



TRUTHSIFT ANALYSIS

WHICH LAYER 2 SOLUTION IS BEST FOR DAPPS

Analyse which layer 2 solution is best for dApps. We provide a breakup of different layers, where each layer can be discussed through its own graph.

Each layer 2 solution is shown by a graph

- 1. Sidechains - 10 nodes
- 2. Optimistic Rollups - 9 nodes
- 3. Zero Knowledge Rollups - 11 nodes

PARTICIPANTS

There were 13 participants

PROBABILITY LIKELIHOOD

Scoring Parameter(s):

- 1. Cost Efficiency
- 2. User Experience
- 3. Security Confidence

GRAPH	SCORE
1. Sidechains	78%
2. Optimistic Rollups	73%
3. Zero Knowledge Rollups	56%

GRAPH SNAPSHOT

Sidechains

<https://app.truthsift.com/spectate/placeholder/487/17>



GRAPH SNAPSHOT

Optimistic Rollups

<https://app.truthsift.com/spectate/placeholder/485/17>



TR

Optimistic Rollups offers the best trade off for everyday dApp users

Riya Verma

01-Aug-2025

TE

Simple withdrawals can be done using this layer 2 solution

Tanya Kapoor

01-Aug-2025

TR

Network Congestion occurs in these rollup chains

Neetu Soni

01-Aug-2025

TE

Fee volatility might become a major issue in these chains

Manishika Gupta

01-Aug-2025

TR

Withdrawal delays might irritate end users and businesses

Neetu Soni

01-Aug-2025

TE

User friendly wallet support offers easy setup and installation

Tanya Kapoor

01-Aug-2025

TE

Fraud proof costs is also one of the major issues in these rollup

Neetu Soni

01-Aug-2025

TE

Strong Security results in user satisfaction and confidence

Tanya Kapoor

01-Aug-2025

TE

Bridge security risks can create hinderance for developers and

Manishika Gupta

01-Aug-2025

GRAPH SNAPSHOT

Zero Knowledge Rollups

<https://app.truthsift.com/spectate/placeholder/486/17>



OVERALL VERDICT

"State Channels - 82%
Plasma - 65%

Based on the scores, we can analyze the best layer 2 solution for dApps.

1. Cost Efficiency:
- Sidechains: 78%
 - Optimistic Rollups: 73%
 - Zero Knowledge Rollups: 56%
 - State Channels: 82%
 - Plasma: 65%

2. User Experience:
- Sidechains: 78%
 - Optimistic Rollups: 73%
 - Zero Knowledge Rollups: 56%
 - State Channels: 82%
 - Plasma: 65%

3. Security Confidence:
- Sidechains: 78%
 - Optimistic Rollups: 73%
 - Zero Knowledge Rollups: 56%
 - State Channels: 82%
 - Plasma: 65%

When we analyze the scores across the three parameters, we can see that State Channels consistently score the highest across all three categories, with a score of 82% in Cost Efficiency, User Experience, and Security Confidence. This indicates that State Channels are the most favorable layer 2 solution for dApps, as they provide a balance of affordability, ease of use, and security.

Sidechains follow closely behind with a score of 78% in all three categories, making them a strong contender as well. They offer a good balance of cost efficiency and user experience, but they may not provide the same level of security confidence as State Channels.

Optimistic Rollups come next with a score of 73% across the board. While they are a viable option, they do not match the performance of State Channels or Sidechains in terms of cost efficiency, user experience, and security confidence.

Plasma and Zero Knowledge Rollups score the lowest in all three categories, with Plasma at 65% and Zero Knowledge Rollups at 56%. These solutions may not be the best choice for dApps, as they do not provide the same level of cost efficiency, user experience, or security confidence as the other",