

# Rating Criteria

## Introduction

In order to continue our study and implementation, it appeared necessary to establish appropriate scoring criteria. Through these 11 verticals, we will rate each of the blockchain interoperability solutions.

The objective is to compare in detail, objectively and to highlight the strengths and weaknesses of each possibility :

1. Level of interoperability
2. Degree of decentralization
3. Scalability
4. Performance
5. Privacy
6. Security for users
7. Security for blockchains
8. Governance
9. Community involvement
10. Ease of use
11. Cost

## Analysis

1. Level of Interoperability : This notation criteria evaluates how well a blockchain solution can interact with other systems and networks. It measures the extent to which the solution can communicate and exchange data with other blockchain networks, applications, and protocols.
2. Degree of Decentralization : This notation criteria measures the extent to which a cross-blockchain solution is decentralized, meaning it operates with no central authority or control. The degree of decentralization indicates how much the architecture enables a fully operative decentralization.
3. Scalability : This notation criteria measures how well a cross-blockchain solution can handle increased transaction volumes without compromising its performance.

4. Performance : This notation criteria evaluates the speed, reliability and amount of success of cross-blockchain action.
5. Privacy : This notation criteria evaluates the level of privacy and anonymity provided by a cross-blockchain solution.
6. Security for Users : This notation criteria evaluates the level of security and trust that a user of a cross-blockchain solution can expect (Success/Failure of transaction, ownership, transparency...)
7. Security for Blockchains : This notation criteria evaluates the security measures put in place to protect the blockchain network itself, including the underlying infrastructure, protocols, and consensus mechanisms.
8. Governance : This notation criteria evaluates the governance structure and decision-making process of a cross-blockchain solution (Decentralization, Transparency, Democratic, Updates...).
9. Community Involvement : This notation criteria evaluates the level of community involvement in the development of a cross-blockchain solution.
10. Ease of Use : This notation criteria evaluates the user-friendliness and accessibility.
11. Cost : This notation criteria evaluates the cost-effectiveness of a cross-blockchain solution (Transaction fees, Gas fees, Side cost, Structure cost...).