

While you are waiting

- Kahoot.com
- Download the app

The Kahoot! logo is written in a bold, purple, sans-serif font. The 'K' is slightly larger and more stylized than the other letters.

- Slido.com
- Pin - P762

The Slido logo is written in a bold, black, sans-serif font. The 'i' in 'Slido' has a green dot.

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Introduction to Blockchain

Chim Himidumage

The Fidenz Technologies logo features a stylized white 'F' icon above the word 'fidenz' in a bold, sans-serif font, with 'Technologies' in a smaller font below it.

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Introduction

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Agenda

- History of Blockchain
- What is Blockchain
- What Blockchain could offer
- Smart Contracts / Ethereum
- Reliability of Blockchain

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History of Blockchain

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What is Blockchain

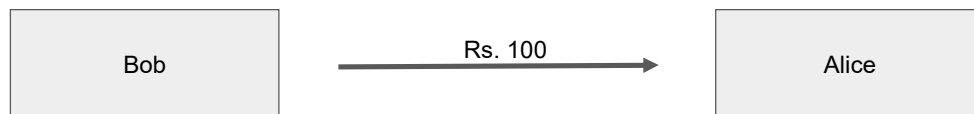
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Transaction & Block

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From	To	Amount
Amarasiri	Premasiri	100
Perera	Silva	200
Alice	Bob	500
....
Chaminda	Chamila	300

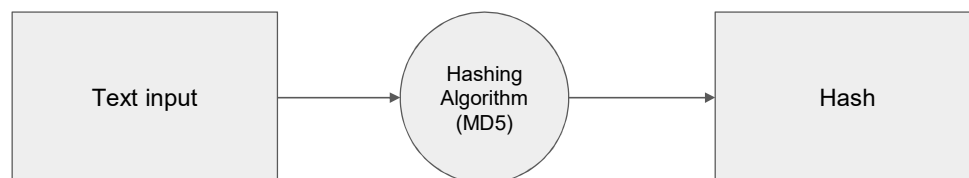
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Hashing

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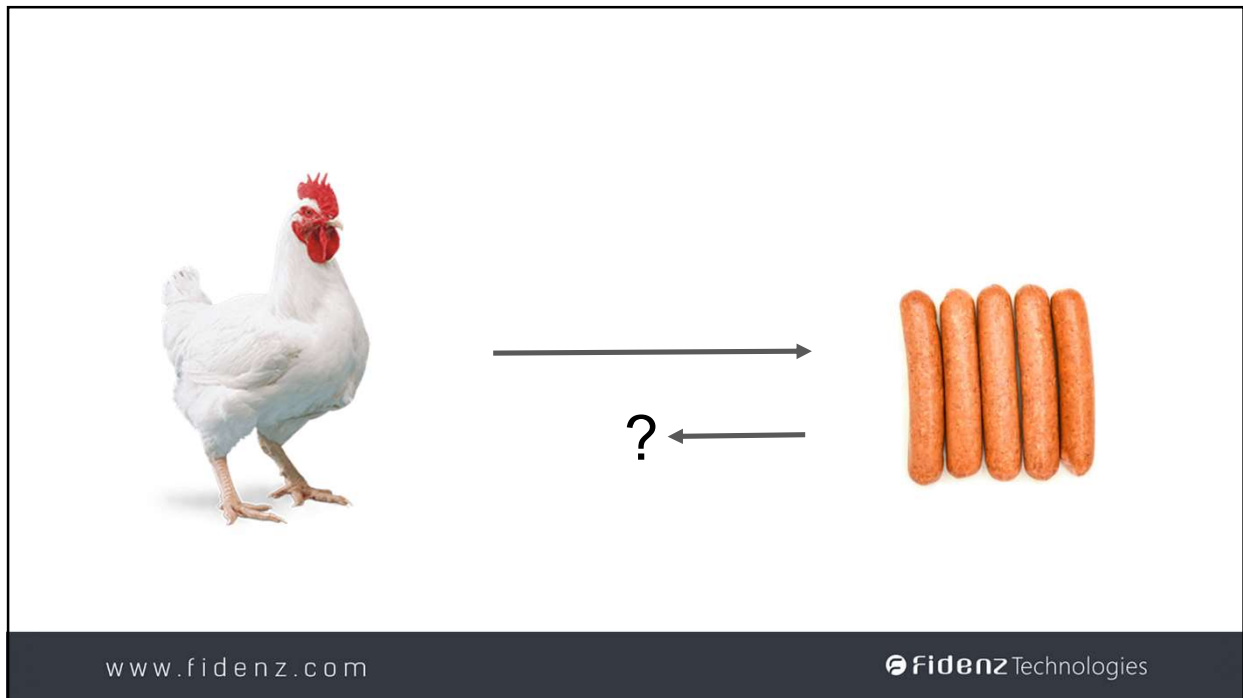
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Hello World (MD5)=>
5eb63bbbe01eeed093cb22bb8f5acdc3
HEllo world (MD5)=>
68df723b3e61541ec5af9c6053357942

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Hash(Content + Random_Data) = 0xABC; {0xABC < specific value}

Hash("Hello World" + "Nonce1") = 0x5eb63bbbe01eeed093cb22bb8f5acdc3

Hash("Hello World" + "Nonce2") = 0x0660908EaBBFa00766A3165b365447

Hash("Hello World" + "Nonce3") = 0x00ba18cffe0545323b7118cf37300f599

Hash("Hello World" + "Nonce4") = 0x0002598A86C2B807eF119838B65379

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Block Hash

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From	To	Amount
Amarasiri	Premasiri	100
Perera	Silva	200
Alice	Bob	500
....
Chaminda	Chamila	300

Block Hash is

**Hash of (Amarasiri,Premasiri,100|.....|Chaminda,Chamila300+
FEW_THINGS)**

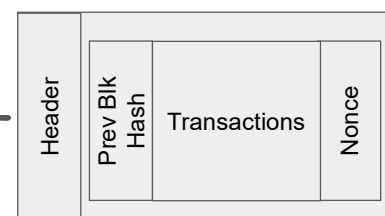
Hash of the Previous Block

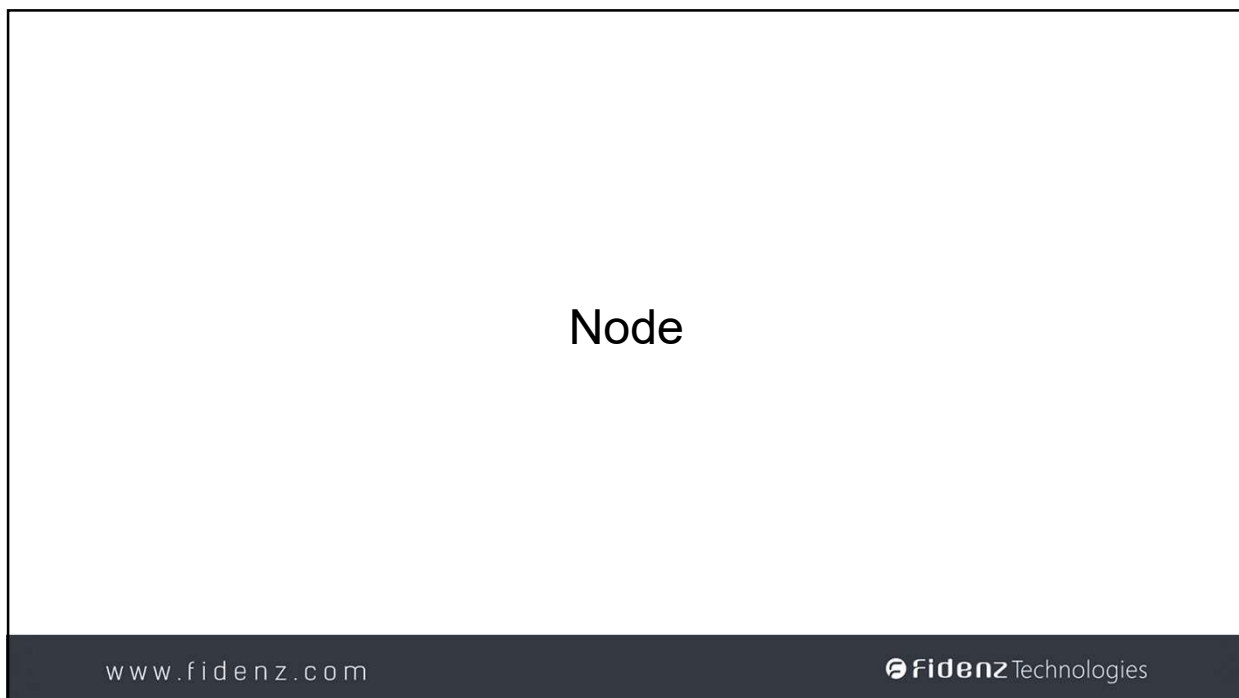
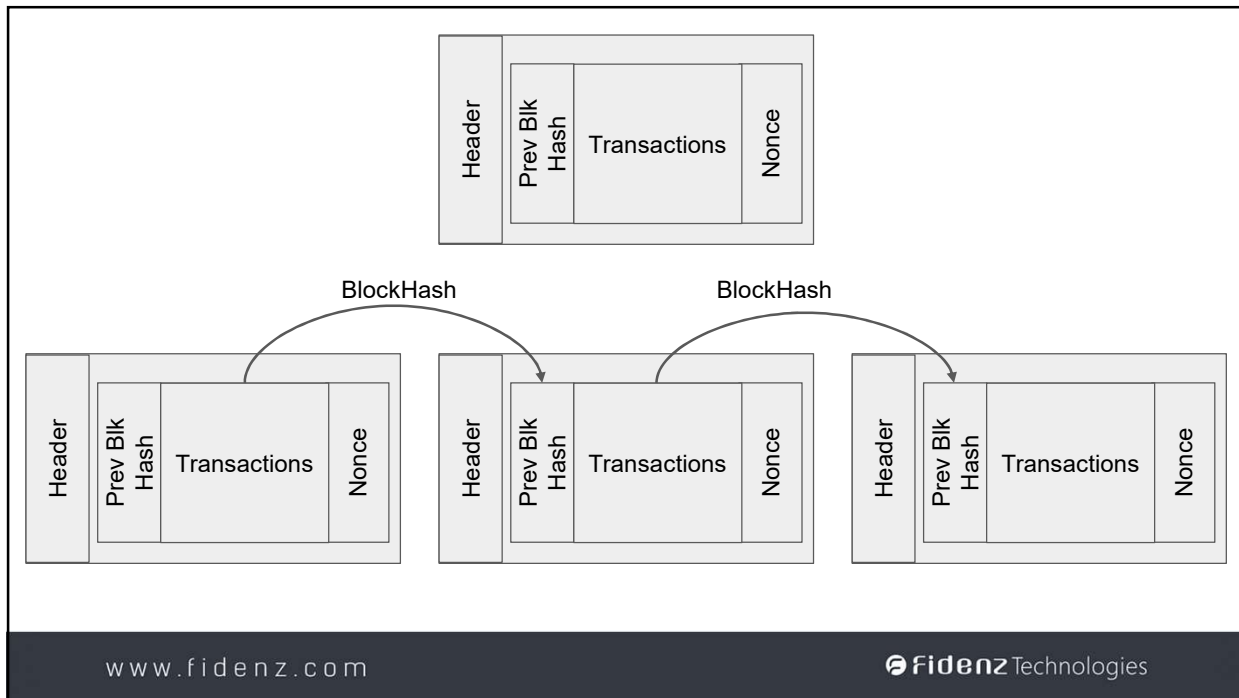


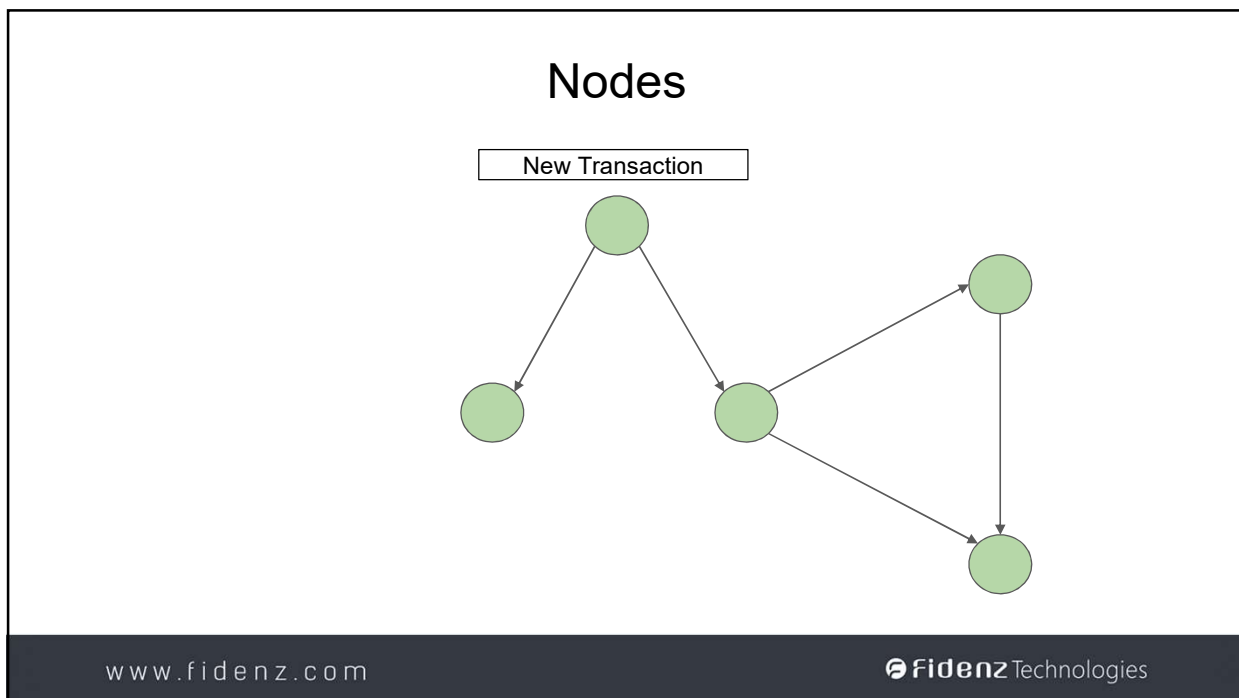
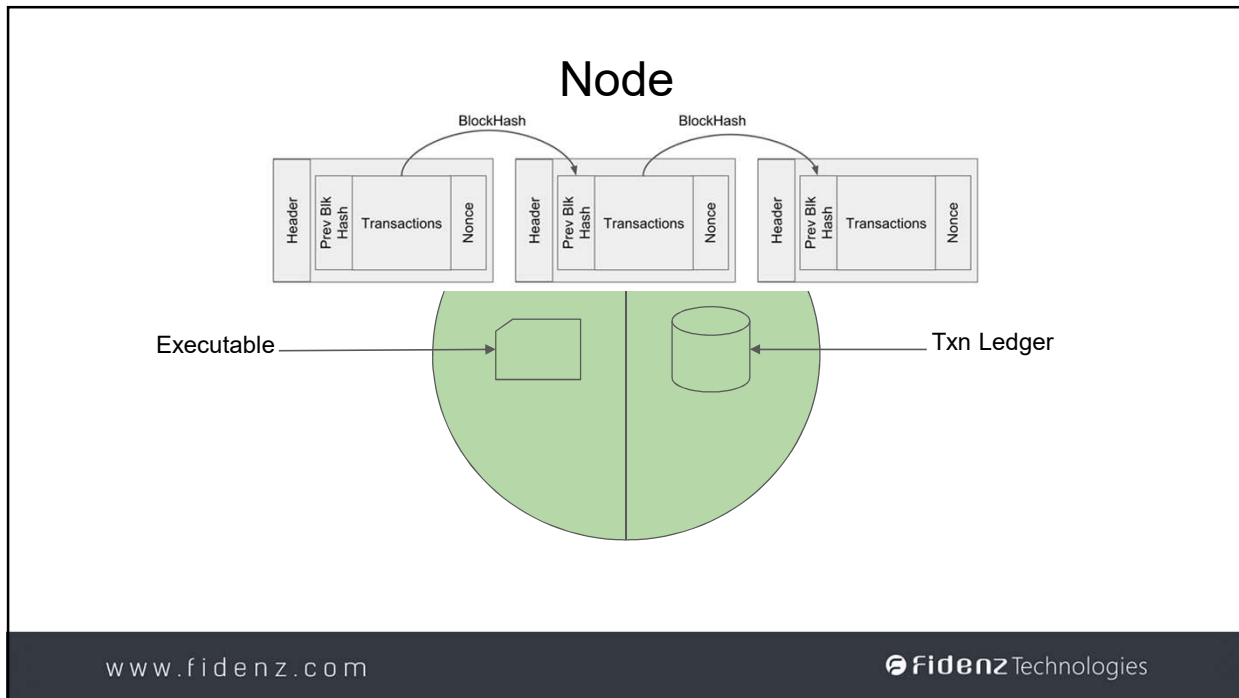
From	To	Amount
Amarasiri	Premasiri	100
Alice	Bob	500
....
Chaminda	Chamila	300



Nonce



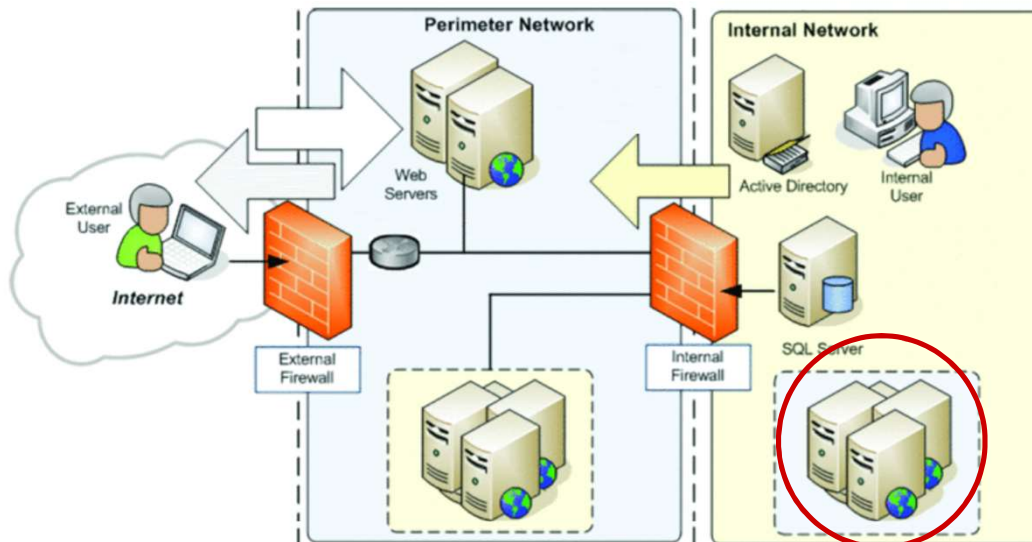




Transactions in a Bank vs. Blockchain

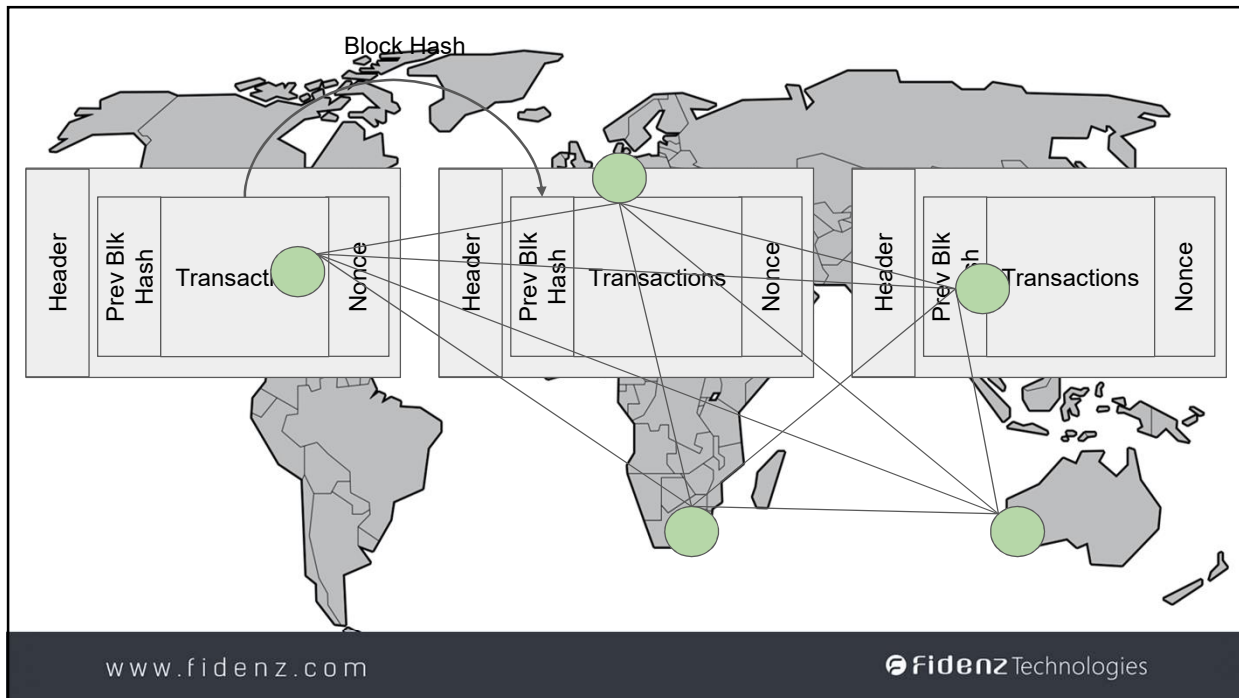
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What Blockchain offers

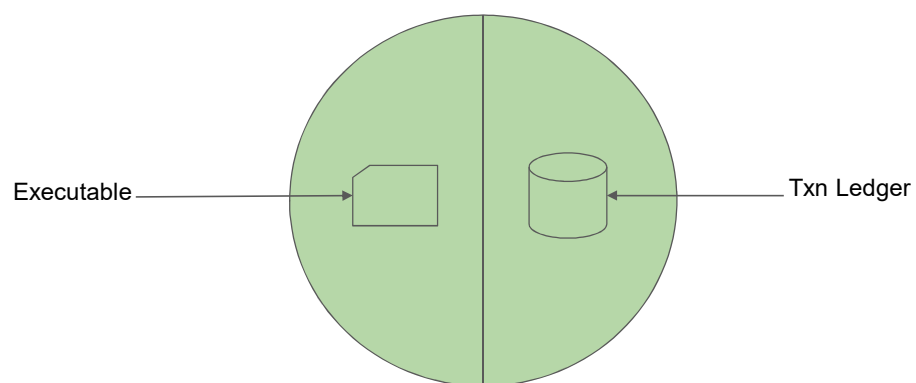
- No central authority
- No intermediaries
- No single point of failure
- Tamper proof
- Low transaction costs
- Borderless transactions

Smart Contracts

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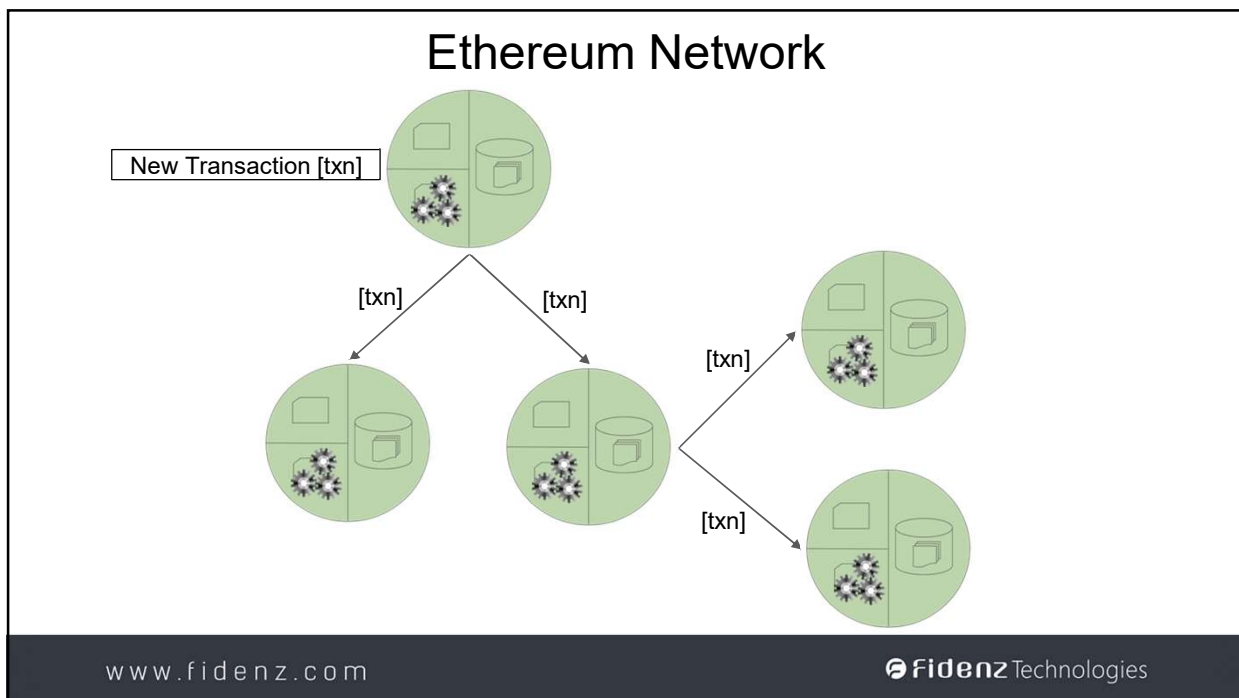
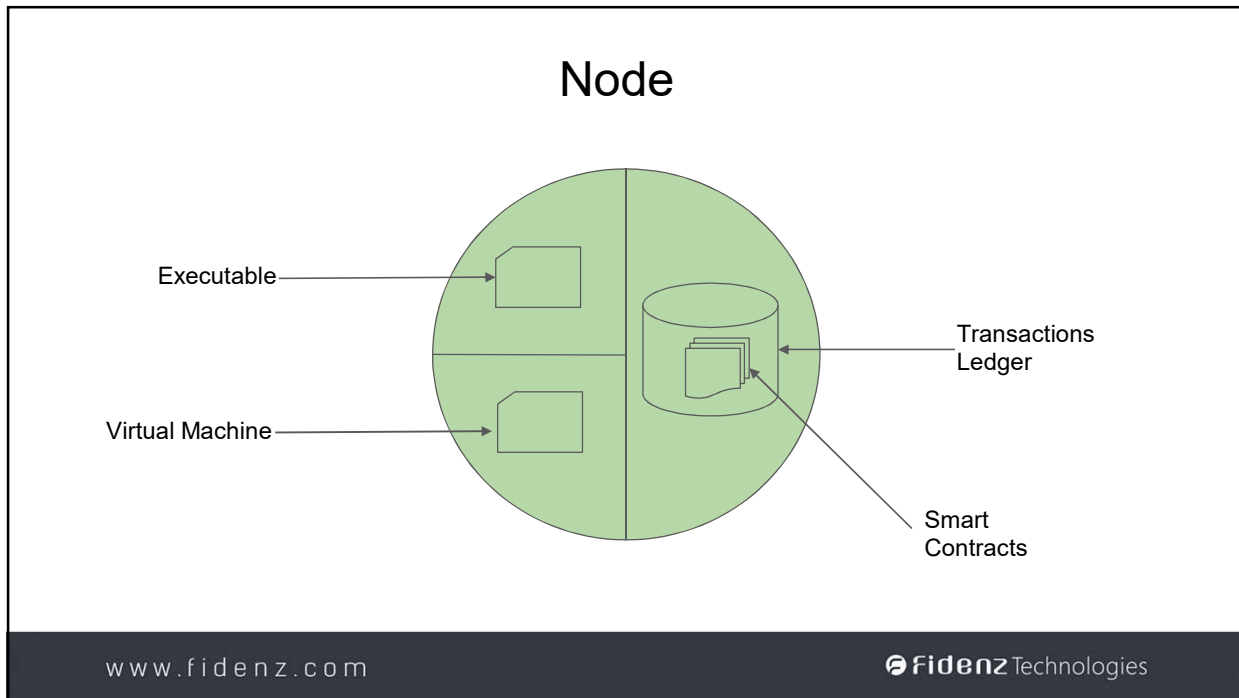
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Node



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How reliable is Blockchain

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Market Capitalisation : \$125 B (9 Years)

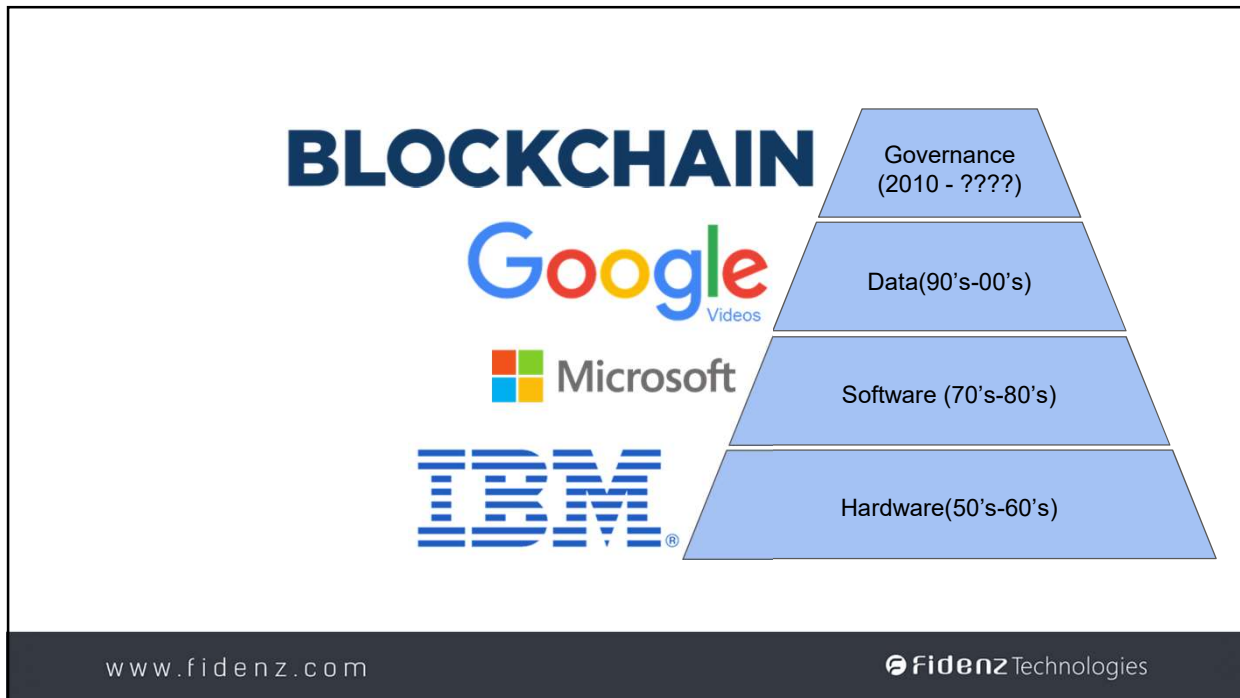
Total Crypto Market Cap

Cryptocurrency Market Capitalizations, Dominance and Market Overview



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"It would never work"

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If works for Banking and Finance
why not for any other industry

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Thank you !

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Assignment

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