



UBIQUITOUS NETWORK

Next-Generation Computing Infrastructure

December 2022

Market Overview

Growing Demand

The upcoming intelligent society requires massively growing ubiquitous, diverse & heterogeneous computing resources

Technical Limit

The computing power of single-core chip & the cores in a multi-core processor can no longer be technically improved

Network Constraint

The constraint of network bandwidth & latency requires a multi-level computing power deployment architecture

Underutilised Resource

Massive computing resources such as PCs, smart phones, IOT devices, & various data centers are underutilised

Driving Next-generation Computing

Ubiquitous Computing

Requirements for Ubiquitous Computing

**The essence of Ubiquitous Computing
is to solve the problem of global computing resource access & scheduling**

Ubiquitous Computing Power

ubiquitous, distributed,
massive data/computing power

Computing As a Service

cloud-native, fast to adapt, integrates
fragments

Diversified Demands

anytime, any type, any scale



Flexible Network Scheduling

easy access, flexibility,
cloud-edge-device interconnection

Agile Network Scheduling

fast provisioning, flexible adjustment, no waiting

Intelligent Network Scheduling

overall awareness, automated orchestration,
adaptive scheduling, intelligent management

UBIQnet Solution

Smart Contract

enables heterogeneous computing
resource tokenization & trading

Computing Resource
/ Application

Network Access
Registration Information

Computing Resource
/ Application Request

Unified Scheduling

covers cloud-edge-device
multi-level computing

Computing
Network

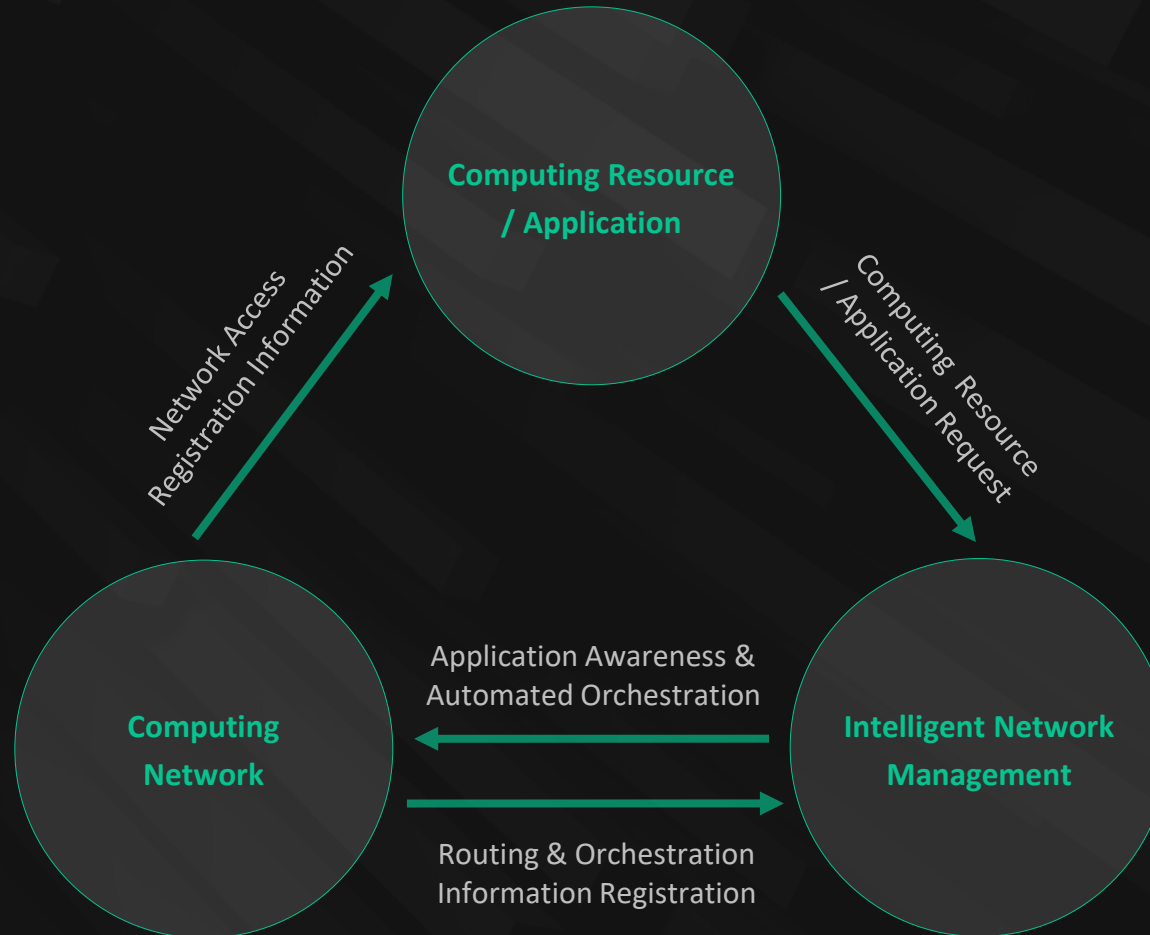
Application Awareness &
Automated Orchestration

Routing & Orchestration
Information Registration

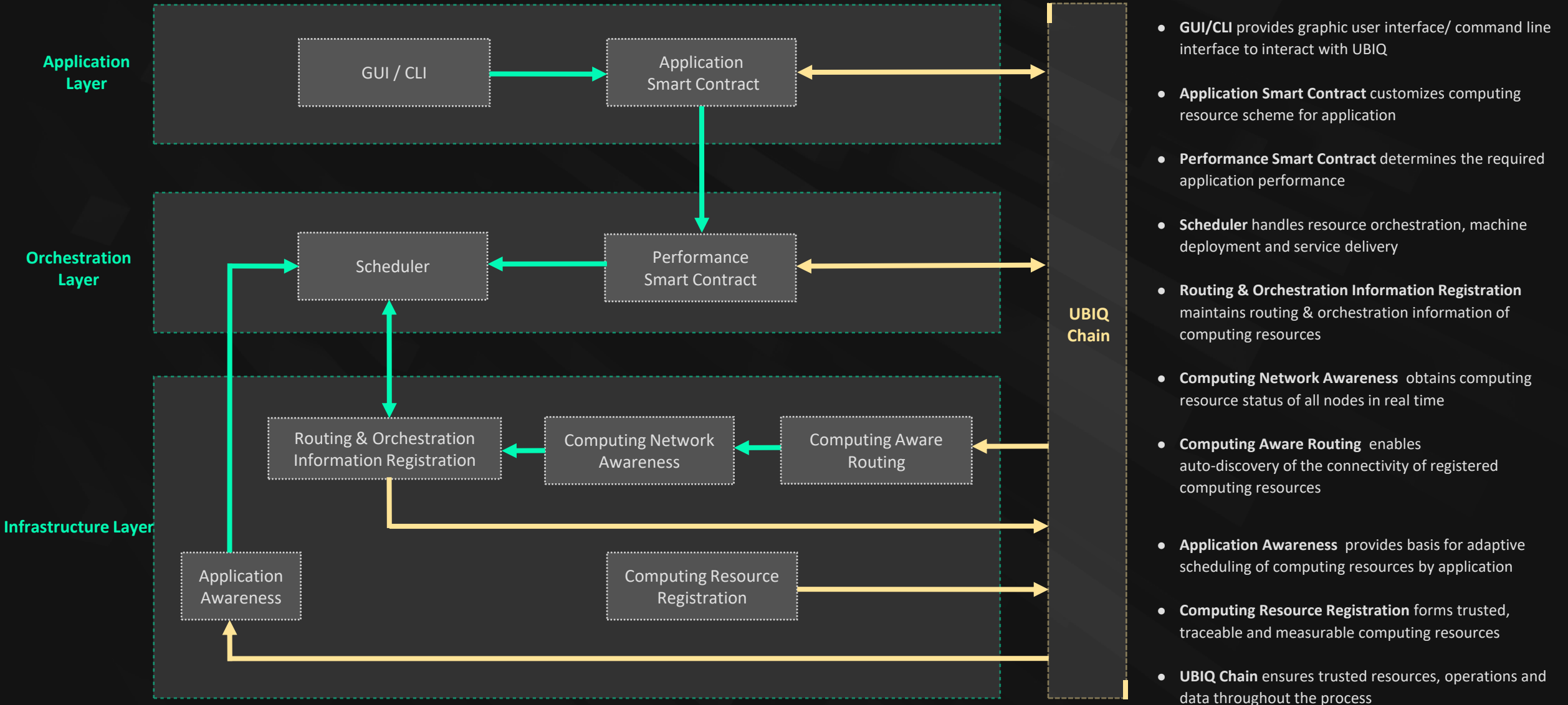
Intelligent Network
Management

Intelligent Management

establishes overall computing
resource map



UBIQnet Architecture



How UBIQnet Works

Standardization

Connecting Any Computing Device to UBIQ net
Generating Computing Resource NFT --- CRNFT

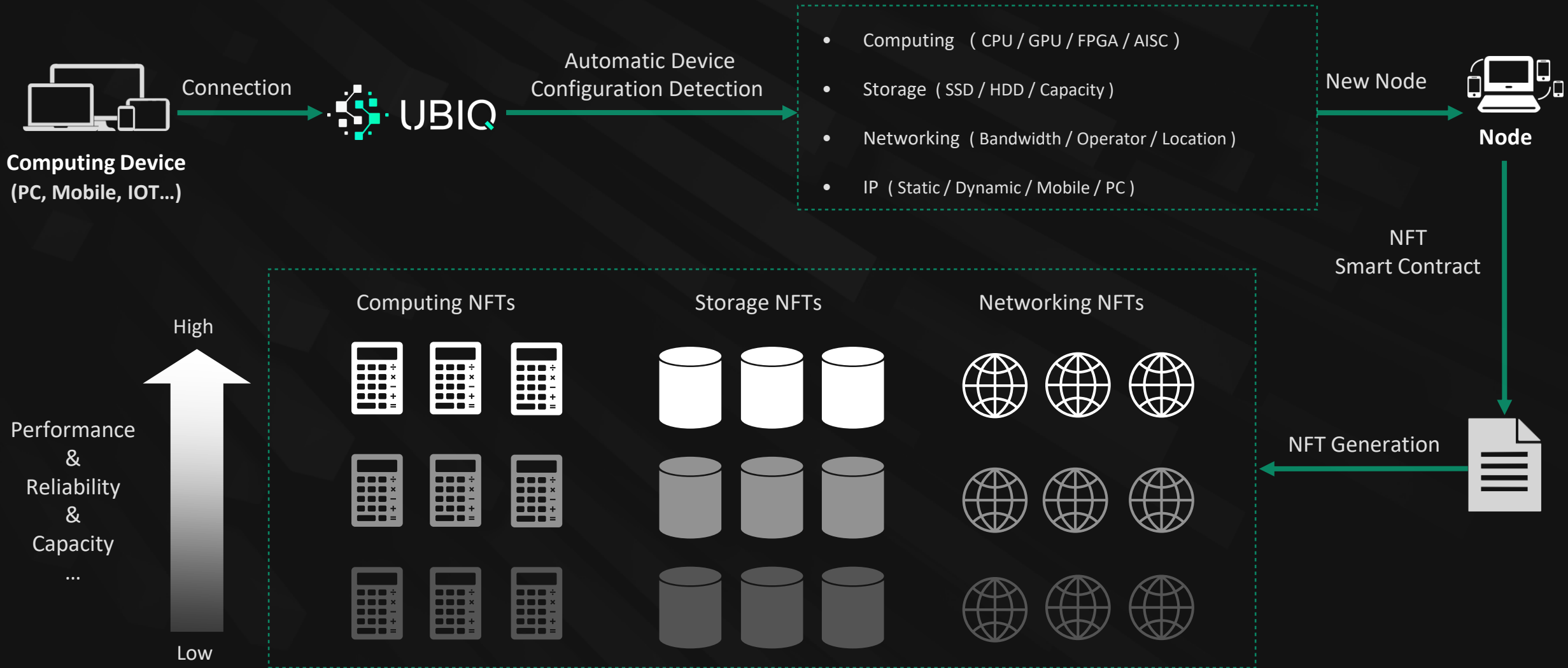
Modularization

Customizing Computing Resource Schemes & Scheduling Schemes for
Heterogeneous Applications via Smart Contracts

Automation

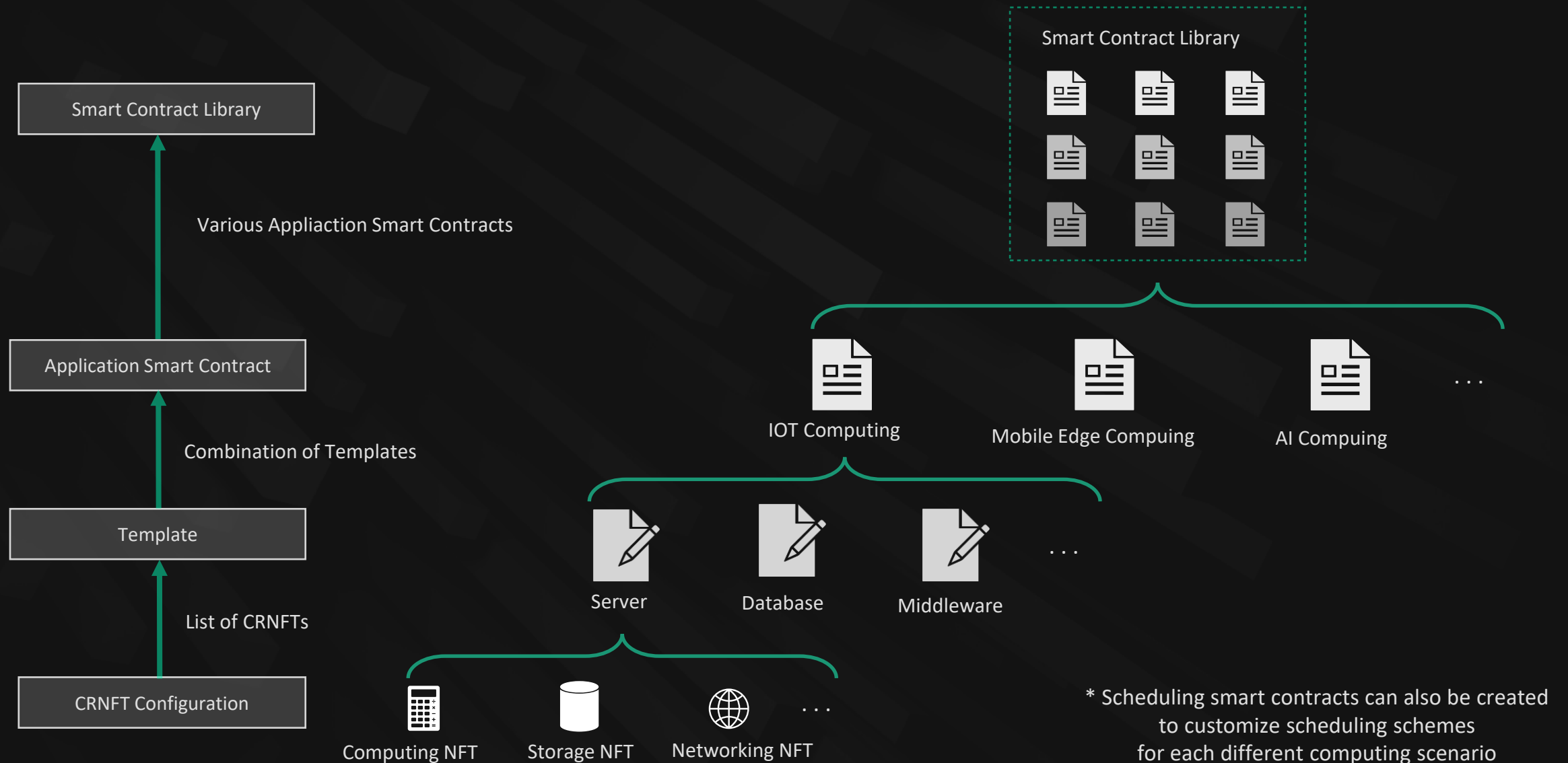
Automated Resource Orchestration, Machine Deployment and Service
Delivery for Ubiquitous Computing

Standardization

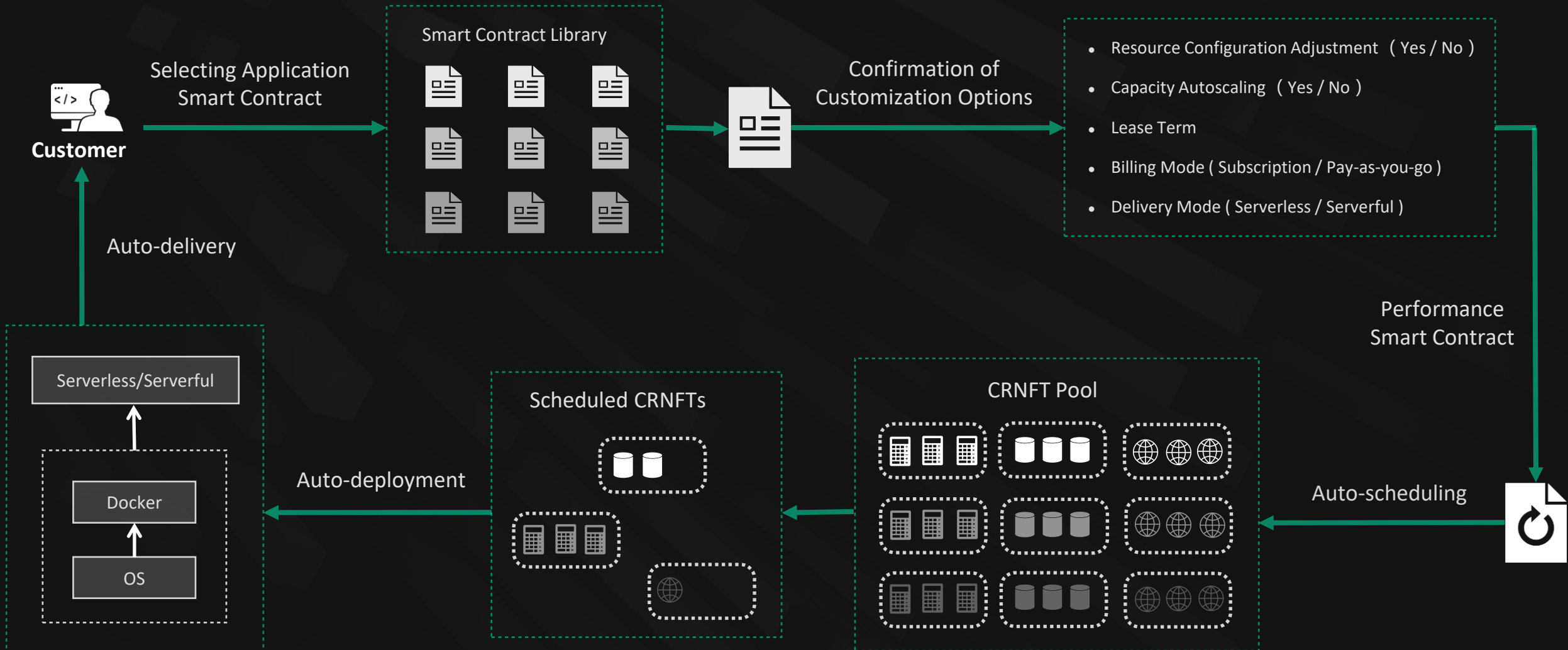


* The attributes of each NFT record the features of corresponding computing resource

Modularization



Automation

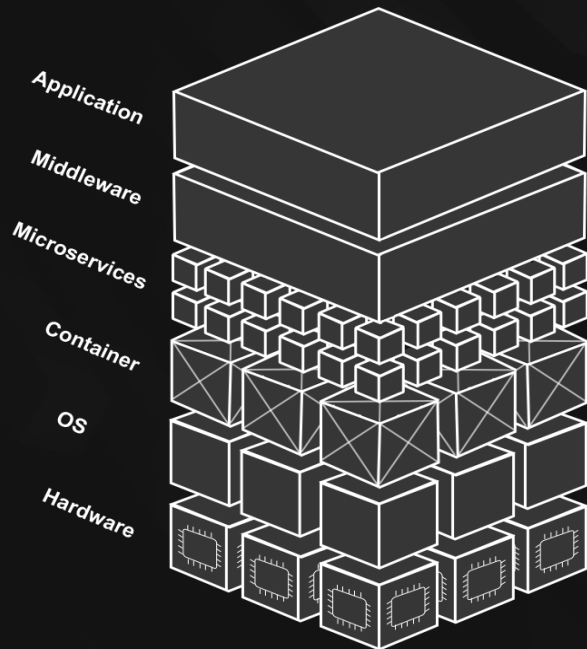


UBIQnet Features

Rebuilding the technology stack from the ground up for **Ubiquitous Computing**

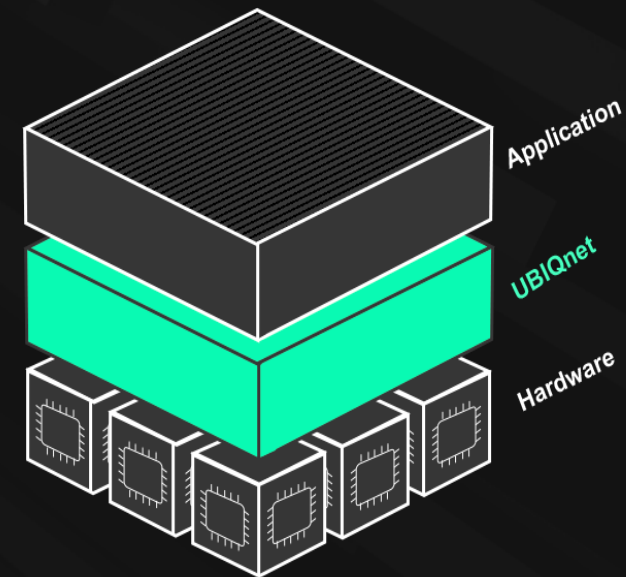
- Request application & performance level, UBIQnet does the rest
- Intelligent orchestration of hardware via standardized resources (CRNFTs)
- All resources continuously monitored and mapped using UBIQ chain

Currently




- Reliance on multiple frameworks & technologies
- Requires bespoke architecture specific to the application & restricted to that scale
- High skill & resource cost requirement
- Requires manual ops & maintenance

UBIQnet



- Ubiquitous computing as a first-class concern
- Distributed cloud-native design for any cloud, edge or device
- Infrastructure-agnostic enables quick development & deployment with effective cost
- Adaptive scaling removes manual operations
- Designed for heterogeneous computing application

Competitive Landscape

Dimensions		Public Cloud (E.g. AWS, Google Cloud)		Decentralized Computing Network			
				Definity	Filecoin	Helium	Flux
Computing Resource Provider		Data Center	Any Computing Device	Data Center	Data Center	Customized Device	Customized Device
On-Chain	Computing Resource Tokenization		Yes				
	Smart Contract Scheduling		Yes				
	Computing Resource Trading Result		Yes	Yes	Yes	Yes	Yes
Available Resource	Computing	Centralized	Decentralized	Decentralized			Decentralized
	Storage	Centralized	Decentralized	Decentralized	Decentralized		Decentralized
	Networking	Centralized	Decentralized	Decentralized		Decentralized	
Heterogeneous Computing Application		Part of the Edge Computing	Any Computing Application				

Tokenomics



Provider

Provider	Staking	Mining Reward	Dimensions for Reward Evaluating
Normal Node	No staking	On demand	<ul style="list-style-type: none">• Capacity of Computing Resource• Effective Online Time• Reliability• Amount of Staked Tokens
Stable Node	Staking	On demand / Contribution	
Validator Node	Staking	On demand / Contribution / Validation	



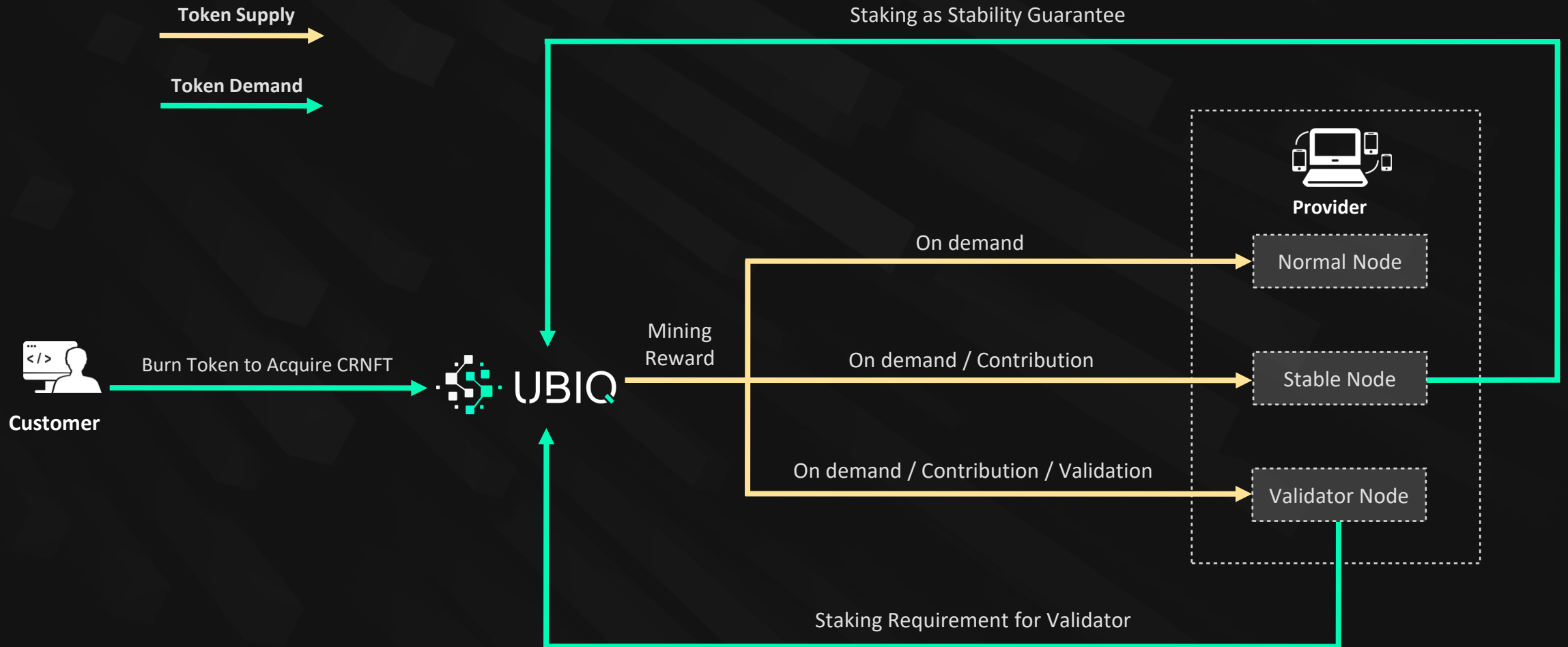
Developer

Developing New Application/Scheduling Smart Contract Based on the Trusted Operation Data on UBIQ Chain



- Oracle Supply & Demand Prediction Mechanism
- Treasury for Ecosystem Development and Monetary Policy

Tokenomics





Thanks



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