

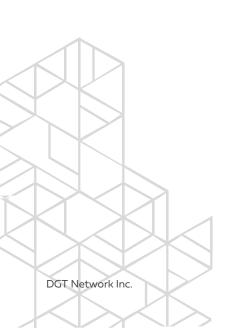


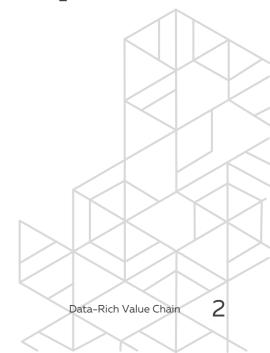
## Achieving Data-Rich Value Chains

CROSS-ENTERPRISE INTEGRATION DGT PLATFORM



## Supply chains need integrative mechanisms to turn into a **unified information space**:





## **Missing Information**

What is happening to the business in real time?



**OVFR** 

\$49B+

Annual losses for retail businesses globally due to rampant supply chain fraud



Wasted on ineffective intermediaries in North American supply chains

Data according to Hollingsworth Supply Chain, Deloitte

#### **Core Problems:**

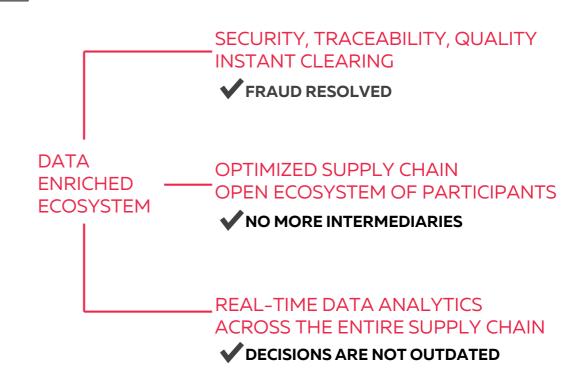






## Resolved by the **Right Technology**

A system is needed that could use
modern decentralization capabilities
to integrate businesses into
a transparent pool of data
and deep analytical insight,
available to all participants of the supply chain
across corporate information borders.







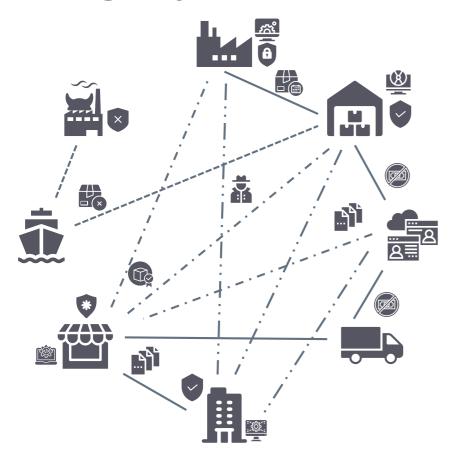


**DGT** is a decentralized integration platform for **uniting** data, services, and businesses into a **data-driven ecosystem**.

DATA AT
THE CORE OF
THE BUSINESS

A SHARED ENVIRONMENT OF TRUST INTUITIVE CROSS-ENTERPRISE INTEGRATION

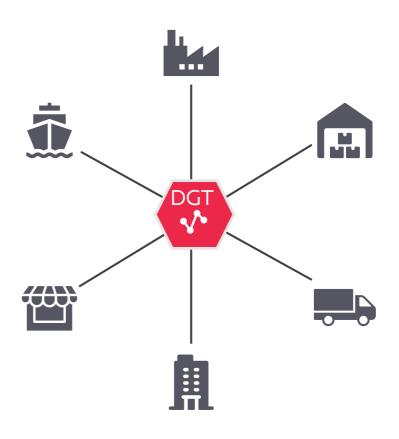
## Legacy Approach



#### POINT-TO-POINT MESSAGING

Inconsistent State, Data Borders, Not Real Time

## DGT Approach



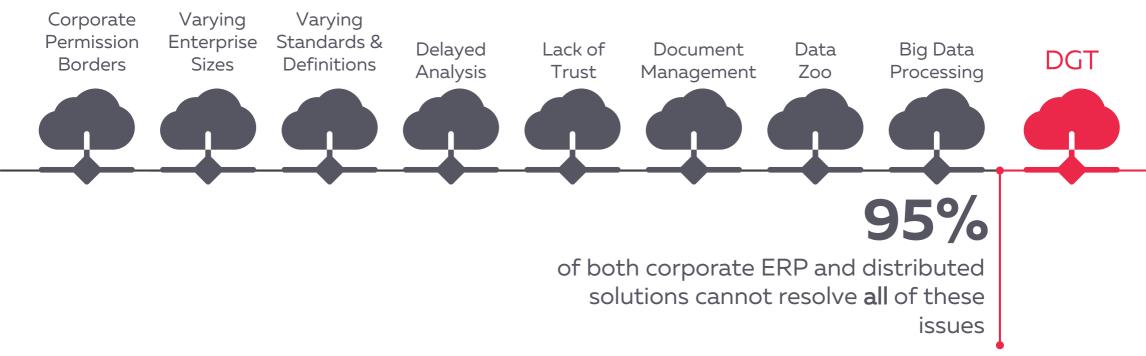
#### MULTI-PARTY COORDINATED FLOW

Data Enriched, Real-time, Single Version of Truth

Why are so many businesses **still struggling** to make it happen?



## An effective supply chain requires overcoming **information barriers**



## How does **DGT** make it work?

#### LAYER 1: INTEGRATIONAL CORE (DGT DECENTRALIZED NETWORK)



**Decentralized Network** – a new mechanism of integration. Improved **sourcing and quality of data**; cross-enterprise data pool; a system of transacting, storing, and **processing value** 

#### LAYER 2: DEEP ANALYTICS (AI NEURAL NETWORK)



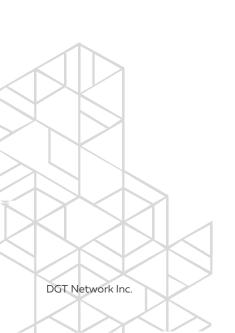
**Edge AI** – a flexible mechanism of analytics that provides **realtime** results and specializes on each particular application

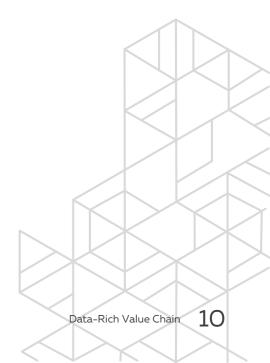
#### LAYER 3: ADVANCED VISUALIZATION (INDUSTRY-RELATED)



Intuitive presentation of data and highly adaptive front-end integrative mechanisms

## So, here's why it is important...





## The **right technology** gives access to supply chain benefits

The digital optimization of an organization's supply chain is likely to be **successful / very successful** in improving up to:

**COSTS** 

NO FRAUD / CLEARING

NO INTERMEDIARIES DEMAND-BASED SUPPLY 35%

REDUCTION

RISK

GUARANTEE OF ORIGIN QUALITY CONTROL SAFE PARTS USED **2X** 

**REDUCTION** 

**REVENUE** 

DGT Network Inc.

CUSTOMER STORY QUALITY HISTORY ETHICAL BRAND 12%

**INCREASE** 

## DGT makes achieving results more likely through featuring these 8 important advantages:





Highly Integrative. Continuously Adaptive. Over all legacy and innovative systems.





**Industry-Focused. Customer-Fitted.** Maintaining performance advantages.





**FDGF** 

Deep Data Analytics. Data Quality & Sourcing.

Remaining horizontally and vertically scalable.

DAG **LEDGER** 





F-BFT ALGORITHM

NODE **ANCHORING** 

**Unparalleled Security. Corporate Privacy.** 

Analytics being able to take in full data.

# Some companies see digital as an



# while industry leaders have renewed their value chains digitally:



## How does Shell control for quality?

### CASE 1











1. UPSTREAM PRODUCTION

- Industrial IIOT
- Quality control
- Certification of origin
- Downstream analytics
- Cross-data formats and standards

## 2. MIDSTREAM LOGISTICS AND PRODUCT

- Quality banks
- Subcontractor immutable reputation
- Quality certifications by IOT
- Cross-TMS integration
- · Optimized supply chain

3. DOWNSTREAM DISTRIBUTION

- New augmented products
- · Products tailored to market

QUALITY GUARANTEE AND 37%

ESTIMATED COST REDUCTION ACROSS THE SUPPLY CHAIN

- Origin and quality verified at POS
- Final price reductions
- New offers and products



4. THE FINAL CONSUMER

## How does WWF track every single fish?

CASE 2





2. TRAVELLING ALONG THE

**OPTIMIZED SUPPLY CHAIN** 



3. RECEIVING INFORMATION

- 1. REGISTERING THE CATCH
- Certified Catch (quality, conditions)
- Digital twin (ID)

- Twin traced & tracked
- Deep analytics (any source / format of data)

- All participants see history / demand / use of each product
- Real-time data informs decisions

FULL TRACEABILITY AND 25%

PROFIT INCREASE FROM LOWERED COSTS & NEW DEMAND

• Powerful brand story:

Consumer sees smiling face of fisherman, who caught the exact fish in a given part of the world just four days ago.

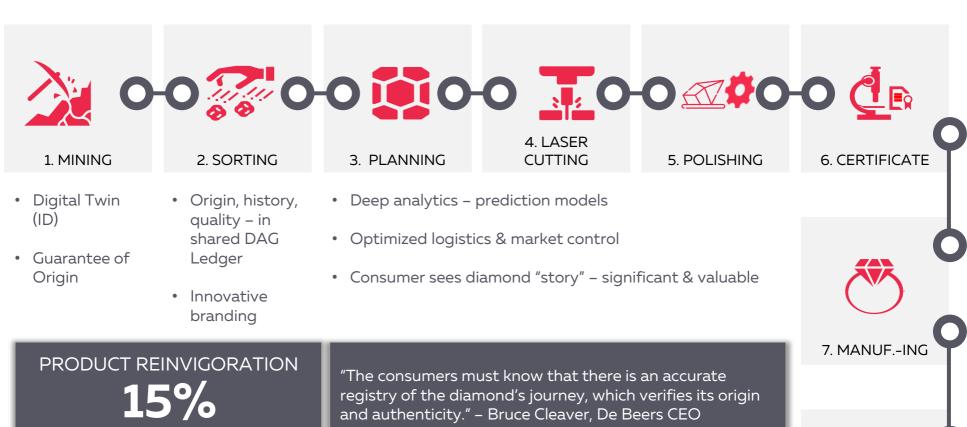


4. THE FINAL CONSUMER

DGT Network Inc. Data-Rich Value Chain 15

## How did De Beers invigorate diamond revenue?





**REVENUE INCREASE IN THE** QUARTER AFTER IMPLEMENTATION

- Combatting rampant fraud
- Competing against artificial diamonds (no story)
- Provide mid-segment financial stability



8. STORE

## Why did Wal-Mart innovate its supply chain?

CASE 4







- 2. PROCESSING
- Digital Twin (ID)
- Source of Origin
- Demand informs supply
- Automatic clearing

- Twin tracked
- No: tampering, misrepresentation, substitution
- Automatic clearing
- Item tracked throughout journey
  - No compromise, contamination, spoilage
  - Premium items guaranteed origin
  - Automatic clearing

3. DISTRIBUTING

- IOT tracking in real-time: location, temperature, humidity
- Smart optimization



4. RETAILING

PROVENANCE AND

43 %

REDUCTION IN COSTS AND UNEXPECTED EXPENSES

DGT Network Inc.

Data-Rich Value Chain

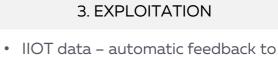
## How does Boeing ensure quality of spare parts? CASE 5





- Source of Origin
- Demand informs supply
- Automatic clearing

- Optimized global logistics
- Digital twins tracked & traced
- Fraud elimination
- QUALITY, SAFETY, AND REDUCTION IN DOWNTIME DUE TO **PART FAILURE**
- Replacement: just-in-time through **IIOT** alert
- · No downtime on factories and no bad-quality parts



• Deep analytics of use and quality



4. REPLACEMENT

### How does WHO eliminate fraud?

### CASE 6



- Uniform safety standards
- Intellectual Property (IP) management
- International Data Sharing (trials, research)

FULL TRACEABILITY AND

64 %

REDUCTION IN FRAUDULENT DRUG SALES IN TEST MARKETS



- 2. MANUFACTURING
- Origin of compounds used
- Digital Twin (ID)
- In-built quality IIOT and lowered contamination / fraud risk
  - Counterfeit goods eliminated full journey verified
  - Insurance business sharing of data
  - Data feedback to manufacturer



- 3. LOGISTICS
- Tracked sourcing (digital twins)
- Optimal logistics



4. CONSUMER

In order to succeed in establishing a **smart supply chain**, drastically reduce costs and risks, and improve revenues, a business needs the **right technology**.

There are two ways to work with us. Will your business take **the next** step?







### CONTACT

## We are always available

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Website



GitHub







We'll demonstrate, implement, and support!