

◆ ENTERPRISE WEB 3.0

◆ DISTRIBUTED CONFIDENTIALITY

◆ TOKENIZATION



ENTERPRISE GATEWAY TO WEB3

ACCELERATING THE JOURNEY OF BUSINESS TO WEB3 ADOPTION


[partner version]



The Web 3.0 Platform

U&T

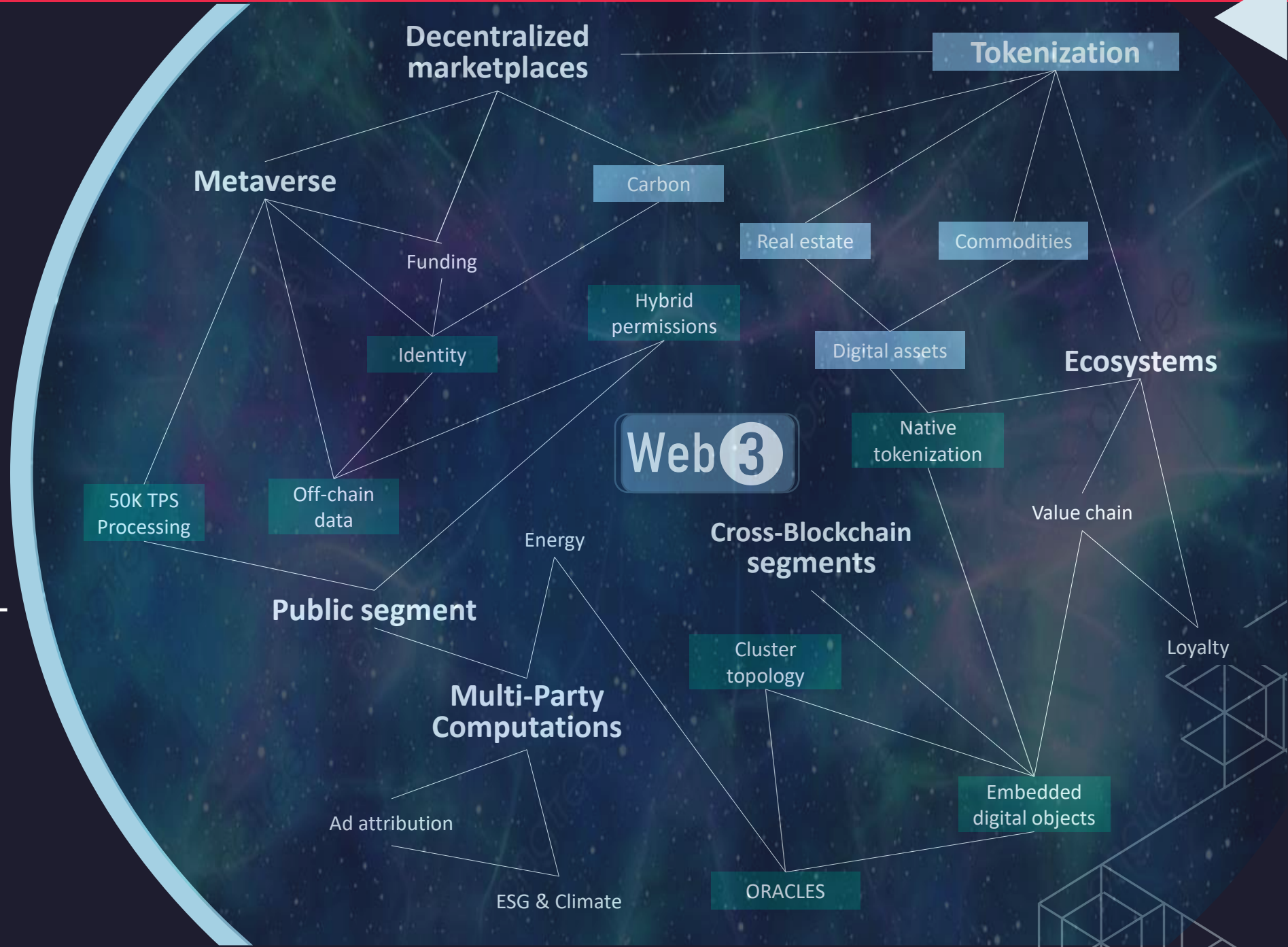
giving enterprises control in open decentralized ecosystems.



FOR BUSINESSES SEEKING TO TAKE ADVANTAGE OF PUBLIC BLOCKCHAINS,
WHILE RETAINING GOVERNANCE AND SECURITY

DGT aims to resolve the most pressing issues in enterprise adoption

and become the universal Web3 solution for the \$60T market of business ecosystems by 2025



Private blockchains are for constrained ecosystems, but public blockchains are too risky.

- open ecosystem vs. control
- hard to onboard
- lack of data confidentiality
- low interoperability



UNMET GLOBAL DEMAND

There is a clear gap between the capabilities of blockchain projects and enterprise demands.

This leads to few adoption cases over the years and even fewer success stories:

▶ Enterprise blockchain integration = one of the leading problems of this 86% CAGR market.

▶ 94% of Fortune 500 execs have blockchain plans. Yet only 27% have a functioning product.

▶ Among those products, most are limited pilot projects without concrete results.

1 PERMISSIONED CHAINS

- *Successful only in regulated, high-trust environments*
- *Unclear, risky, expensive versus legacy systems*
- *Lack of ability to form open business ecosystems*



HYPERLEDGER

r3.corda

2 PUBLIC CHAINS

- *Lack of control and governance (roles, transactions, permissions)*
- *Eventual high fee and scalability concerns*
- *“Flat” networks do not reflect layered business ecosystems*



ethereum

SOLANA



FANTOM

3 CROSS-CHAINS

- *Lack of enterprise integration*
- *Mostly connects blockchain to blockchain or other decentralized organizations (DeFi)*
- *Projects compete, rather than create shared value*

COSMOS

Polkadot

Bitgert

DGT Network is a **Web3** enterprise hybrid-permission platform.

DGT's cluster structure provides enterprises with *ecosystem-building* and resources scaling of public chains, while retaining permissioned *governance and control* over their own multi-organizational blockchain cluster.

SOLUTIONS

- Open ecosystem, while retaining control (H-Net Architecture)
- 50k TPS Secure processing (F-BFT Consensus)
- Simple onboarding (Clusters, Programmable tx)
- Real-life asset / identity / business verification (Digital Identity, Off-Chain Oracles)
- Exchanging sensitive data confidentially, securely and compliantly (SMPC, ZKP)
- Blockchain interoperability (Layer 1 Bridges)

PRODUCTS / SERVICES

- Native tokenization without smart contracts
- Data ecosystems for sharing sensitive information in untrusted environments
- Decentralized Digital Identity as a Service
- Notary Nodes as a Service

WEB 3 LAUNCHPAD

Key value:

Standard package for enterprises to create their own connected ecosystems using blockchain.

- Non-core revenues
- Omnichannel enriched data
- Cross-environment integration
- Tokens – new carriers of value

Key services:

1

TOKENIZATION

Connected loyalty economies; faster and more liquid fundraising

2

MULTI-PARTY COMPUTATION

Enriched data insight and exchange with minimal regulatory / security risks

Business capabilities:



Native direct tokenization



Off-chain calculations (Notary ORACLES)



Integration into major blockchains



Embedded digital objects



Decentralized native identity system



Secure Multi-Party Computation algo

Tech capabilities:



Hybrid network governance (clusters)



Absolute horizontal & vertical scalability



Consensus (Sybil, BFT, governance)



50K TPS performance



Native coin: an added capital foundation



Zero-cost micro-transactions



Decentralized Marketplaces



B2B2C Ecosystems



Asset Tokenization



Privacy-Enhancing Technology

DGT DEVELOPED 8 KEY TECHNOLOGIES:

F-BFT Consensus
federated, secure, high-performance



GARANASKA Tokenization
smart-contract-free token emission



Embedded Identity
native, practical decentralized ID



Notary ORACLES
off-chain calculation nodes



H-Net Architecture
segments of different access types



Transaction Families
processing of any digital asset or value



Secure Multi-Party Computation
for sharing sensitive data

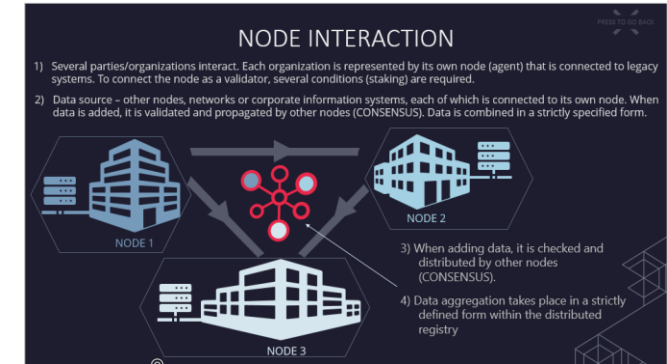
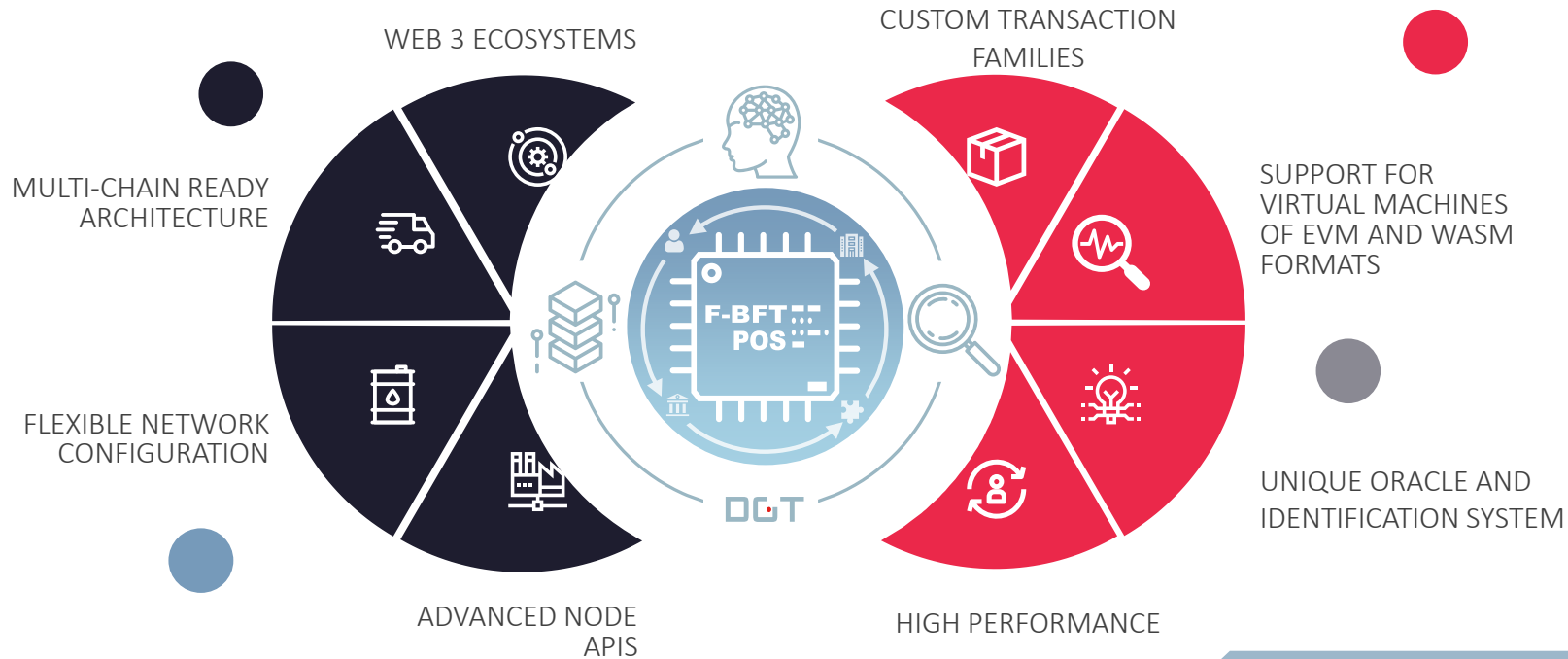


Variable Cryptography
including quantum-resistance

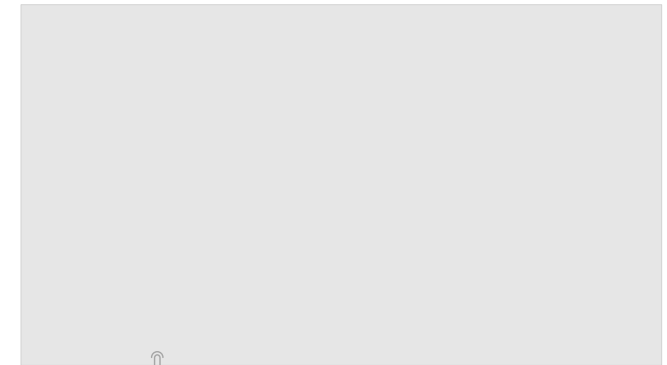
DGT's hybrid network and a two-layer consensus adapt to the blockchain trilemma (decentralized, scalable, secure).

DGT's support for variable permissions bridges institutional market participants to crypto-native systems.

DGT is used for deploying decentralized DeFi and Web 3.0 services. You can think of the platform as an infrastructure solution to support various applications targeted at the end user market.



DGT node interaction ideology



High-level technical understanding of DGT

The DGT platform has a unique architecture based on a hybrid network and a two-layer F-BFT and POS consensus, which makes the system secure and performant, allowing it to solve the blockchain trilemma (decentralized, scalable, secure). An important feature of DGT is the support of special network segments with special permissions, which allows building a bridge to institutional market participants from crypto-native systems.

WHY NOW?

\$14 Billion

expected spending on blockchain in 2023 alone.

*Yet most use cases for enterprises remain unsolved by current
blockchain providers.*



DGT FEATURES

The DGT version is being developed in accordance with the roadmap and CORE/GARANASKA versions. For convenience, the functionality is presented in the form of packages, also combined into groups:

CORE FEATURES

Ledger/Consensus

Ledger Type: DAG
Consensus: F-BFT
Sybil Resistance: PoS
Heartbeat

Trust Providers

Off-chain Trust: Notary Hub
Privacy: Diffprivlib
ZKP: Bulletproofs/ Set
Membership
SMPC Calculations

Network Mode

Architecture: H-Net
Federation: clustering
CFT: variable leaders

Cryptography

ECDSA (Secp256k1)
ECDH: Secp256k1, X25519
NTRU (WolfSSL) – in
development

Transaction /API

Transaction families (Service)
DGTSET (topology), BGT, DEC,
XSERF, DKEY, DID, XCERT

Performance

TPS: 1K (50K)
Finality: 1s

UTILITY

Tokenization

Native Coin: DGT
Supply: Minting
Participants: SLA
Secondary Tokens:
ERC-20/BEP-20, ERC-
721, ERC 1155

Smart Contracts

EVM (Seth)
WASM (Sabre)

Identification

DID/JSON-LD
Verifiable Credential:
Hashicorp Vault

SDK

Python
C++
Rust

Clients

CLI
Dashboard/Explorer
Wallet (Android, iOS)

Oracles

Notary nodes for
off-chain
calculations

Integration

Integration with
external networks
(bridges and Relay
nodes)

PRODUCTIVITY

MARKET

Social Profile

Discord
Twitter
YouTube
Content / Webinar

R&D Community

University
partnerships
Grants & Dev
ecosystem

Market Share

Max Supply: 677289984
Initial Price: 0.8
Low Volatility:
Algorithmic

Ecosystem/TVL

Current: 0
Target: \$100M
Looking for
partnerships

Investment

\$1.5M + \$10M

Environment

GitHub
Docker
TestNet: Canaries
Docs: Sphinx

Exchange

DEX
Major CEX
DGT Exchange in
2024

DEVOPS AND MATURITY

CORE
BASIC BLOCKCHAIN
FUNCTIONALITY

GARANASKA
TOKENIZATION AND
SMART CONTRACTS

While DGT-CORE is intended to be distributed as a "box" (you can use it to develop your own functionality), DGT-GARANASKA is distributed as node software that connects to an existing network.

APACHE 2.0

AGPLV3

DEC: UNPRECEDENTED NATIVE COIN

The Decentralized Economy Coin is the native coin of DGT Network. DGT Network is organized into (ecosystems), each a distinct economy, sharing DEC as their one common currency.

- Reliable governance: Mining based on SLA-measured node activity, on POW / POS.
- Absolutely transparent: Trustworthy distribution.
- Based on real economic theory: Robust tokenomics model.
- Supports multiple economies: Each new use case raises value.
- F-BFT Consensus: Inherently scalable and utmost secure.
- Neural Network enabled: Security, distribution, learning.

Join the DEC economy to utilize the decentralized token with the best governance system behind it.

VERSATILE WHITE-LABEL TOKENIZATION

DGT-GARANASKA is compatible with all Ethereum token formats, implementing similar functionality through different type of transactions.

COMMODITY-BACKED

STABLECOINS: ERC-20 / ERC-777, ERC-721, ERC-1155, ERC-4340, ERC-4341, ERC-4342, ERC-4343, ERC-4344, ERC-4345, ERC-4346, ERC-4347, ERC-4348, ERC-4349, ERC-4350, ERC-4351, ERC-4352, ERC-4353, ERC-4354, ERC-4355, ERC-4356, ERC-4357, ERC-4358, ERC-4359, ERC-4360, ERC-4361, ERC-4362, ERC-4363, ERC-4364, ERC-4365, ERC-4366, ERC-4367, ERC-4368, ERC-4369, ERC-4370, ERC-4371, ERC-4372, ERC-4373, ERC-4374, ERC-4375, ERC-4376, ERC-4377, ERC-4378, ERC-4379, ERC-4380, ERC-4381, ERC-4382, ERC-4383, ERC-4384, ERC-4385, ERC-4386, ERC-4387, ERC-4388, ERC-4389, ERC-4390, ERC-4391, ERC-4392, ERC-4393, ERC-4394, ERC-4395, ERC-4396, ERC-4397, ERC-4398, ERC-4399, ERC-4400, ERC-4401, ERC-4402, ERC-4403, ERC-4404, ERC-4405, ERC-4406, ERC-4407, ERC-4408, ERC-4409, ERC-4410, ERC-4411, ERC-4412, ERC-4413, ERC-4414, ERC-4415, ERC-4416, ERC-4417, ERC-4418, ERC-4419, ERC-4420, ERC-4421, ERC-4422, ERC-4423, ERC-4424, ERC-4425, ERC-4426, ERC-4427, ERC-4428, ERC-4429, ERC-4430, ERC-4431, ERC-4432, ERC-4433, ERC-4434, ERC-4435, ERC-4436, ERC-4437, ERC-4438, ERC-4439, ERC-4440, ERC-4441, ERC-4442, ERC-4443, ERC-4444, ERC-4445, ERC-4446, ERC-4447, ERC-4448, ERC-4449, ERC-4450, ERC-4451, ERC-4452, ERC-4453, ERC-4454, ERC-4455, ERC-4456, ERC-4457, ERC-4458, ERC-4459, ERC-4460, ERC-4461, ERC-4462, ERC-4463, ERC-4464, ERC-4465, ERC-4466, ERC-4467, ERC-4468, ERC-4469, ERC-4470, ERC-4471, ERC-4472, ERC-4473, ERC-4474, ERC-4475, ERC-4476, ERC-4477, ERC-4478, ERC-4479, ERC-4480, ERC-4481, ERC-4482, ERC-4483, ERC-4484, ERC-4485, ERC-4486, ERC-4487, ERC-4488, ERC-4489, ERC-4490, ERC-4491, ERC-4492, ERC-4493, ERC-4494, ERC-4495, ERC-4496, ERC-4497, ERC-4498, ERC-4499, ERC-4500, ERC-4501, ERC-4502, ERC-4503, ERC-4504, ERC-4505, ERC-4506, ERC-4507, ERC-4508, ERC-4509, ERC-4510, ERC-4511, ERC-4512, ERC-4513, ERC-4514, ERC-4515, ERC-4516, ERC-4517, ERC-4518, ERC-4519, ERC-4520, ERC-4521, ERC-4522, ERC-4523, ERC-4524, ERC-4525, ERC-4526, ERC-4527, ERC-4528, ERC-4529, ERC-4530, ERC-4531, ERC-4532, ERC-4533, ERC-4534, ERC-4535, ERC-4536, ERC-4537, ERC-4538, ERC-4539, ERC-4540, ERC-4541, ERC-4542, ERC-4543, ERC-4544, ERC-4545, ERC-4546, ERC-4547, ERC-4548, ERC-4549, ERC-4550, ERC-4551, ERC-4552, ERC-4553, ERC-4554, ERC-4555, ERC-4556, ERC-4557, ERC-4558, ERC-4559, ERC-4560, ERC-4561, ERC-4562, ERC-4563, ERC-4564, ERC-4565, ERC-4566, ERC-4567, ERC-4568, ERC-4569, ERC-4570, ERC-4571, ERC-4572, ERC-4573, ERC-4574, ERC-4575, ERC-4576, ERC-4577, ERC-4578, ERC-4579, ERC-4580, ERC-4581, ERC-4582, ERC-4583, ERC-4584, ERC-4585, ERC-4586, ERC-4587, ERC-4588, ERC-4589, ERC-4590, ERC-4591, ERC-4592, ERC-4593, ERC-4594, ERC-4595, ERC-4596, ERC-4597, ERC-4598, ERC-4599, ERC-4600, ERC-4601, ERC-4602, ERC-4603, ERC-4604, ERC-4605, ERC-4606, ERC-4607, ERC-4608, ERC-4609, ERC-4610, ERC-4611, ERC-4612, ERC-4613, ERC-4614, ERC-4615, ERC-4616, ERC-4617, ERC-4618, ERC-4619, ERC-4620, ERC-4621, ERC-4622, ERC-4623, ERC-4624, ERC-4625, ERC-4626, ERC-4627, ERC-4628, ERC-4629, ERC-4630, ERC-4631, ERC-4632, ERC-4633, ERC-4634, ERC-4635, ERC-4636, ERC-4637, ERC-4638, ERC-4639, ERC-4640, ERC-4641, ERC-4642, ERC-4643, ERC-4644, ERC-4645, ERC-4646, ERC-4647, ERC-4648, ERC-4649, ERC-4650, ERC-4651, ERC-4652, ERC-4653, ERC-4654, ERC-4655, ERC-4656, ERC-4657, ERC-4658, ERC-4659, ERC-4660, ERC-4661, ERC-4662, ERC-4663, ERC-4664, ERC-4665, ERC-4666, ERC-4667, ERC-4668, ERC-4669, ERC-4670, ERC-4671, ERC-4672, ERC-4673, ERC-4674, ERC-4675, ERC-4676, ERC-4677, ERC-4678, ERC-4679, ERC-4680, ERC-4681, ERC-4682, ERC-4683, ERC-4684, ERC-4685, ERC-4686, ERC-4687, ERC-4688, ERC-4689, ERC-4690, ERC-4691, ERC-4692, ERC-4693, ERC-4694, ERC-4695, ERC-4696, ERC-4697, ERC-4698, ERC-4699, ERC-4700, ERC-4701, ERC-4702, ERC-4703, ERC-4704, ERC-4705, ERC-4706, ERC-4707, ERC-4708, ERC-4709, ERC-4710, ERC-4711, ERC-4712, ERC-4713, ERC-4714, ERC-4715, ERC-4716, ERC-4717, ERC-4718, ERC-4719, ERC-4720, ERC-4721, ERC-4722, ERC-4723, ERC-4724, ERC-4725, ERC-4726, ERC-4727, ERC-4728, ERC-4729, ERC-4730, ERC-4731, ERC-4732, ERC-4733, ERC-4734, ERC-4735, ERC-4736, ERC-4737, ERC-4738, ERC-4739, ERC-4740, ERC-4741, ERC-4742, ERC-4743, ERC-4744, ERC-4745, ERC-4746, ERC-4747, ERC-4748, ERC-4749, ERC-4750, ERC-4751, ERC-4752, ERC-4753, ERC-4754, ERC-4755, ERC-4756, ERC-4757, ERC-4758, ERC-4759, ERC-4760, ERC-4761, ERC-4762, ERC-4763, ERC-4764, ERC-4765, ERC-4766, ERC-4767, ERC-4768, ERC-4769, ERC-4770, ERC-4771, ERC-4772, ERC-4773, ERC-4774, ERC-4775, ERC-4776, ERC-4777, ERC-4778, ERC-4779, ERC-4780, ERC-4781, ERC-4782, ERC-4783, ERC-4784, ERC-4785, ERC-4786, ERC-4787, ERC-4788, ERC-4789, ERC-4790, ERC-4791, ERC-4792, ERC-4793, ERC-4794, ERC-4795, ERC-4796, ERC-4797, ERC-4798, ERC-4799, ERC-4800, ERC-4801, ERC-4802, ERC-4803, ERC-4804, ERC-4805, ERC-4806, ERC-4807, ERC-4808, ERC-4809, ERC-4810, ERC-4811, ERC-4812, ERC-4813, ERC-4814, ERC-4815, ERC-4816, ERC-4817, ERC-4818, ERC-4819, ERC-4820, ERC-4821, ERC-4822, ERC-4823, ERC-4824, ERC-4825, ERC-4826, ERC-4827, ERC-4828, ERC-4829, ERC-4830, ERC-4831, ERC-4832, ERC-4833, ERC-4834, ERC-4835, ERC-4836, ERC-4837, ERC-4838, ERC-4839, ERC-4840, ERC-4841, ERC-4842, ERC-4843, ERC-4844, ERC-4845, ERC-4846, ERC-4847, ERC-4848, ERC-4849, ERC-4850, ERC-4851, ERC-4852, ERC-4853, ERC-4854, ERC-4855, ERC-4856, ERC-4857, ERC-4858, ERC-4859, ERC-4860, ERC-4861, ERC-4862, ERC-4863, ERC-4864, ERC-4865, ERC-4866, ERC-4867, ERC-4868, ERC-4869, ERC-4870, ERC-4871, ERC-4872, ERC-4873, ERC-4874, ERC-4875, ERC-4876, ERC-4877, ERC-4878, ERC-4879, ERC-4880, ERC-4881, ERC-4882, ERC-4883, ERC-4884, ERC-4885, ERC-4886, ERC-4887, ERC-4888, ERC-4889, ERC-4890, ERC-4891, ERC-4892, ERC-4893, ERC-4894, ERC-4895, ERC-4896, ERC-4897, ERC-4898, ERC-4899, ERC-4900, ERC-4901, ERC-4902, ERC-4903, ERC-4904, ERC-4905, ERC-4906, ERC-4907, ERC-4908, ERC-4909, ERC-4910, ERC-4911, ERC-4912, ERC-4913, ERC-4914, ERC-4915, ERC-4916, ERC-4917, ERC-4918, ERC-4919, ERC-4920, ERC-4921, ERC-4922, ERC-4923, ERC-4924, ERC-4925, ERC-4926, ERC-4927, ERC-4928, ERC-4929, ERC-4930, ERC-4931, ERC-4932, ERC-4933, ERC-4934, ERC-4935, ERC-4936, ERC-4937, ERC-4938, ERC-4939, ERC-4940, ERC-4941, ERC-4942, ERC-4943, ERC-4944, ERC-4945, ERC-4946, ERC-4947, ERC-4948, ERC-4949, ERC-4950, ERC-4951, ERC-4952, ERC-4953, ERC-4954, ERC-4955, ERC-4956, ERC-4957, ERC-4958, ERC-4959, ERC-4960, ERC-4961, ERC-4962, ERC-4963, ERC-4964, ERC-4965, ERC-4966, ERC-4967, ERC-4968, ERC-4969, ERC-4970, ERC-4971, ERC-4972, ERC-4973, ERC-4974, ERC-4975, ERC-4976, ERC-4977, ERC-4978, ERC-4979, ERC-4980, ERC-4981, ERC-4982, ERC-4983, ERC-4984, ERC-4985, ERC-4986, ERC-4987, ERC-4988, ERC-4989, ERC-4990, ERC-4991, ERC-4992, ERC-4993, ERC-4994, ERC-4995, ERC-4996, ERC-4997, ERC-4998, ERC-4999, ERC-5000.

AND EVEN MORE:

Special types of nodes (NODERS) play the role of bridges for the physical world. Built by gateways for exchanging tokens for fiat, money and cryptocurrencies. State reflection in the Ethereum network.

These tokens are ideal for the rapid enterprise and deployment.

- Any value: Variable transactions; any digital asset.
- Atomic swap: Inter-asset peer-to-peer exchange mechanism.
- Mirroring: Another possibilities in other blockchains.
- White-label tools: Including mobile wallet apps, APIs, dashboards.
- Security: Absolute security against attack vectors.
- Volatility-free: Independent value from core native coin.

DGT'S GARANASKA tokenization is based on advanced financial-economic models

DGT MEANS EMBRACING NEW POSSIBILITIES
















- Hierarchical Topology**: The DGT Network is based on a group of nodes – clusters. Each cluster is a financial-economic transaction system, and clusters are part of the total network.
- F-BFT Consensus**: The high-performance federative consensus is both scalable, cost-effective and generation-agnostic, as well as fully resistant to sybil attacks and other malicious actors.
- Variable Tx**: The DGT Network is capable of executing any piece of digital value transfer (tokens, DGT, ETH, etc.), digital tokens, smart contracts, digital goods, etc. in one. All benefits of any limit of value.
- Hybrid Network**: The part of the DGT Network that allows other to interact (permissionless or under permissioned) is based on primary (permissioned) clusters.

other distinctive features:

- MODULAR
- ANCHORED
- OPEN SOURCED
- INTEGRATIVE
- ANALYTICAL

PROCESSING

The characteristics of the network can be derived from the idea of its volume (the number of verifying nodes), as well as the volume of transactions and their characteristics.

	TPS	Nodes	Validators	Transaction Fee	Transaction Finality	Total Transactions to date	Transaction Governance	Governance Supervision
Ethereum 	15	300 000	6833	\$4 - \$40	5min	1B	Soft governance	Off-chain governance processes
Binance Smart Chain 	100		21	\$0.01	75sec	144M		Community-governance voting mechanism
Solana 	50K TPS (or 3K TPS according others etc.)	685	1000+	\$0.00001	~1sec	72B	Coin Holder Staking	Validators (KYC needed)
Algorand 	20 TPS (1M Daily)	140	Flexible	\$0.0001	4.5sec	N/A	Coin Holder Staking	Governors (each governor must commit to keeping a certain Algo balance)
Cosmos 	1 400 TPS (10 000 daily)	125		\$0.1		290000		
Avalanche 	4 500 TPS (20K Daily)	865	~1000	\$0.1	3sec	1.9M	Coin Holder Staking	Validators
Polkadot 	400 TPS (10K Daily)	297	~1000	\$0.01	30sec	78.93M	Coin Holder Staking	Coin Holders
Terra 	3 TPS	100+	130	0.1%-1% for all Terra transactions	1min	N/A	Coin Holder Staking	
Polygon 	60-105 TPS (~3M Daily)	400+	100	\$0.002	2.3sec			
VeChain 	10 000 TPS	2500	100+	\$0,12				Validators
Fantom 	10K TPS	50	57	\$0,05				
Cardano 	2 TPS	3173			10-60sec			
Bitgert 								
SafeCoin 	50K+			\$0.0001	~1sec		Coin Holder Staking	Validators (no KYC)
DGT* 	1K	36	24	\$0.1	~2 sec	0	Delegates	Validators
DGT**	50K	161	91	\$0.1	~1sec	15M	Coin Holder Staking	Coin Holders

LEADERSHIP



Alexander Khvatov
Finance
DGT Token Exchange



Valery Khvatov
Technology & Solution
Architecture



Stanislav Parsov
Engineering



Shahroze Khan
Ecosystem Growth



Alla Wieliczker
Marketing

ADVISORY BOARD



Prasanna Kharshikar
VP Blockchain, Ernst & Young
UBS, Accenture, Deloitte, CitiGroup



Mark Schinkel
Managing Partner, BlockForge
Board Member, Coral Blockchain



Matt Andrews
UK Wealth Management Platform
Masthaven Bank, Bluestone Mortgages

RESEARCH BOARD



Hakim Hafid, PhD
Founding Director, Network Research Lab
Founder, Montreal Blockchain Lab



Alexander Bogdanov, PhD
D.Sc., Professor, Academic
Grid Calculations and Math Modeling, SPB State University



Chang Lu, PhD
Research, Blockchain@UBC
Web3 Committee, Canadian Blockchain Consortium



Persival Ballesté, PhD
Data Science, Artificial Intelligence
LatAm Fintech markets

Partners



Titan Technology
Off-shore development



ProPERT
Real estate tokenization

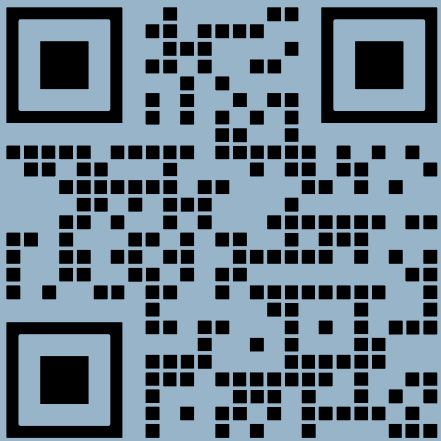


Saint-Petersburg U
Research Team













TAC Consulting
LatAm Growth

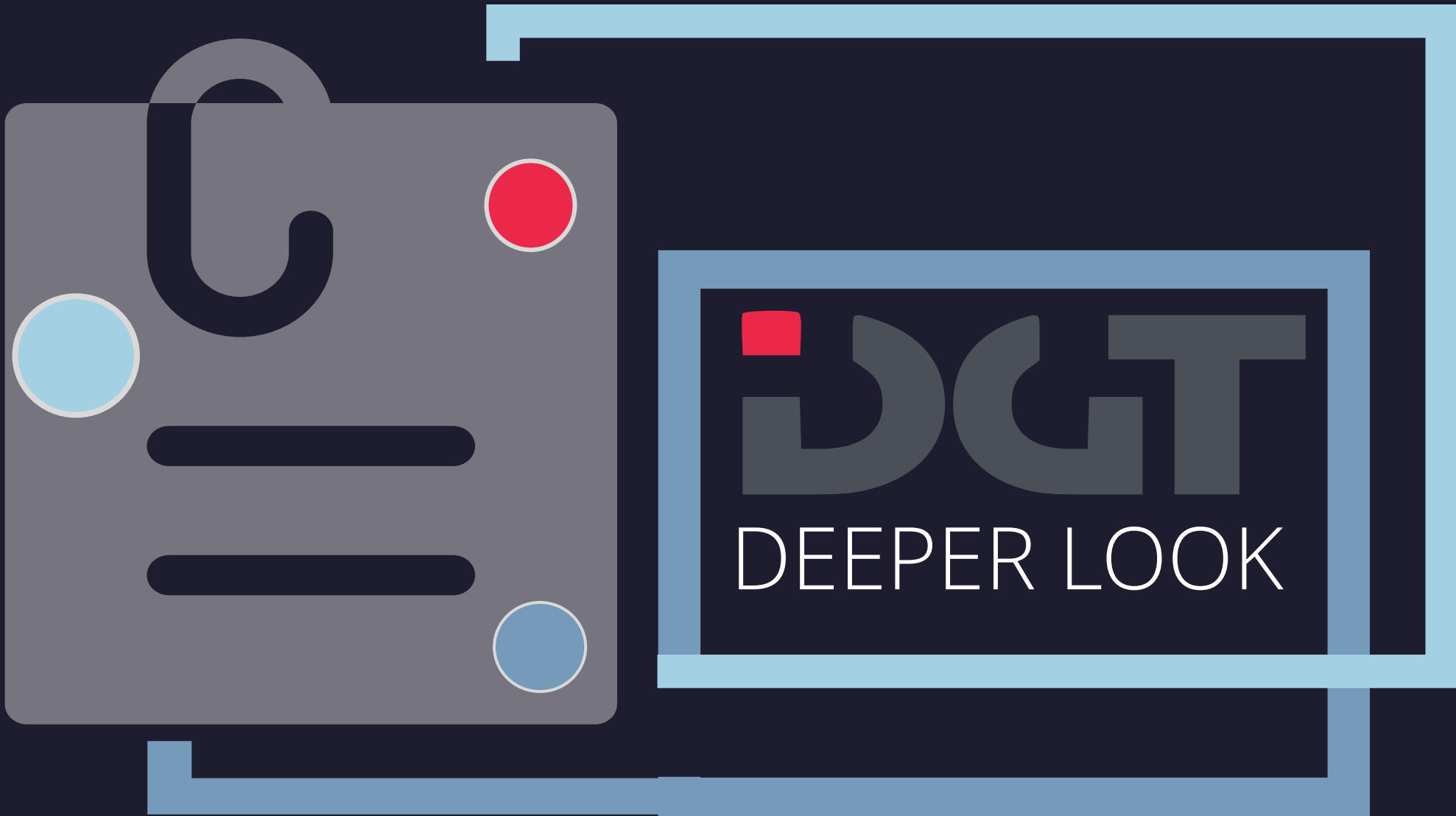
THANK YOU



CONNECT TO **DGT**

-  F-BFT Consensus
-  Technical Documentation
-  DGT Glossary
-  Repository
-  Metrics vs. Competitors
-  Roadmap
-  Team profiles
-  Decentralized Identity
-  GARANASKA Tokenization
-  Distributed Confidentiality

info@dgt.world



DGT
DEEPER LOOK



DGT HISTORY

DGT Network Inc. is a startup company founded in Toronto, Canada in 2017

2017-18

Project beginnings, called “BGX”. Surviving the ICO rush.

First release of the platforms and promising developments.

2019-20

Crypto-winter, pivoting to enterprise blockchain.

2021

Enterprise focused

2022

DGT finds footing as a Layer 1 ecosystem-building blockchain.

DGT turns towards developing **tokenization**.

- **Technology:** Kawartha 1.0 and GARANASKA development.
- **Investment:** \$600K USD angel investment.
- **Business:** moving into international markets (LatAm), fighting off raid, growing business capabilities.

DGT successfully pivots in crypto-winter to an **enterprise-focused blockchain**.

- **Technology:** second (Mississauga) and third (Kawartha) releases. Tech partnerships. Topology develops. Scientific publications.
- **Business:** Working with enterprises; great tests with large banks. Decentralized project concepts developed on platform – HR, privacy, crowd investment.

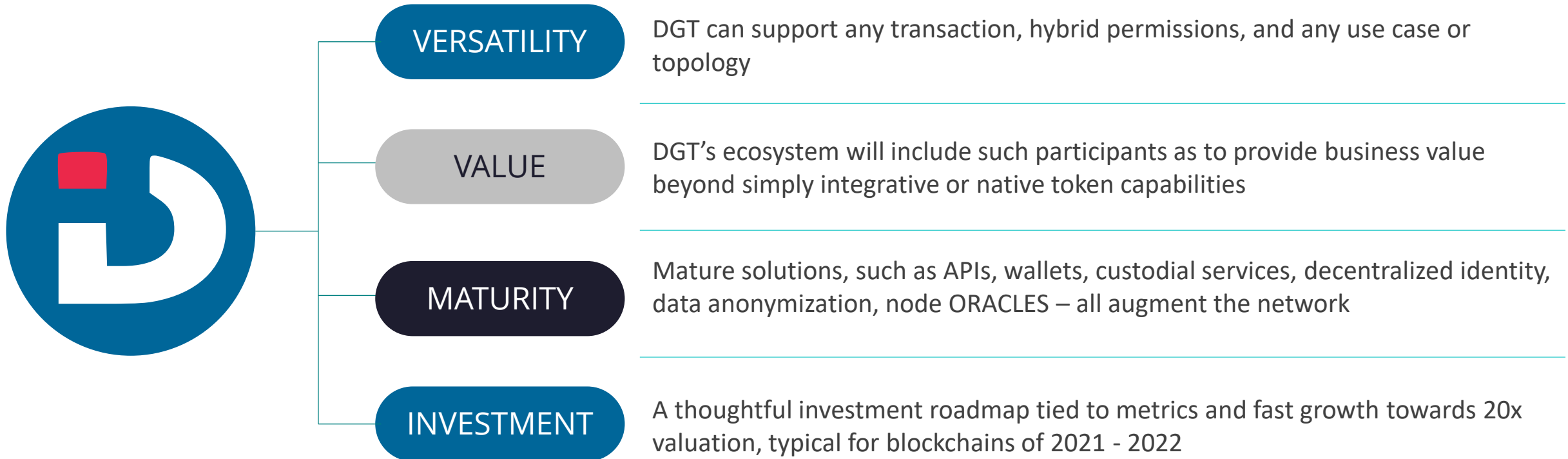
DGT was created as a blockchain for **digital and gaming assets**.

- **Technology:** first platform release (“BGX Kowabunga”). Native coin. Integration with Magenta marketplace. Consensus developed. Secondary tokenization and NFT concepts.
- **Investment:** angel funding of \$900k USD. Later spin-off into DGT Network and smaller BGX (defunct).
- **Business:** successful pre-ICO sale. Partnerships with gaming companies. Partnerships with universities.

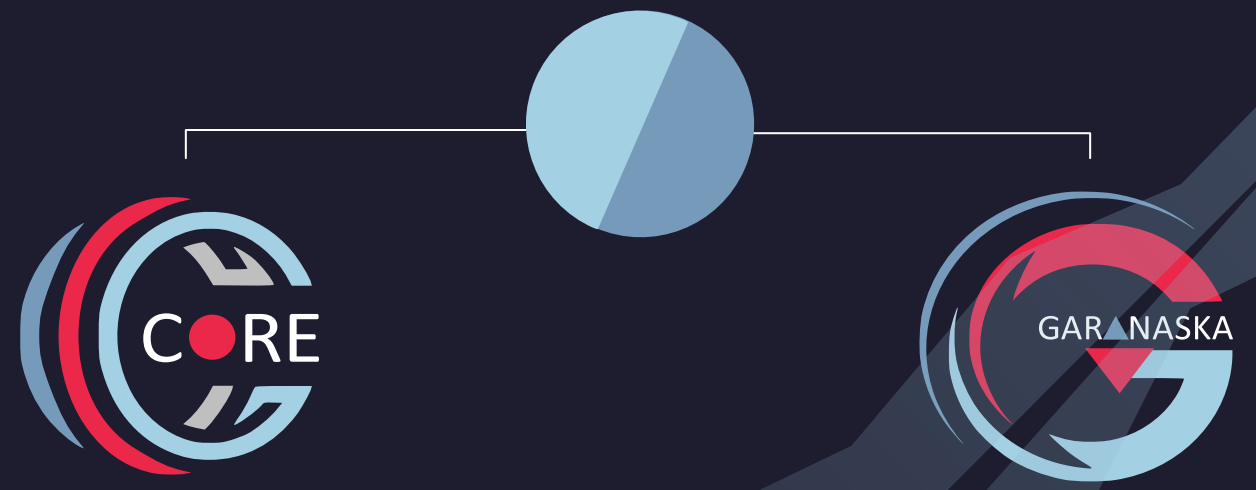
PLATFORM POSITIONING

THE PLATFORM'S CORE ADVANTAGE IS ITS ARCHITECTURE THAT SUPPORTS SCALABILITY & USE CASE VERSATILITY

The network that can process any digital value, integrate any centralized or decentralized system, and provide the tools for a thriving ecosystem.



DGT



BASIC BLOCKCHAIN FUNCTIONALITY

DGT.CORE – contains the main functionality of the platform with support for a test family of transactions and the main provisions of the F-BFT consensus.

TOKENIZATION AND SMART CONTRACTS

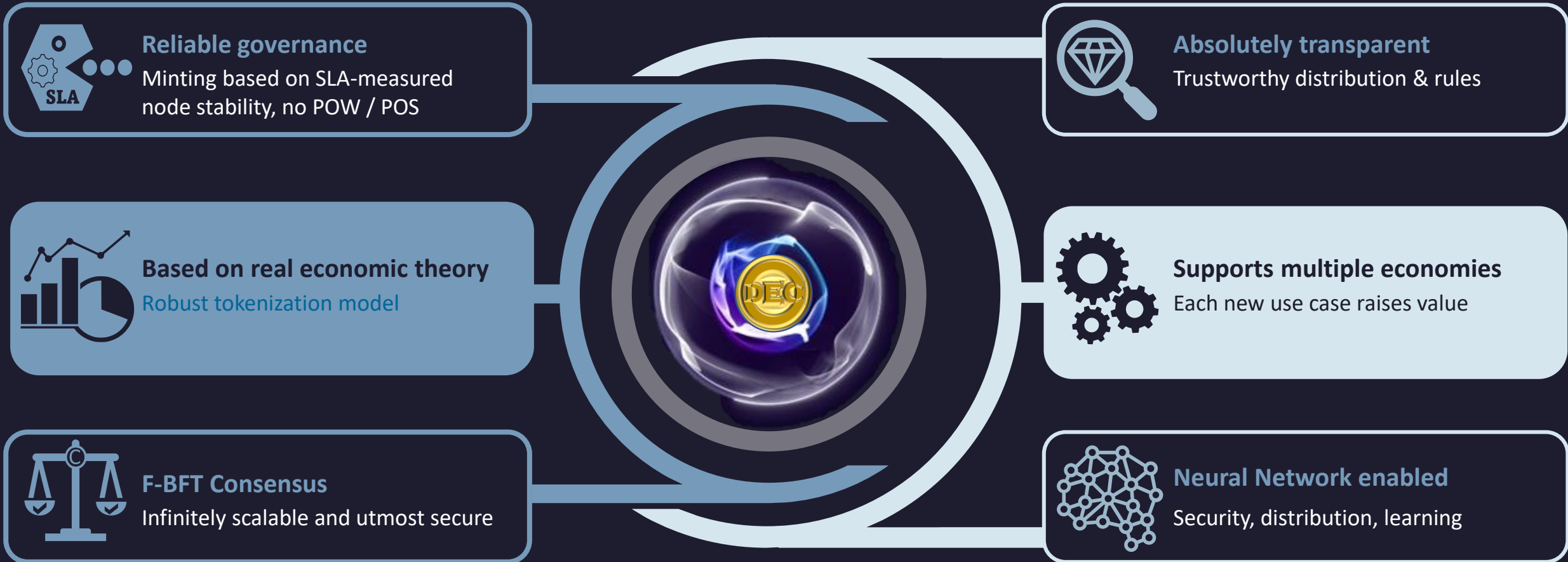
DGT.GARANSKA – the financial subsystem of the platform, aimed at the implementation of the token subsystem, including the native DGT cryptocurrency.

While DGT-CORE is intended to be distributed as a «box» (you can use it to develop your own functionality), DGT.GARANASKA is distributed as node software that connects to an existing network



DEC: UNPRECEDENTED NATIVE COIN

The Decentralized Economy Coin is the native coin of DGT Network. DGT Network is organized into clusters (ecosystems), each a distinct economy, sharing DEC as their one common currency.



Join the DEC economy to utilize the decentralized token with the best governance system behind it.

VERSATILE WHITE-LABEL TOKENIZATION

DGT.GARANASKA is compatible with all Ethereum token families, implementing similar functionality through different type of transactions

COMMODITY-BACKED



ERC-20 / ERC-777

PAYBLE/UTILITY TOKENS
Many tokens based on the issue, transfers between users

STABLECOINS

NON-FUNGIBLE / ASSET TOKENS ERC-721
A unique token tied to a digital object

ERC-1400

SECURITY TOKENS
Controlled distribution of tokens with certificate issuance

AND EVEN MORE...

Special types of nodes (NOTARIES) play the role of bridges to the physical world

Built-in gateways for exchanging tokens for fiat money and cryptocurrencies

State reflection in the Ethereum network

DGT Network enables the creation of any white-label token with no limits on its properties.

These tokens are **ideal for the rapid enterprise** development and deployment.



Any value

Variable transactions; any digital asset



Atomic swap

Internal zero-fee exchange mechanism



Mirroring

Anchor possibilities in other blockchains



White-label tools

Including mobile wallet aps, APIs, dashboards



Security

Absolute security against attack vectors



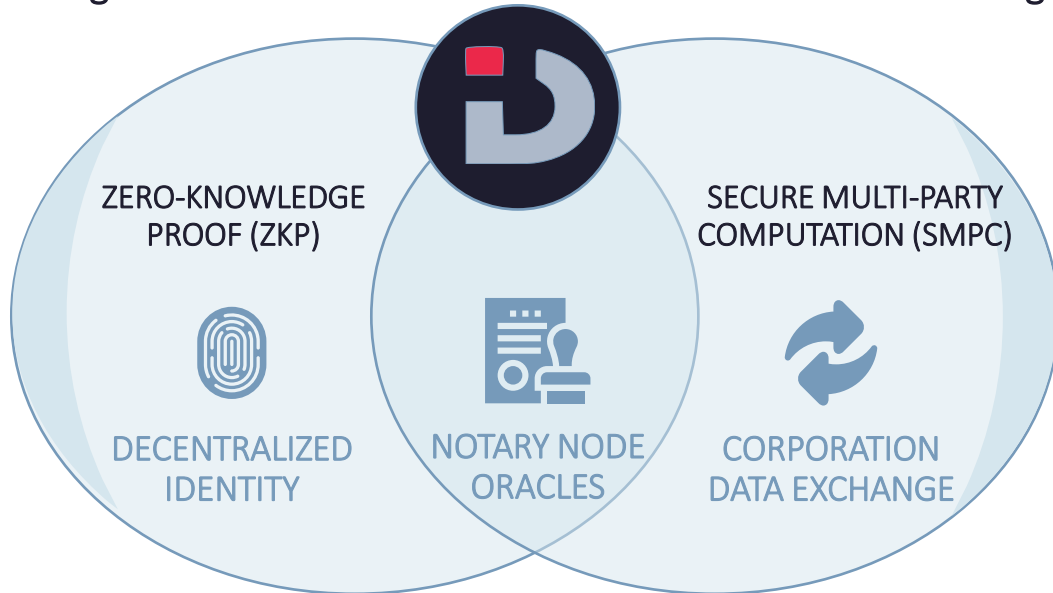
Volatility-free

Independent value from core native coin



DISTRIBUTED CONFIDENTIALITY

Enterprise ecosystems rely on data sharing to generate benefit. But sharing confidential data on blockchain is unsafe and often illegal.



DGT uses ZKP and SMPC to secure three processes: data exchange, decentralized identity management and off-chain calculations (notaries).


DGT Zero-Knowledge Proof


- Succinct non-interactive arguments (SNARG), such as "Bulletproofs"
- Interactive ZKP methods for proofing on-chain data with off-chain info without the ability to directly compare (notaries)
- Classic k-Anonymity; l-Diversity; t-Closeness for identity
- Shamir Secret Sharing-based for tokenization


DGT Secure Multi-Party Computation


- Proprietary PSI/SMPC protocol based on primitives of Diffie-Hellman exchange protocol, BFV HE scheme, Cuckoo hashing, and Oblivious Pseudorandom Function (OPRF)
- Two phases: preliminary calculation (offline), then executing intersection (online phase).


SOME RISK SCENARIOS

 **Contextual enrichment.** Blockchain startup distributes coins to team and investors. Approximating ownership can identify public key to person. From then on, all their transactions and contacts can be tracked.

 **KYC.** Submitting personal ID docs for KYC discloses public key <-> person to private providers, exchanges, and start-ups, not bound by banking confidentiality.

 **Smart contracts.** Tokenizing assets leaves metadata. Because of the uniqueness of assets, further k-anonymity approaches can easily reidentify connected people & objects.

 **Identification.** Necessary for AML, security laws, but placing information on-chain is visible to all and illegal under privacy laws. Accessing off-chain is expensive.

 **Data integration.** Corporations benefit from combining financial, geo-tagged, marketing data. Unprecedented cross-selling opportunities arise. But exchanging this data is unsafe and often illegal.

... and more.

DGT's GARANASKA tokenization is based on advanced financial-economic models

DGT MEANS EMBRACING NEW POSSIBILITIES

Hierarchical Topology



The DGT Network is divided into groups of nodes – clusters. Each cluster is flexible (permissions, transaction types, etc.) and adaptive to a particular business ecosystem, while remaining part of the total Network.

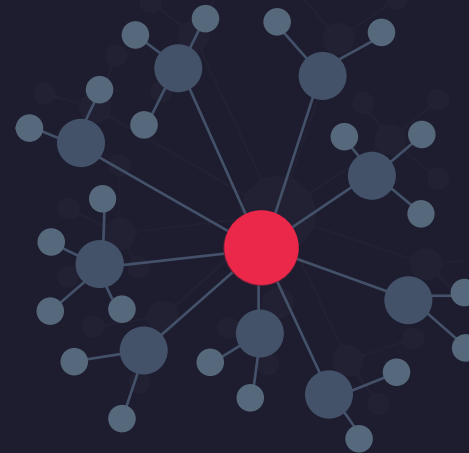
BUSINESS FLEXIBILITY

F-BFT Consensus



The high-performance federative Consensus is infinitely scalable, void of inefficiencies and governance problems, as well as fully protected against Byzantine and other major vectors of attack.

SECURITY AND PERFORMANCE



Variable Tx



The DGT Network is capable of processing any piece of digital value: financial transactions, IOT data, IDs, digital twins, smart contracts, digital goods, and more. All backed by crypto.

ANY UNIT OF VALUE

Hybrid Network



The participants of the DGT Network may allow others to join their clusters freely (public / permissionless) or under set conditions (consortium-based or private / permissioned clusters).

ADAPTIVE RULES

other distinctive features



MODULAR



ANCHORED



OPEN SOURCED



INTEGRATIVE

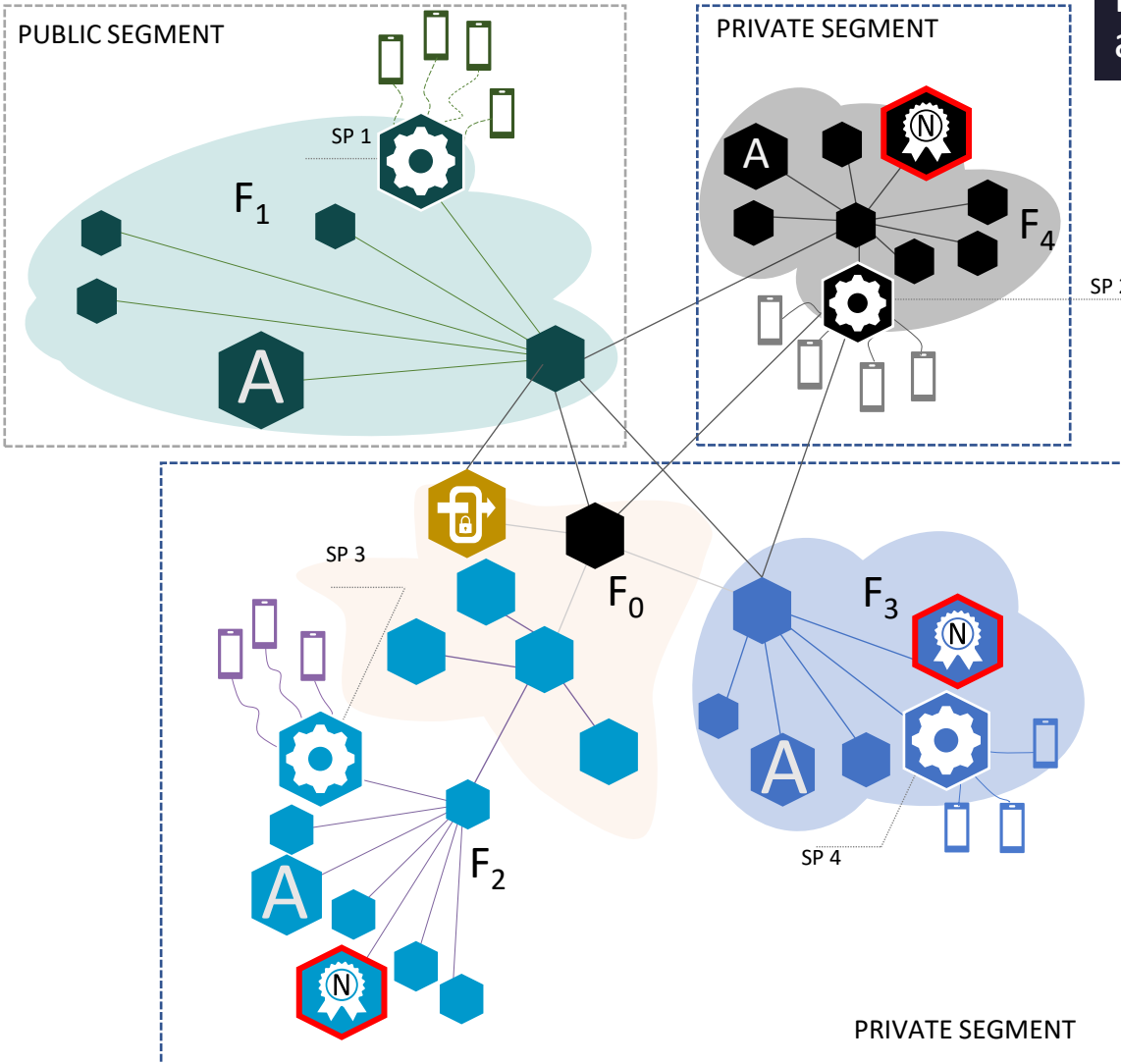


ANALYTICAL

H-NET ARCHITECTURE

H-NET architecture – the architecture of a blockchain network built in a federated way:

- Network nodes are grouped into Fi clusters, allowing BFT consensus to be reached in the fastest way;
- The network simultaneously presents private and public structures (hybrid network) with delineated segments
- Each node supports several types (families) of transactions at the same time (the network is multifunctional)
- The distributed ledger is built on DAG technology and is a combination of related graph structures, each of which can have its own visibility for different segments (the so-called private branches);
- The nodes of the system have various roles, including:



Validators that approve transactions within a cluster

Nodes that provide data validation at the network level (on-chain Trust Providers). Any transaction within a trust group (node clusters) requires approval outside that group (Circle of Trust, CoT)

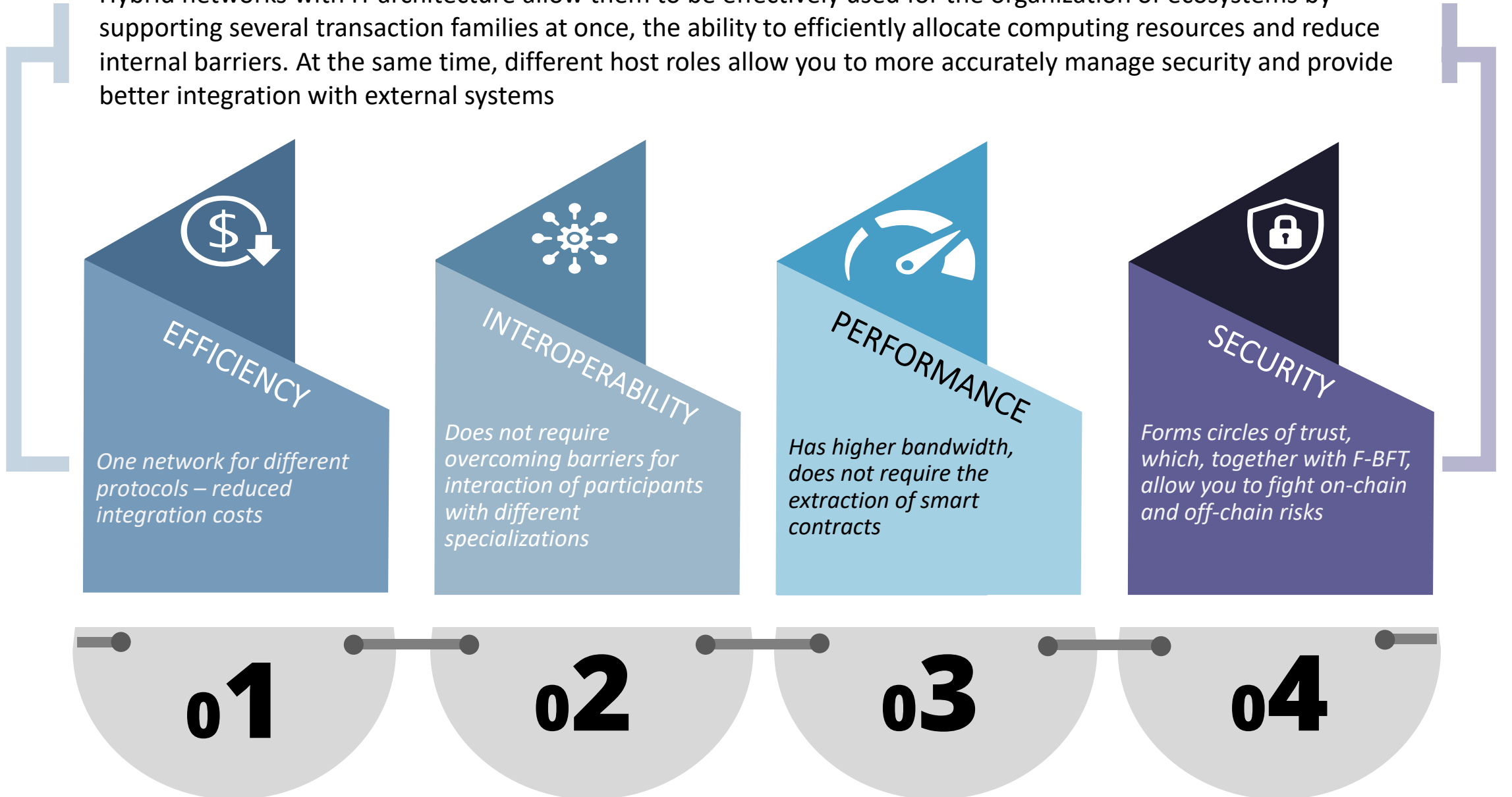
Service Provider (SP) – a node that provides service for its clients connected via API

Notary, an off-chain node commonly called oracle but with off-network validation

Rely (Gateway) – a node that provides data synchronization with external blockchain networks and payment systems

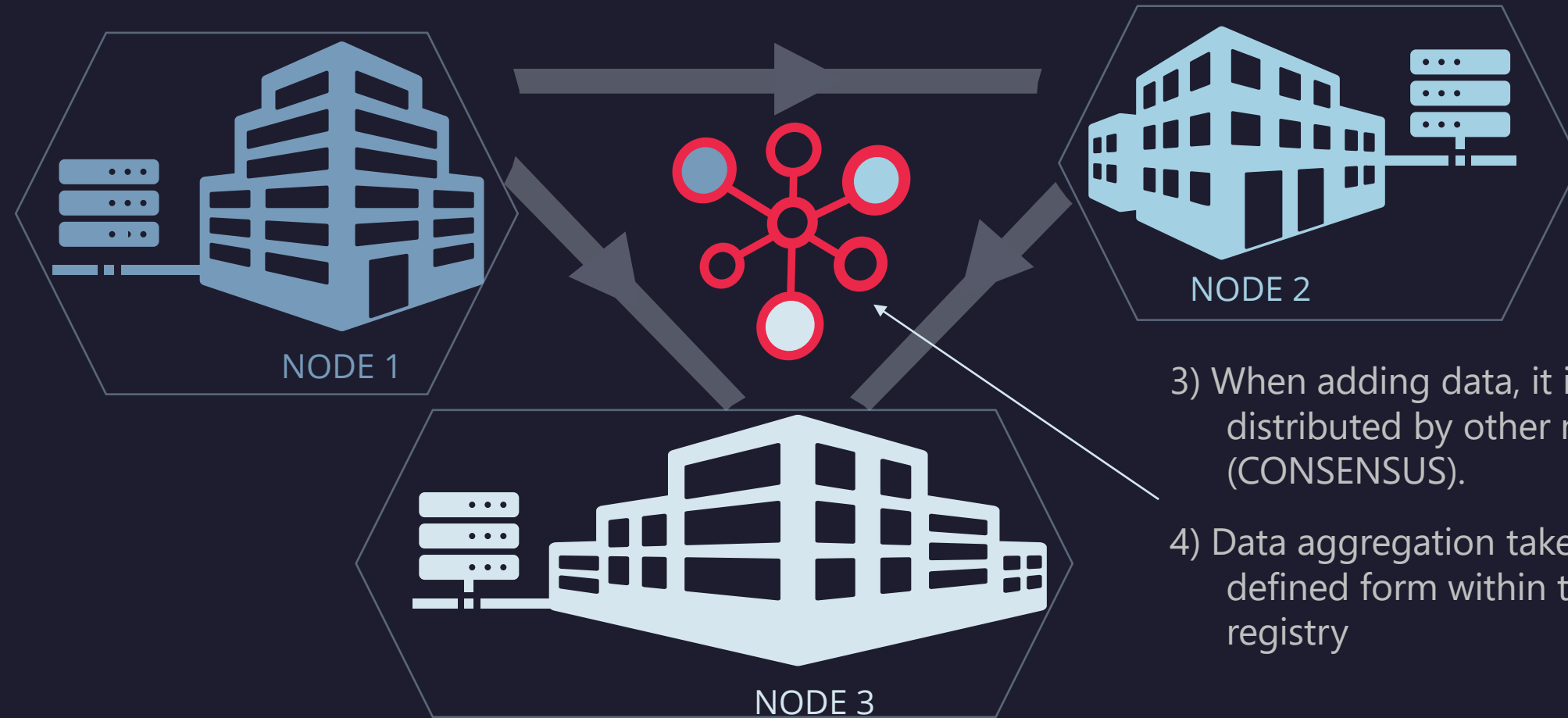
H-NET ARCHITECTURE

Hybrid networks with H-architecture allow them to be effectively used for the organization of ecosystems by supporting several transaction families at once, the ability to efficiently allocate computing resources and reduce internal barriers. At the same time, different host roles allow you to more accurately manage security and provide better integration with external systems



NODE INTERACTION

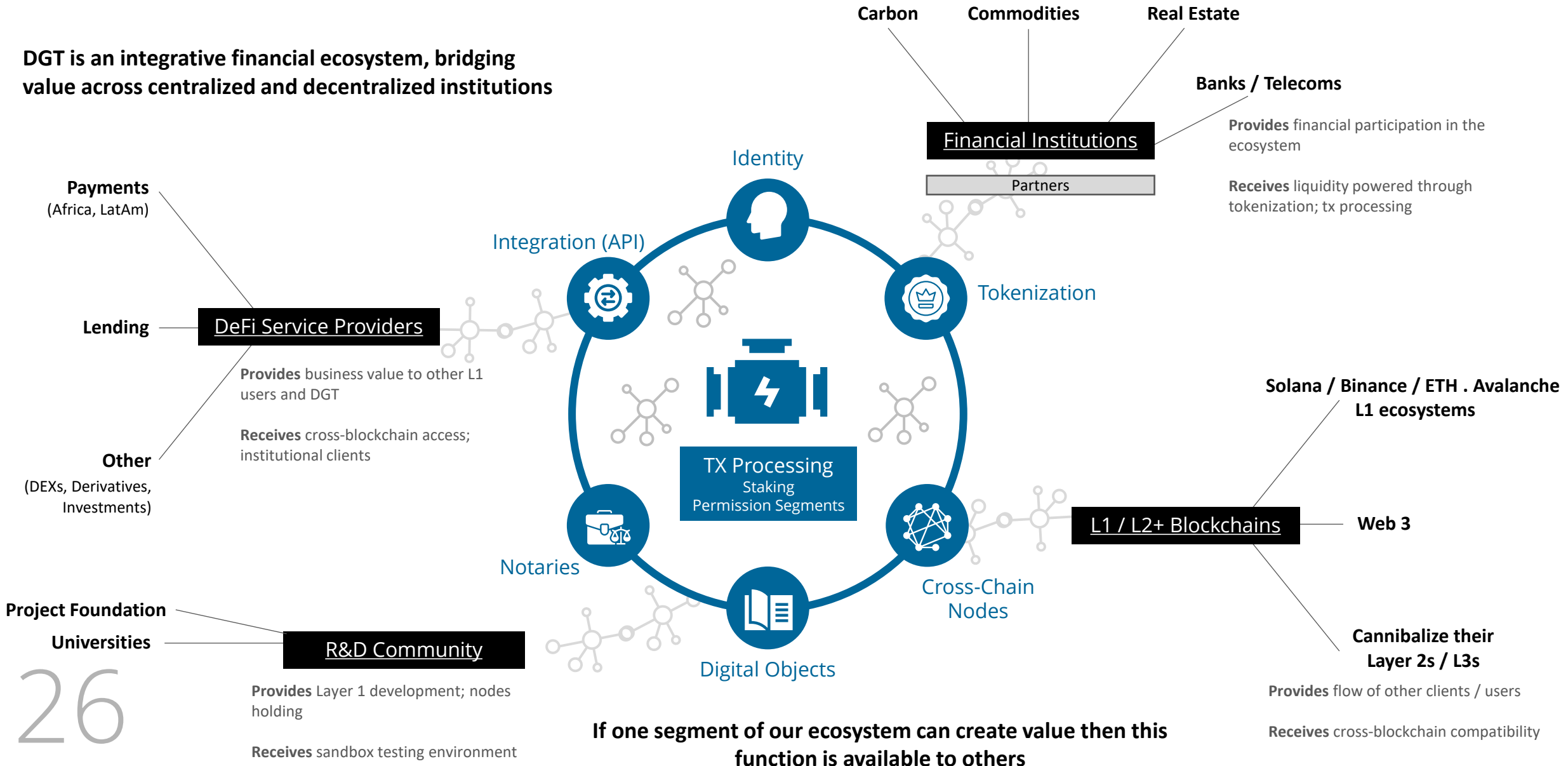
- 1) Several parties/organizations interact. Each organization is represented by its own node (agent) that is connected to legacy systems. To connect the node as a validator, several conditions (staking) are required.
- 2) Data source – other nodes, networks or corporate information systems, each of which is connected to its own node. When data is added, it is validated and propagated by other nodes (CONSENSUS). Data is combined in a strictly specified form.



- 3) When adding data, it is checked and distributed by other nodes (CONSENSUS).
- 4) Data aggregation takes place in a strictly defined form within the distributed registry

DGT BUSINESS LAYOUT

DGT is an integrative financial ecosystem, bridging value across centralized and decentralized institutions



Big data and their management

1

Identification and confidentiality

2

Asset tokenization (NFT, RWA)

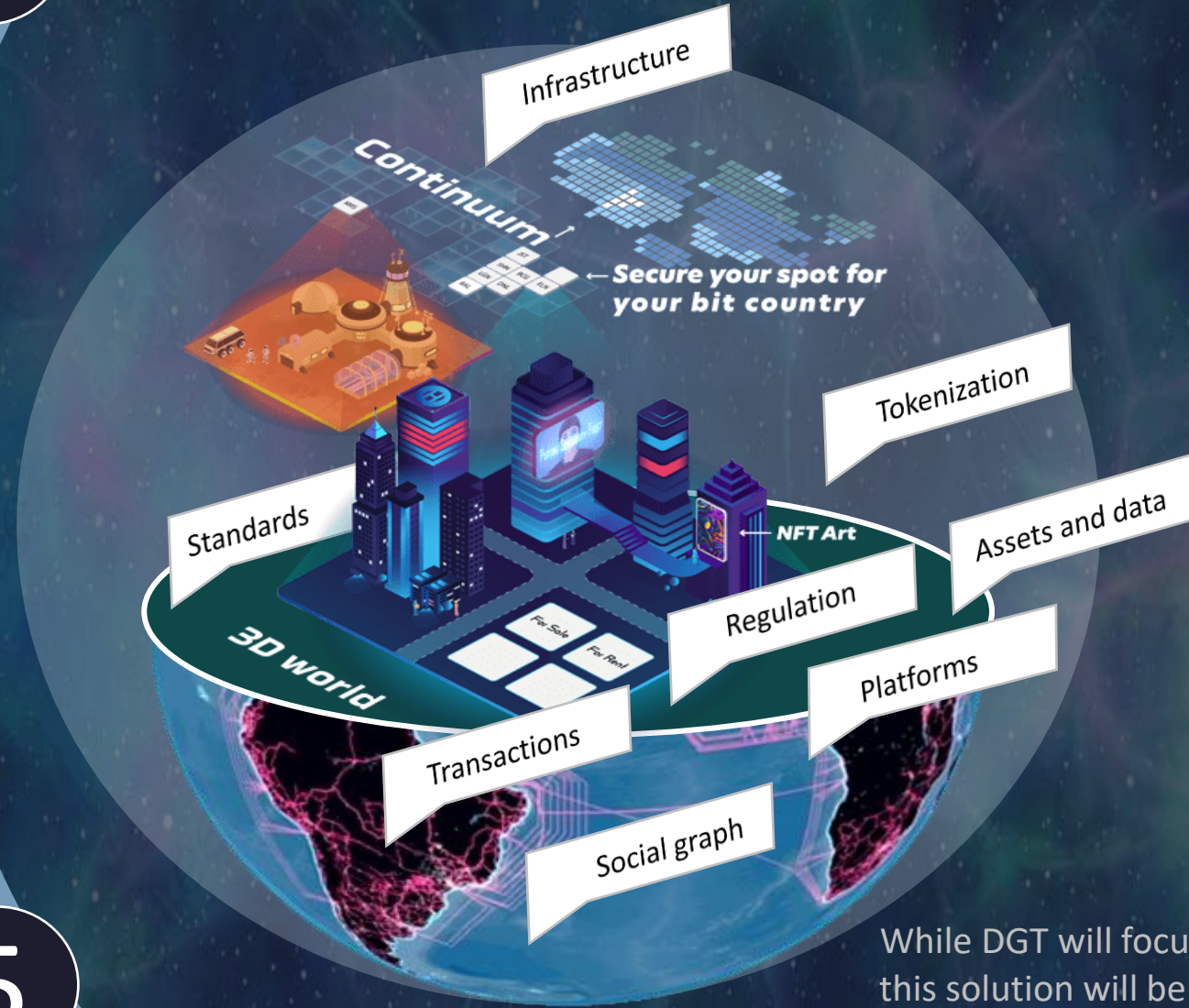
3

Wallet management in a broad sense

4

Graphs and connections

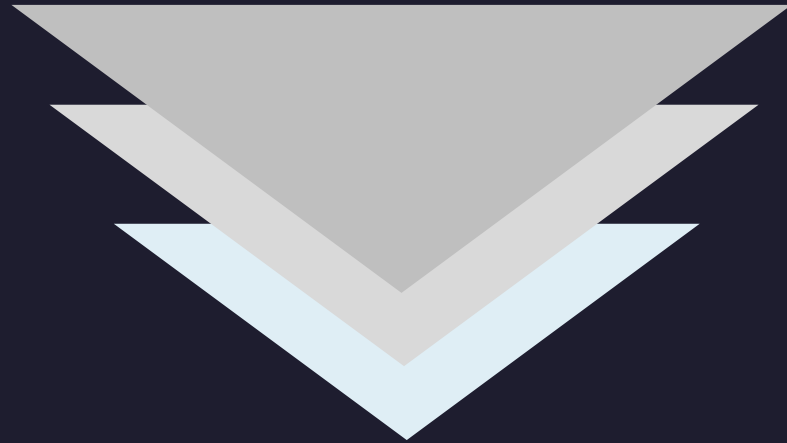
5



While DGT will focus on tokenization, this solution will be developed with a partner using the DGT network.

SELECTED CASES

PRESS TO GO BACK



Average Layer 1 Investment by 2022:

\$146,000,000

 SOLANA

Valuation: **\$33,000,000,000**
Investments: **\$330,000,000**

Founded: 2017

 Algorand

Valuation: **\$4,700,000,000**
Investments: **\$70,000,000**

Founded: 2017

CØSMOS

Valuation: **\$6,000,000,000**
Investments: **\$23,000,000**

Founded: 2014

 AVALANCHE

Valuation: **\$19,000,000,000**
Investments: **\$42,000,000**

Founded: 2018

 Polkadot

Valuation: **\$19,000,000,000**
Investments: **\$253,000,000**

Founded: 2016

 fantom

Valuation: **\$2,700,000,000**
Investments: **\$15,000,000**

Founded: 2018

 polygon

Valuation: **\$10,000,000,000**
Investments: **\$10,000,000**

Founded: 2017

APT

Valuation: **\$1,000,000,000**
2022 Seed Round: \$200,000,000

Founded: 2021

▪ **Record blockchain investments** in 2021

- **Historic levels of VC investment** into crypto companies (more in 2021 than in 2016 – 2020)
- **Rise of unicorns** (+491% over two years)
- **NFT / Gaming rise** (42% of top 15 deals)
- **L1 ecosystems** attracted investment (73 in Solana, 53 in Polkadot, etc.)
- **Record M&A activity** (197 in 2021, +130% compared to 2020)

▪ **Seed investments accelerate** further in 2022

Blockchain **Seed** Investment Growth 2020-22

