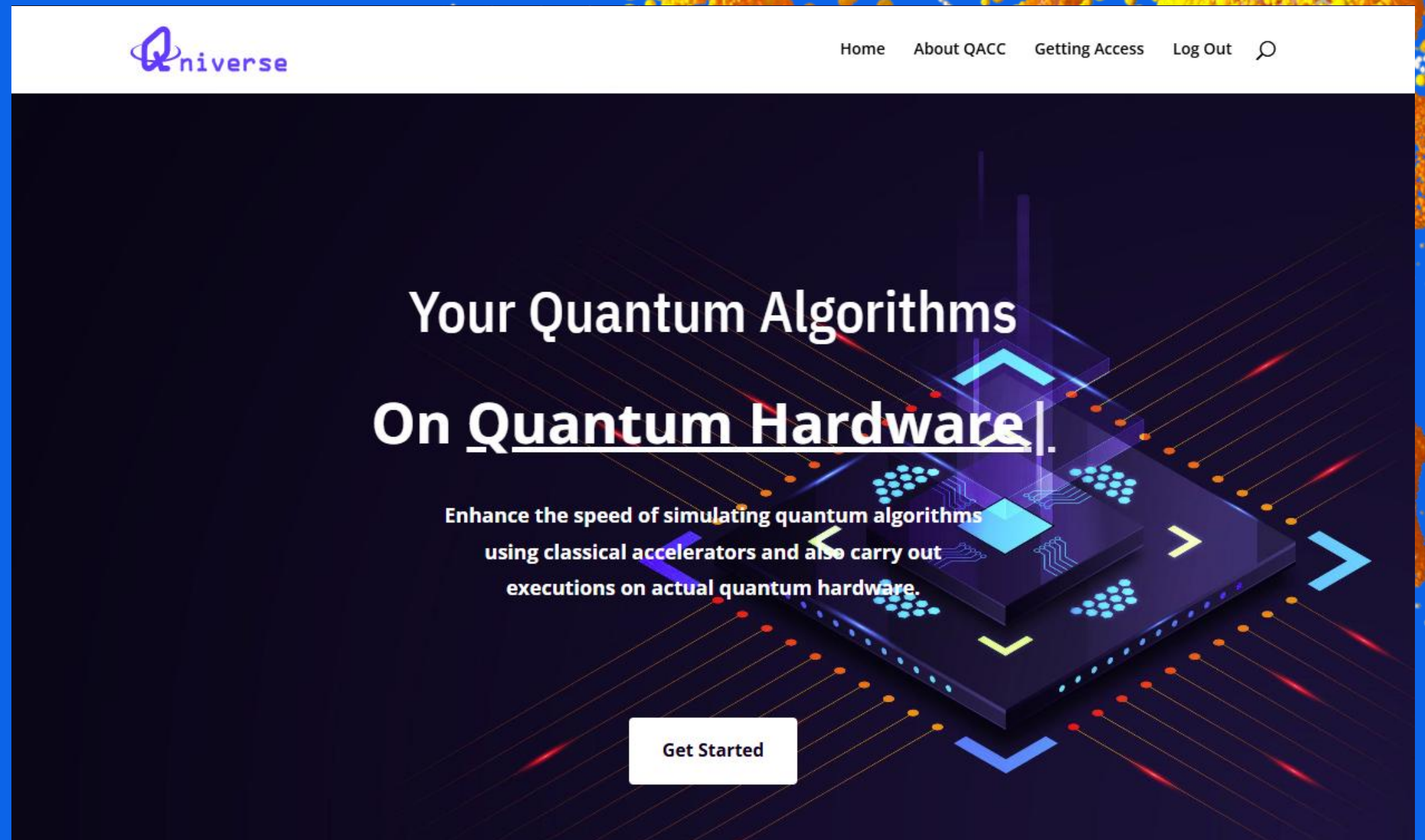


Qniverse

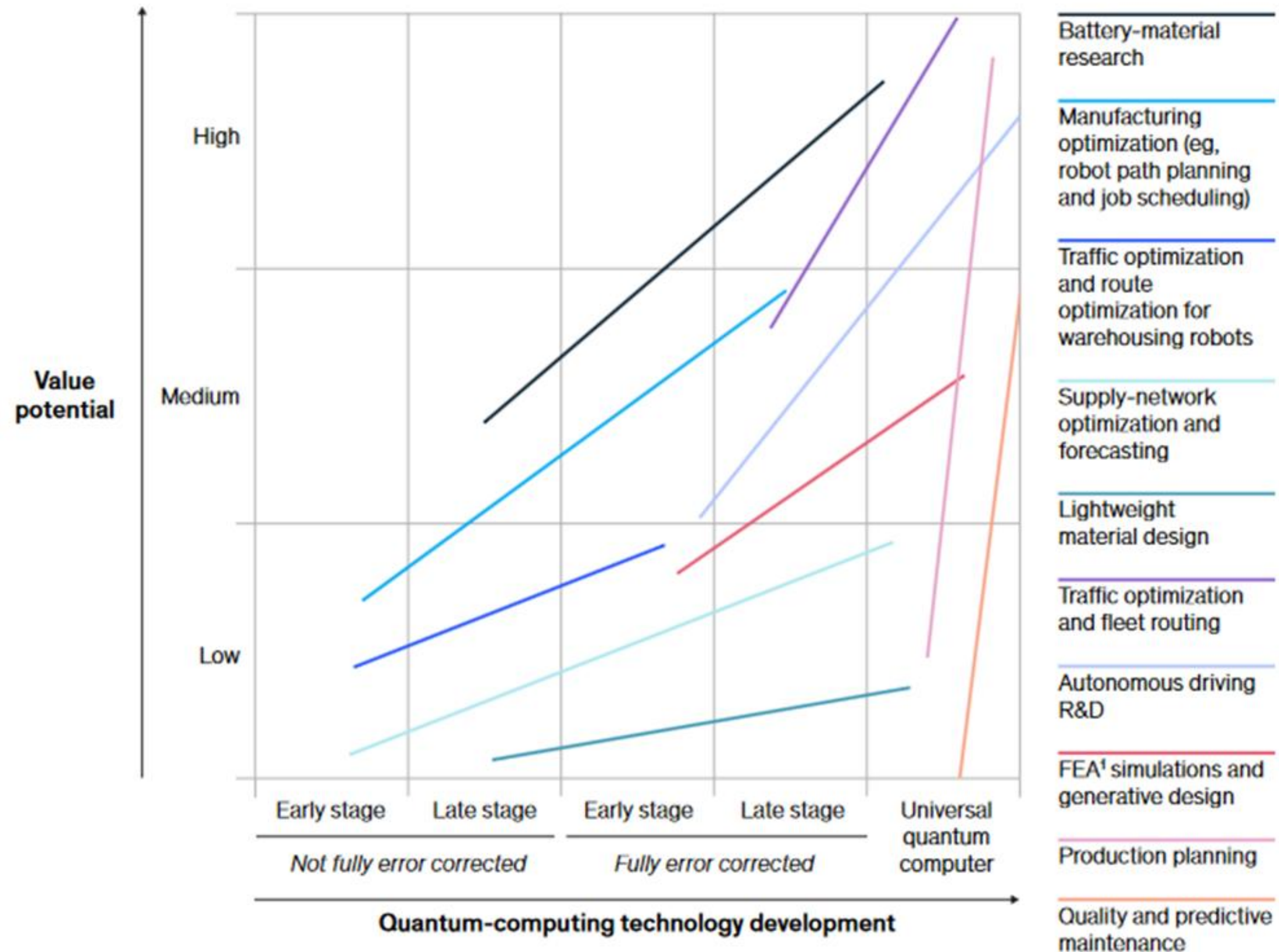
A Unified Quantum Computing Platform

www.qniverse.in

S. Henry Sukumar
Scientist 'F'
HoD (QTG)

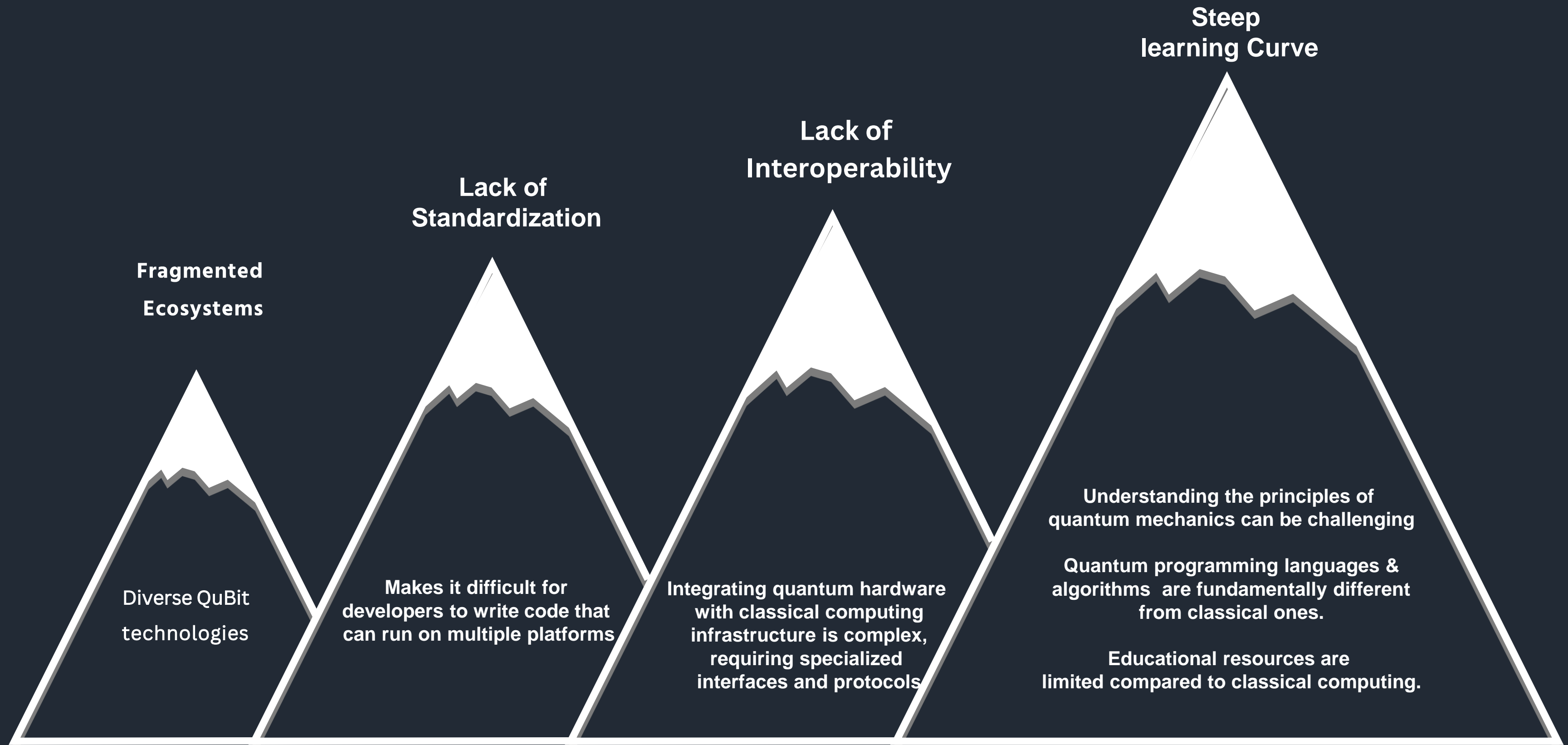


Potential of Quantum Computing



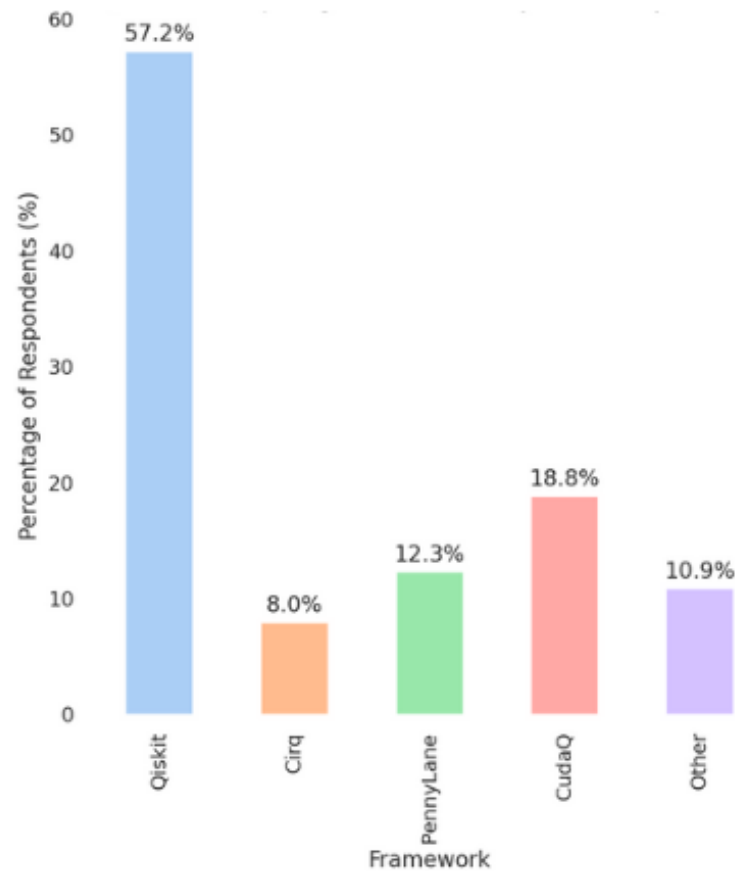
Source: McKinsey :
Quantum Computing Use Cases are getting Real

Challenges for Quantum Algorithm & Application developers & users

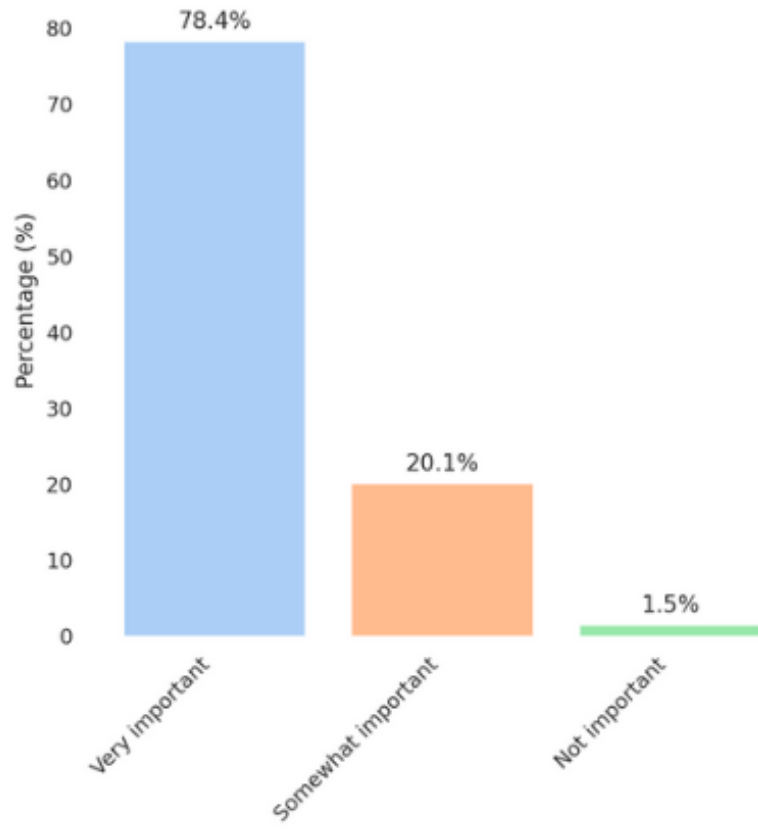


Survey Results

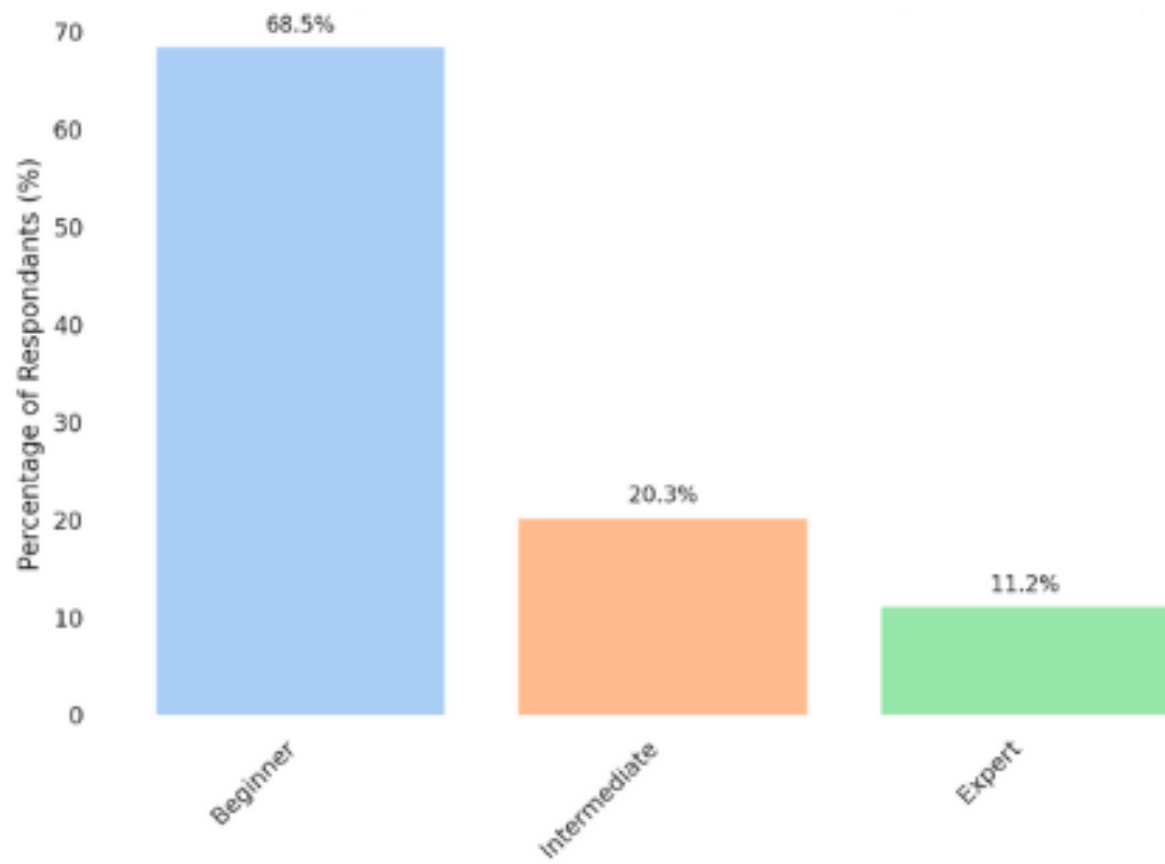
What Quantum Computing frameworks are you currently familiar with?



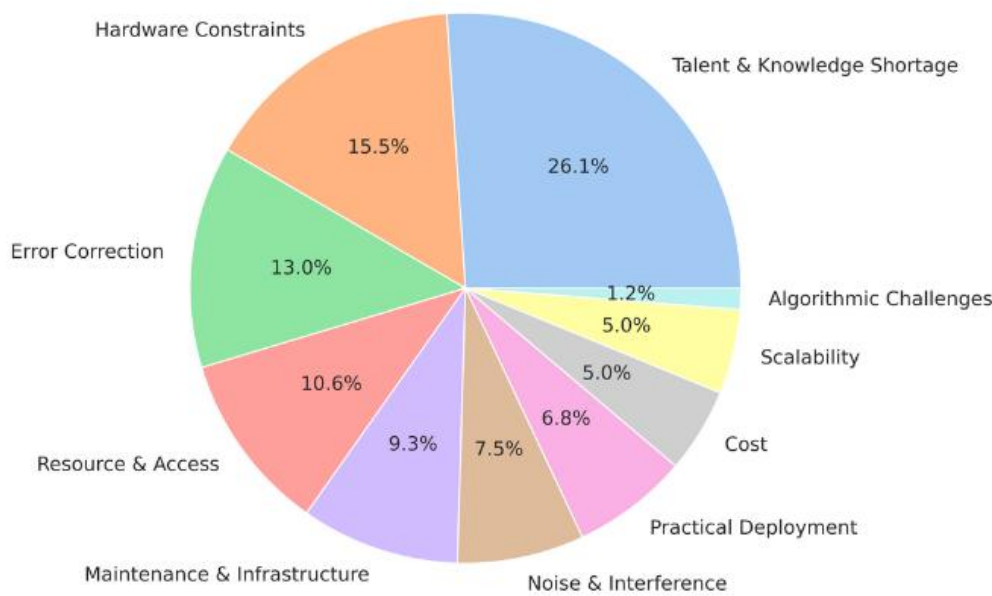
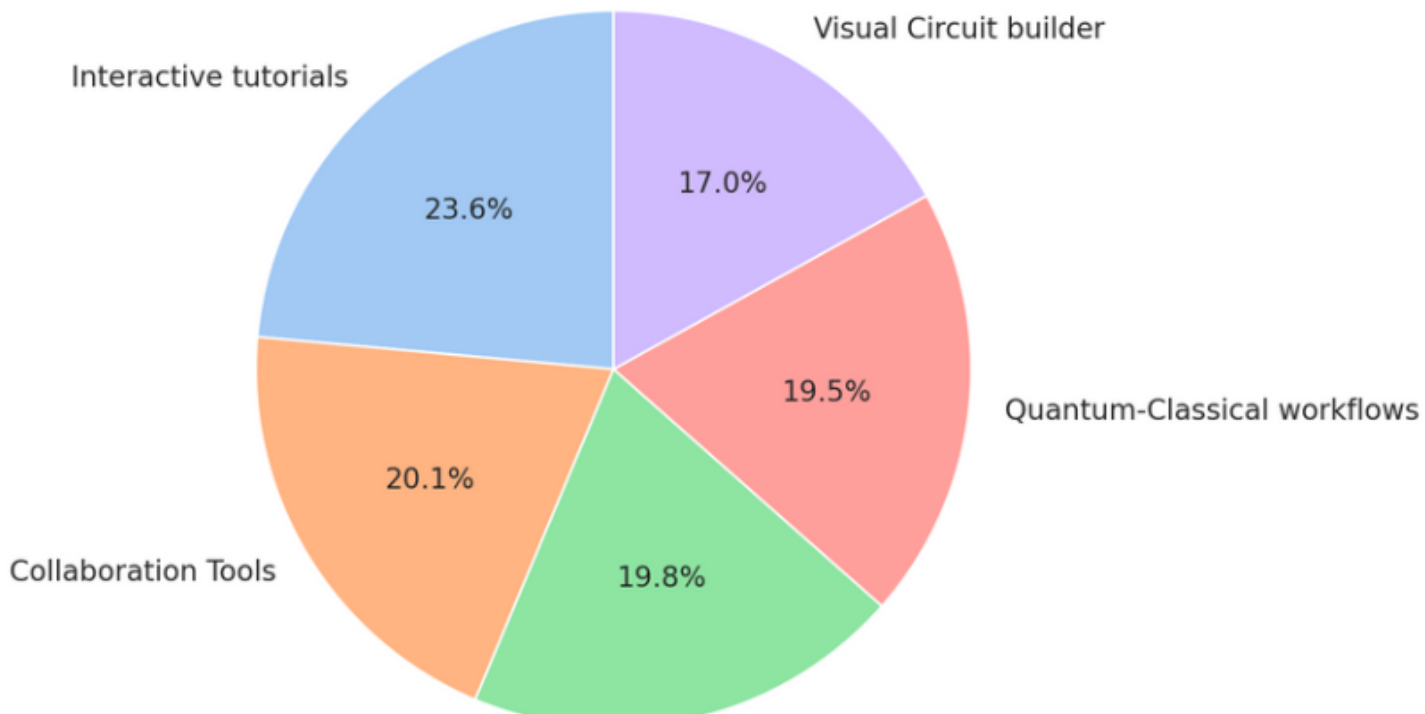
How important is it for you to have a single unified platform that integrates different Quantum Computing Technologies?

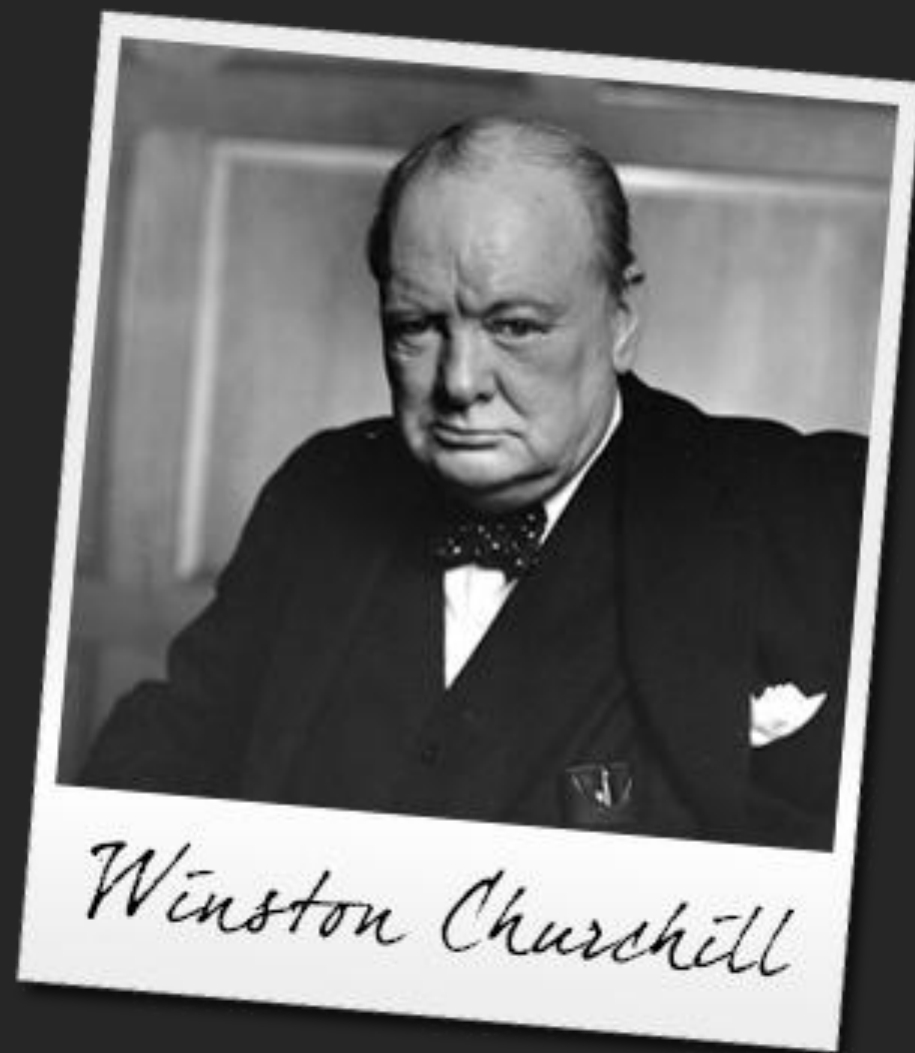


How familiar are you with the fundamentals of Quantum Computing?



What features would you value most in a Unified Quantum Computing platform?





“Out of intense Complexities,
Intense Simplicities emerge”

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Your Quantum Algorithms On Quantum Hardware

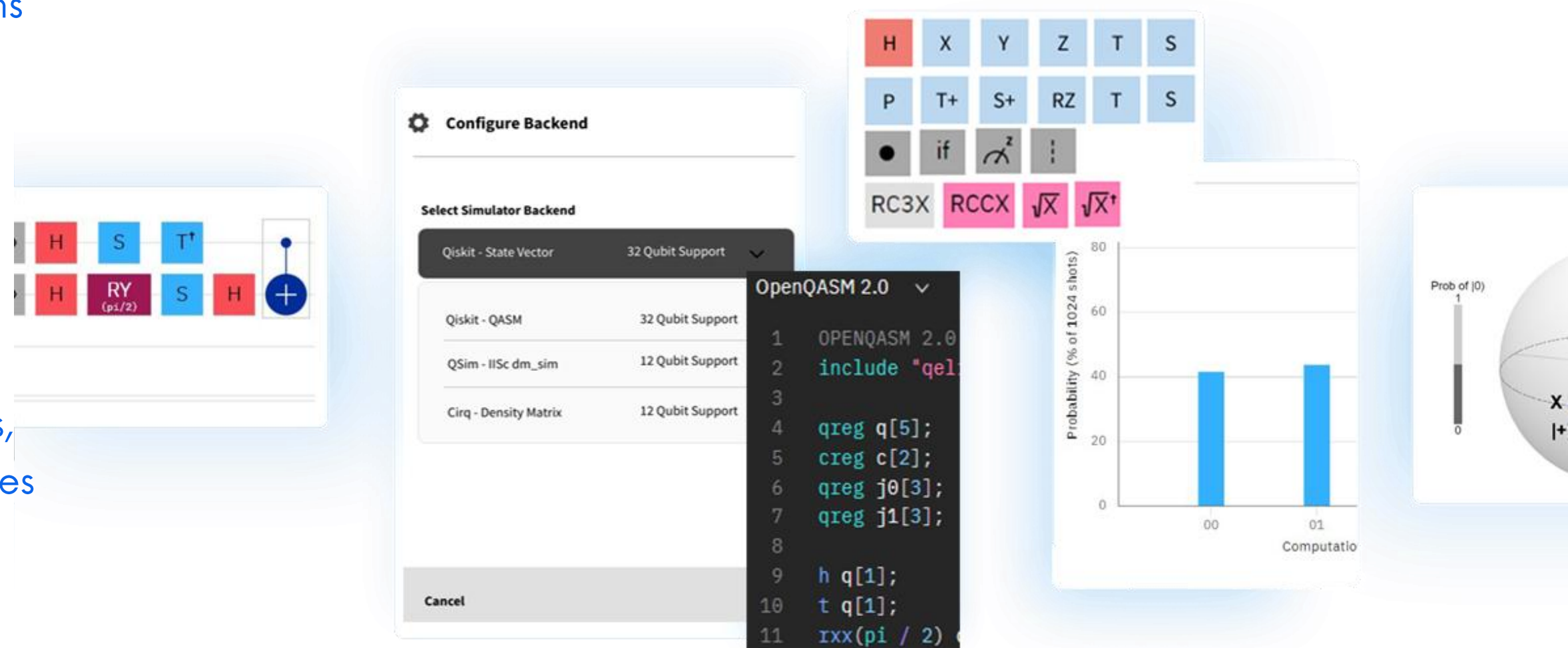
Enhance the speed of simulating quantum algorithms
using classical accelerators and also carry out
executions on actual quantum hardware.

[Get Started](#)

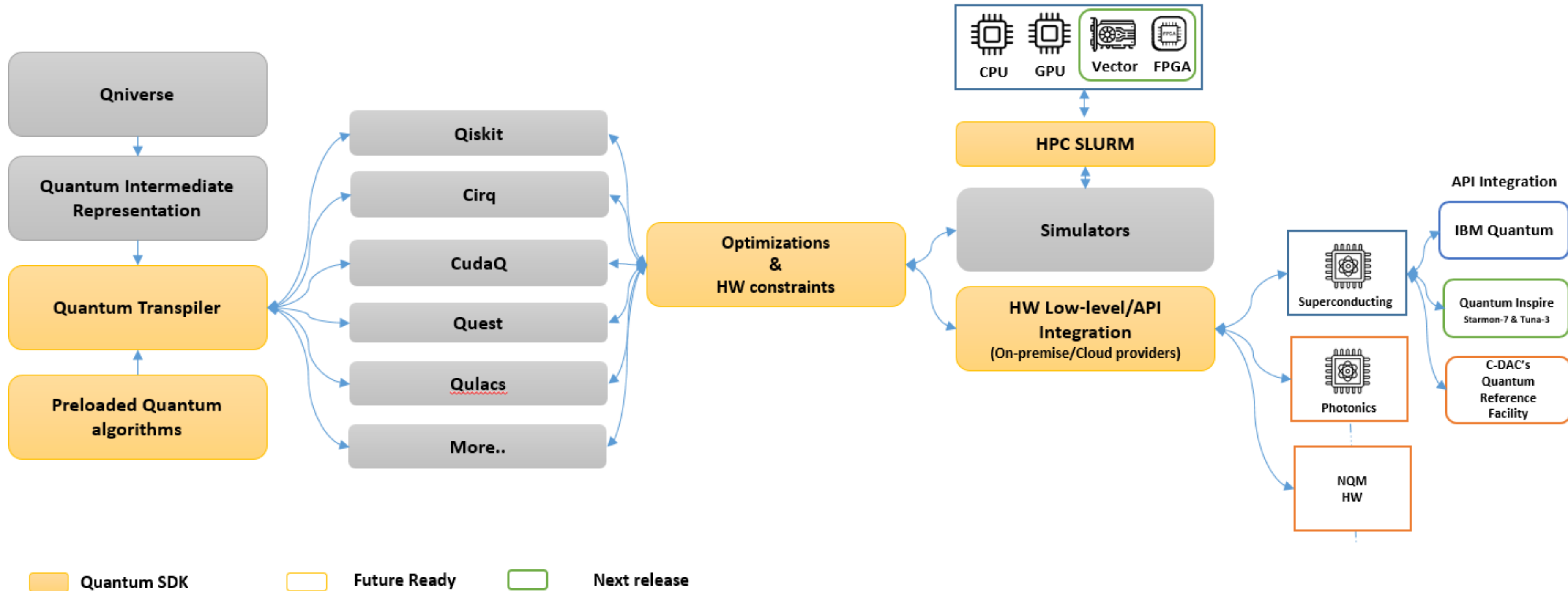
An Unified Platform, redefining the way developers, researchers, and enterprises engage with quantum technology.

An **integrated platform** for designing, simulating, and executing quantum algorithms on **classical accelerators** such as GPUs, FPGAs & Vector processors and as well as execute on multiple **quantum hardware platforms**.

At the heart of Qniverse, is its **Quantum Software Development Kit (QSDK)**, which provides a comprehensive set of frameworks, libraries, and programming language features to interact seamlessly with both quantum circuit simulators and hardware platforms



Architecture



Complete Quantum Ecosystem

Enhance the speed of simulating quantum algorithms using classical accelerators and also carry out executions on actual quantum hardware.



1

Unified Interface

A single, intuitive environment for all stages of quantum algorithm development.

2

Platform Agnostic

Seamless execution across various quantum hardware platforms and classical accelerators (GPUs, FPGAs, Vector processors).

3

Quantum SDK

In-built libraries enable users to work with pre-built components and easily integrate them into their workflows, enhancing development efficiency.

4

Optimized Algorithm Libraries

Pre-built, optimized quantum algorithms for faster development.

5

Hybrid-Classical Quantum Workflows

Seamless integration with leading quantum providers and PARAM HPC Supercomputers for enabling hybrid classical quantum workflows.

6

Comprehensive-learning ecosystem

Combines theoretical quantum mechanics with hands-on programming tutorials, enabling beginners and experts to upskill efficiently.

Why Qniverse Matters?

01

**Reduced
Development Time**

02

**Simplified
Hardware Access**

05

**Accelerated
Learning Curve**

04

**Portability and
Flexibility**

03

**Enhanced
Debugging and
Testing**

"Qniverse is designed to balance performance and accessibility, enabling users from diverse backgrounds to engage with quantum computing effortlessly."

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