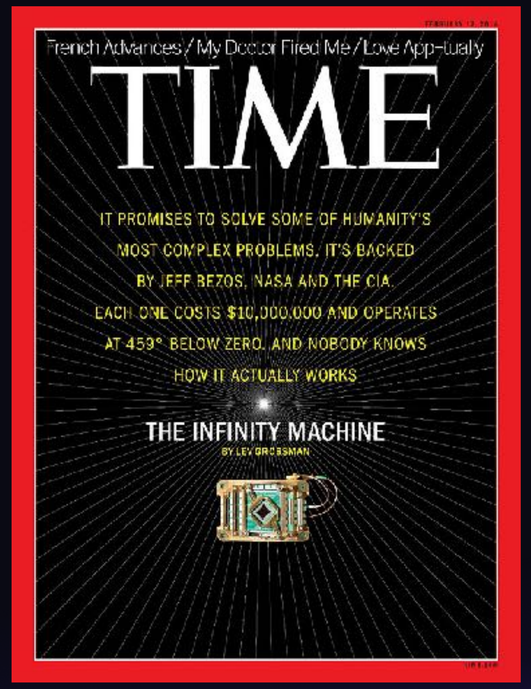
Race to quantum future: have you mounted a horse or a goat?

TECHMONITOR

VC quantum computing investment crashed by 50% in 2023

Quantum computing’s current phase.

FEB
2014



FEB
2023

FEB
2025

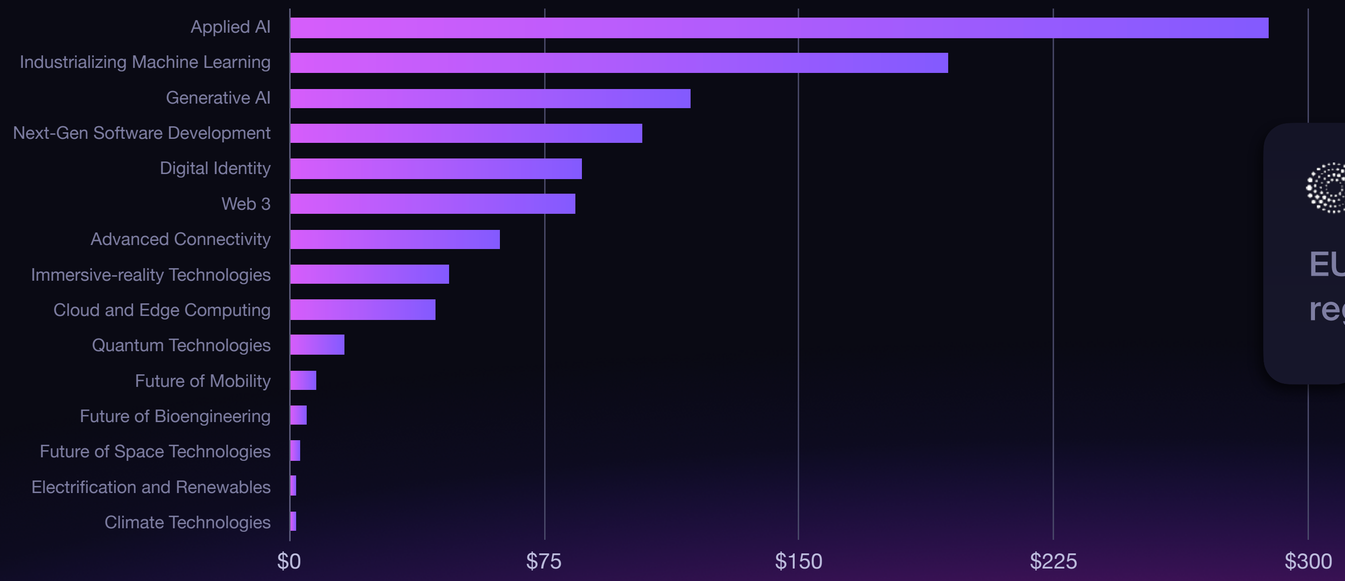
Quantum is science.

Science is business.

No more Instagrams and OnlyFans.

20%

of venture capital funding is now in deep tech Up from 10% a decade ago



TechCrunch

Deep tech exits: Not just science fiction anymore

Capgemini

Deep tech for climate action: Balancing long-term innovation and urgency

REUTERS

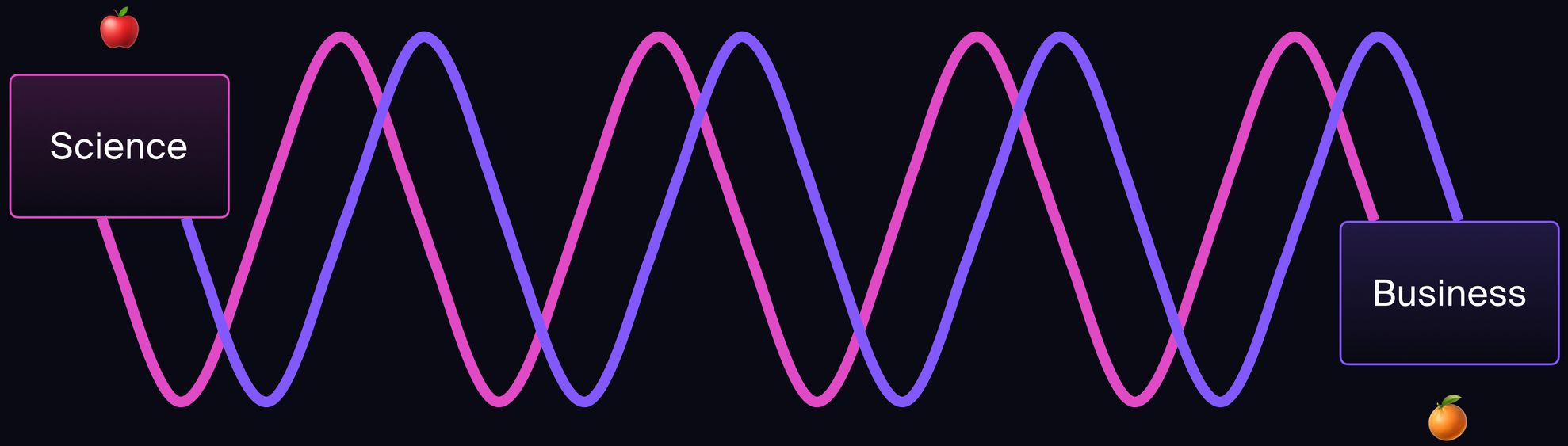
EU to invest $1.5 billion in region's deep tech sector

LDN LONDON DAILY NEWS

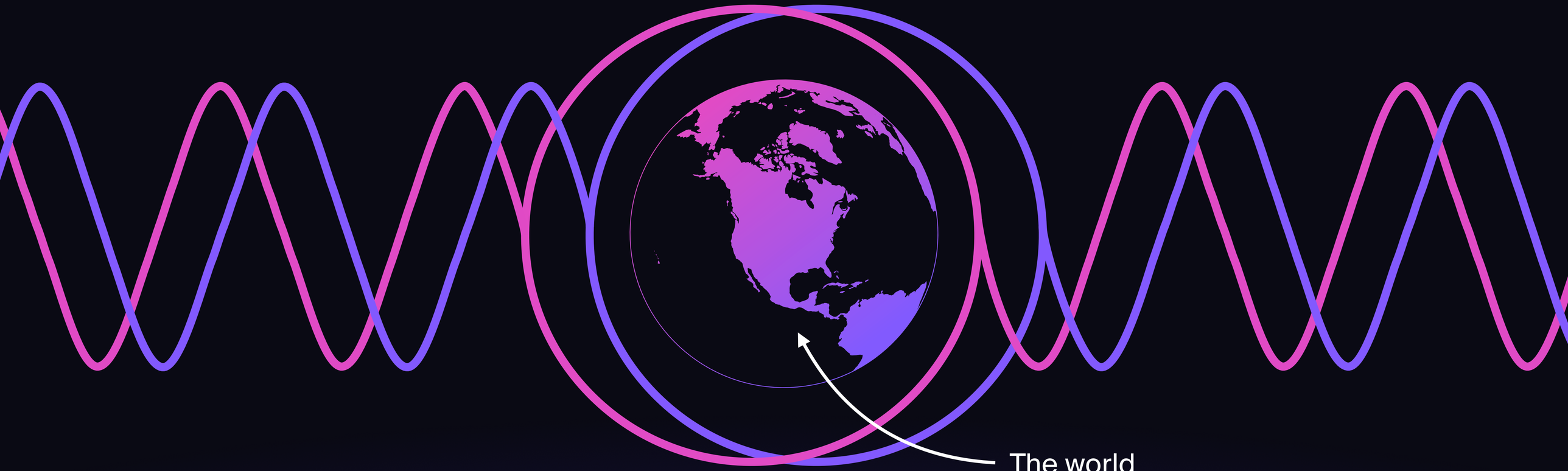
Industry leaders look to Quantum to transform operations

bcg.com/publications/2023/deep-tech-investing

But we’re still out of sync.



And it’s not just with business.



So what does quantum need?

But quantum needs to...

- Be intuitive and easy to use.
- Be flexible enough to work the way you work.
- Understand the context of what your working on.
- Be secure, you must control your data and intellectual property.
- Have access to the world’s most powerful algorithms.

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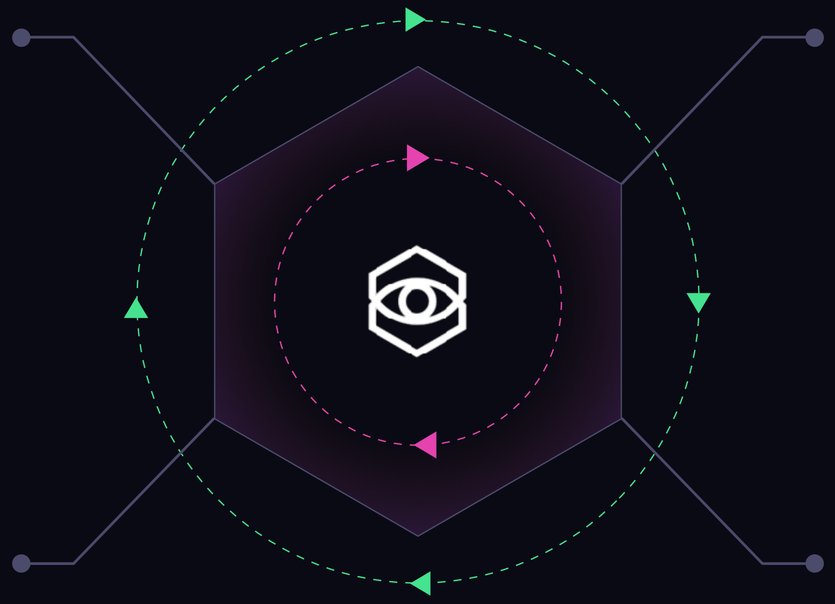
😉 90

The focus should be on...

- Research & Discovery
- Problem Design & Formulation
- Analysis & Reporting
- Job Execution



Strangeworks Workflows

combines AI and quantum computing to accelerate the transition from research to revenue.

Our very strange stack.

Experts

AI agents and humans working to help you research and formulate your solutions.

Technology

Including AI tools and assistants to accelerate the adoption of technology and generate solutions.

Partners

The largest collection of hardware & software compute from classical, quantum-inspired and quantum.

Schrödy + Human Interface

@ Hi there, can you help me work on my _

Agentic Services + Copilots

- QUBO BUILDER
- MPS BUILDER
- LP BUILDER
- QUERA ASSISTANT
- IONQ ASSISTANT
- TOSHIBA ASSISTANT
- DATA RESEARCHER
- DATA ANALYST
- RESULTS QA ENGINE

Large Language Models

- OpenAI
- ANTHROPIC
- Gemini
- LLAMA
- OpenCV
- Keras

Infrastructure + Management

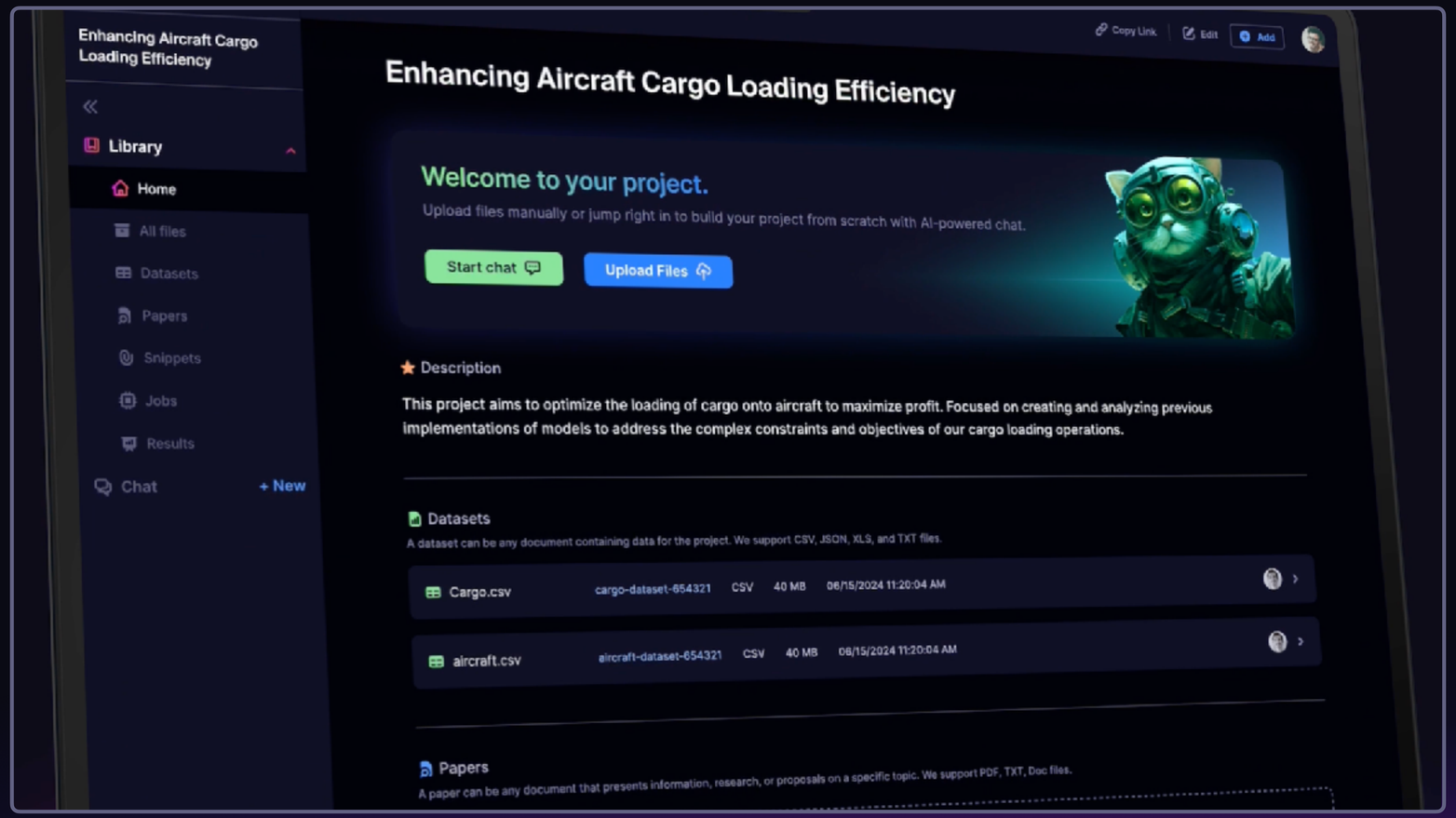
- AUTHENTICATION + SECURITY
- TEAM MANAGEMENT
- BILLING ENGINE
- 3RD PARTY APIS
- JOB MANAGEMENT
- REPORTING + ANALYSIS

Advanced Compute

- CPU
- QPU
- NPU
- GPU
- TPU
- QSIM
- aws
- NVIDIA
- D-Wave
- IBM Quantum
- rigetti
- OQC
- IONQ
- TOSHIBA
- NEC
- FUJITSU
- IQM
- GUROBI OPTIMIZATION
- QUANTINUUM
- Quantagonia
- HITACHI
- Jij

Strangeworks enables businesses to harness the untapped potential of advanced technologies to solve complex computational challenges, delivering measurable value now while positioning them to capitalize on rapid innovation.

Find the signal in the noise.



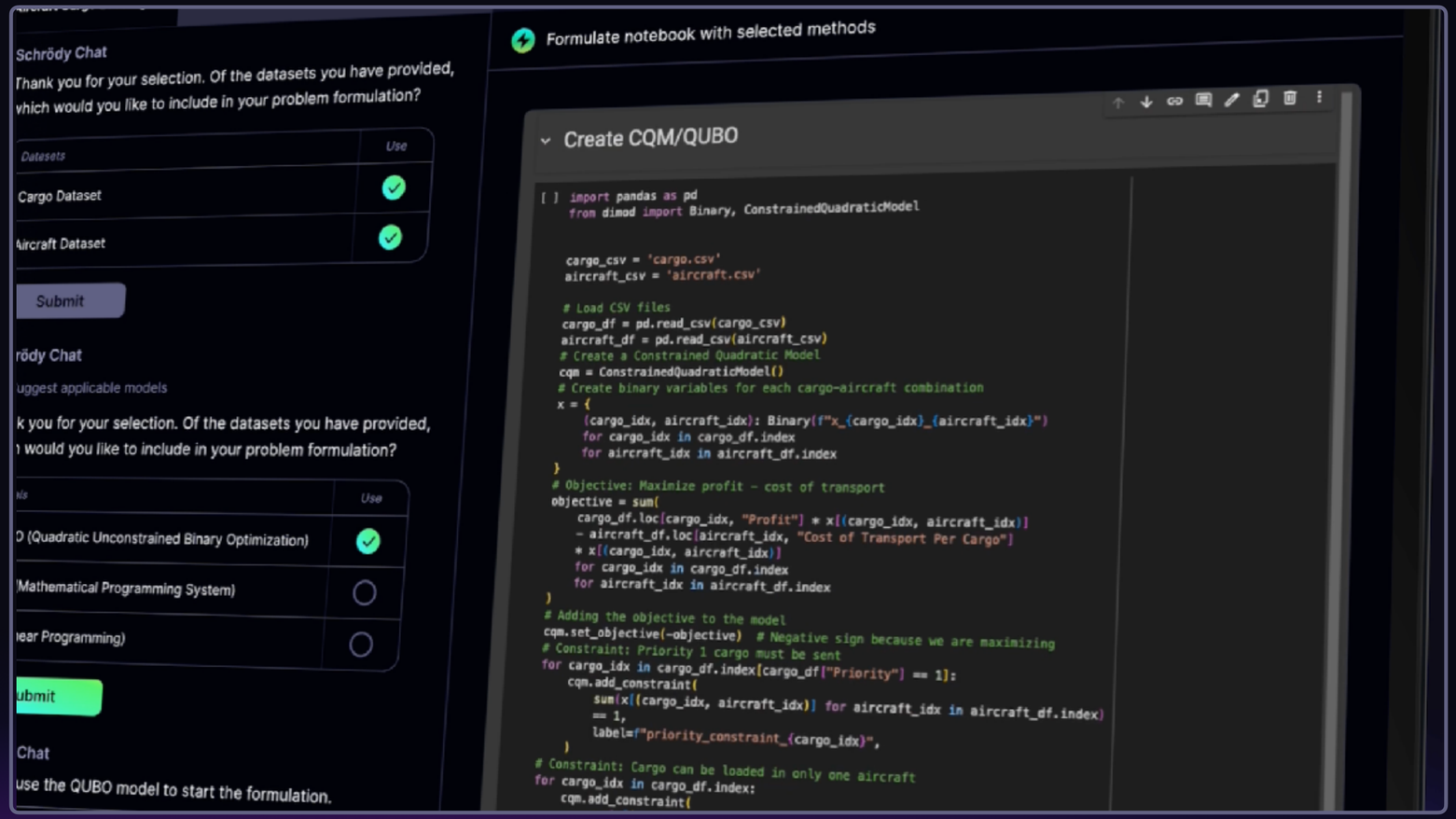
Research & Discovery

- Literature search and review.
- Paper summarization and analysis.
- Relevance scoring and method briefs.

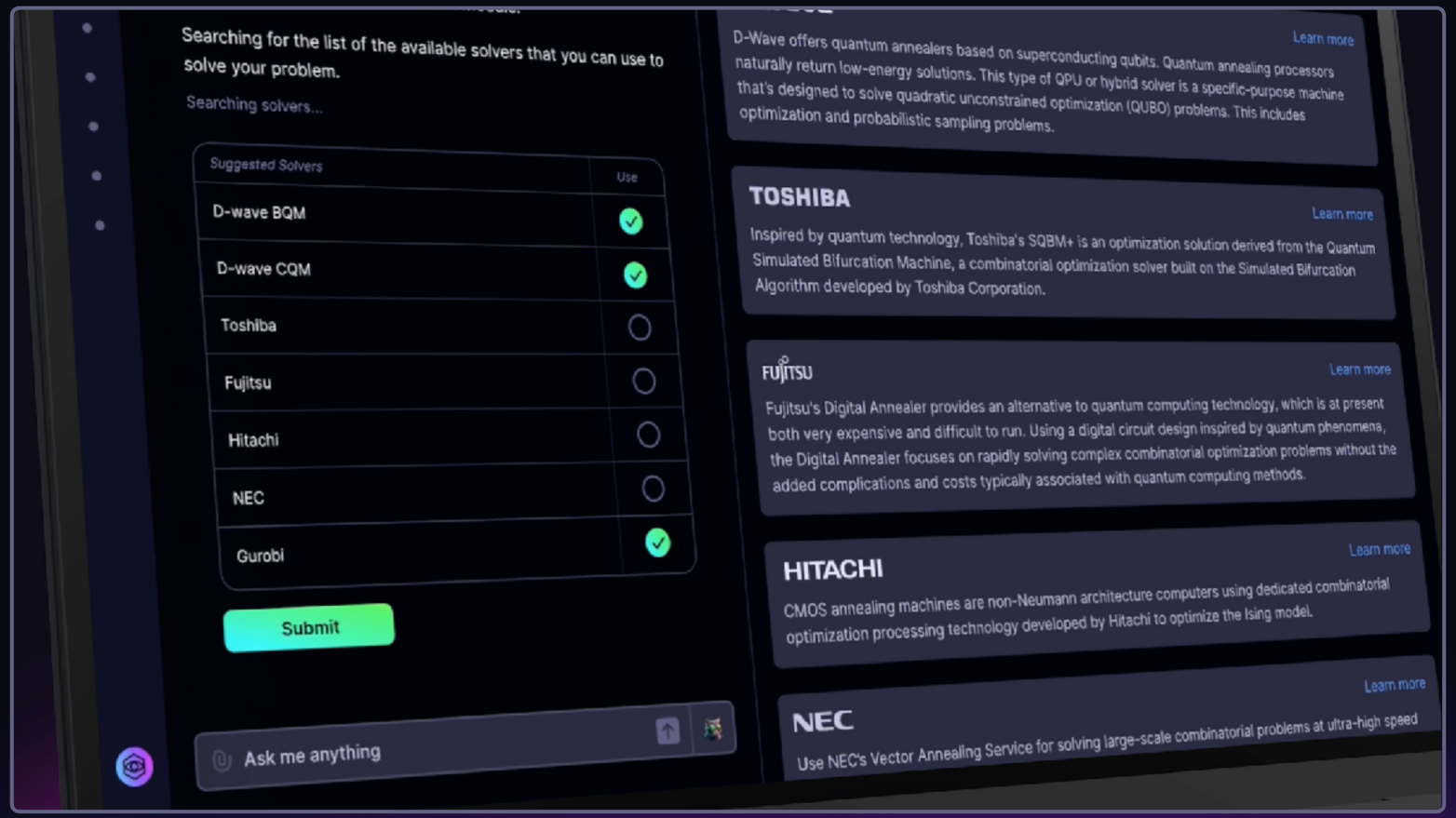
Turning conversation into code.

Problem Design & Formulation

- Copilot for problem design & formulation.
- Automated notebook and code creation.
- Rapid prototyping and iteration.
- Create and organize and data sets.



An execution machine.



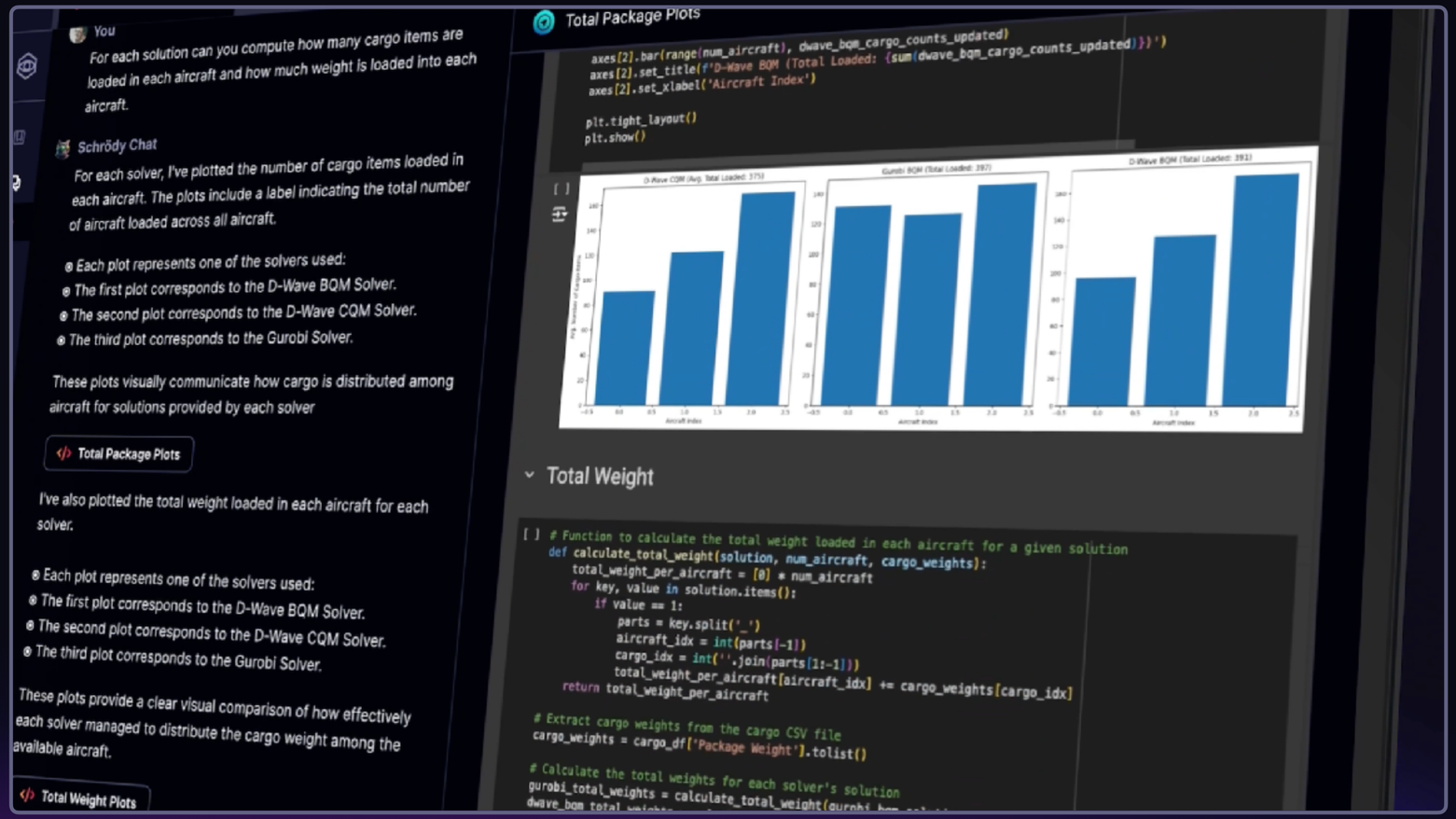
Job Execution

- Automated job submission through chat.
- Quantum, q-inspired, & classical solvers.
- Connect to Strangeworks applications.
- Job organization & data management.

Analysis without the paralysis.

Analysis & Reporting

- Conduct analysis with results via chat.
- Generate graphics & data visualizations.
- Automated customized report creation.



A billion minds innovating on the

future of humanity.

STRANGEWORKS

Thank you.

Email us
goquantum@strangeworks.com