





ETHEREUM BLOCK CHAIN & SMART CONTRACTS

Prepared By Gnavya katuru CSE

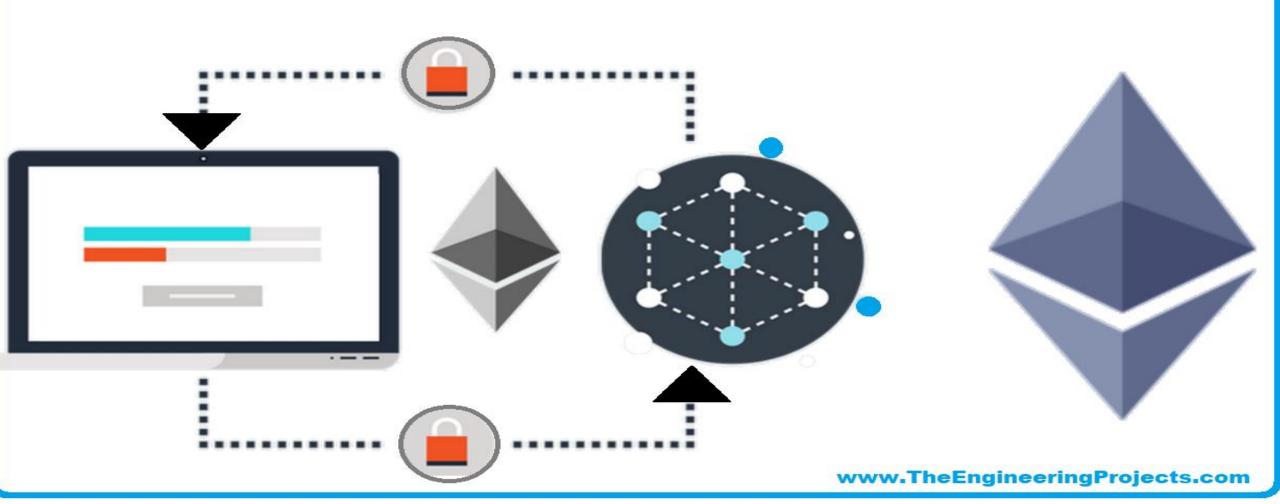


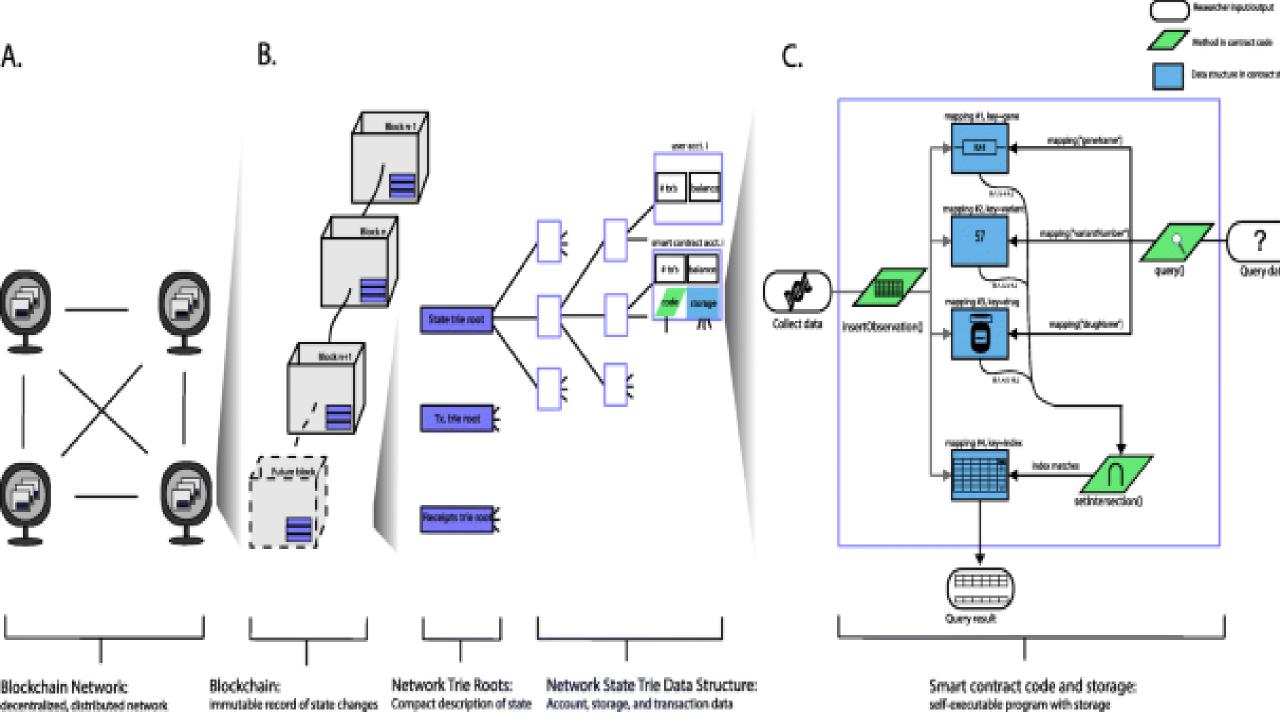




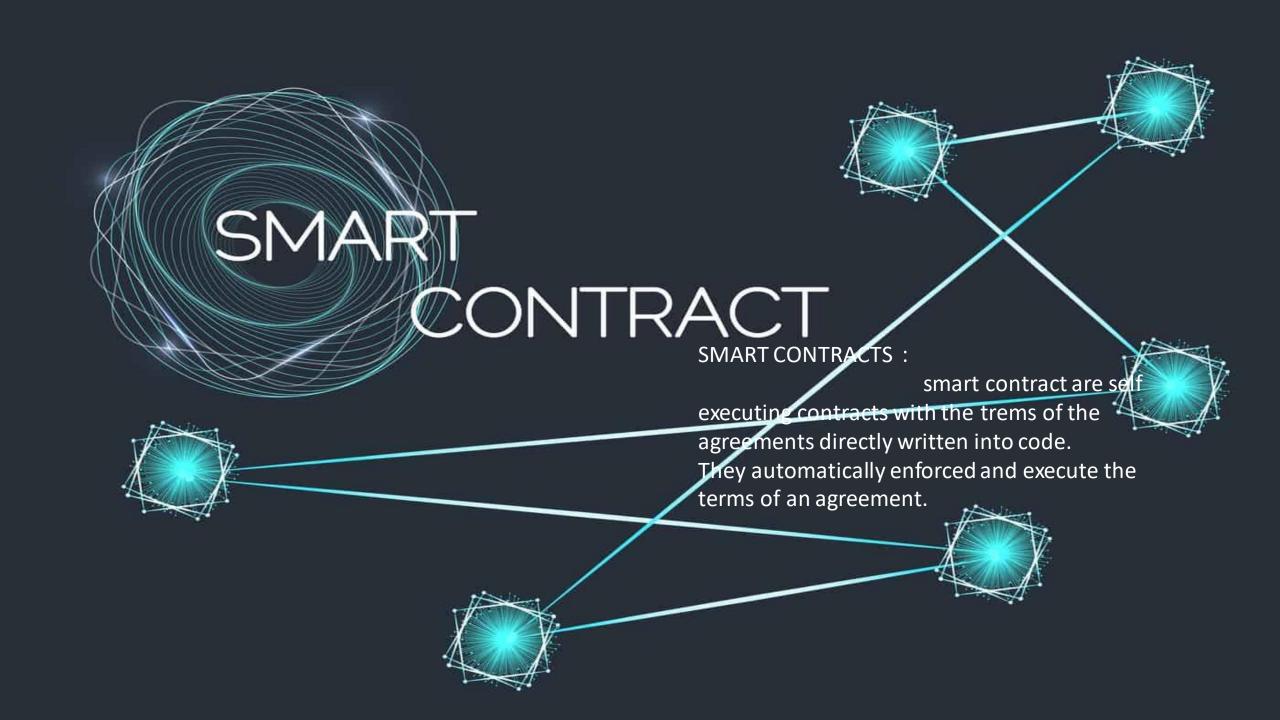
History of Ethereum

In 2015 the first block of the ethereum blockchain was mined.









The Future of Smart Contracts

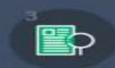
1. Smart Contract Explained



- A contract is created between two parties
- Both parties remain anonymous
- The contract is stored on a public ledger

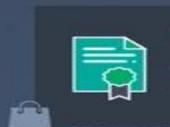


- Some triggering events arc set i.c. deadlines
- The contract self-executes as
- per written codes



- Regulators and users can analyze all the activities.
- Predict market uncertainties and trends

2. How Do Smart Contracts Work?



- Matchmaking of Seller and Buyer
- TRANSACTION
- Receiving Assets Assets Distribution





Registered



Automated Settlement of Contracts



No Third Party Need

3. Smart Contracts Benefits



4. Smart Contracts Use Cases?



Record Storing



Trading Activities



Supply Chains



Real Estate Market



Employment Arrangements



Copyright Protection



Mortgage



Voting

Insurance Claims



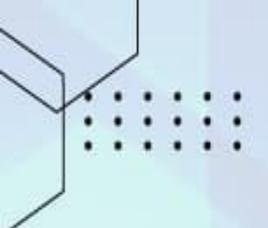
Internet-of-Things



Services











Advantages of Ethereum











The trade-off between power consumption, performance, and security

loT device connectivity issue Compromising between concurrency and throughput

Challenges of adopting blockchain in IoT applications

Regulating issue in blockchain technology

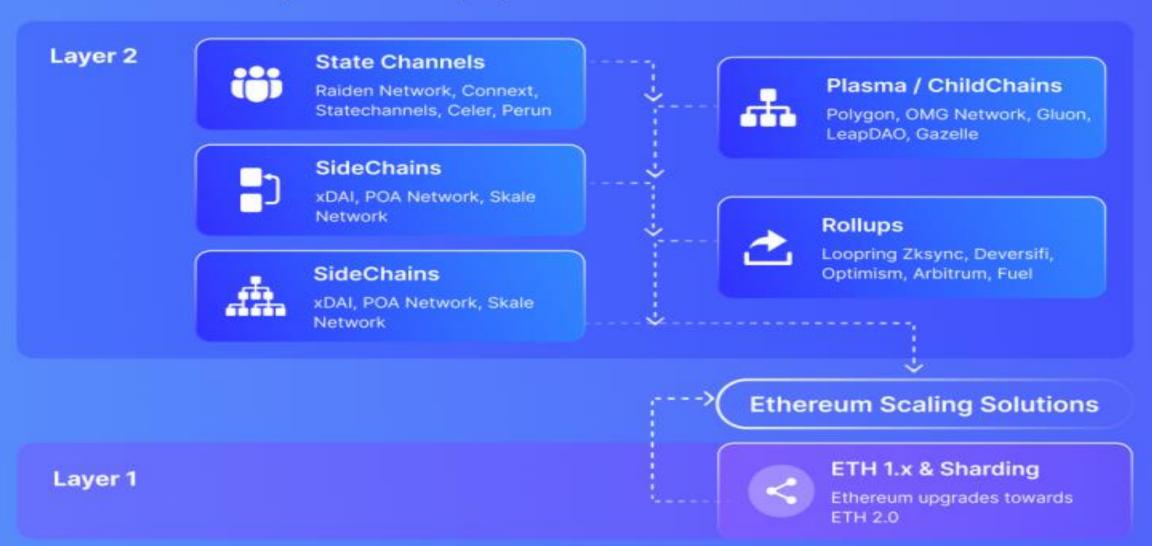
Handling Big data on the Blockchain

Compromising between transparency and privacy



Ethereum Scaling Solutions By Type

Classification of scaling solutions and projects



INTRODUCTION

Over the last few years, developers have begun using Bitcoin's underlying technology - the Blockchain - for creative new applications. Ethereum is a next-generation platform that allows anyone - both developers and consumers - to easily take advantage of decentralized networks and realize the benefits of blockchain technology.

What are Decentralized Networks?

Decentralized networks redistribute functions and powers away from a central server, enabling peer-to-peer communication.

No central point of failure

BitTorrent, used for file sharing, is an example of a decentralized network.

MISE Mist will be Ethereum's end user interface to bring blockchain technologies to non-technical users.

It will include a catalog for decentralized applications and an assortment of other tools.

Mist will work similar to app stores and browsers that consumers are already familiar with.

What will Ethereum be used for?

Decentralizing Existing Services



Bringing Science Fiction to Life

Using Ethereum, IBM and Samsung worked on a proof of concept where a washing machine could: order its own detergent when it

call its own repairman when it breaks down do the laundry when electricity is cheapest!

Unimagined Possibilities



The creators of the internet didn't anticipate social media or cloud computing. We have no way of predicting which breakthrough technologies will be born on the Ethereum blockchain!

The Blockchain

Most networks function using a central authority to make final decisions. The blockchain, a type of decentralized network, is able to make agreements across the whole network, without any central authority.

ENTER ETHEREUM

Ethereum's vision is to decen-ralize the internet by creating a platform where applications can be built and run on a decentralized network. Ethereum is fast and flexible without the inherent limitations of the Bitcoin protocol. Think of Ethereum as a "world computer".

What Bitcoin does for payments, Ethereum does for anything that can be programmed



ether is the native token of Edition of the Purposes. First, by requiring applications to pay ether for every operation they perform, broken or running out of control. Second, ether is their resources to the decentralized network.

Bitcoin uses Blockchain technology to record and verify transactions without the need for a central bank.

Ether

Ether: The "fuel" that runs the Ethereum network



What is being built on Ethereum?

Autonomous bank & market maker.

Rent, sell or share anything without a middleman. Slock. it Cryptographic digital identity solution:

Decentralized prediction market augur

Funding the Vision

On July 22, 2014, the non-profit Ethereum foundation launched a public crowdsale of Ether. The funds collected have helped carry out the development of the project. The sale lasted for 42 days and raised 31,591 BTC, or \$18,439,086, making it (at the time) the largest completed crowdfunded project of all time.

Crowdsale Numbers Million

Ethereum Software Release Dates

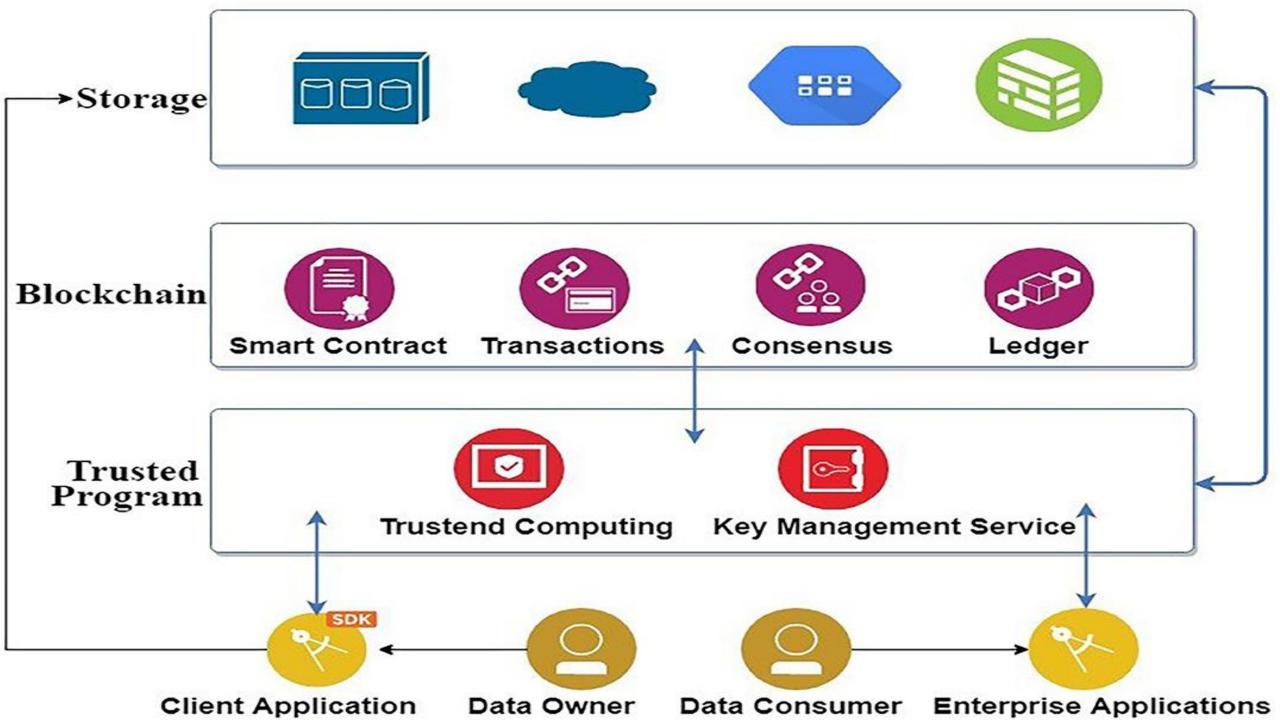
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How does a Smart Contract Work?



Identify Agreement

Multiple parties identify the cooperative opportunity and desired outcomes.



Network updates

All the nodes on the network update their ledger.



Set conditions

Smart contracts are executed automatically when certain conditions are met.



Execution and processing

The code is executed and outcomes are memorialized.



Code business logic

A computer program is written



Encryption and blockchain technology

Encryption provides a secure transfer of messages between parties.







Use Cases and Applications by Industry

Digital Identity

Banking and Finance

Energy and Sustainability

Supply Chain

Sports and Esports

Media and Entertainment







EXPERTS OPINION:WILL ETHEREUM DOMINATE BITCOIN IN NEAR FUTURE?

