

NOUMENA PULSE

Bringing TradFi to the blockchain

NOUMENA : DIGITAL

Swiss deep-tech company transforming how software is designed, built and operated.
Focusing on **AI driven software development** and **asset tokenization**.



Zug, Switzerland

40+

employees

7+

years in business

AI

powered

Leadership



Juerg Kaeppli
Co-CEO, Co-Founder
MD Strategy Credit Suisse
Partner McKinsey
PhD Theoretical Physics



Vincent Peikert
Co-CEO, Founder
AlgoSwiss (exit)
Eleven (exit: Digital Asset)
PhD Physics

Our products



NOUMENA NPL & Runtime our core technology for building modular, event-driven applications



NOUMENA Cloud a secure, pay-as-you-go offering, ideal for PoCs/MVPs that endure actual validation



NOUMENA PULSE, mid-layer tech for blockchain, including wallet abstraction, blockchain connectors, HTTP connectors

Partner & clients (selection)



AllUnity



CKW



e-on



FLOW TRADERS



DWS



Helaba



Deutsche Leasing



GALAXY DIGITAL



21X



swisscom



SIX



NTT DATA



INACTA



pwc



GFT

Digital Assets: a mandatory evolution for TradFi amidst explosive growth

USD 18+ trillion

Expected tokenized
asset market by 2033*

USD 5+ trillion

Stablecoin transaction volume in
2024 alone*

74%

Of institutional investors plan to
increase digital asset exposure*

*Sources:

Boston Consulting Group (<https://media-publications.bcg.com/Tokenized-Assets.pdf>), CoinMetrics,
Fidelity (<https://www.fidelitydigitalassets.com/newsroom/research-and-insights/fidelity-digital-assets-research-finds-increased-adoption-digital-assets>)

Most TradFi players are not yet ready to participate

1

Incompatibility

- Legacy infrastructure is incompatible with blockchain
- Multiple, disconnected tools and platforms complicate digital asset adoption and require a steep learning curve

2

No integration paths

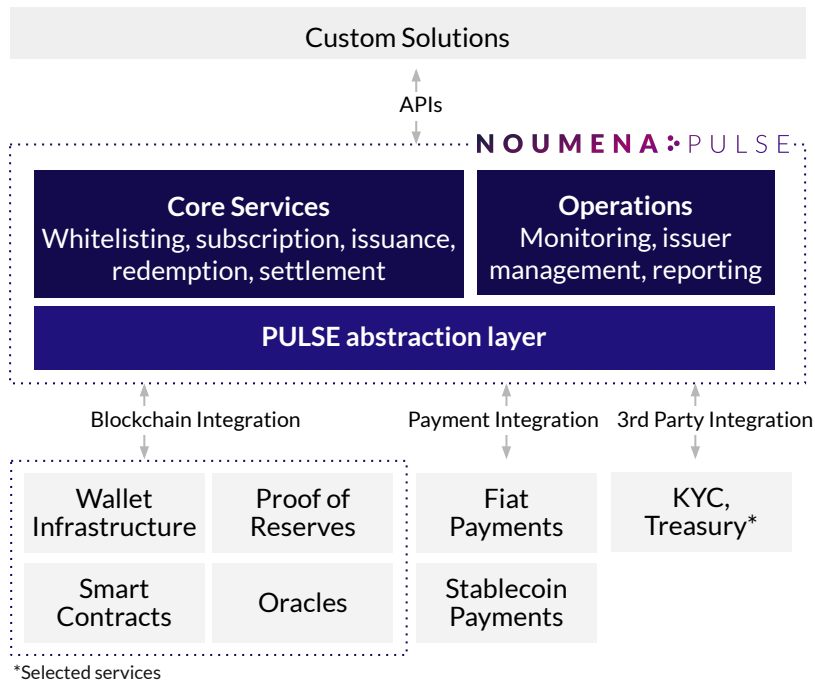
- Most banks and asset managers lack secure, compliant integration paths
- Technical barriers and high implementation costs when integrating digital assets into existing systems

3

Fast moving

- Fast moving field with regulatory pressure is rising (MiCA, DORA, Basel III...)
- The ecosystem evolves at rapid speed, keeping up with development and integrating them causes distraction

Introducing NOUMENA PULSE



NOUMENA Pulse accelerates integration between the blockchain and enterprise solutions

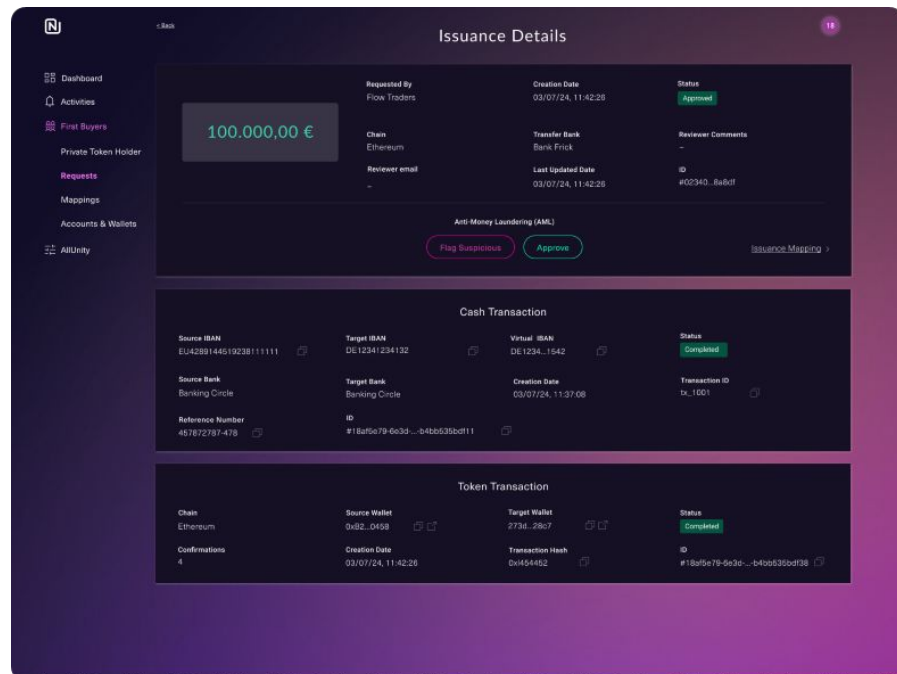
- Nativ multichain support, including wallet and smart contract abstraction and lifecycle management
- Compliant with regulatory requirements by default
- Reusable core elements of instrument lifecycle and operations processes

Why use NOUMENA Pulse to build a proof of concept

- **Speed:** Four weeks development, instantly usable
- **Completeness:** Covers all functional aspects of a stablecoin
- **Compliant:** Adheres to MICA and other regulations

Selected product features

- Plug-and-play digital asset business platform
- RWA tokens, NFT, stablecoins, certificates, and beyond
- Build on a secure, compliant foundation
- Policy engine, audit-ready architecture
- Supports external integrations (oracles, IoT, AI)



NOUMENA:PULSE

Why work with NOUMENA PULSE

NOUMENA PULSE



Abstracts away blockchain complexity

Develop logic once, deploy all major blockchains (EVM, Stellar, Polkadot, etc.)



Compatible with any wallet or key infrastructure

Work with any standard institution-grade wallet / HSM solution



No vendor lock-in

Self-hosted or cloud-native, own your data, tailor to your needs



Engineered for security, compliance, and extensibility

Fine-grained access control, transaction logging, built in support for demanding regulatory requirements



Expert team with proven track record

Expert team with proven track record, realizing regulated tokenization and stablecoin launches worldwide

Open ecosystem



Identity

Used for internal and external users



okta



Microsoft
Entra ID



KEYCLOAK



Treasury

Manages the reserve allocations and liquidity



Payment gateway

Aggregation of payment solutions considering a multi banking approach



Fides



Embat



Custody

Key management incl MPC, policies and smart contract management

Self Custody



Fireblocks

METACO



Institutional Custody

coinbase | Custody



BitGo



Nodes

Infrastructure for node access



INFURA



NOWNodes



KYC, KYB

Onboarding solutions



sumsub



Chainalysis

Satoshi Test

Deployment options - flexible, secure, enterprise-ready

Managed service

NOUMENA: CLOUD

- Fully managed service, hosted on compliant infrastructure (AWS, Azure)
- Fastest time to value: no DevOps overhead
- Banking-grade security (zero-trust infra)
- Continuous updates, monitoring, and security patching

Ideal for fintechs, startups, or pilot projects

Hybrid



NOUMENA: CLOUD

- Separate control and compute planes
- Keep sensitive data on-premise; outsource orchestration and smart contract logic
- Flexibility to adapt over time (e.g., gradual transition to full self-hosted)

Ideal for independent stablecoin and tokenization projects

On-Premise / Private Cloud



- Full deployment on your infrastructure — cloud or data center
- Meets highest data residency, isolation, and sovereignty requirements

Recommended for regulated financial institutions and government use

Add-on services available

Custom key management integration, Integration services, training & enablement for in-house teams, protocol design and off-/on-chain process modeling

Reference case: AllUnity regulated EUR stablecoin

The screenshot displays the AllUnity dashboard with a sidebar on the left containing navigation links: Dashboard, Activities, Clients, Activity, Settings, Users, Accounts & Wallets, Token Operation, Reserve Management, and Audit Log. The main content area is titled 'Transfer Accounts' and features four tabs: Transfer Accounts, Verification Accounts, Gas Tank, Verification Wallets, and Mint Wallets. Below these tabs are five data tables, each with a 'New account' button in the top right corner.

Transfer accounts table:

	Balance	IBAN	BIC	Bank Name	Country	Creation Date	Status	
	12.000.000	EU4289144519238111111	BCRLULLXXX	Banking Circle	Germany	03/07/24, 11:37:08	Completed	
	12.000.000	EU4289144519238111111	BCRLULLXXX	Banking Circle	Germany	03/07/24, 11:37:08	Completed	

Verification accounts table:

	Balance	IBAN	BIC	Bank Name	Country	Creation Date	Status	
	1.000	EU4289144519238111111	BCRLULLXXX	Banking Circle	Germany	03/07/24, 11:37:08	Completed	

Gas tank table:

	Balance	Native Coins	Chain	Wallet	Creation Date	Status	
	0.00	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	0.00	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	0.00	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	0.00	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	

Verification wallet table:

	Balance	Native Coins	Chain	Wallet	Creation Date	Status	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	

Mint Wallet table:

	Balance	Native Coins	Chain	Wallet	Creation Date	Status	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	
	1207000	1200 ETH	Ethereum	4578...5328	03/07/24, 11:37:08	Completed	

Implemented functionality

- Onboarding and setup of Authorized Participants, including payment routes, using multi-eye principles
- Implementation of issuance, redemption and swap processes for the stable coin, all processes included validation, routing and compliance review
- Full on platform configuration of operations including accounts, wallets, gas tanks, for all banks and chains
- Break glass solutions to halt operations on different levels (wallet addresses, smart contracts, authorized participants)
- Least privilege authorisation concept with 75 user rights, grouped in 8 roles, allowing access only on required customer data
- Solution built on Mica, DORA and ISO 27001 requirements

Powered by: **NOUMENA** PULSE

NOUMENA client reference cases



Regulated stablecoin



Regulated RE tokenization



Tokenised Money Market Fund



Regulated stablecoin



Solar PV financing



On-chain green H2 certification



Ticketing



Project finance tokenization



Retail Digital Asset Offering



On-chain fund reference data



Defi exchange integration



Regulated RE tokenization



RWA blockchain



Decentralized data sharing

Confi, Vietnam

Crypto / digital asset exchange



Gold tokenization

NOUMENA blockchain partners



Stellar



Arbitrum



Cardano



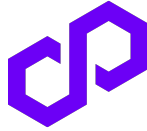
Polkadot



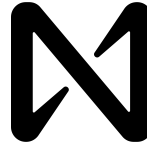
Avalanche



Optimism



Polygon



Near



Base



Ethereum

... many others

NOUMENA implementation and tech partners



PwC Germany



Bearingpoint



NTT Data



AWS



MS Azure



Additiv



Zühlke



ti&m



GFT

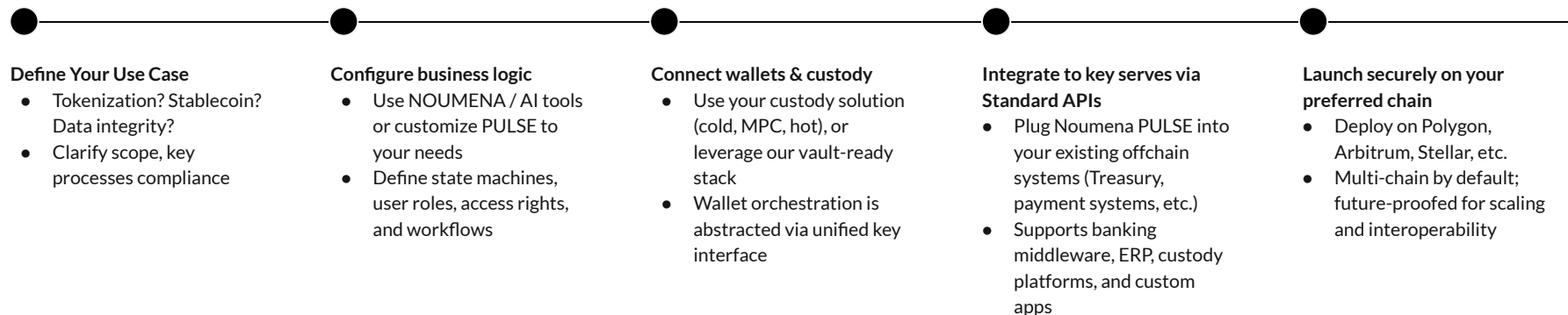


INACTA

... many others

How does a typical tokenization project work?

From concept to deployment in weeks



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