



**Asia-Pacific
Economic Cooperation**

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Session 2.1

The Quest for an Industrial Internet for Supply Chains

Submitted by: Mavennet



**APEC Digital Trade Policy Dialogue
6 April 2022**

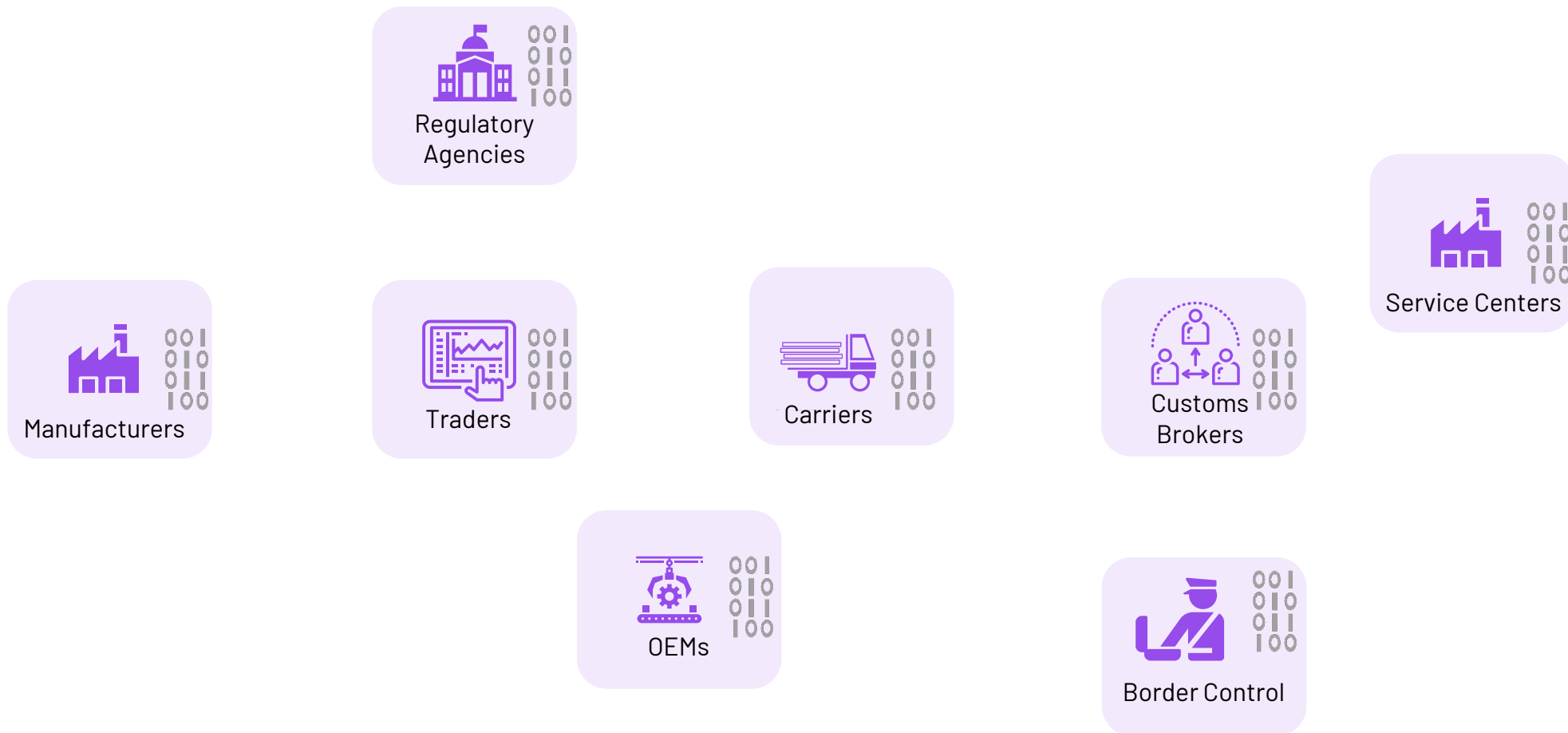


The Quest for an Industrial Internet for Supply Chains

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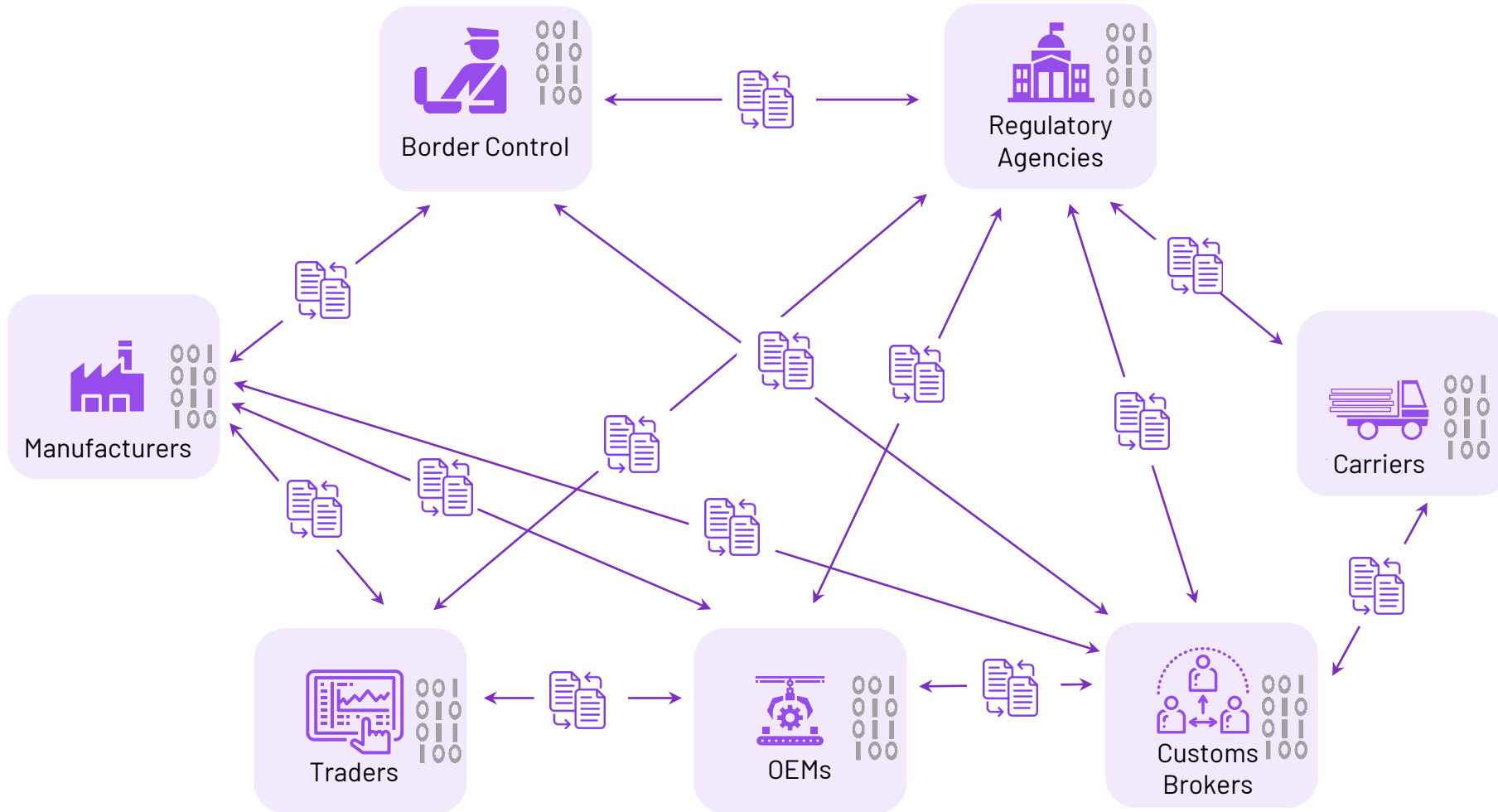
INTRODUCTION | DIGITAL ISLANDS

Many organizations have gone through large digital transformations, however we are still facing challenges at industry level, because we still live on digital islands



INTRODUCTION | INFORMATION EXCHANGE

Information is shared in paper form, pdfs or excel files without any guarantee of veracity, error-proof or validation. Once information has changed hands several times is hard to proof integrity and origination



Firms exchange the most information in close-to-paper format resulting in:



- Fat finger effect
- Delays
- Reconciliation gaps
- Expensive and lengthy audits
- Manual processes

KEY DRIVERS

Steel products are a candidate for the application of new technologies such as AI-based systems & Blockchain, with the aim of improving end to end traceability and visibility

- The world depends on global trade. How do we make it more secure, efficient and fair?
- GHG levels are a growing concern. CO2 remains in the atmosphere for 100 years. A low carbon economy is unavoidable.



Asset Origin Verification

Proving product origin, specification and composition is fundamental



Data driven regulation

Quality of data and lack of real-time data of steel products reduces economies' ability to effectively regulate the industry and ensure a fair competitive environment



Reliance on paper-based documents

The paper-based mill certificate is only as trustworthy as the organization presenting it

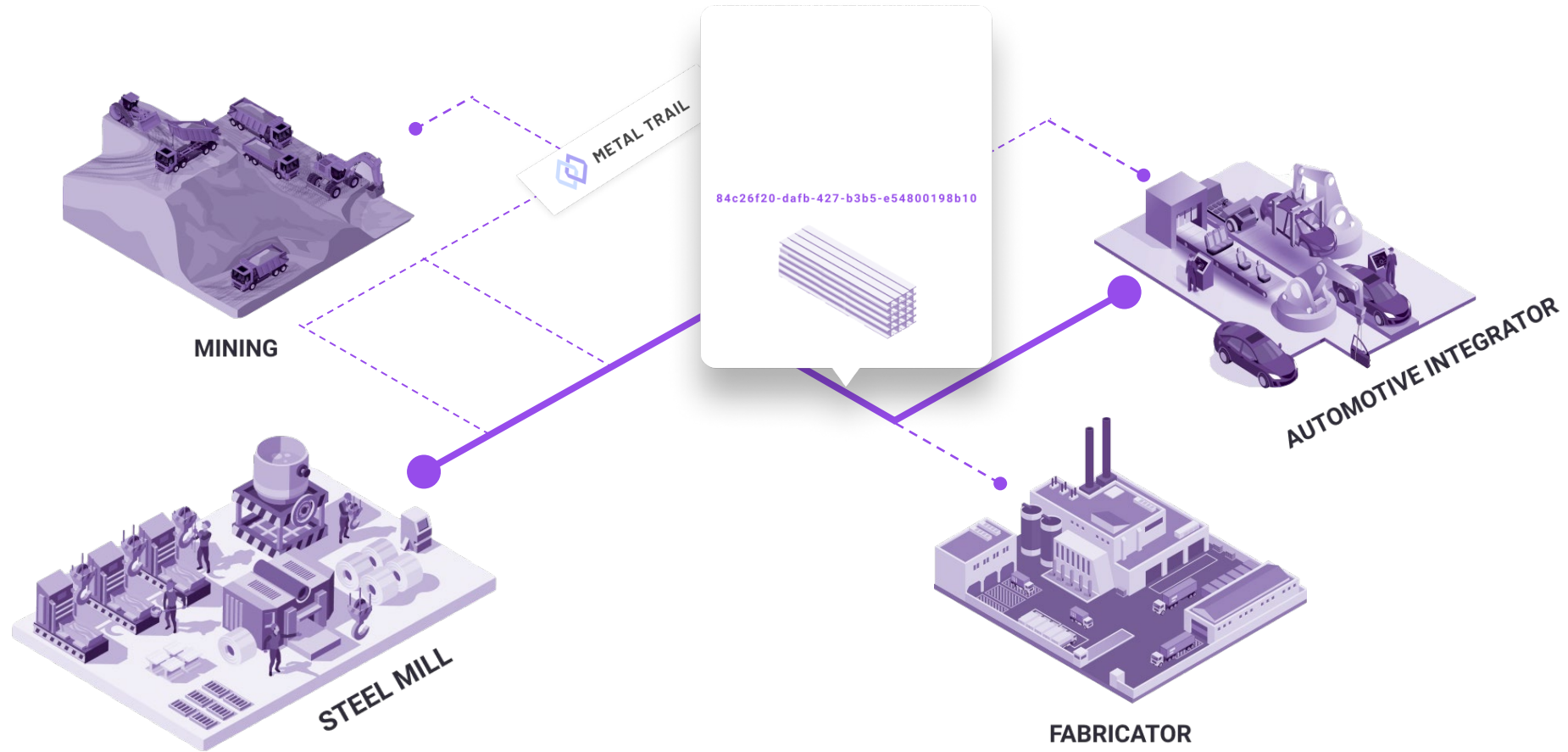


Global Carbon footprint data

There is no comprehensive method for tracking a product's carbon footprint, putting low-carbon producers at a significant disadvantage. In turn, this is important to highlight the circular nature of steel with respect to other products as well as achieve product differentiation.

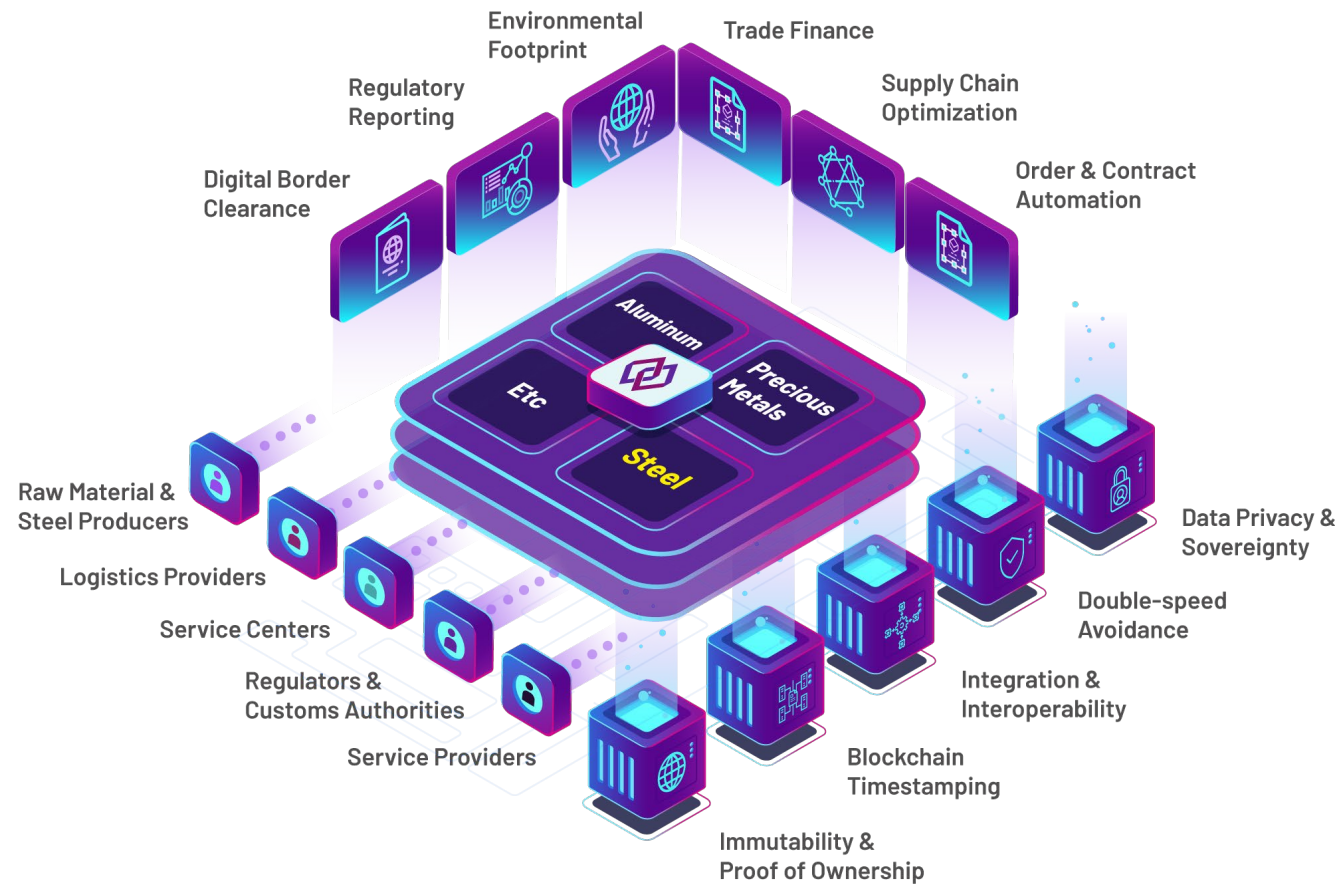
A STEEL-CENTRIC SUPPLY CHAIN

A window to the life of a steel asset



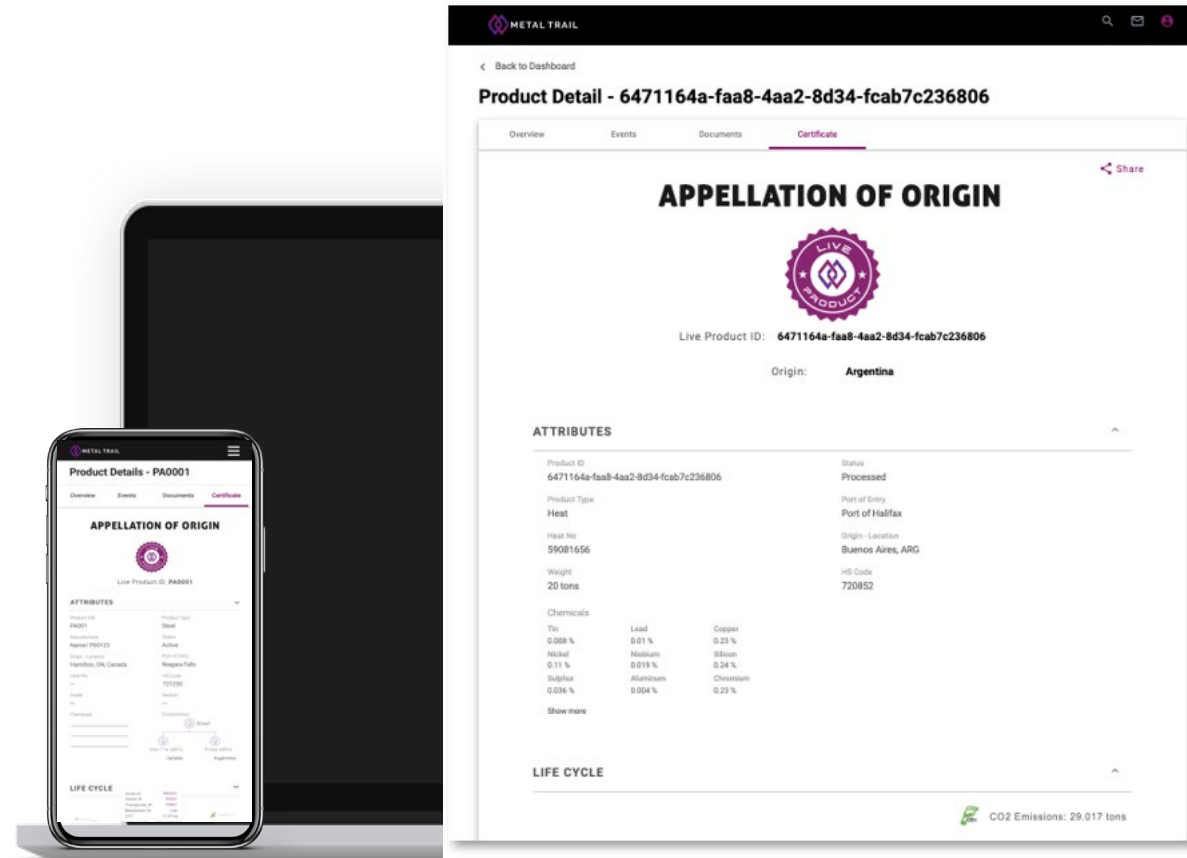
FUTURE APPLICATIONS

Trade Finance & Supply chain automation, etc.



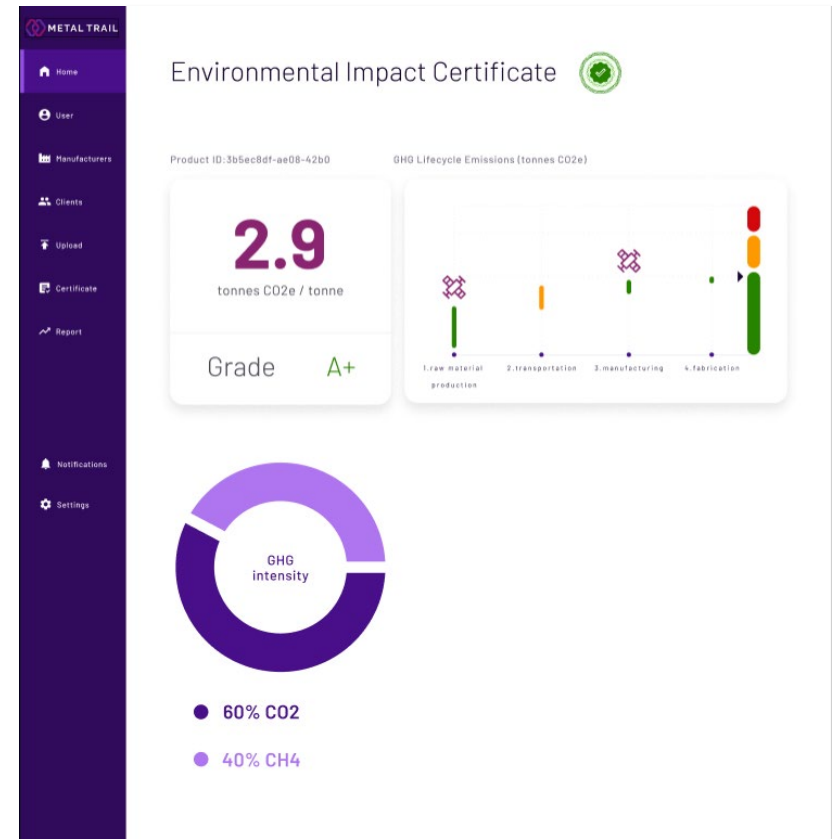
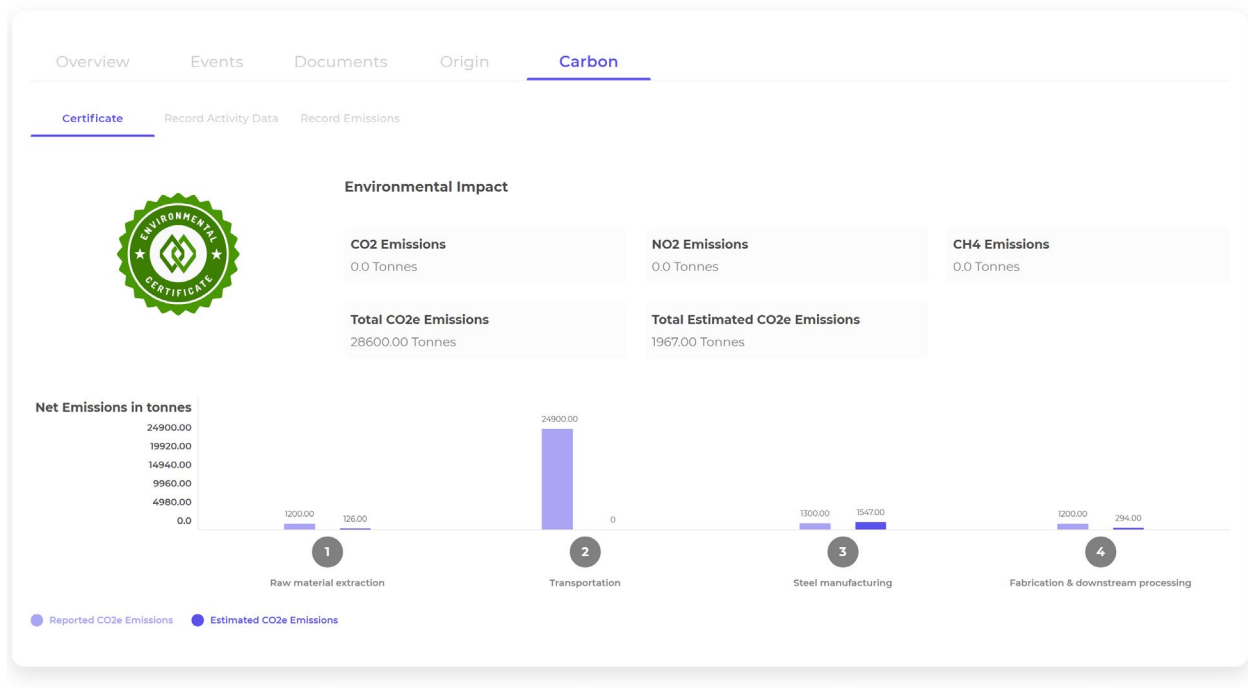
EXAMPLE 1

Digital Border Clearance (Nexus for products)



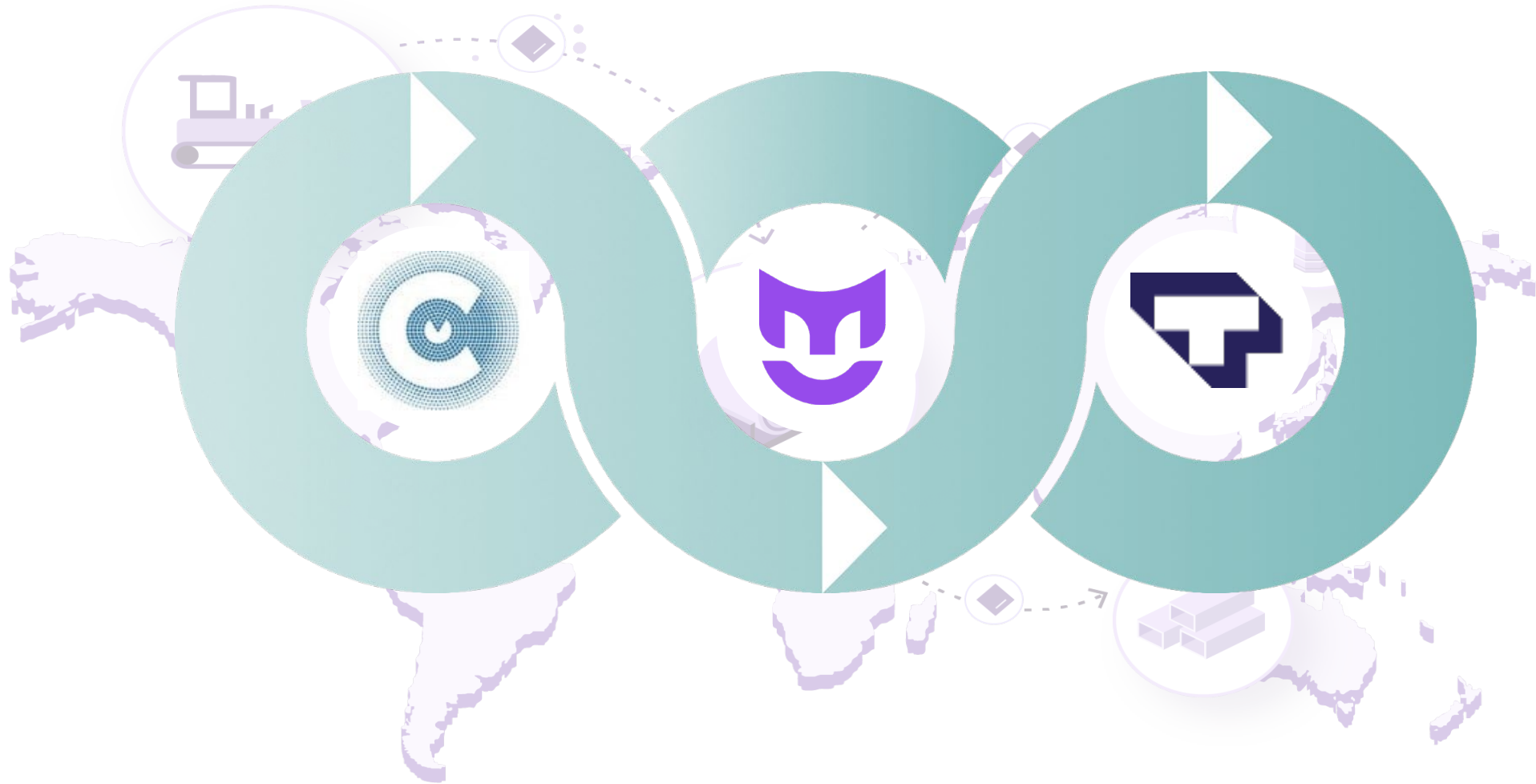
EXAMPLE 2

Green House Gas Emissions Tracking



THE IMPORTANCE OF STANDARDIZATION

The only way to truly digitize and secure the steel industry at scale





Mavennet. Digital. Trusted.
We're bringing commodities
to life.

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