WHITEPAPER

LayerCapy

ETHEREUM'S NEXT LAYER OF INNOVATION
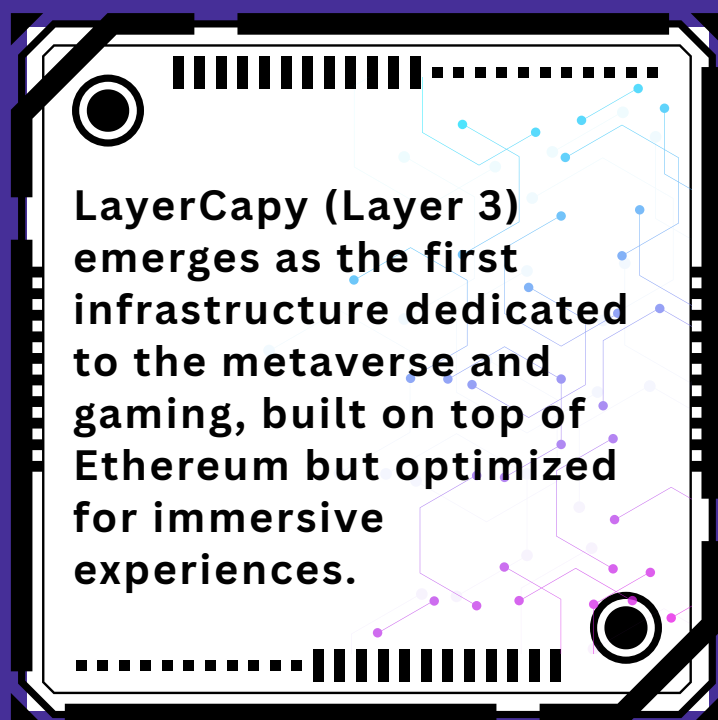
SUMMARY

INTRODUCTION

The metaverse and Web3 games represent the next frontier of digital interaction. Avatars, 3D assets, native currencies, and real-time micro-transactions demand an infrastructure capable of handling thousands of interactions per second. Current Layer 1 (Ethereum) and Layer 2 (Arbitrum, Optimism, etc.) solutions were not created specifically for this scenario, resulting in high fees, detrimental latency, and a lack of customization.

LayerCapy (Layer 3) emerges as the first infrastructure dedicated to the metaverse and gaming, built on top of Ethereum but optimized for immersive experiences.

THE PROBLEM:

High Gas Fees: Games and metaverses require thousands of micro-transactions; on Ethereum, this is expensive and unfeasible.

Detrimental Latency: Immersive experiences require instantaneous responses, something that L1 and L2 solutions do not deliver optimally.

Ecosystem Fragmentation: Developers face barriers when integrating games with different networks and standards.

Lack of Dedicated Infrastructure: No current solution has been created specifically for the metaverse and gaming, only generic adaptations.

SOLUTION:

LayerCapy is a Layer 3 dedicated to the metaverse and gaming, built on Ethereum and compatible with L2 (Arbitrum).
Key Features:
- Drastic Fee Reduction: Batching thousands of interactions before submitting them to the L2.
- Optimized Scalability: Use of state channels and specialized rollups to ensure speed without compromising integrity.
- Fluid Experience: Periodic settlement on the L2, while user actions are processed instantly on the L3.
- Customization for the Metaverse: Native support for NFTs, digital currencies, digital identity, and 3D assets.
- Inherited Security: The L3 relies on the L2 and, indirectly, on the L1 for final validation.

ARCHITECTURE

Layer 3 (LayerCapy):
 Where metaverse interactions take place, with reduced fees and fast transactions.

Layer 2 (Arbitrum):
 Aggregates and validates L3 transactions, sending batches to L1.

Layer 1 (Ethereum):
 Ensures final security and settlement.

This flow reduces costs because:

- The L3 processes thousands of micro-transactions off-chain and sends only summaries to the L2.

- The L2 performs a rollup to the L1, thus avoiding congestion and high fees.

DEVELOPER TOOLS

LayerCapy SDK:
 A simple and accessible development kit for creating games and metaverse experiences.
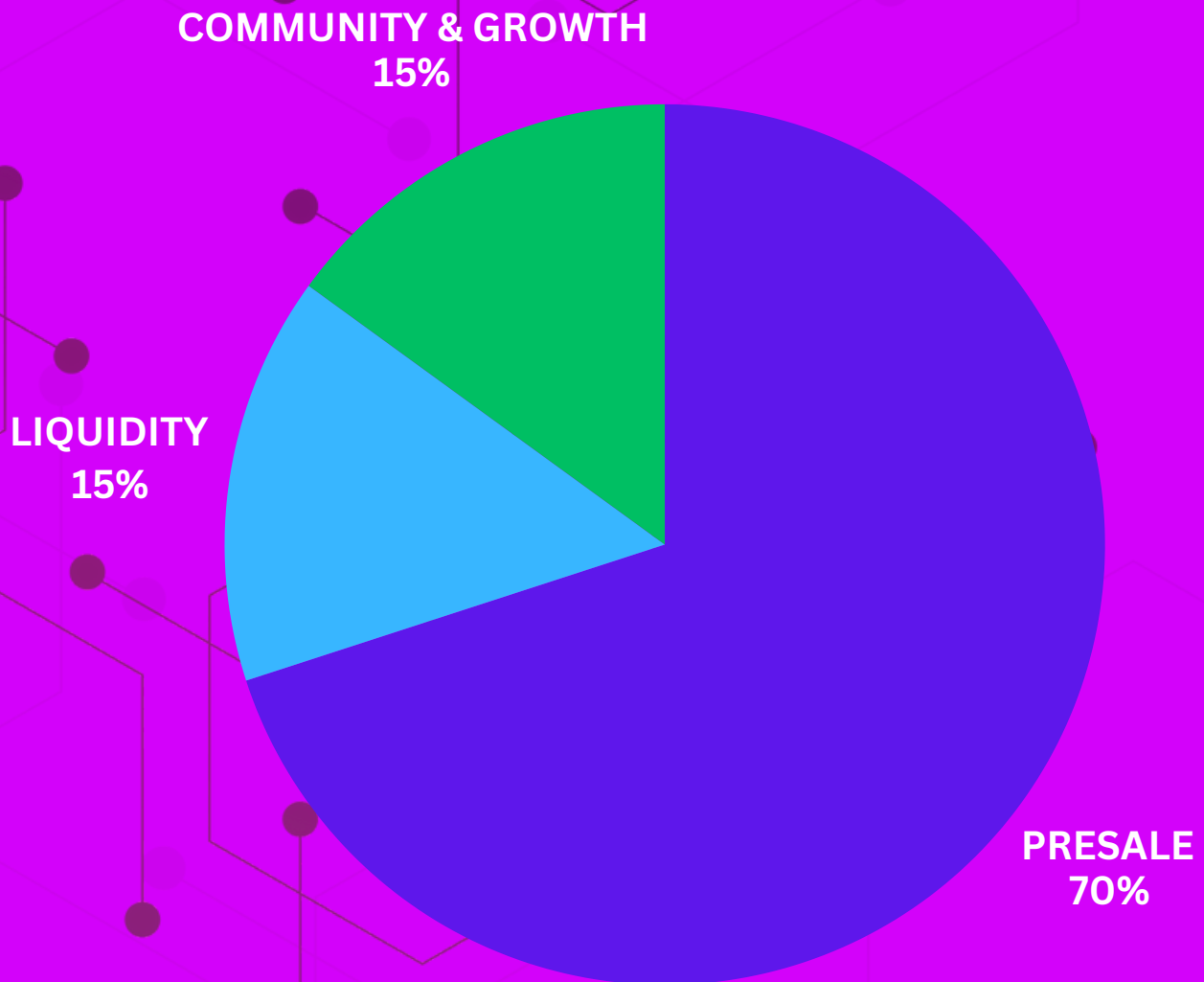
Optimized APIs:
 Integration with marketplaces, digital assets, and identity systems.

Comprehensive Documentation:
 Guides for rapid onboarding of development teams.

TOKENOMICS

COMMUNITY & GROWTH
15%

LIQUIDITY
15%

PRESALE
70%

Tokenomics $LCAPY:

The $LCAPY token is the heart
of the LayerCapy economy.

Utilities:

- **Gas Token: Used to pay network fees.**

- **Staking and Governance: Active participation in the protocol's evolution.**

- **Incentives: Rewards for developers and players who contribute to the ecosystem.**

MARKET

Gaming:
Global market projected to reach $250 billion by 2028, with accelerated growth in Web3 and play-to-earn games

Metaverse:
Estimated to reach $800 billion by 2030, with major players like Meta and Microsoft investing billions.

Web3 Infrastructure:
An explosion of L2 solutions, but none dedicated to the metaverse/gaming space.

LayerCapy is positioned as the first Layer 3 optimized for immersive experiences, capturing a niche with enormous potential.l.

ROADMAP 2026

<u>Q1</u>: Brand Launch, Pre-sale, Community.

<u>Q2</u>: Testnet + SDK for developers+ Strategic Partnerships.

<u>Q3</u>: Mainnet + Staking + Initial Games.

<u>Q4</u>: Asset Marketplace + Global Expansion.

SECURITY

Final Validation on Ethereum:
L1 security is inherited by all layers.

Specialized Rollups:
Ensure integrity and transparency.

Constant Audits:
Protocols reviewed by independent firms.

CONCLUSiON

LayerCapy (Layer 3) is not just an extra layer it is the key to near-zero fees, high performance, and immersive experiences while maintaining the trust of the blockchain.
With dedicated infrastructure, robust tokenomics, and a focus on developers and players, LayerCapy is positioned as the benchmark standard for the metaverse and gaming in Web3.