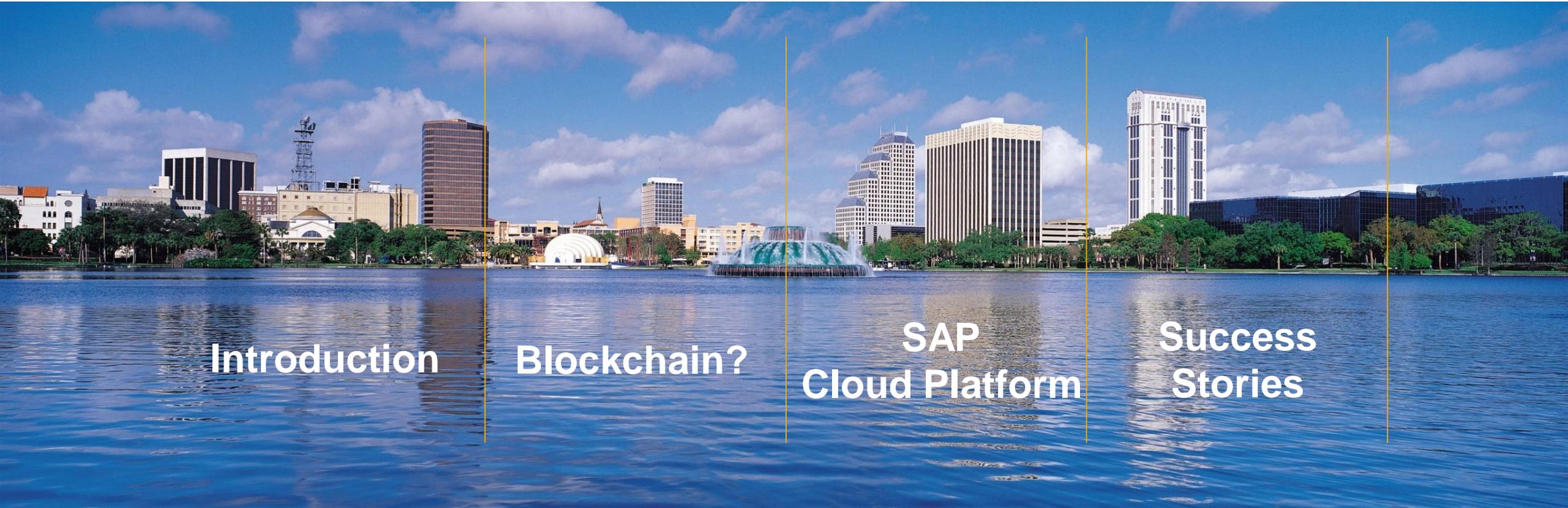


Blockchain in Digital Supply Chain



Yagil Hadri, SAP Israel
January, 2018





Introduction

Blockchain?

**SAP
Cloud Platform**

**Success
Stories**

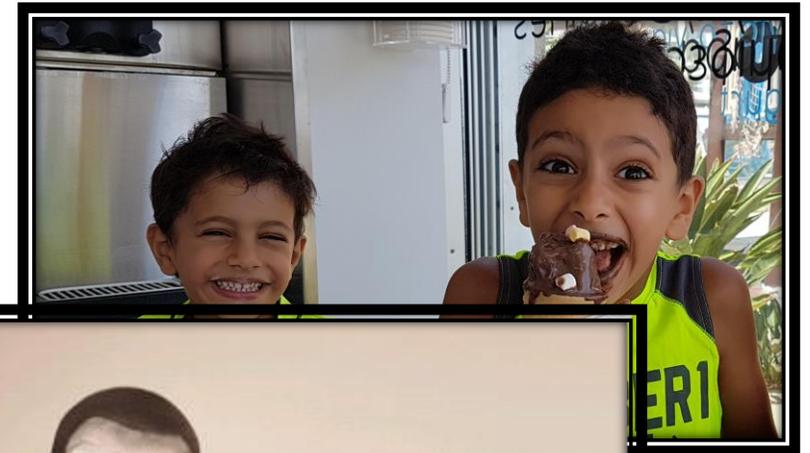
A Little Bit About Me...

Elegancy is a way of life



Yagil Hadri
Senior Solution Architect

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What is Blockchain?

What is Blockchain?

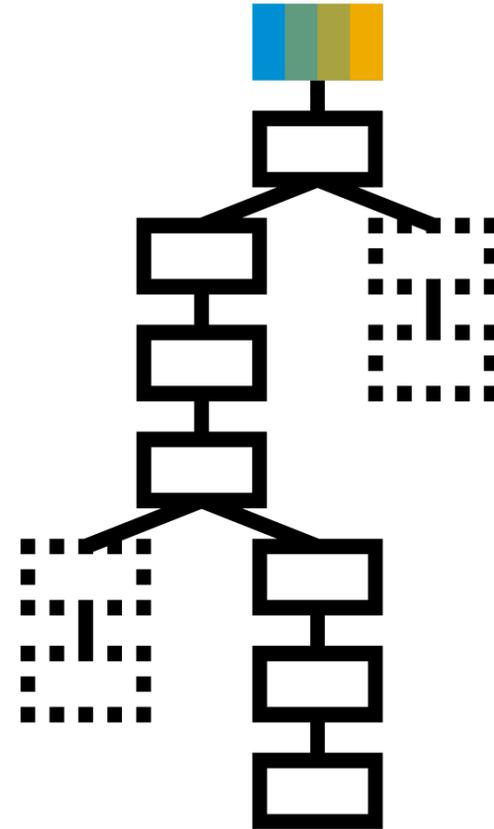
Composition of Existing Technologies

- Decentralized peer-to-peer technology
- Private / Public key cryptography + hashing algorithms
- Consensus algorithm

Database

- Distributed
- Transparent
- Immutable

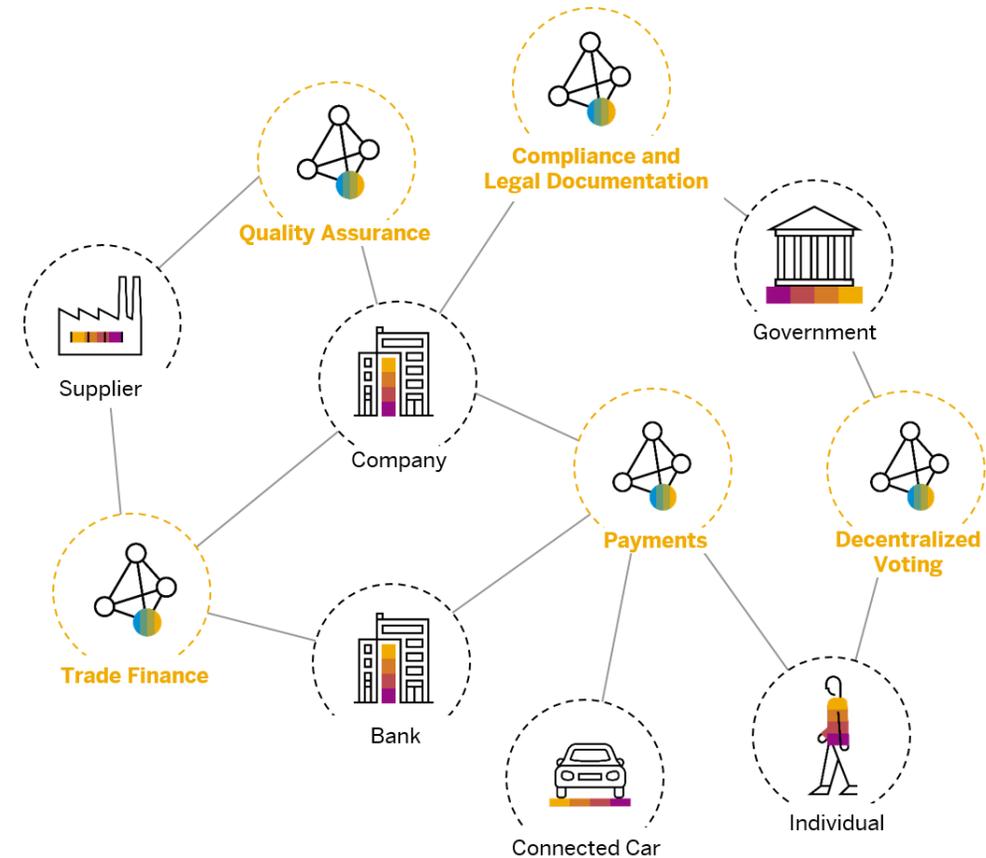
Cryptographically Linked Blocks



CHARACTERISTICS OF ENTERPRISE BLOCKCHAIN

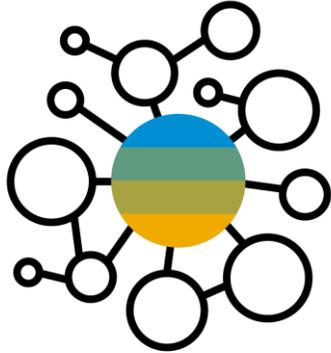
Blockchain is a new protocol for **decentral ledgers** in multi-party business processes.

- ✓ **Business network**
- ✓ **Decentral control**
- ✓ **Immutable audit log + some shared data**
- ✓ **Trust and Transparency**



Blockchain deployment options

Public



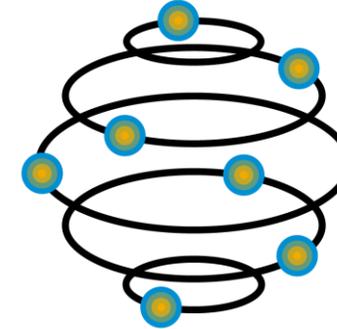
Permissionless Blockchain

Open for everyone to participate and read/write

Uses tokens for value exchange

Consumer to consumer (C2C) and
Business to consumer (B2C)

Private / Consortium



Permissioned Blockchain

Access and permissions are controlled by pre-selected set of participants

Does not use tokens, acts as shared ledger

Business to business (B2B)

➤ **SAP is currently developing solutions for private/consortium blockchain implementations**

The market for blockchain solutions displays high potential

83%

of life science leaders believe blockchain will be adopted within 5 years¹

Over **\$1,4bIn** investments over the past 3 years⁴

71%

of business leaders using blockchain believe it plays a key role in advancing the technology and reestablishing industry standards²

>50%

of companies in consumer products, life science, healthcare, tech and media already deploying blockchain solutions⁴



90+

central banks engaged in DLT discussions worldwide⁴

\$100bn

Market cap of public blockchain assets breaks³

2500+ patents filed over last 3 years⁴

24+ countries currently investing in blockchain⁴

SAP not only ERP

Shelf products

Extended Warehouse
Transportation
Business planning
Production planning
Track & Trace

SCP – Platform

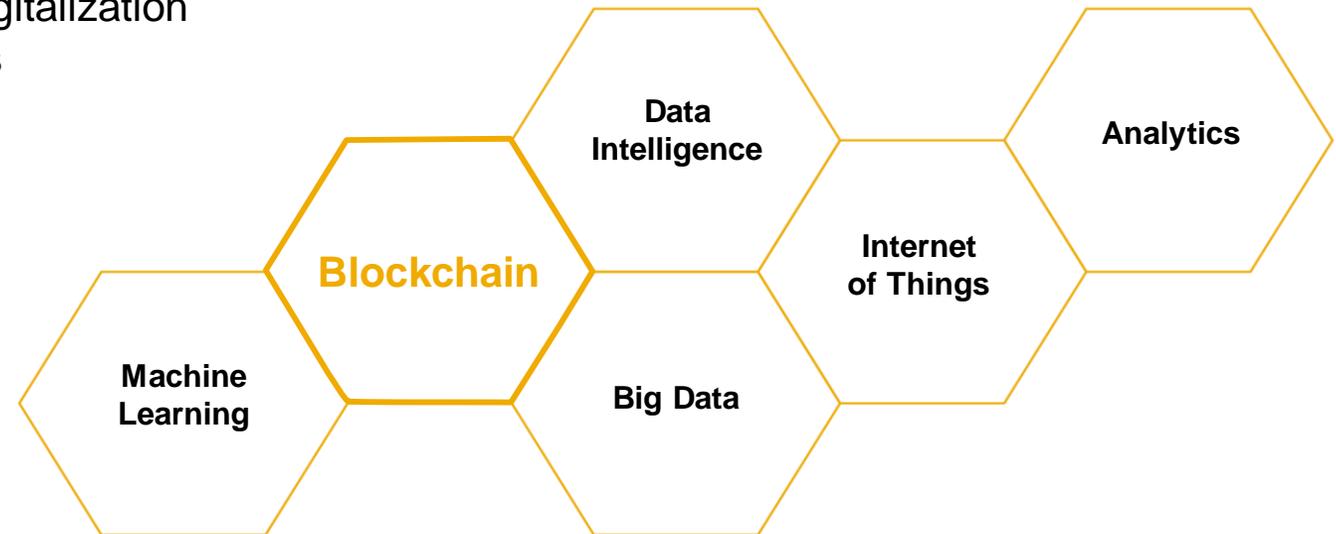
Cloud
Mobile
IOT
Big data
Machine learning

Platform based products

Vehicle insights
Connected goods
Predictive maintenance
Asset intelligence Network
Asset manager

Strategic fit within the SAP Cloud Platform portfolio

- Blockchain has the potential to contribute to the digitalization initiatives of customers across industries and LoBs
- To ensure the successful adoption of blockchain technology, target customers need to display a moderate to high level of digital maturity
- Examples of how blockchain can be combined with other next-generation technologies from the SAP Innovation portfolio
 - Analytics applied to blockchain transaction data can provide new business insights
 - Machine learning algorithms can be trained to examine supporting documentation that serves as evidence for blockchain transactions
 - Internet of Things enables a decentralized machine-to-machine transaction environment



SAP Innovation
Technologies

SAP Cloud Platform
Blockchain

➤ Blockchain adds unique capabilities to the Innovation portfolio

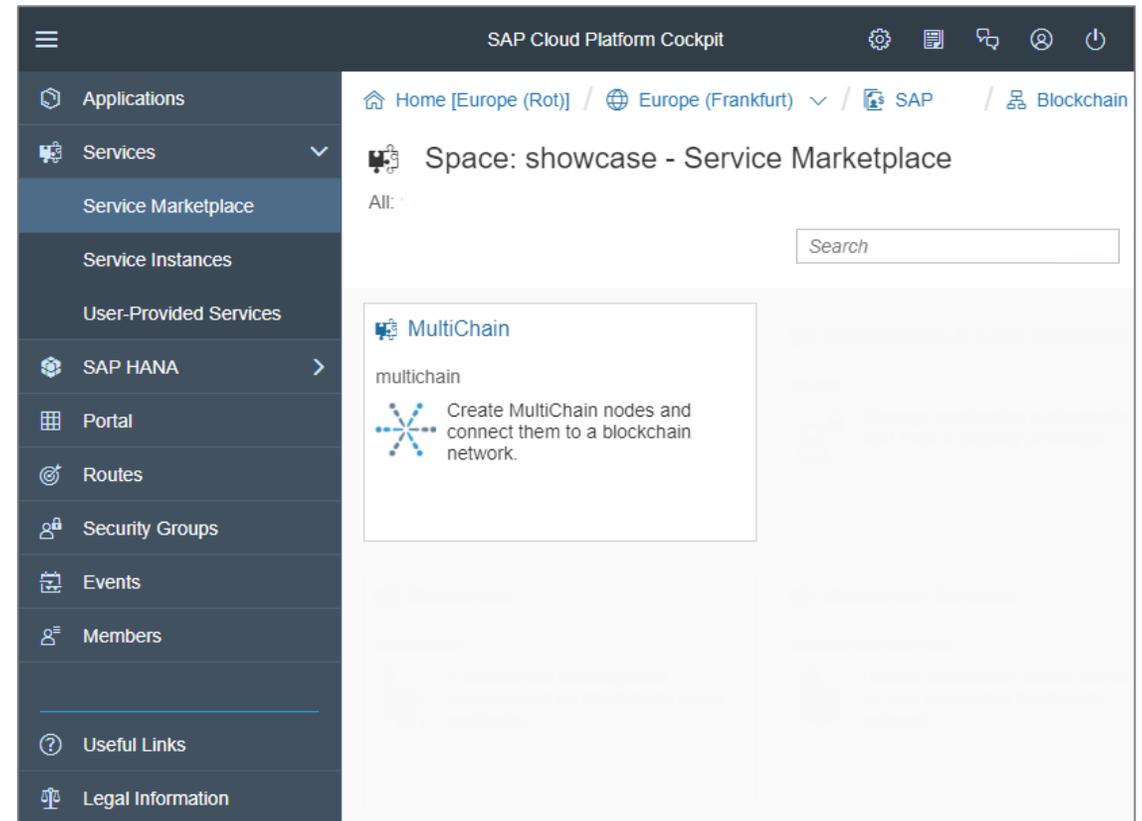
MultiChain on SAP Cloud Platform

- MultiChain is an established blockchain fork, based on the Bitcoin protocol
- It primarily supports scenarios for Data Storage & Retrieval, and Asset Transfer

Highlights

- 100% MultiChain scope supporting streams and assets
- Dedicated, networked nodes per service instance
- Explore network, collaboration and business process between companies
- Option to test technical integration of 'cloud-to-cloud' and 'cloud-to-on premise'
- Cross-datacenter setup supported
- Explore the data on the MultiChain node/network using the SAP MultiChain Dashboard

Features – Pricing – Resources ([link](#))



Thank you.

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