










Layer One X: Mainnet Capability Comparison Table:

Features	Description	Polkadot	Cosmos	Layer Zero	L1X
Score		4/20	4/20	0/20	20/20
Approx. Fully Diluted Market Cap <i>* = pre-launch</i>		\$8.4 billion	\$3.7 billion	1.1 billion	\$500 million*
Layer One Fundamentals					
Layer One or a Bridge	Layer One refers to blockchain protocols that natively support interoperability with other chains, while bridge solutions refer to technologies that connect two different blockchain networks to enable interoperability between them.	Layer One (Compatible via VM not truly Interoperable)	Layer One (Compatible via VM not truly Interoperable)	Bridge	Layer One 
Native Protocol Transaction Fees <i>(Native protocol transaction fees refer to the fees that are charged by the blockchain platform for processing transactions on its network)</i>	Low transaction fees are essential for mass adoption, as high transaction fees can discourage individuals and businesses from using interoperability protocols.	\$0.10 - \$0.50	\$0.10 - \$0.50	Not Applicable	\$0.01 
High Scalability Native TPS <i>(Native TPS (Transactions Per Second) refers to the maximum number of transactions that a blockchain platform can process on its native protocol per second)</i>	High scalability is essential for mass adoption, as it allows interoperability protocols to handle a high volume of transactions without experiencing slowdowns or crashes.	Up To 100,000 Transactions Per Second 	Up To 100,000 Transactions Per Second 	Not Applicable	Up To 100,000 Transactions Per Second 
Transaction & Block Finality <i>(Block finality refers to the point in time when a block of transactions on a blockchain is considered to be permanently added to the blockchain and cannot be altered or reversed.)</i>	Faster transaction finality improves security, user experience and use cases	~ 6 Seconds	~6-7 Seconds	Not Applicable	~1-2 Seconds 
Native Virtual Machine	Native Virtual Machine allows a layer one to have its own smart contract compilation process, native interpreter, interface drivers & state management.	Yes 	Yes 	Not Applicable	Yes 





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EVM Compatibility (Direct) <i>EVM (Ethereum Virtual Machine) compatibility means that a blockchain platform can run the same type of code as Ethereum. Some existing EVM compatible chains include BSC, Avax, Polygon, Fantom and more.)</i>	This allows EVM compiled smart contracts to interact with the consensus and state management making it easier for projects to build with the layer one.	No	No	Not Applicable	Yes 
Decentralized Consensus Mechanism	Decentralized consensus is a mechanism by which a layer one blockchain network achieves consensus on the state of its ledger in a decentralized manner, without relying on a centralized authority.	Yes 	Yes 	Not Applicable	Yes 
Consensus Mechanism Proofing Aggregation of Power	Ability to decentralize the aggregation of power.	Top 10 validators account for 50% of the total staked tokens	Top 30 validators account for 50% of the total staked tokens	Not Applicable	Full Node limit on % staked in terms of approvals & mobile nodes allow for random selection. 


Interoperability Fundamentals

Native Support Interoperability Across EVM to EVM Chains (Tokens)	Ability to transfer tokens between EVM-compatible chains.	Yes, but by Building a Bridge on top of it	Yes, but by building a bridge on top of it with customised Validators making it insecure	Yes	Native Support without the need of a bridge 
Native Support Interoperability Across EVM to Non EVM Chains (Tokens)	Ability to transfer tokens between EVM-compatible and non-EVM chains.	No	No	No	Yes 
Native Support Interoperability Across Non	Ability to transfer tokens between non-EVM chains.	No	No	No	Yes 

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EVM to Non EVM Chains (Tokens)					
Native Support Interoperability Across EVM to EVM Chains (NFT)	Ability to transfer non-fungible tokens (NFTs) between EVM-compatible chains.	Yes but by Building a Bridge on top of it	Yes but by building a bridge on top of it with customised Validators making it unsecure	No	Native Support without the need of a bridge 
Native Support Interoperability Across EVM to Non EVM Chains (NFT)	Ability to transfer NFTs between EVM-compatible and non-EVM chains.	No	No	No	Yes 
Native Support Interoperability Across Non EVM to Non EVM Chains (NFT)	Ability to transfer NFTs between non-EVM chains.	No	No	No	Yes 
Native Support Interoperability Across EVM to EVM Chains (LOGIC)	Ability to transfer smart contract logic between EVM-compatible chains.	No	No	No	Yes 
Native Support Interoperability Across EVM to Non EVM Chains (LOGIC)	Ability to transfer smart contract logic between EVM-compatible and non-EVM chains.	No	No	No	Yes 
Native Support Interoperability Across Non EVM to Non EVM Chains (LOGIC)	Ability to transfer smart contract logic between non-EVM chains.	No	No	No	Yes 
Additional Features					
Encrypting Smart Contracts Critical Details	Ability to encrypt certain details on the smart contract while still maintaining the ability to function check the working.	No	No	Not Applicable	Yes. Using Homomorphic Encryption. 

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Real Time Bad Node Detection	Ability to detect bad nodes in real time on the network.	No	No	Not Applicable	Yes. Using Hierarchical Temporal Memory. 
Decentralized Identity	Decentralized identity solutions can enable users to control their own personal data and identity, potentially increasing the adoption of interoperability protocols.	Single Blockchain Identity	Single Blockchain Identity	Not Applicable	Multiple Blockchain Identity Mapped for Seamless Use of dApps built with Layer One 