

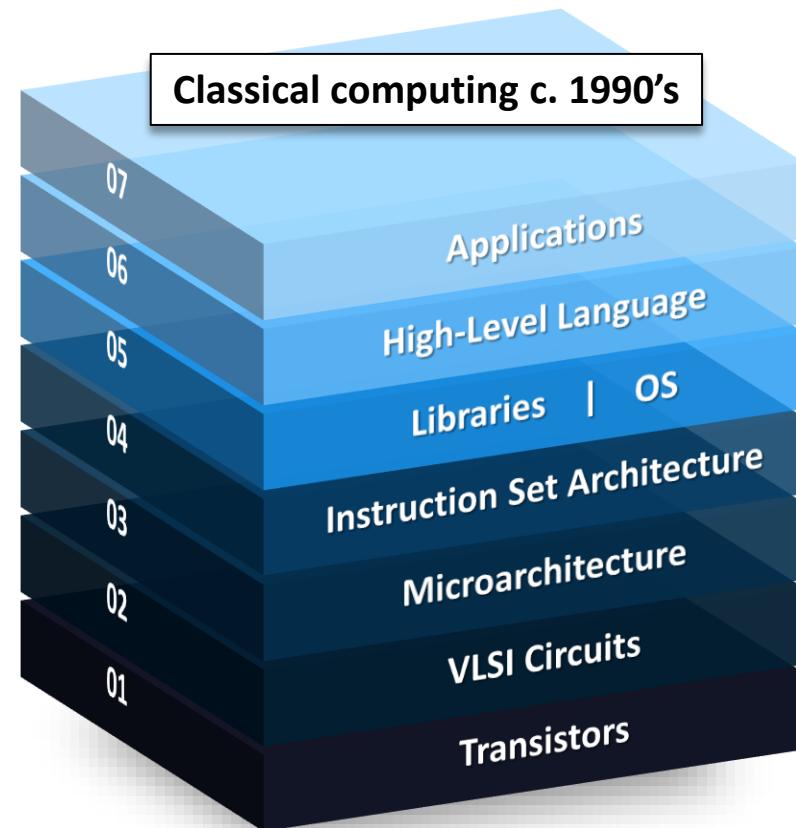
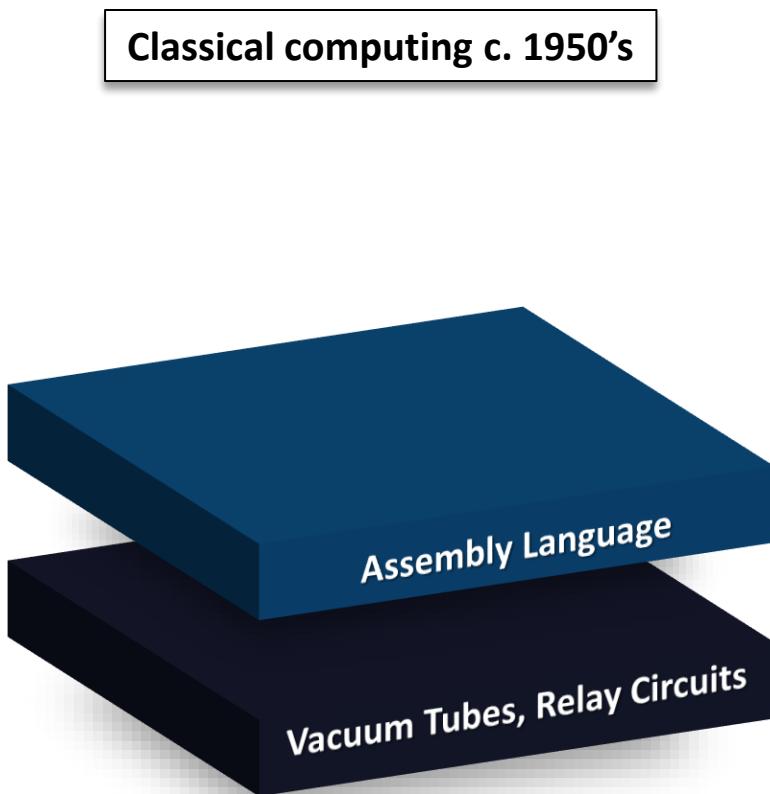
QUANTUM SOFTWARE STACK

A BRIEF OVERVIEW

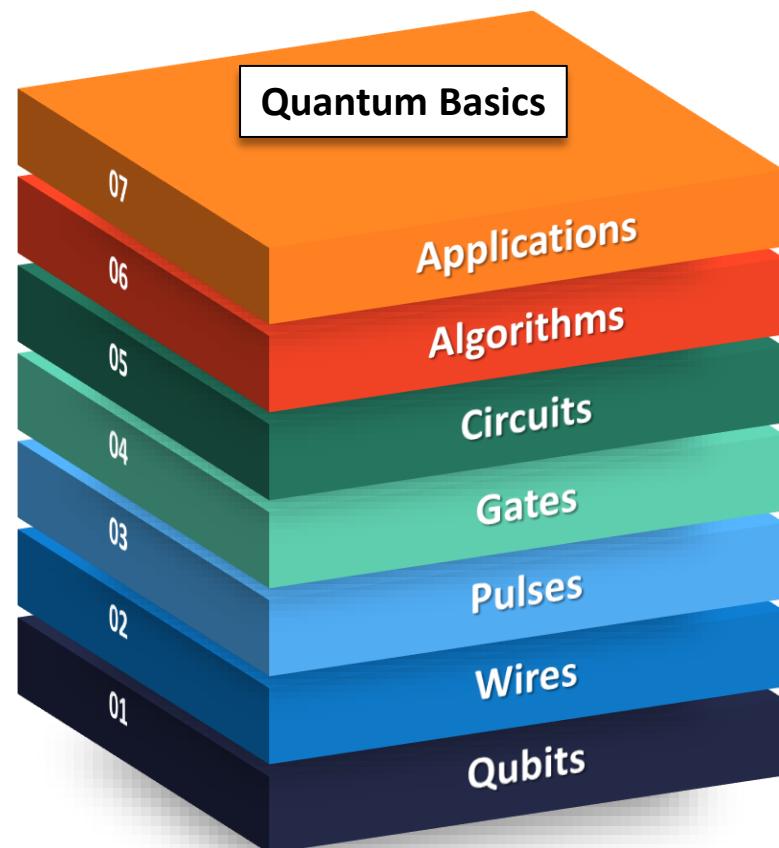
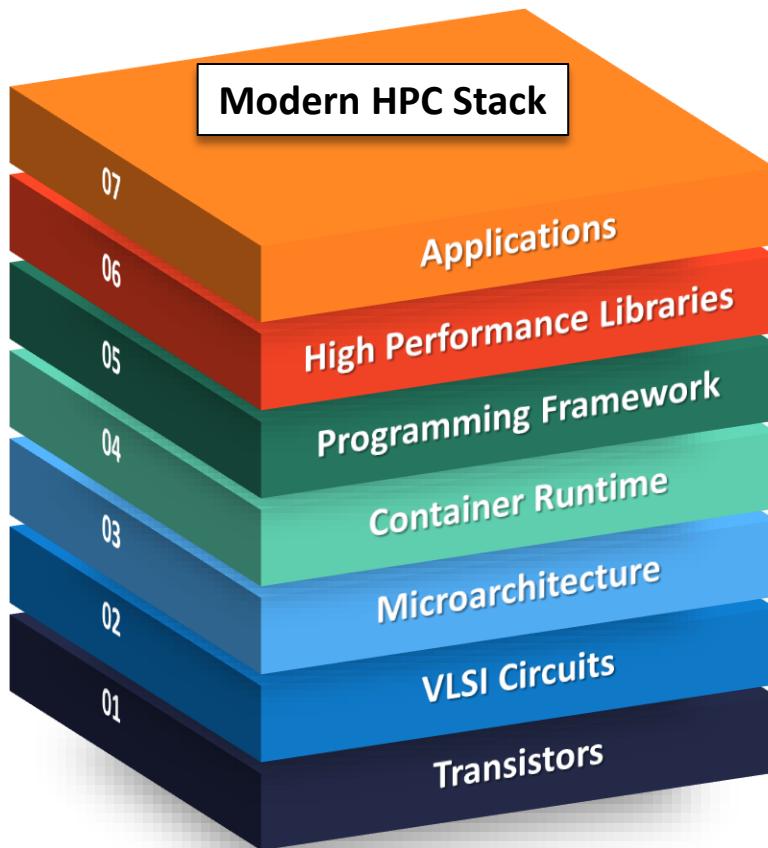
David Shaw, Fact Based Insight

Quantum Business Europe
March 2021

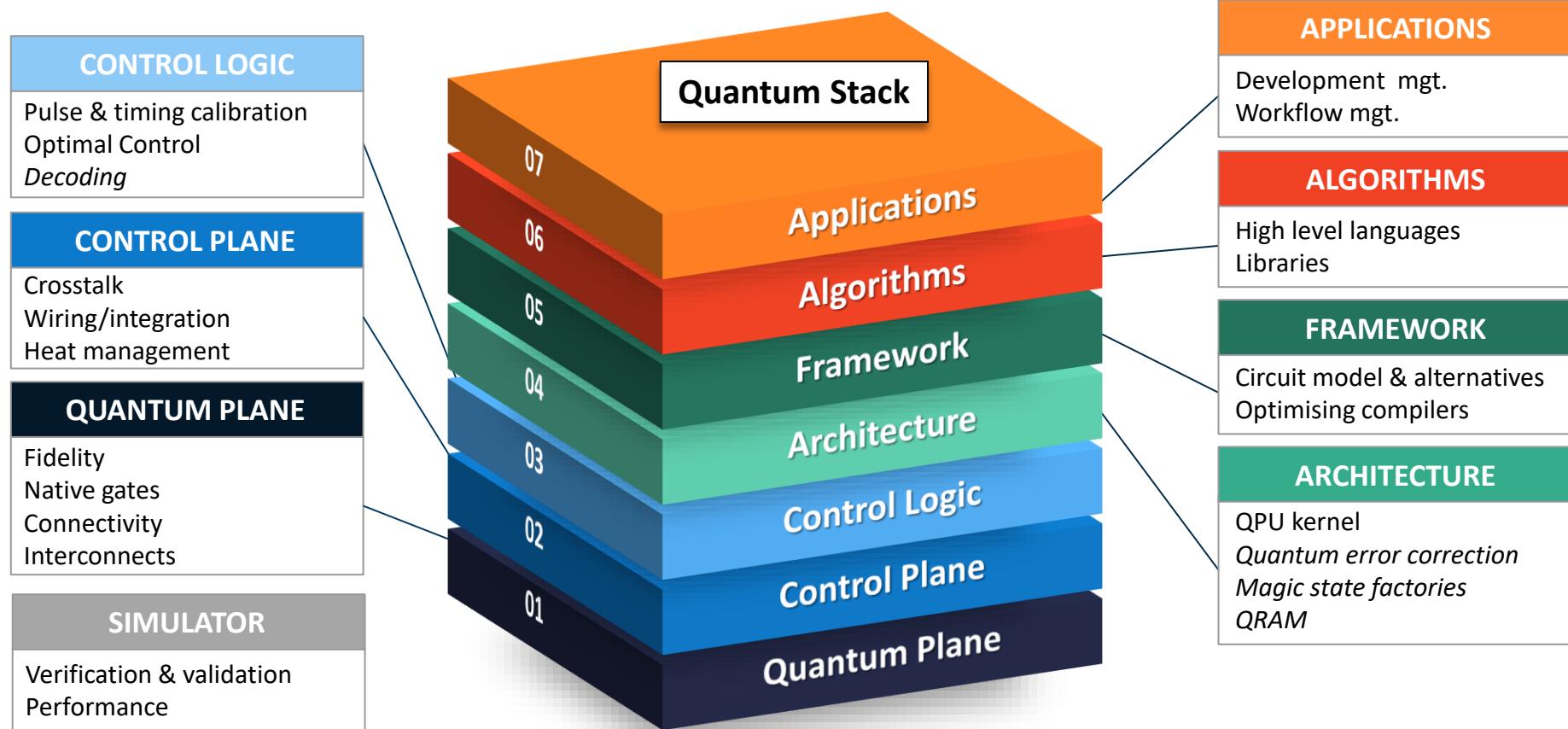
The evolution of the tech stack



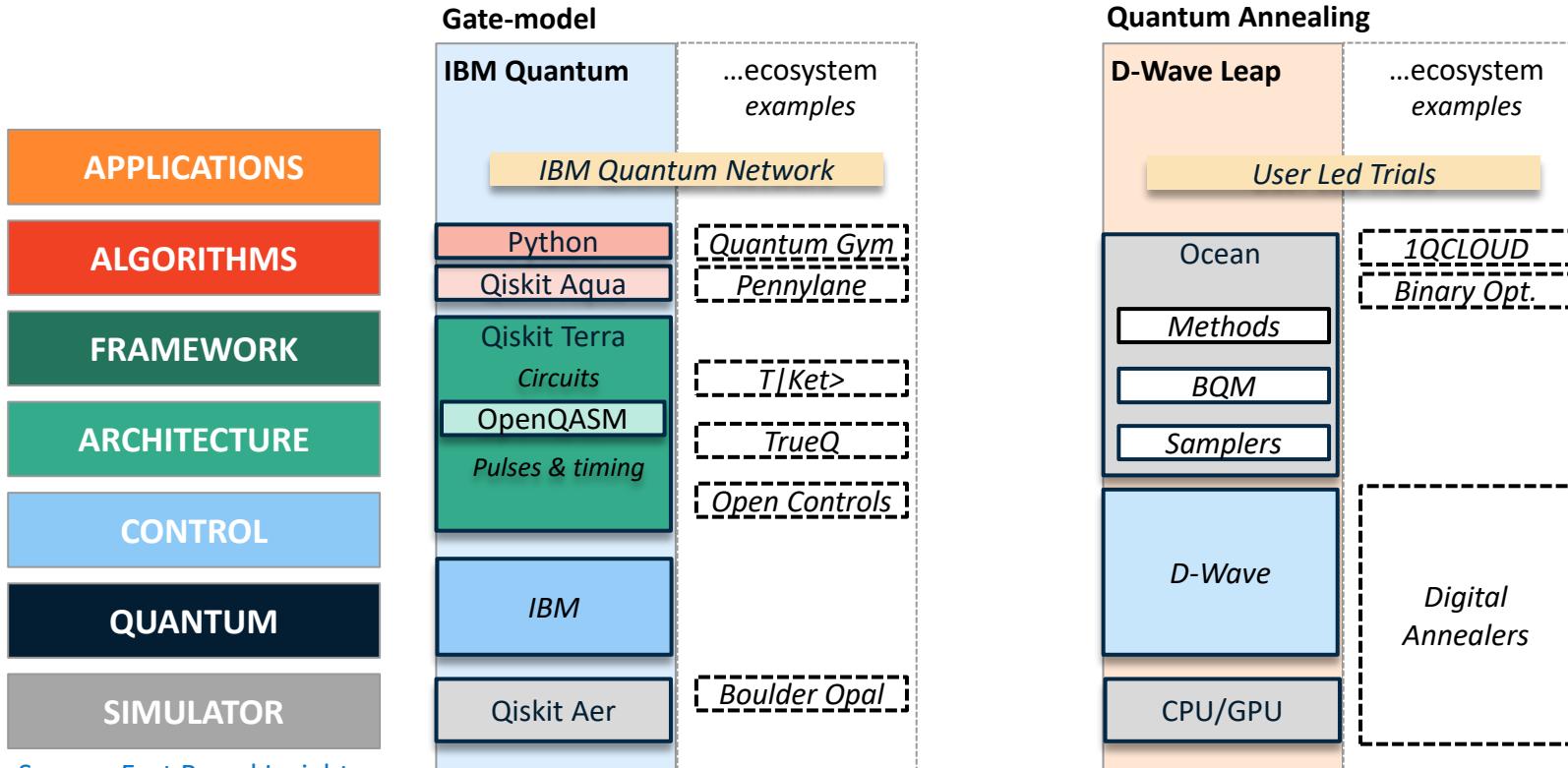
New challenges



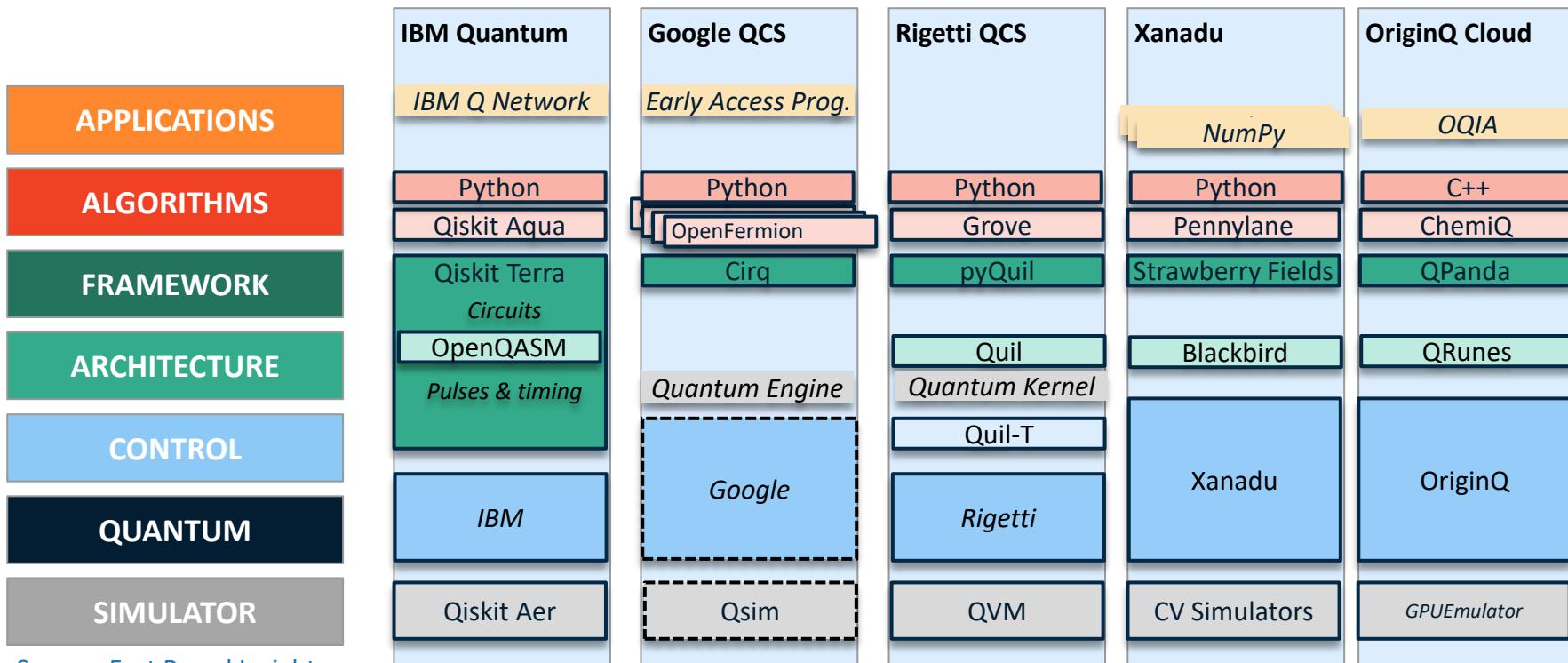
The emerging quantum stack and its challenges



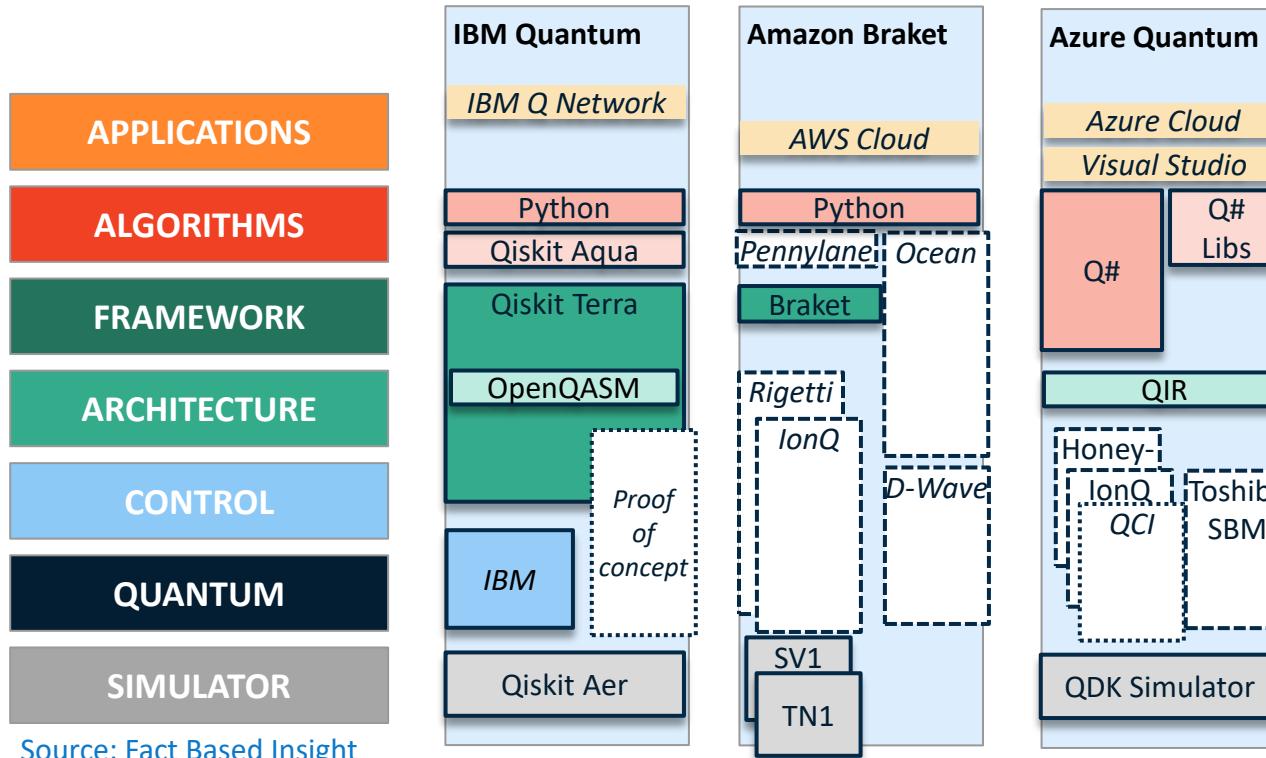
Contrasting early quantum pioneers



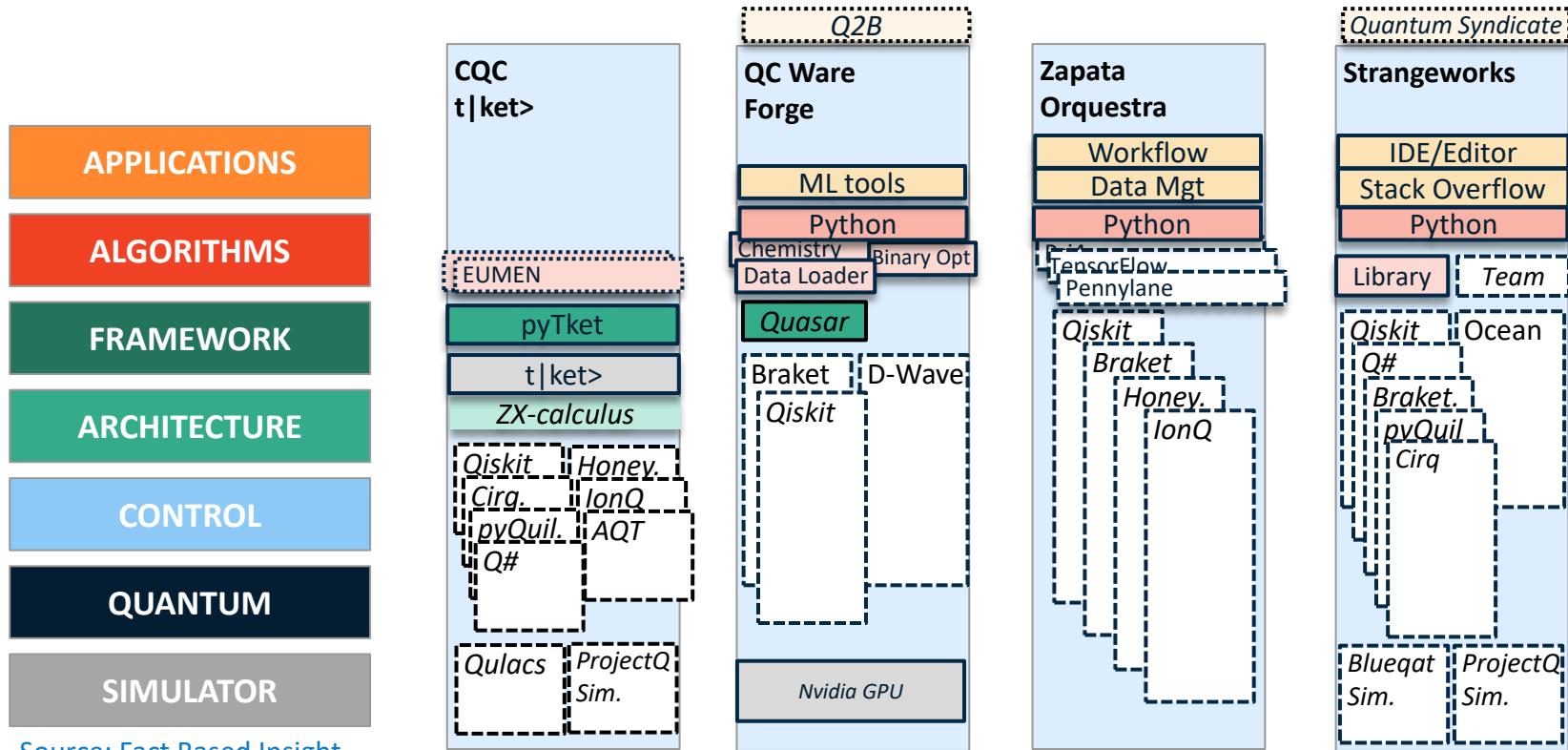
Full-stack gate model similarities & (some) differences



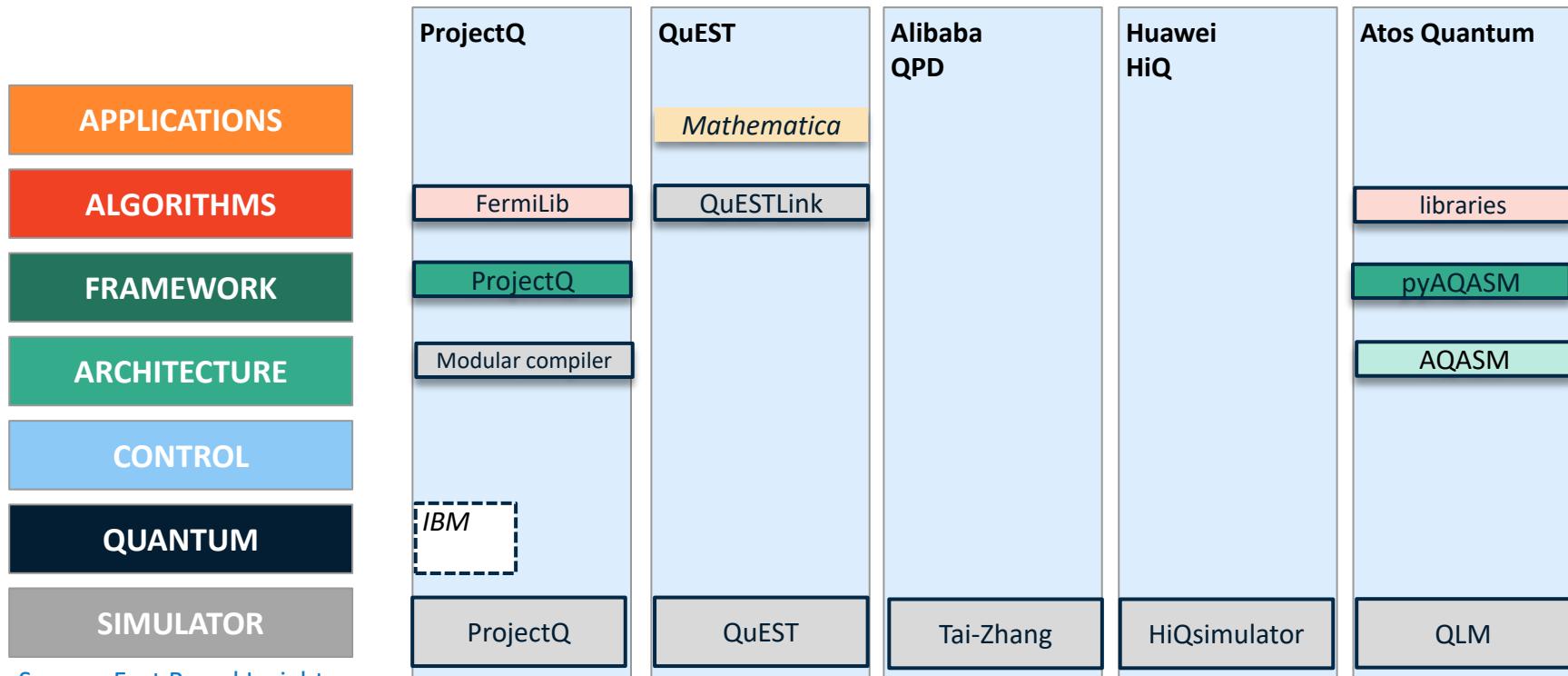
Emerging quantum PaaS...



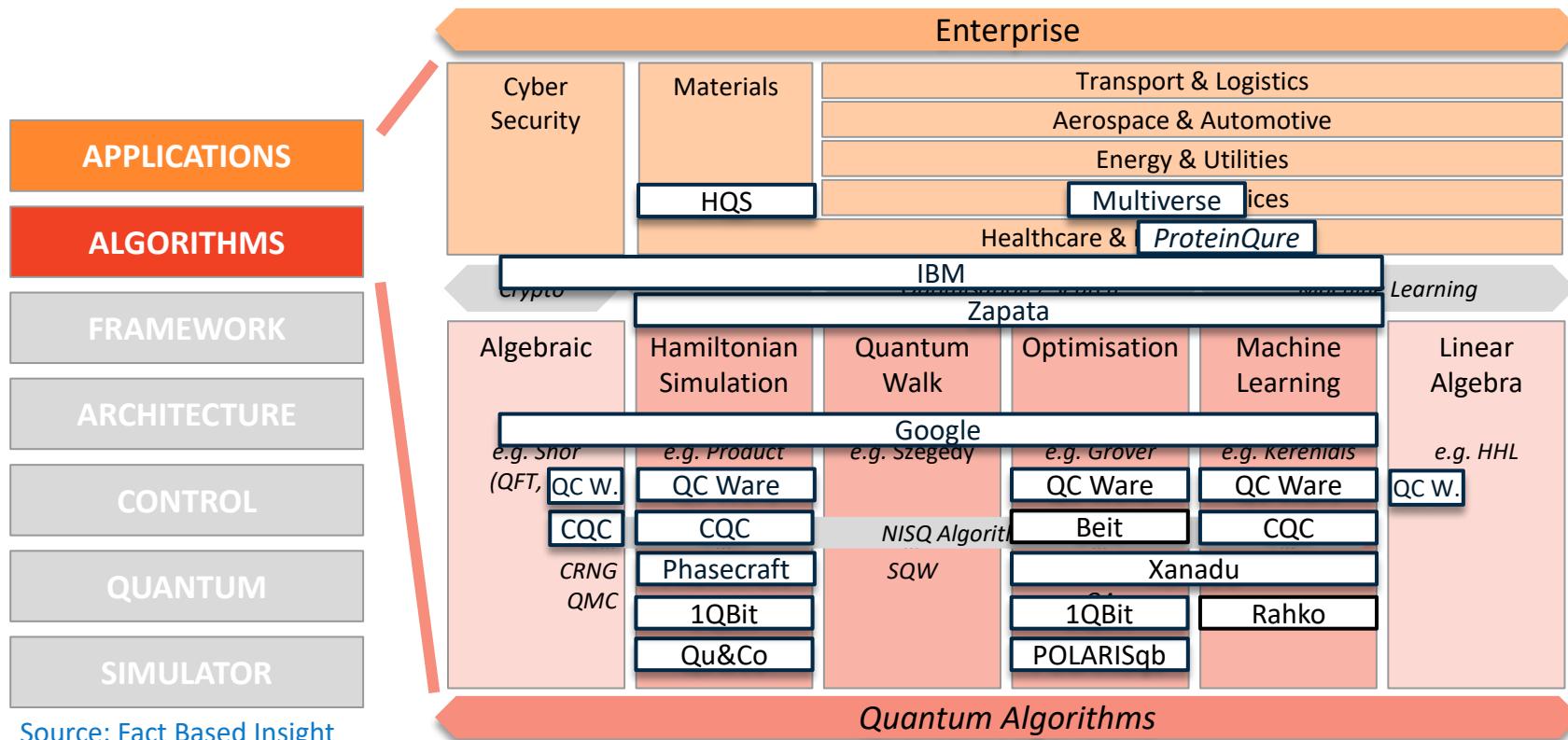
...and contrasting alternative platforms from startups



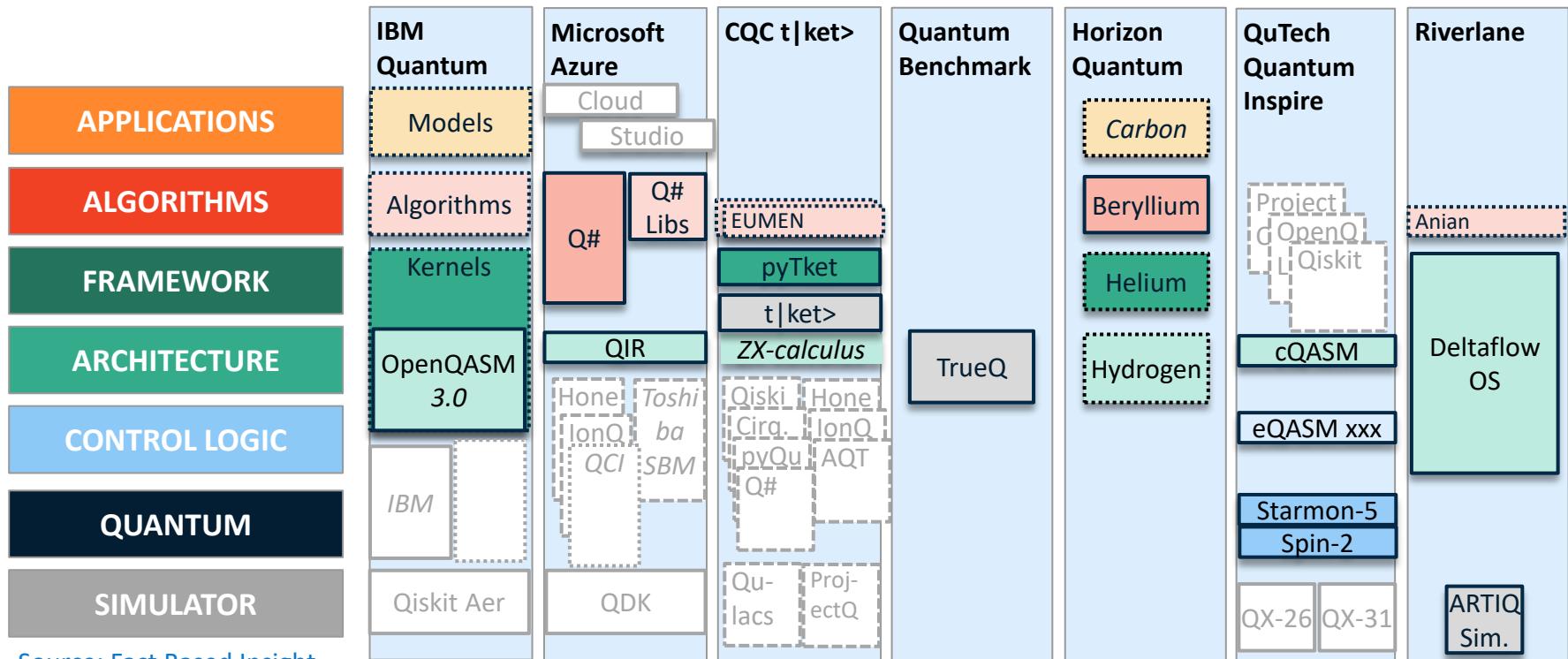
...simulators are a starting point and ongoing assurance tool



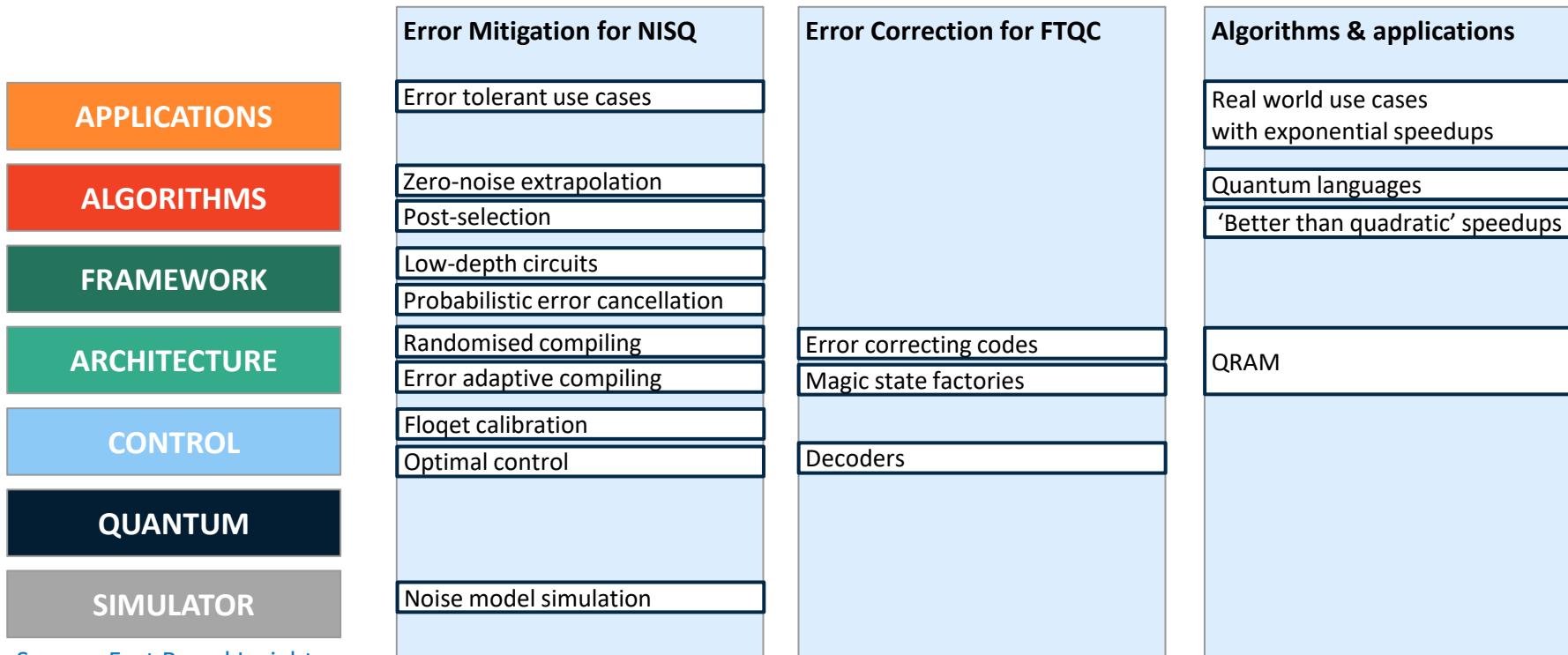
Balancing algorithms and the enterprise expertise



Future - contrasting views of ecosystem, compilers and stack



Current research themes



For more information and supporting references

- Factbasedinsight.com/quantum-software-outlook-2021

- Factbasedinsight.com/quantum-algorithms-outlook-2021