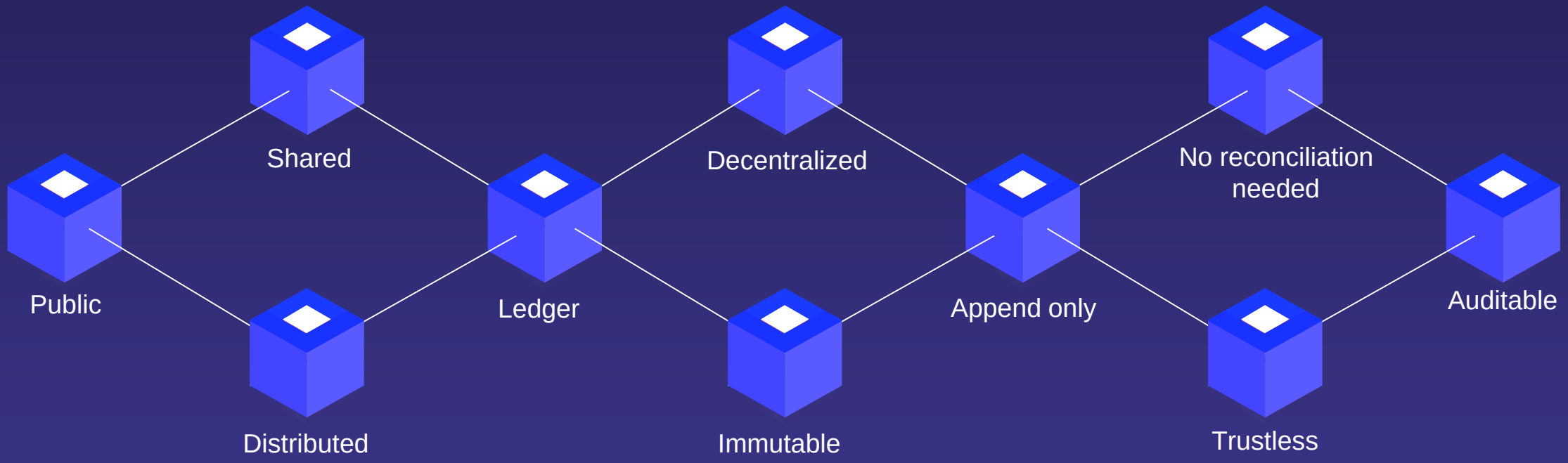
SkyGrid

A Boeing, SparkCognition Company

Blockchain in Aviation

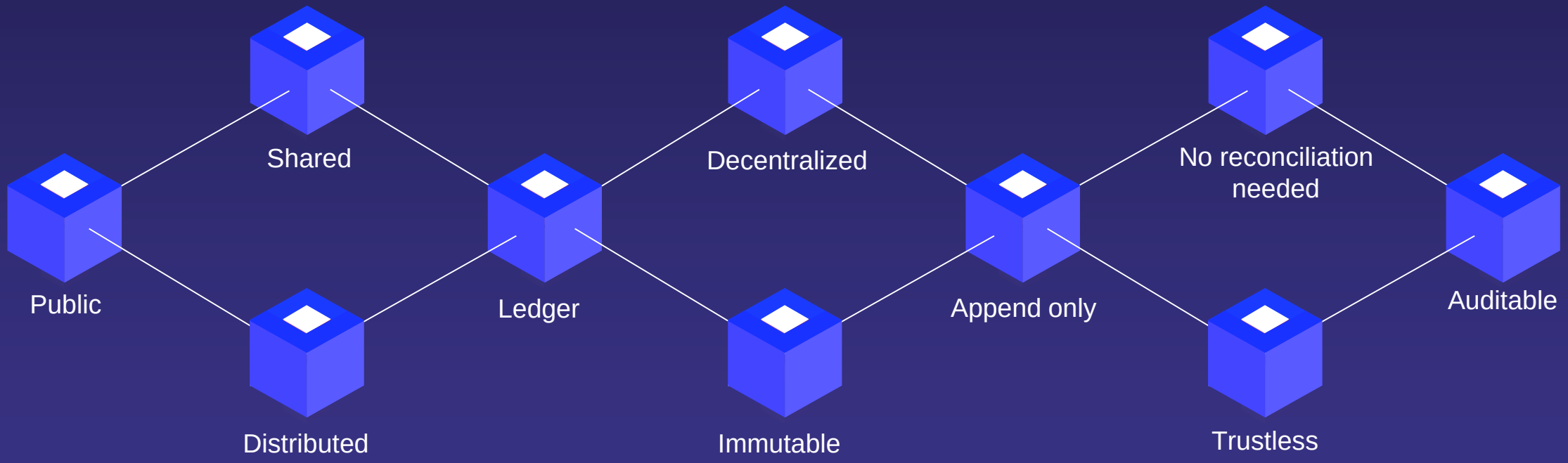
Ali Husain

What is Blockchain?



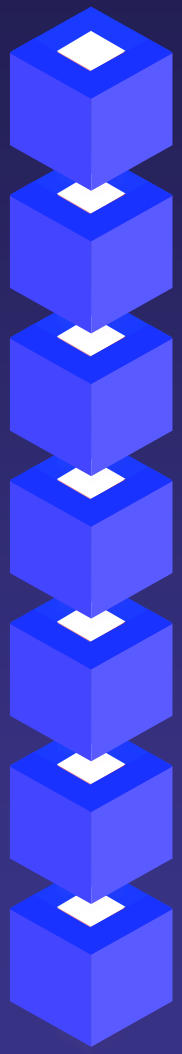
Copyright © 2019 SkyGrid. All rights reserved.

What is Blockchain?



Copyright © 2019 SkyGrid. All rights reserved.

History of Blockchain



2018 **EOSIO Released by block.one**
Raised over 4 billion during ICO

2016 Ethereum DAO Exploit

2015 **Ethereum Genesis Block Created**
Linux Foundation creates Hyperledger Foundation for blockchain development

2014 **Ethereum Crowdsale**
R3 is founded – consortium of over 40 financial companies

2013 **Bitcoin Market Cap > $1 billion**
Vitalik Buterin releases Ethereum whitepaper

2010 First 10000BTC purchase

2009 **Genesis Block**
Satoshi Nakamoto releases Bitcoin whitepaper

Copyright © 2019 SkyGrid. All rights reserved.

Public vs Private

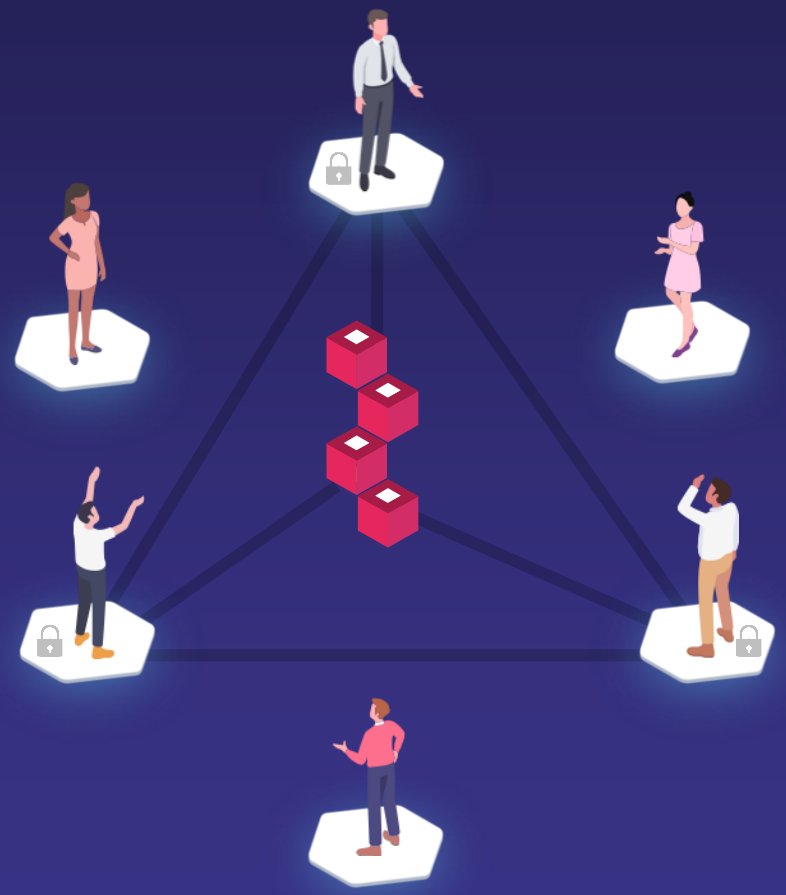
Isn’t it just a shared, distributed DB, that is access controlled?

Blockchain is a type of database

Data integrity

Single distributed source of truth

Impersonation is much harder due to the architecture



Copyright © 2019 SkyGrid. All rights reserved.

Applications of Blockchain

Financial

Citibank is working on its own digital currency, Citicoin

JPM Coin is a digital coin designed to make instantaneous payments using blockchain technology

Supply Chain

SIMBA Chain chosen to help USAF with Additive Manufacturing efforts on the battlefield and at home

Tracr, the blockchain platform launched by De Beers, aims to track almost every natural diamond from the mine to the retail counter

IBM, Walmart partner in China to create blockchain project to monitor food safety

Insurance

AIG teams with IBM to use blockchain for ‘smart’ insurance

Copyright © 2019 SkyGrid. All rights reserved.

SkyGrid & Blockchain

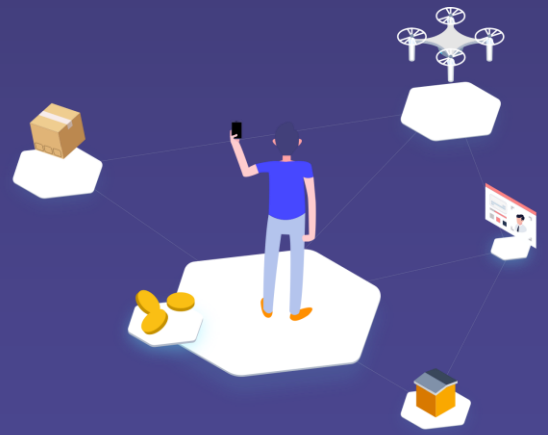
Safe and secure integration of UAVs into the airspace

Creating an ecosystem with trusted, verifiable and immutable data

Accurate data, immediately

Encode behaviors as rules

Auditability systemwide



Realtime data in the blockchain

Copyright © 2019 SkyGrid. All rights reserved.