



TRAVEL CONNECT

Applying Blockchain to Air Travel

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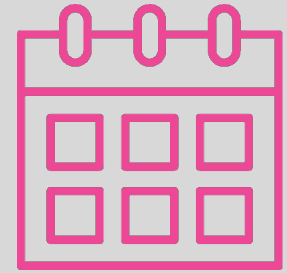
WHAT IS BLOCKCHAIN?

A method of **formatting, verifying & distributing data.**

FORMATTING DATA

IN BLOCKCHAIN

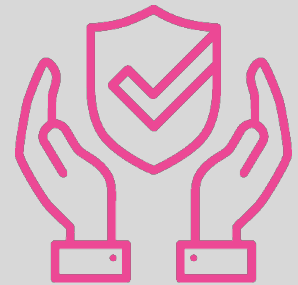
Where calendars view data as events in a timeline, and phone books view data as names and phone numbers, blockchain views data as transactions between multiple parties along a shared ledger. Most data entries stored in blockchain are transactions between two consenting parties. Other entries might be reference data, such as tax tables and regulations.



VERIFYING DATA

IN BLOCKCHAIN

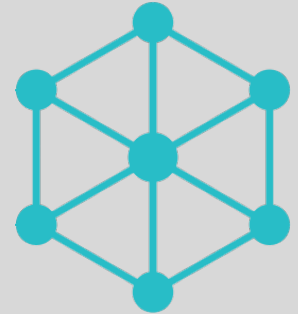
A transaction is posted in blockchain only when the transacting parties to a single transaction simultaneously consent to its accuracy. In this way, all blockchain data is consensus-driven and verified, offering transparency and provenance between the original supplier and the end buyer.



DISTRIBUTING DATA

IN BLOCKCHAIN

Because the ledger, or blockchain, is shared, it is also a means of distributing data. Alice doesn't need to ask Bob to distribute his data to her because Alice shares access to the relevant data store with Bob. Nevertheless, Alice and Bob do have partitioning and control over certain elements of their own data.





HOW WILL BLOCKCHAIN IMPACT AIR TRAVEL?

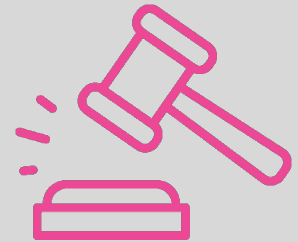
**Innovate single-record-of-truth,
multi-party data, security
and identity profiles**



SINGLE RECORD OF TRUTH

IN BLOCKCHAIN

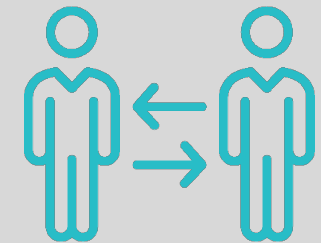
Both parties to a transaction refer to a single ledger of historical transactions, or a single blockchain, rather than maintaining their own, independent, and potentially conflicting sets of records.



MULTI-PARTY DATA

IN BLOCKCHAIN

Because blockchain is designed to be the collective, shared, single record of the truth, it is the ideal format for storing transaction data between multiple parties, such as airlines, agencies, distributors, and settlement and data services, which can then create a transformative marketplace for content, or an industry network, as inventory becomes dynamic and programmable.



SECURITY

IN BLOCKCHAIN

The data is broken into blocks and distributed among multiple nodes, offering the highest level of cryptographic security. There is no single point of failure and no central admin with a hackable username and password combination.



IDENTITY & PROFILES

IN BLOCKCHAIN

In blockchain, a unit of value is never independent from a profile. Each ledger entry attests to a transaction that is itself a record of value and ownership.



HOW WILL BLOCKCHAIN
IMPACT AGENCIES?

**Innovate reporting and
payments & commissions**

REPORTING

IN BLOCKCHAIN

Access to the “single record of truth” upgrades agency reporting capability, by virtue of persistent, real-time data, vastly reducing the pending period and helping to close the gap between invoiced spend and traveled spend. Data can be exported from blockchain to a number of databases and reporting platforms (*eg: Tableau, Postgres, etc.*)



PAYMENTS & COMMISSIONS

IN BLOCKCHAIN

Increased functionality, the ability to customize commission tracking, general transaction and payment tracking.





WHAT IS ARC'S ROLE WITH
BLOCKCHAIN INNOVATION?

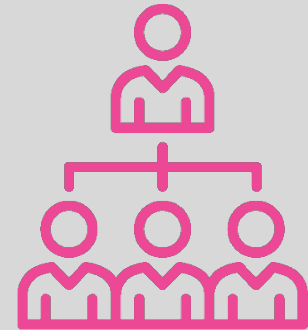
**Innovate governance,
data integrity and
payments & settlement**



GOVERNANCE

IN BLOCKCHAIN

Test and implement automatic, general governance and trusted stewardship: actor credentialing, inventory certification, settlement and dispute resolution.



DATA INTEGRITY

IN BLOCKCHAIN

For a next-generation architecture, leverage a trusted history of transactions, actors, accounts, credentials and provenance.



PAYMENTS & SETTLEMENT

IN BLOCKCHAIN

Blockchain enables next-generation payment capability for clients and agencies.

Smart contracts will increase the options for payments; pricing; and dynamic, targeted, and contracted rates.





WHAT HAS ARC DONE WITH
BLOCKCHAIN TODAY?

Design, build and test



DESIGN, BUILD & TEST

IN BLOCKCHAIN

ARC has been hands on building and testing blockchain with real world settlement scenarios.

At the heart of our effort is building a solution that enables all of our customers to deliver the best experience for the traveler.



WHAT'S NEXT?

**Explore agency
integration, corporate
buyer solutions and
include hotels**

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For more information, visit
www.arccorp.com.