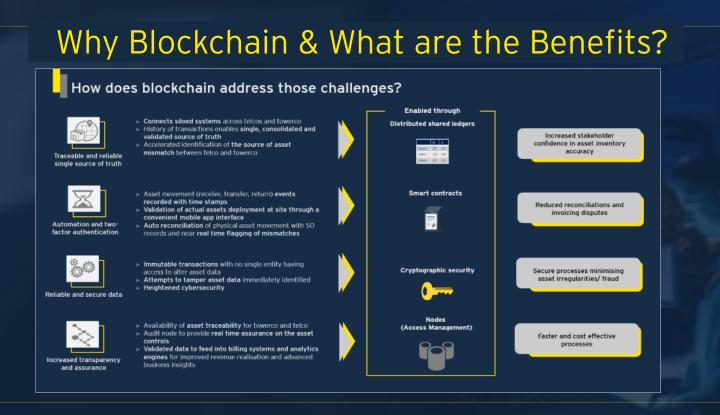


## Telecom Asset Movement on Blockchain Enhancing Visibility and Trust in Telecom Asset Billing









- Multi-party environment with multiple disparate systems, leading to lack of trust and no single source of truth
- > Revenue leakage on Towerco's part due to inaccurate billing, on account of mismatch between physical asset on site vs. towerco system data
- ▶ Inflated cost and wastage of time and effort in post-facto reconciliation of records with physical network deployment
- ▶ Lack of asset traceability and visibility to the entire distributed asset base for the Opco, leading to high risk of loss, theft, damage and service disruption

**Billing** 

Reconciles the assets

Billing as per asset at

site report from

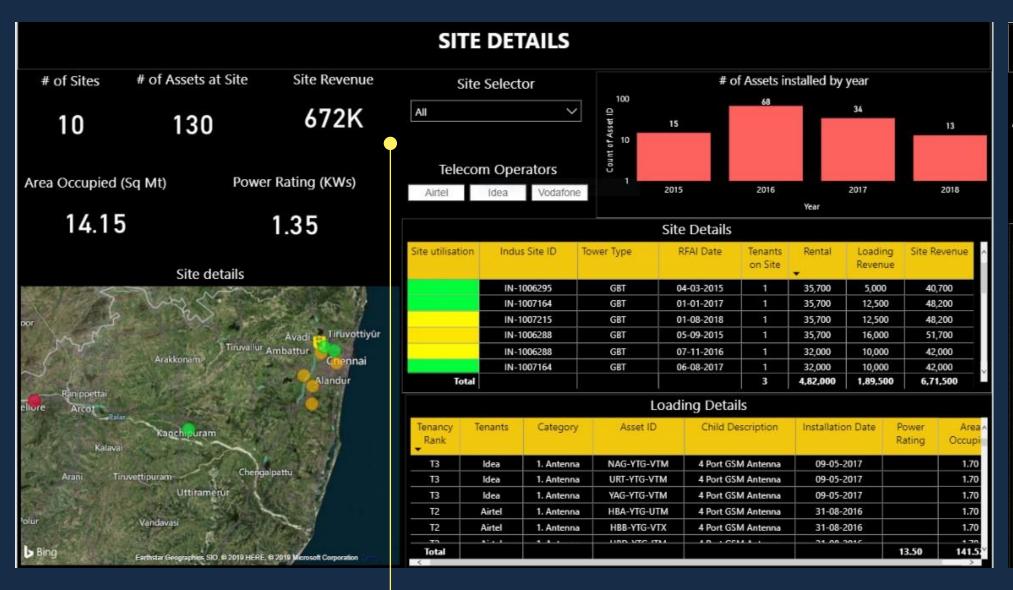
towerco system

and settles invoices

- Disputes over key billing factors (RFAI, RFS etc.) and lack of an efficient resolution mechanism
- **Delay in update of accurate asset movement** details in participant systems
- ▶ Lack of controls and validations and inability of parties to efficiently confirm the physical deployment of assets on site

## Our Solution - A Shared Data Platform for Key Stakeholders

- ► A shared blockchain-powered site asset repository that is accessible to all stakeholders on desktop and mobile interfaces
- > Asset movement data is updated and auto-reconciled in near real-time, creating an immutable and trusted single source of truth for all stakeholders
- ► Source of validated and readily verifiable data from site, which can be leveraged for Towerco's billing systems and for Opco's asset tracking and spend management objectives



Near real-time updated data of assets on site can be filtered by site ID and operator

Asset movement details verified by both opco and towerco via mobile app interface and visible to both parties through a dynamic dashboard with asset owner, movement type and time-based filters to uncover business insights from validated data

## How does blockchain address those challenges?



Traceable and reliable single source of truth

- ► Connects siloed systems across telcos and towerco
- ► History of transactions enables single, consolidated and validated source of truth
- Accelerated identification of the source of asset mismatch between telco and towerco



## Enabled through

Distributed shared ledgers

|             | Dr    | Cr    |
|-------------|-------|-------|
| Distributor | 5.00  | 5.00  |
| Publisher   | 15.00 | 15.00 |
| Developer   | 3.00  | 3.00  |

**Smart contracts** 



Cryptographic security



Nodes (Access Management)



Increased stakeholder confidence in asset inventory accuracy

Reduced reconciliations and invoicing disputes

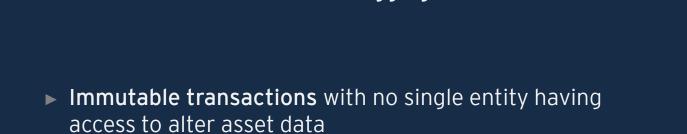
Secure processes minimising asset irregularities/ fraud

Faster and cost effective processes



Automation and twofactor authentication

- ► Asset movement (receive, transfer, return) **events** recorded with time stamps
- ▶ Validation of actual assets deployment at site through a convenient mobile app interface
- ► Auto reconciliation of physical asset movement with SO records and near **real time flagging of mismatches**



- ▶ Attempts to tamper asset data immediately identified
- ► Heightened cybersecurity



Reliable and secure data

Increased transparency and assurance

- Availability of asset traceability for towerco and telco
- ► Audit node to provide **real time assurance on the asset** controls
- ► Validated data to feed into billing systems and analytics engines for improved revenue realisation and advanced business insights





