

Innovate | Automate | Transform

Blockchain Capabilities

GeT's Blockchain Capabilities



Our Blockchain Expertise:

QUARK

- Real time tracking of Goods and Services using Blockchain technologies
- Ability to handle multi party contracts and settlement along the logistics value chain
- Significant savings in transactions processing and reconciliation times

AXIS

- Tool & Die Lifecycle Management
- Possible to group all tools & dies required for manufacturing a specific components through the system. Will help in planning process, reduced machine down time and improve customer delivery.
- All stakeholders, Tool makers, Component suppliers can track & trace all the 6000 tools & dies on the system. 100 % fool proof, no pilferage and stock out.

Bill Discounting

- Digitizing the hundi payment and bill discounting process leads to significant reduction in transaction processing time.
- Blockchain enablement provides for a transparent view of the transactions facilitated by the shared ledger.
- Blockchain enablement provides for faster reconciliation and efficient compliance & audit processes.
- Workflow approval process is fully automated

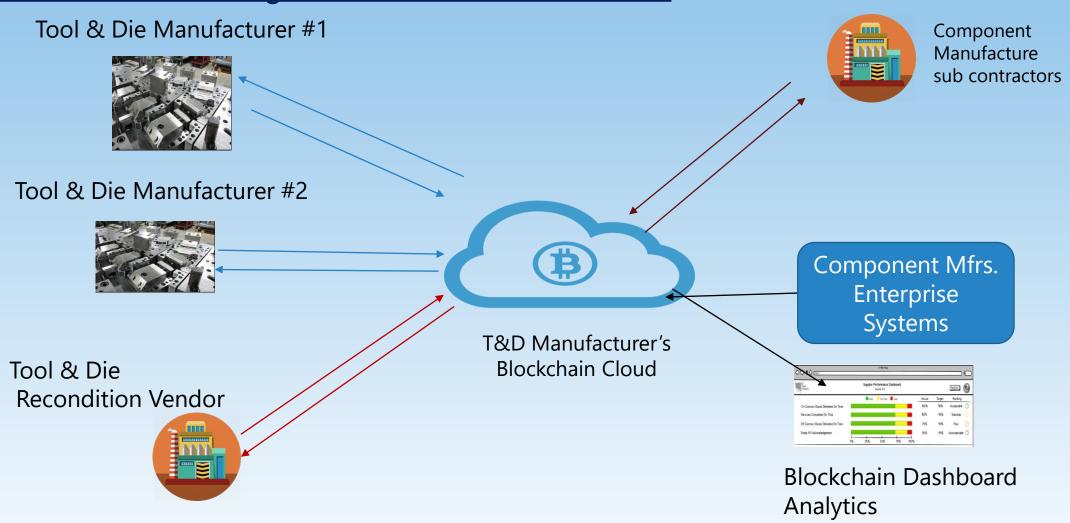
XACT

- Bunkering Solutions
- Bunkering involves multiple stake holders - The vessel-incharge, bunkering vendor, surveyor, Fuel Analysis labs, mediators
- The procedure is totally manual requiring extensive monitoring and ratification by all parties
- With blockchain enablement, all the measurements and the transactions can be stored in a distributed database which is immutable





Tool and Die Management: Blockchain solution





Features:

- Tracking of tools & dies
- Monitoring tools & dies life & regrinds
- Capturing of quality reports of tool makers
- Capturing of quality data of tools & dies within Mangal
- Grouping of tools & Dies for each components
- Linking Tools & Dies with Production plans



Blockchain Solution using Smart Contracts:

- Blockchain enablement provides for a transparent view of the transactions facilitated by the shared ledger across all stakeholders leading to improvement in Operational efficiency
- End to End traceability of assets
- Alerts and notification related to quality data (Test results), approval status are available online through Blockchain reports
- Will enable improvements in Production Planning
- Ability to predict end of life through data analytics





Hundi Discounting: "As Is" Process

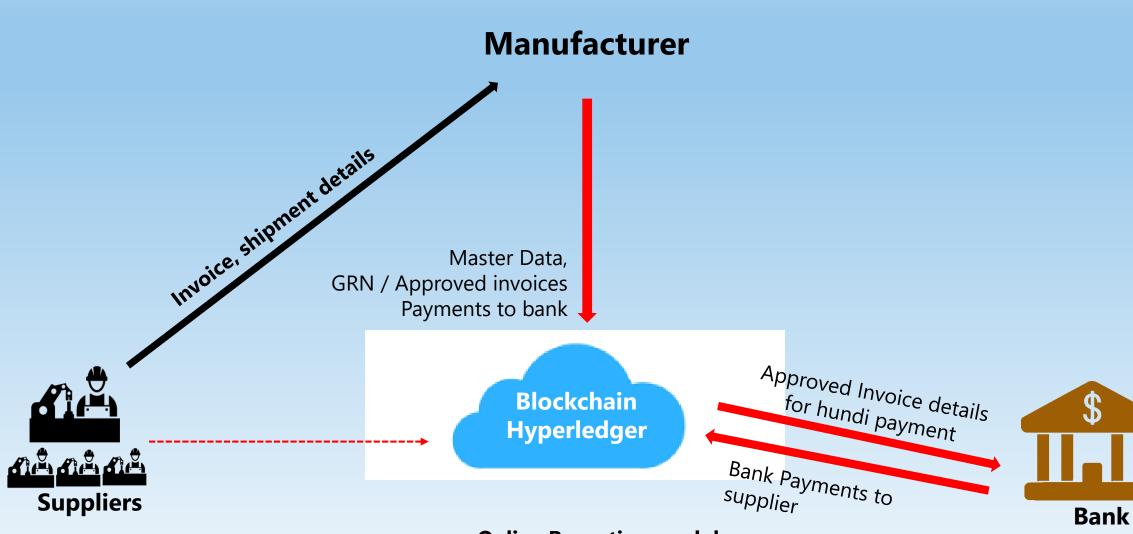
- Co raises the Blanket PO for the supplier to deliver required parts
- Supplier ships the parts and raises the invoice against the PO/Schedule
- Supplier sends the Hundi copy and invoices to AL finance
- Co validates invoice details with 3 way matched invoices from their ERP system.
- Co finance approves invoices for bill discounting by Bank and returns the approved copy of Hundi documents and invoice to the Supplier
- Supplier submits the hundi and approved invoice documents to the bank for payment (bill discounting).
- Bank releases the payment to supplier.
- Co releases the payment at the end of the credit period



Hundi Discounting: Blockchain enabled "To Be" Process

- Supplier ships the parts and raises the invoice against the PO/Schedule
- Co updates the GRN and completes 3 way matching in the ERP.
 - Details updated in Blockchain through APIs
- Blockchain system notifies bank to discount and release payments for the approved invoices
- Bank releases payment to the supplier for approved invoices (no realtime integration with bank systems).
 - Bank Payment to supplier on discounted invoices updated in Blockchain
- Co will release payment to bank at the end of credit period for the bill discounted invoices.
 - Payment details updated in Blockchain





Online Reporting module



Three key benefits of using BLOCKCHAIN / iOT



BUILD TRUST

Build trust between Parties and Devices

Reduce risk of collusion and tampering



REDUCE COSTS

Reduce costs by removing overheads associated with middlemen and intermediaries



ACCELERATE TRANSACTIONS

Reduce settlement time from days to near instantaneous



Smart Contracts

BLOCKCHAIN - iOT - AI

Velocity blurred lines between physical & digital



Encrypted cyber security



Technology Stacks:

Hyperledger – QUARK, Michelin

Language - **Go, Node.JS**Database - **CouchDB, LevelDB**

Ethereum – **QUARK, Digital Identity, Talend**

Language - **Solidity, Node.JS**Database - **MongoDB**Server - **Geth**

Benefits of working with Gemicorn



Function	Impact on
Mgmt time savings	Focus
Cut fixed costs	Profits
Eliminate variable costs	Profits
Conserve capital	Profits
Achieve scale	Growth
De-risking goals	Profits

- 24 x 7 operation (No need to fret on Sat/Sun).
- Gemicorn takes responsibility for production allowing you to focus on your customers.
- Highly Scalable
- Further expansion to outsourcing and other technology landscape



Thank You!

India – Chennai <u>www.gemi-corn.com</u> Australia – Adelaide, Melbourne <u>www.gemicorn.com.au</u>