



# Phoenix's Journey to a Swiss Sovereign AI Provider

January 15, 2025

# Agenda

- Phoenix Technologies
  - Introduction
  - Architecture - Open-Source Inspired
- Meet kvant AI Concierge
- Announcement

We provide Sovereign cloud infrastructure and solutions

- Multiple data centers – primarily in Switzerland
- Multi-arch and Multi-cloud
- Data, Technological and Operational Sovereignty

## 1. Infrastructure Offerings - kvant Cloud

- Virtual Private Clouds (VPC) based on OpenShift Virtualization
- Modern Container Platform based on Red Hat OpenShift

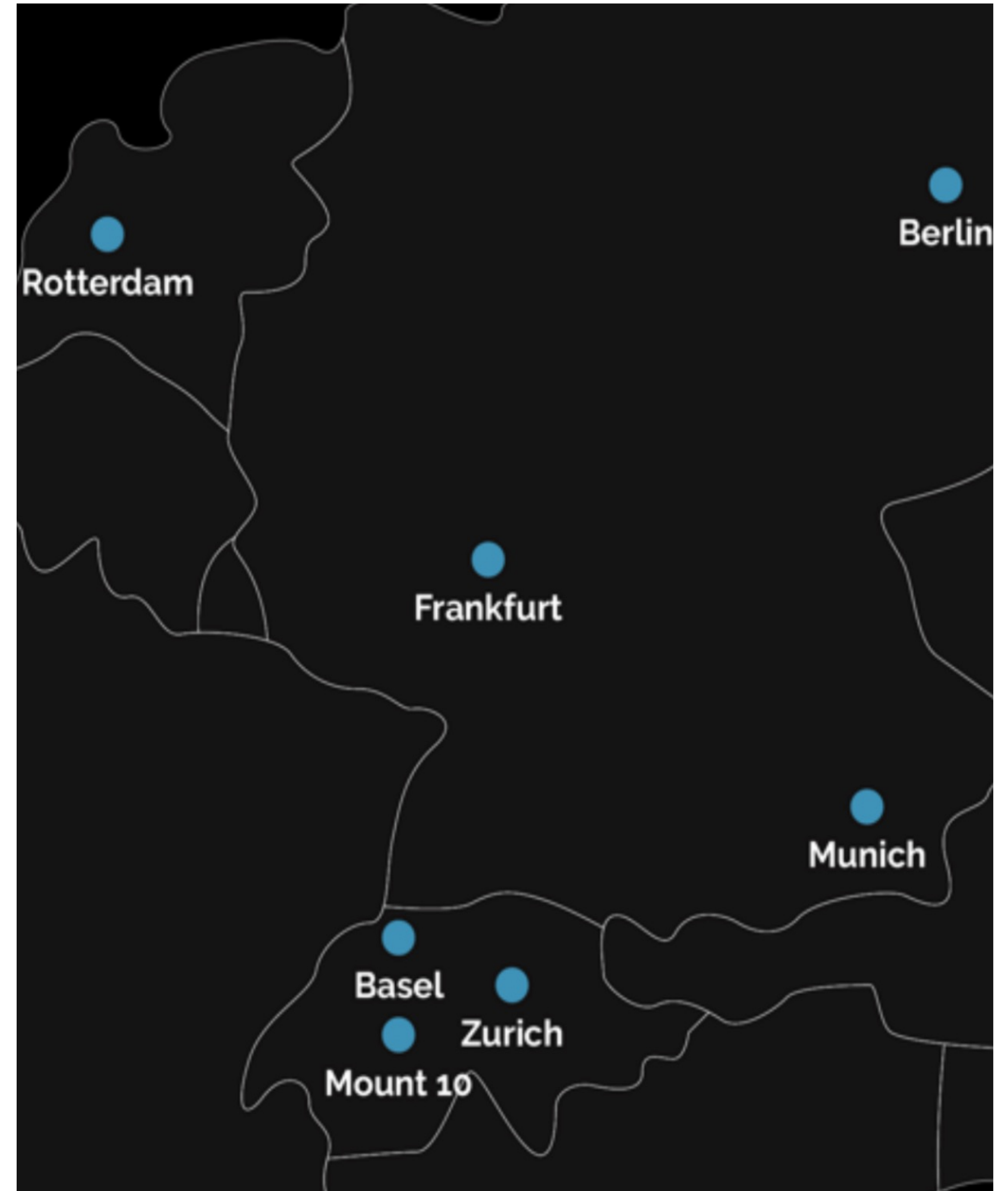
## 2. Infrastructure Offerings - kvant AI

- Red Hat OpenShift AI
- IBM AI Vela supercomputer

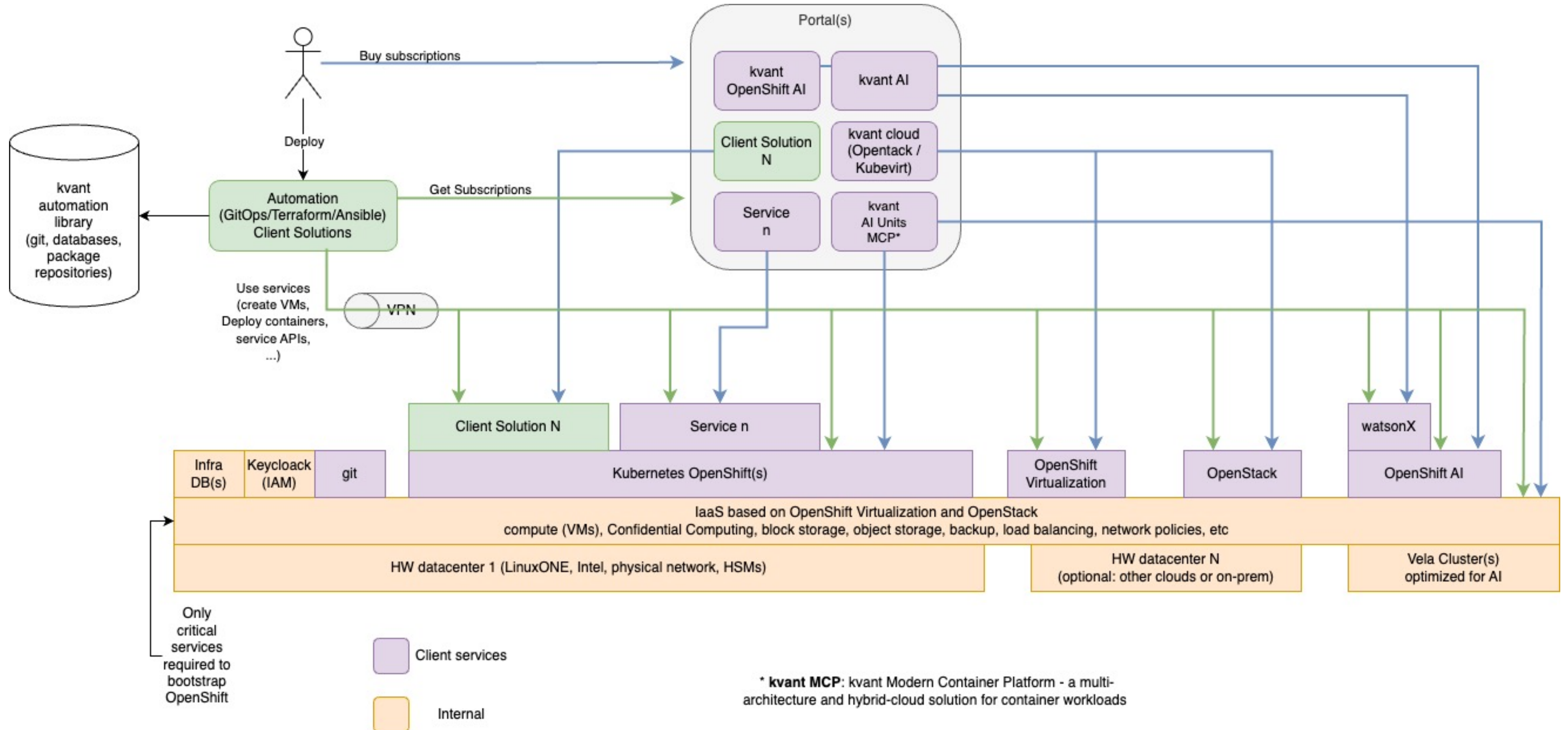
## 3. SaaS offerings

- AI solutions
- Confidential Databases etc.
- Blockchain

## 4. Professional Services to help our clients in adapting hybrid cloud, confidential computing, blockchain and AI technologies and solutions



# Our Architecture – Leveraging Open-Source Technologies and standards



# AI Concierge - Challenges

AI is already widely used BUT issues have surfaced

- Data leakages – employees uploading confidential data
- Data and model manipulation
- IP being misused to train model
- Models poisoned by inaccurate data

For these reasons companies are limiting their usage

- Only using public data or plain LLMs
- Data available to the whole company – low value IP
- Small units of code – low risk of leakage

This limits value of AI

- AI becomes more useful when more relevant data is used
- Data must include sensitive and personal data to really assist



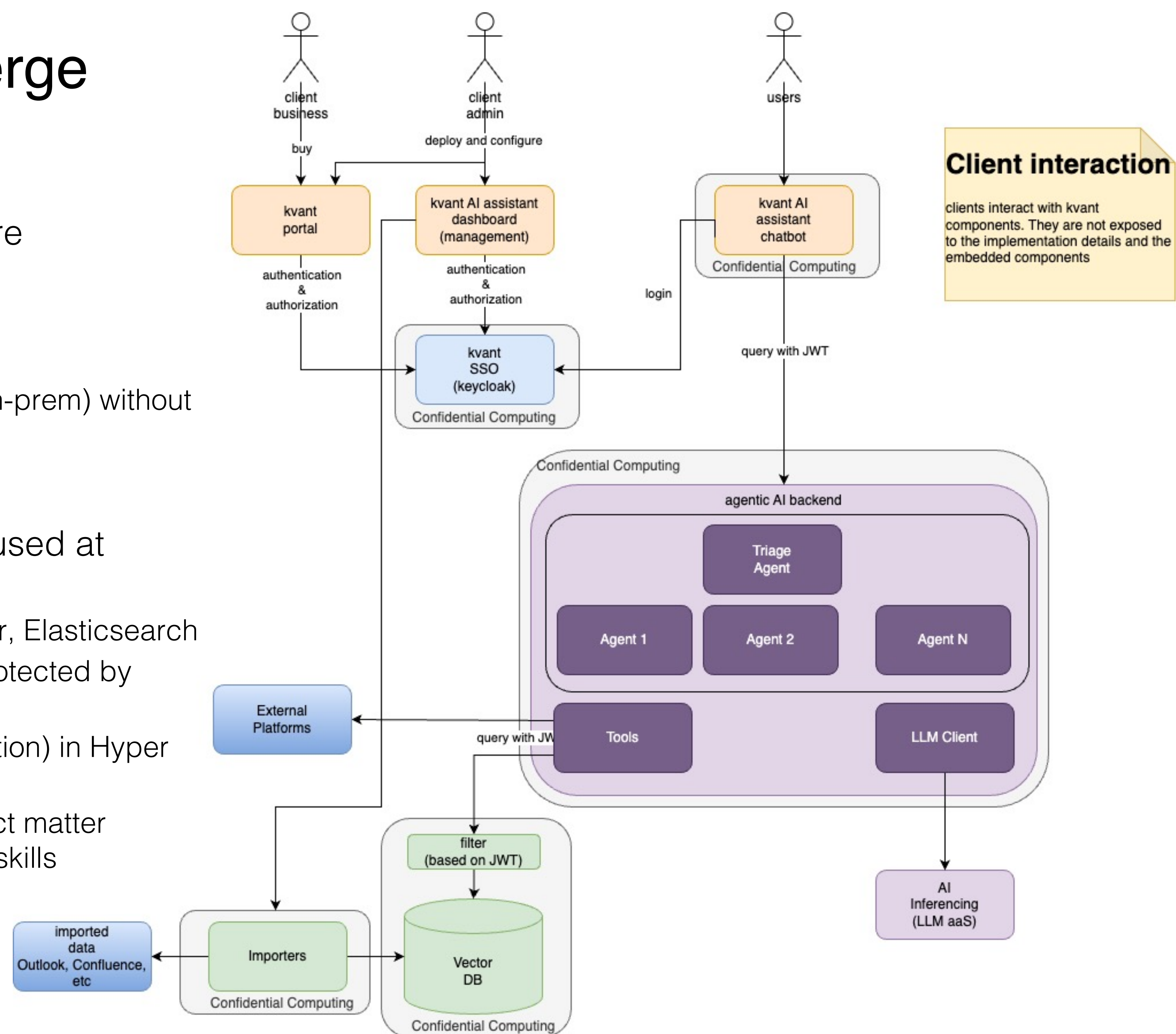
# Meet – the kvant Concierge

Increase level of trust on the infrastructure

- Use confidential computing
- Keep data linked to individual users
- Tune results to individual users
- Sovereign cloud – keep data in country (or on-prem) without dependencies on third parties

These are the same principles we have used at Phoenix for years

- Run large Vector DBs in Hyper Protect – Solar, Elasticsearch
- Keep access control and encryption code protected by Hyper Protect contracts
- New: run RAG (Retrieval-Augmented Generation) in Hyper Protect
- New: use agentic AI to simplify adding subject matter experience from users without programming skills



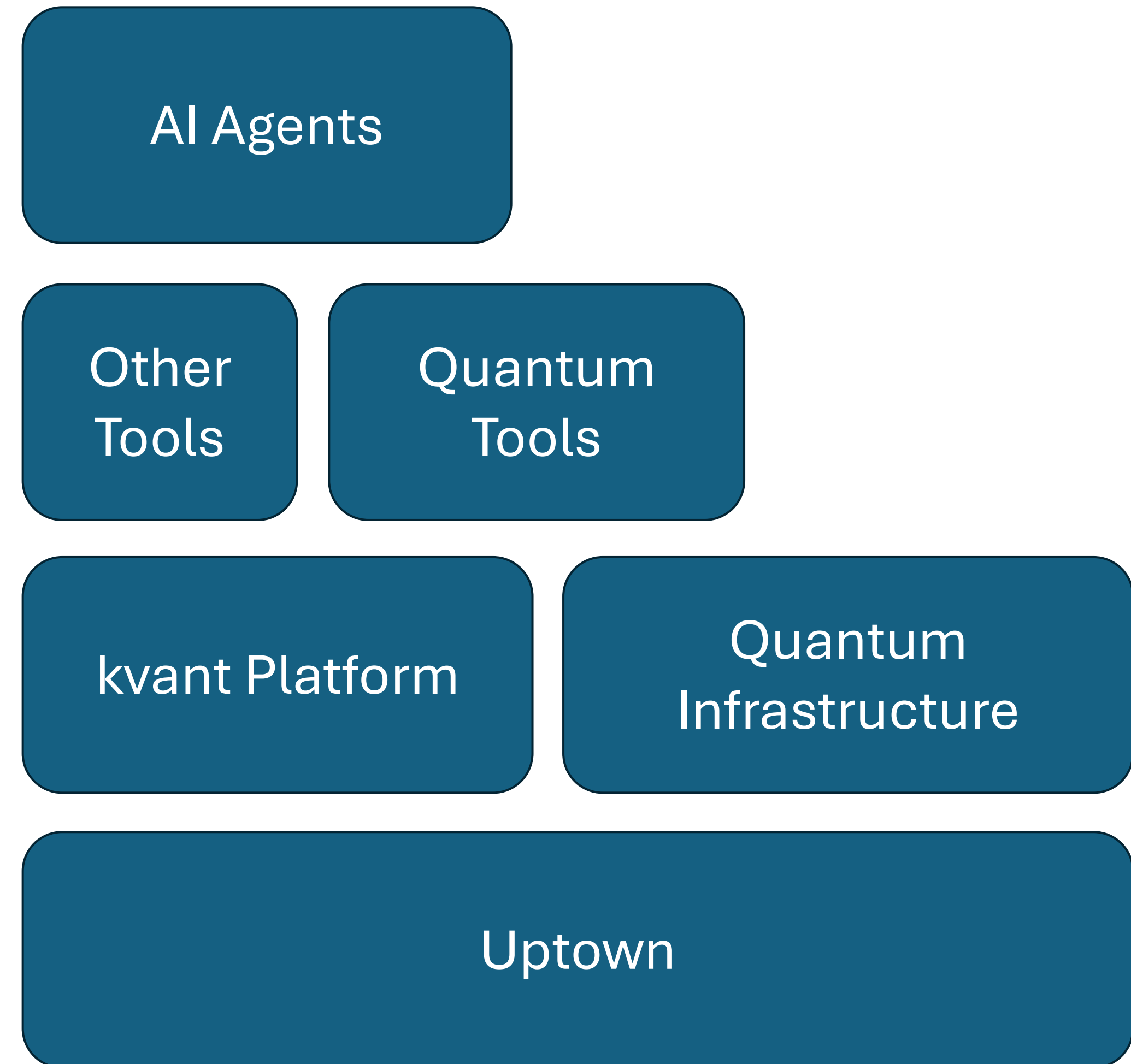
# Announcement: Quantum AI Agents

## Simplify consumption of Quantum

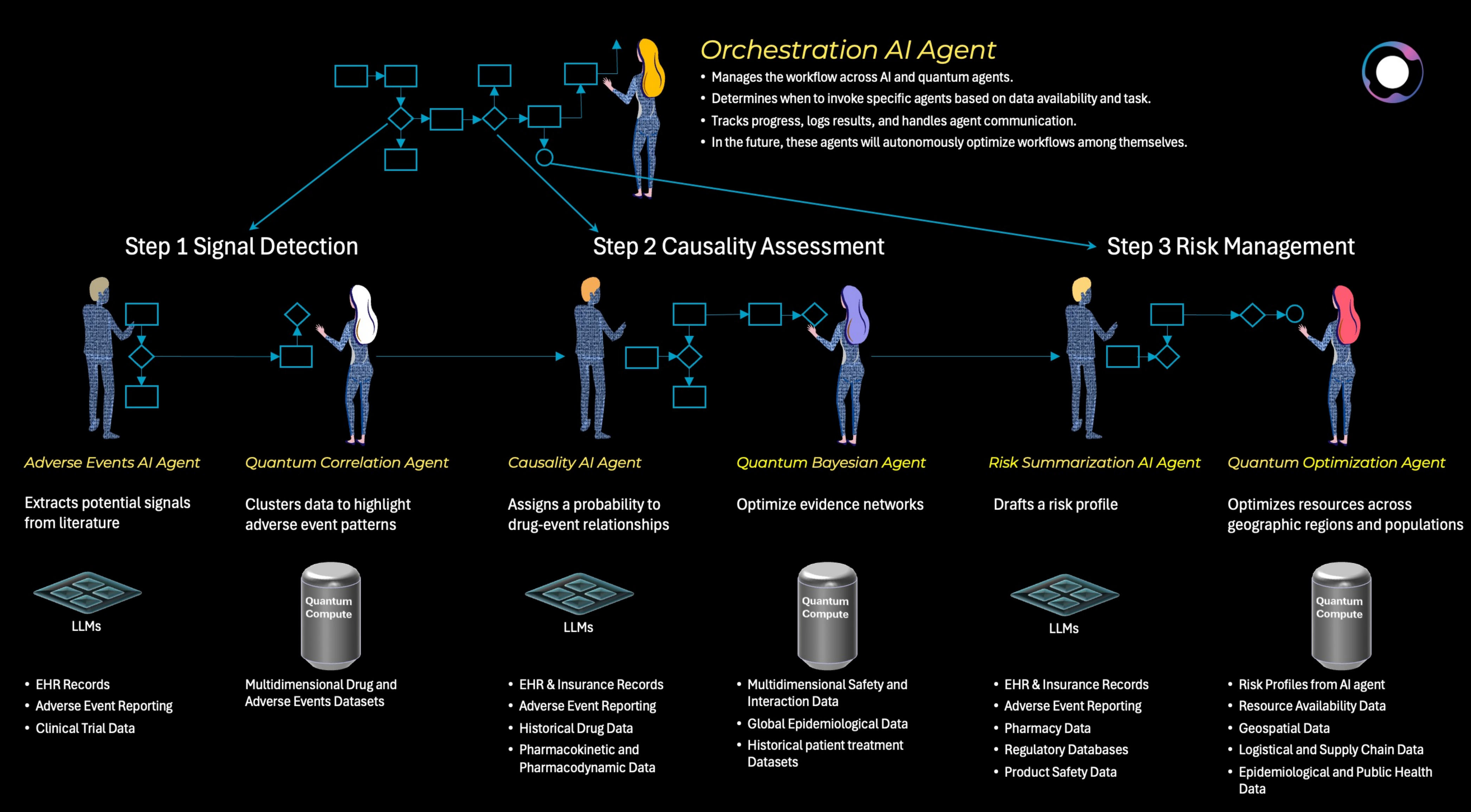
- Develop AI agents that use Quantum Tools
- Quantum Tools run on the kvant Platform (so benefit from the Souverain Cloud) and leverage Quantum infrastructure at Uptown
- AI users do not notice that quantum is used – implementation detail

## Why Quantum?

- Some use cases benefiting from Quantum computers for faster or more efficient solutions
- QuantumBasel and start-ups from QAI Ventures identify and implement tools for such use cases



# Illustrative Pharmacovigilance Quantum AI Agents Use Case





# Thanks & Questions



Register here for AI workshop

