



Transmute

DIGITIZING CROSS-BORDER TRADE

Steel Traceability: Combatting Excess Capacity Challenges

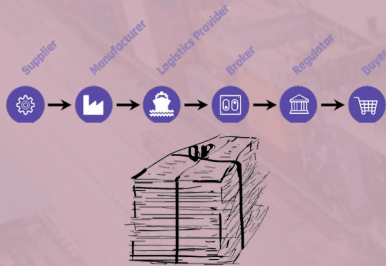


GLOBAL FORUM ON STEEL EXCESS CAPACITY @ OECD - MARCH 2024

Evolution of Global Trade

YESTERDAY

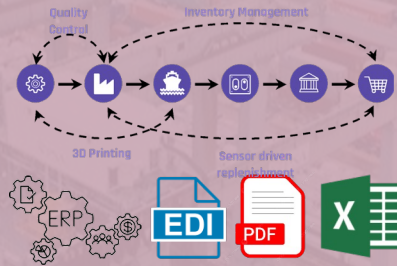
Localized Supply Nodes



PAPER

TODAY

Connected Linear Supply Chains



DISPARATE
TECHNOLOGIES

TOMORROW

Digital Supply Networks



TRANSMUTE

VERIFIABLE CREDENTIALS
digital twins + product passports

"Currently, fewer than 1% of trade documents are fully digitized." *-World Trade Organization*

Paperless trade can add \$75B+ trade volume for the US market alone. *- Mckinsey Research*

Democracies value *privacy* and *competitiveness*.

Transmute protects these + positively impacts all 3 dimensions:



FACILITATION: cargo flows across borders - **expediently**

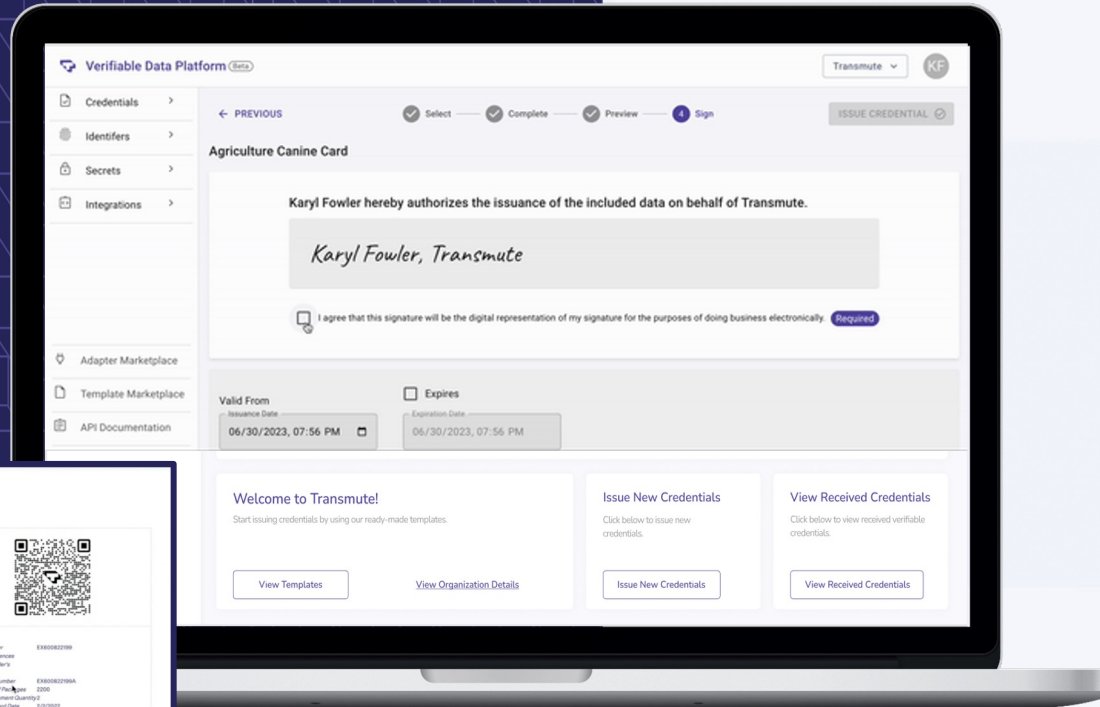


ENFORCEMENT: stopping bad actors and violative goods - **precisely**



REVENUE: collecting customs duties, tariffs and taxes - **accurately**

Verifiable Data Platform



Accelerating cross border trade



Tamper proof connection between analog (e.g., PDF) and digital twins (e.g., Verifiable Credentials)



Compliance ready for global trade modernization initiatives (USA, USMCA, EU, UK, etc.)

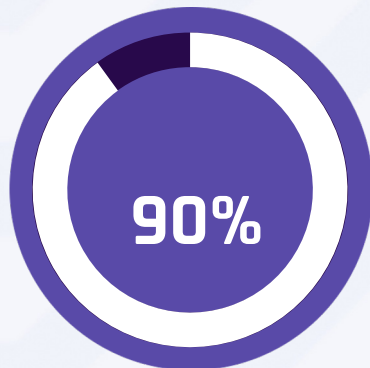


Designed to **reduce administrative overhead** and increase throughput

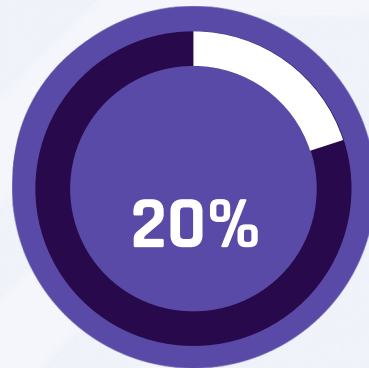


Auditable commitment to **ethical business practices** and sustainability.

Upgrading the Enterprise



**Data admin
cost reduction**



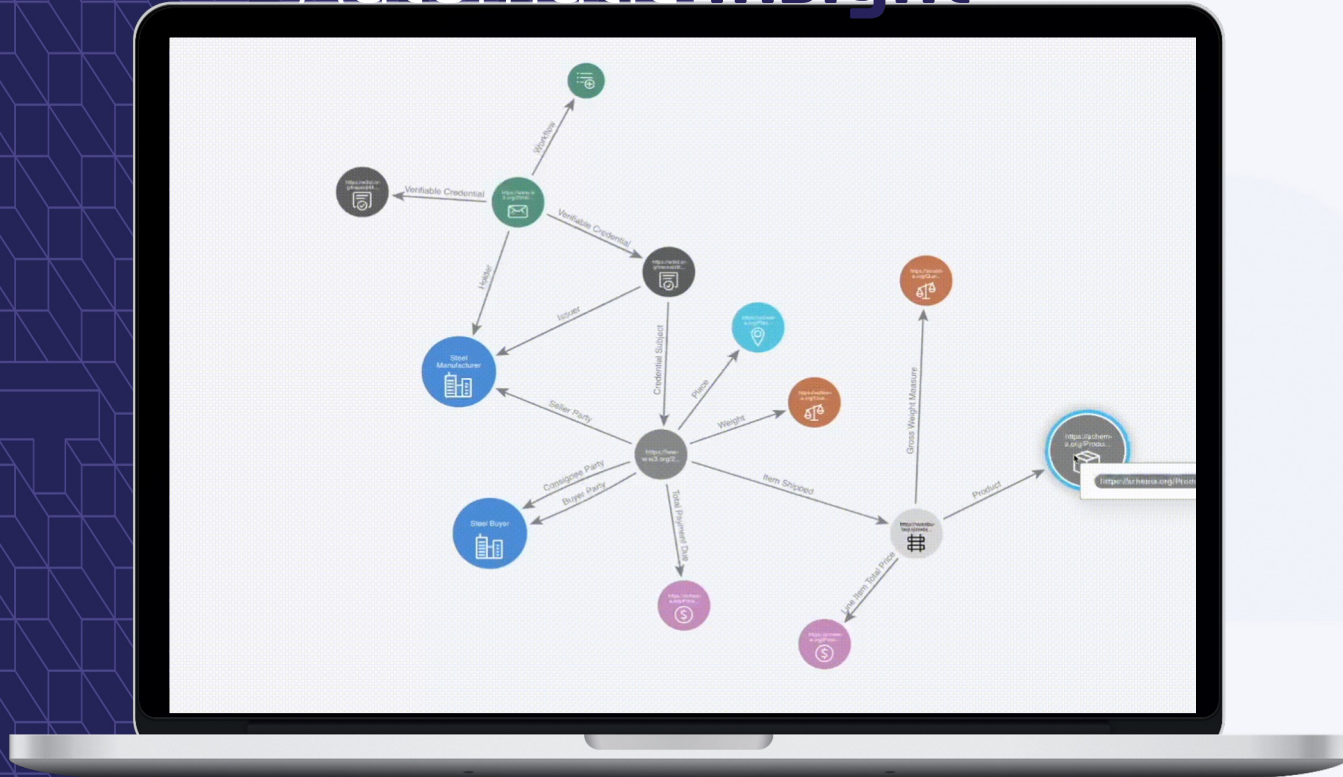
**More revenue
unlocked**



**Supply chain
data unified**

Digital Verifiable Credentials cut costs + automate compliance.

Automatic Insight



Verifiable Data Platform

Transforming supply chains and cross border trade

01 Full digitization and reduction in administrative costs



02 End to End Supply Chain Traceability



03 Operationalizing Digital Product Passport (DPP)



04 Enhanced visibility for sustainability & resilience



Key Applications



Transmuting US Raw Material Import Processing with US Customs and Border Protection (CBP)



Enhanced enforcement **precision** and targeting



100% Reduction in data discovery time



Millions in annual savings *\$150K/document*



Rapid, **pre-arrival** importer facilitation

"This is the 1st time in history we have the tech to positively impact both trade facilitation and enforcement at once."

- Vinny Annunziato, Director of US CBP Business Transformation & Innovation Division



Demonstrating interoperability and business benefits for Steel and eCommerce use cases


STEEL



Direct Shipment from Mexico to USA via Road

- Tech demo completed with 6 major steel companies, 5 customs brokers and 20+ observers

 Completed - Sept 2023

 Positive reception from participants and observers

eCOMMERCE



Safe import of pesticides

- EPA participation confirmed
- Commitment to participate from major customs brokers, logistics providers & online marketplaces

 Scheduled - Q4 2024

eCOMMERCE



Legitimate import of apparels

- Counterfeit Prevention: working with Brands to demonstrate how technology can support legitimate products to enter US borders

 Scheduled - Q4 2024

Transmuting Supply Chain Data Globally

GRUPO **PRODENSA**



 Microsoft

 CANACERO

outokumpu 

 Tenaris

US DEPT OF HOMELAND SECURITY



 baseline

Mobility **X**



ArcelorMittal

 DEACERO

 GERDAU

 Ternium

 W3C

 DIF

 UNECE

 I E T F

 OpenSSF

 CONFIDENTIAL COMPUTING
CONSORTIUM

 THE
LINUX
FOUNDATION

IN MARKET POWERING:

DIGITAL
MANUFACTURING

MILL PRODUCTS

AUTO + AEROSPACE

DEVICE + OEM

TEXTILES + APPAREL

E-COMMERCE



TRANSMUTE



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