



TRACKING STEEL USING BLOCKCHAIN

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OVERVIEW

The Issue

Digitally tracing steel by country of origin has not been done for a supply chain

Tools for trade and border activity are not optimizing



Blockchain

or



Artificial Intelligence

Steel products and inputs are not comprehensively traced making it a challenge to know the quality and source of the steel

Objectives

Be able to **say with assurance** that a product uses Canadian or Foreign steel

Facilitate trade with other nations who are part of the tracing system

Monitor imports and exports accurately and in real-time

Facilitate enforcement and compliance

Increase efficiency of steel producers

Be able to **track foreign steel** in the supply chain

WHAT IS BLOCKCHAIN



Blockchain is a public or private digital ledger distributed across a network of computers, which doesn't require a central authority to maintain trust



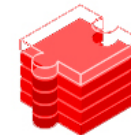
Digitally tracking and authenticating inputs across entire production process



Visibility of activities and reveals where assets / products are at any point in time, who owns it and what condition or state it is in

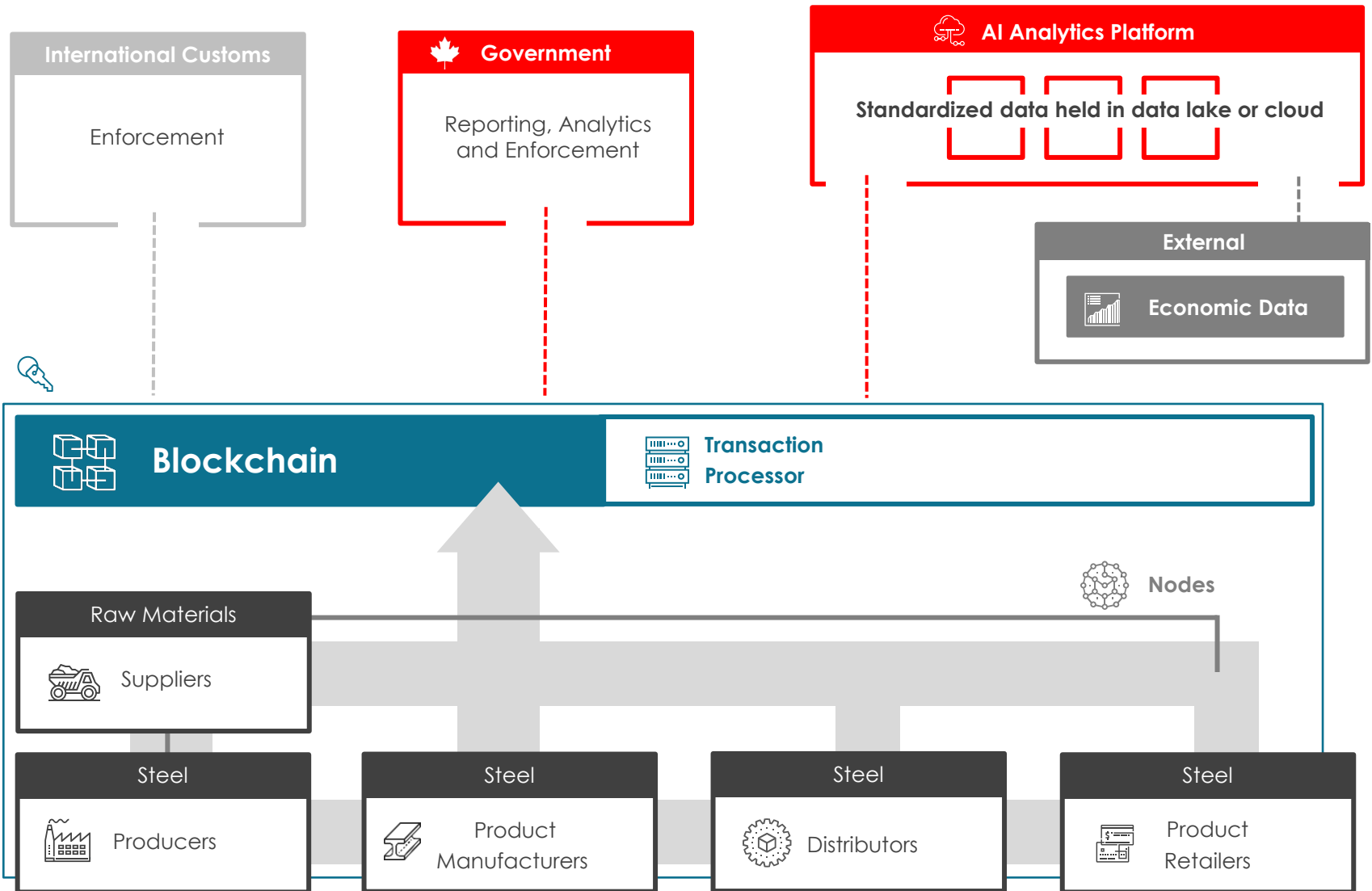


Users from anywhere can add to the chain



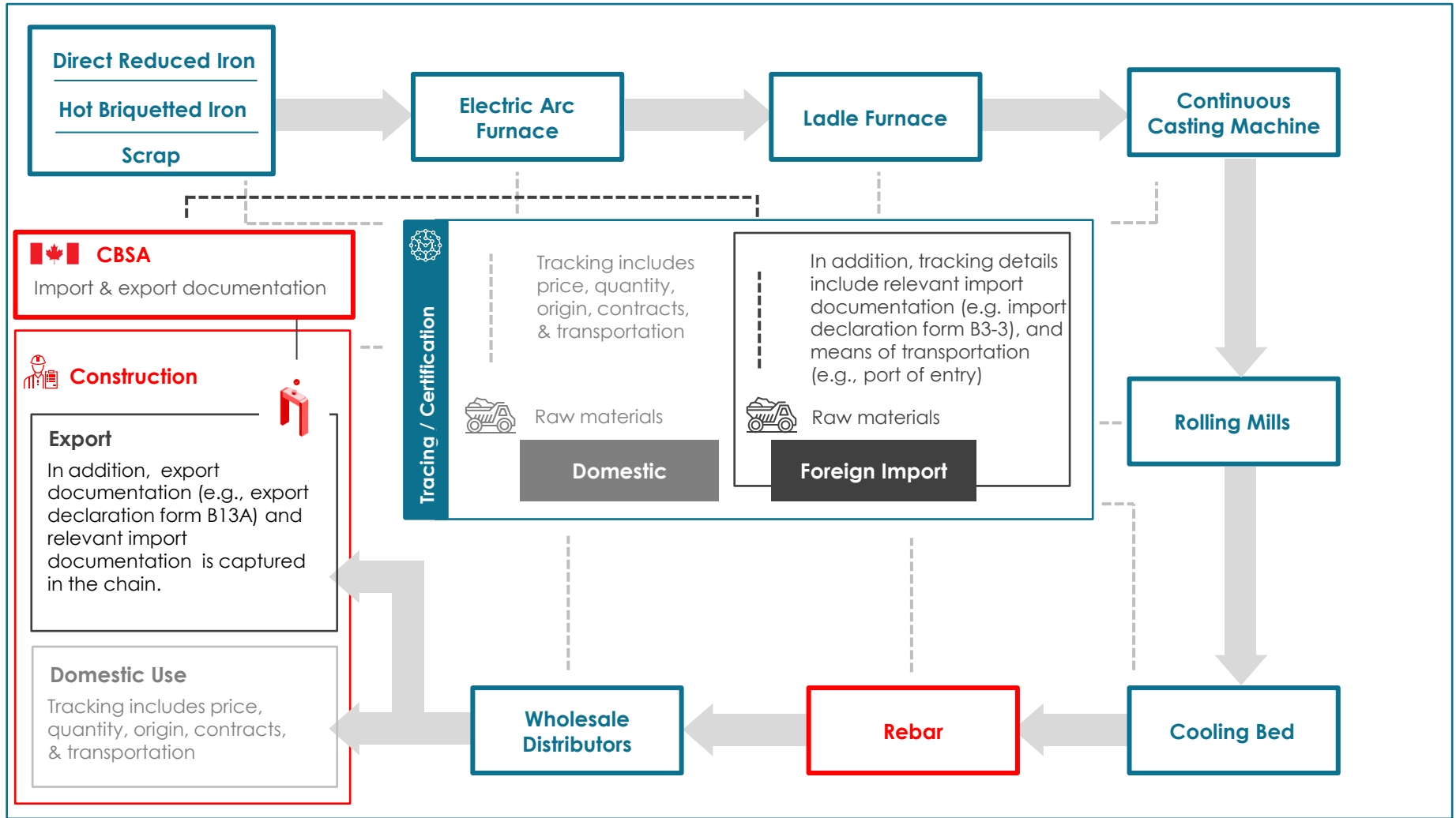
Helps firms record price, date, location, quality, contracts and other relevant information

HOW IT WILL WORK





TRUE NORTH REBAR COMPANY – SUPPLY CHAIN USECASE



AI Platform



Predictive insights for:

supply, demand, inputs, X&M data, pricing data, and other economic data



TRACING THE STEEL SUPPLY CHAIN CHALLENGE

Through Innovative Solutions Canada, the Government's innovative procurement program, industry was challenged to develop:

A digital platform that would trace inputs and outputs in real time in the steel supply chain — up stream and down stream — using blockchain technology, and apply artificial intelligence enabled data analytics on this information, to better capture activities across the steel supply chain

Challenge Opened on December 6, 2019

Challenge Closed as of February 15, 2019

TIMELINE

Phase 1

Proof of concept



Up to 6 months

Phase 2

Prototype development



Up to 2 years

Phase 3

Commercialization

