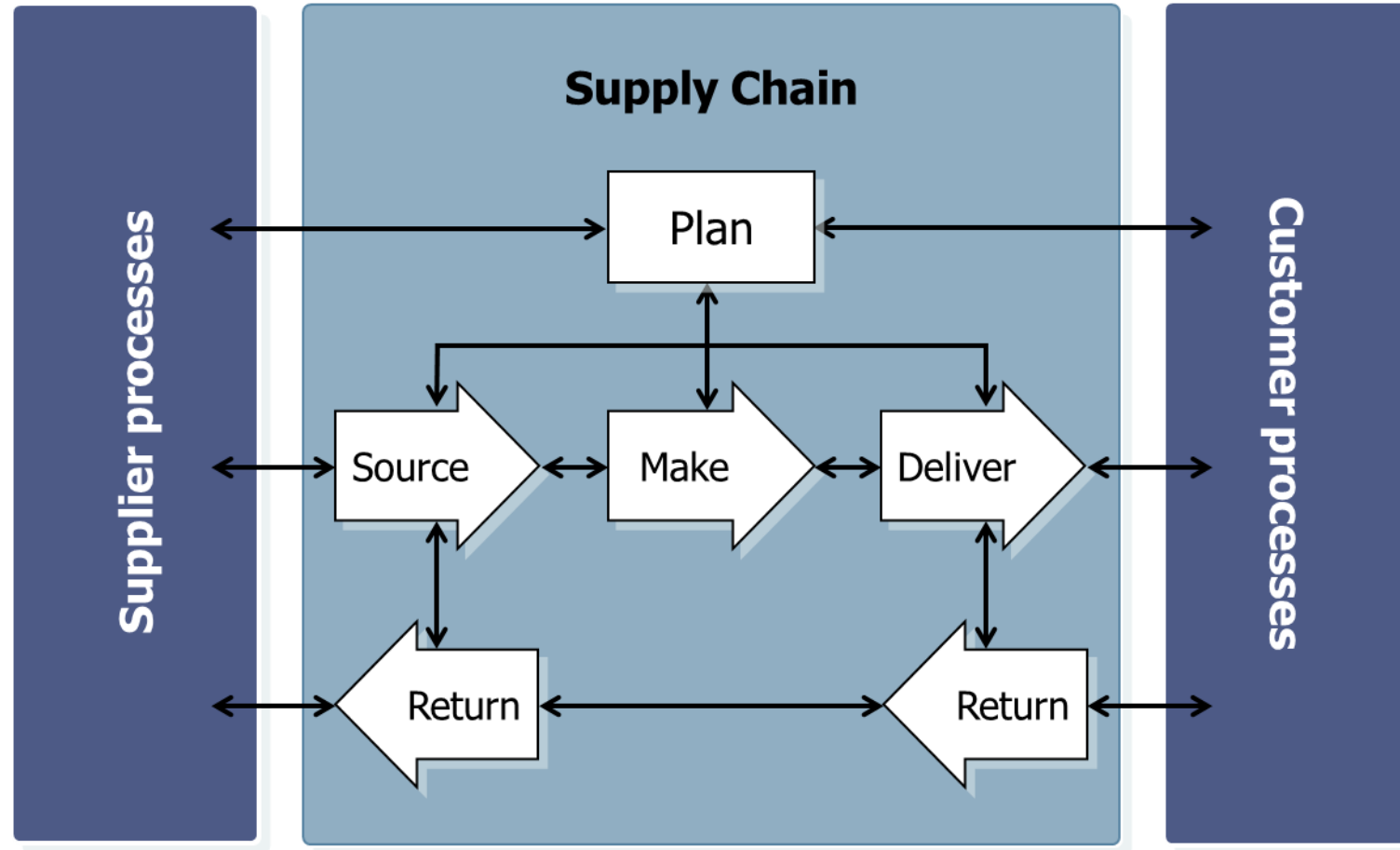# Block-chain in the Supply Chain Use cases

April| 2018

# Supply Chain Operations

# Blockchain in the Supply Chain: Applications

©2018 Aite Group LLC.
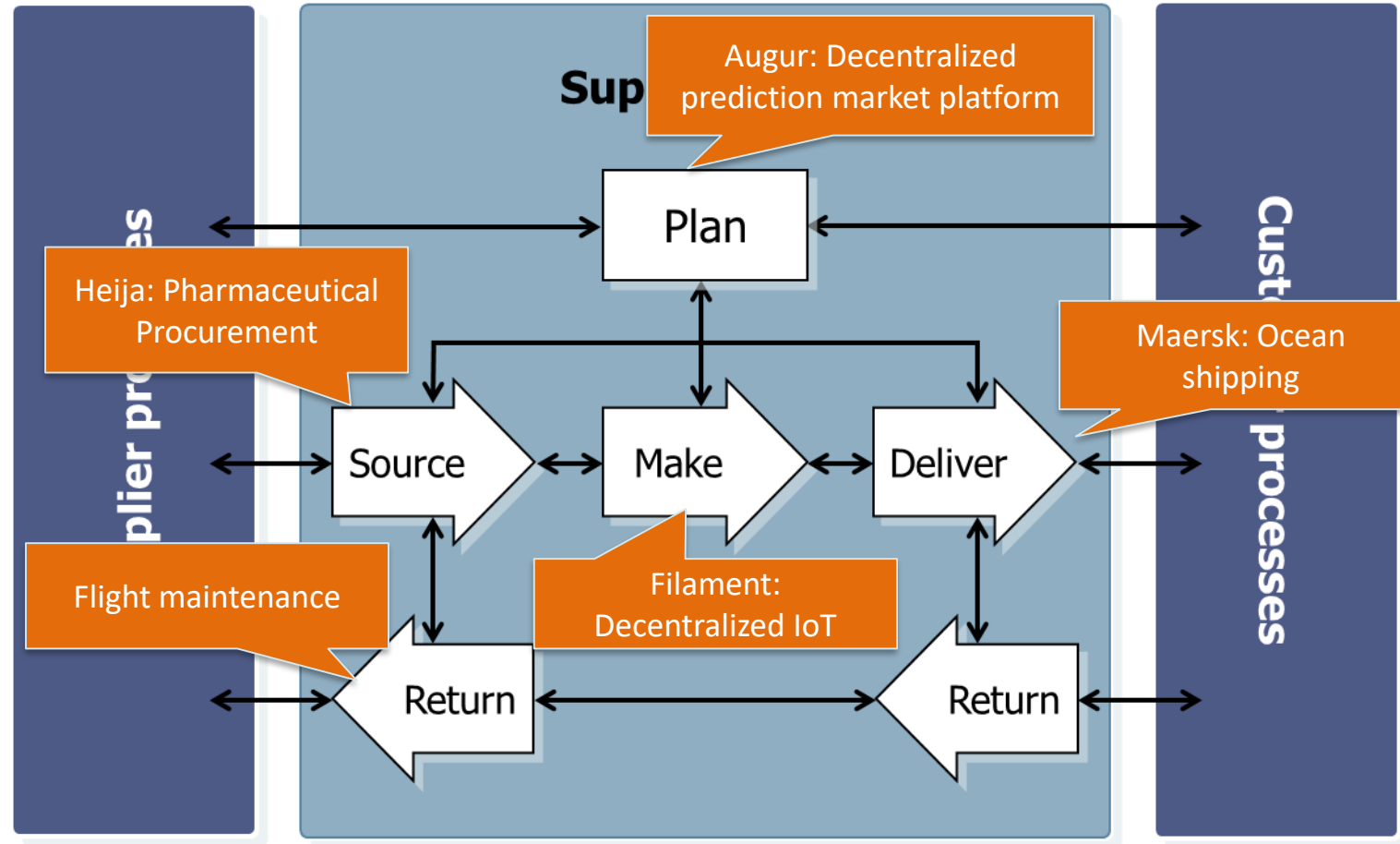
# Blockchain in the Supply Chain: Use Cases
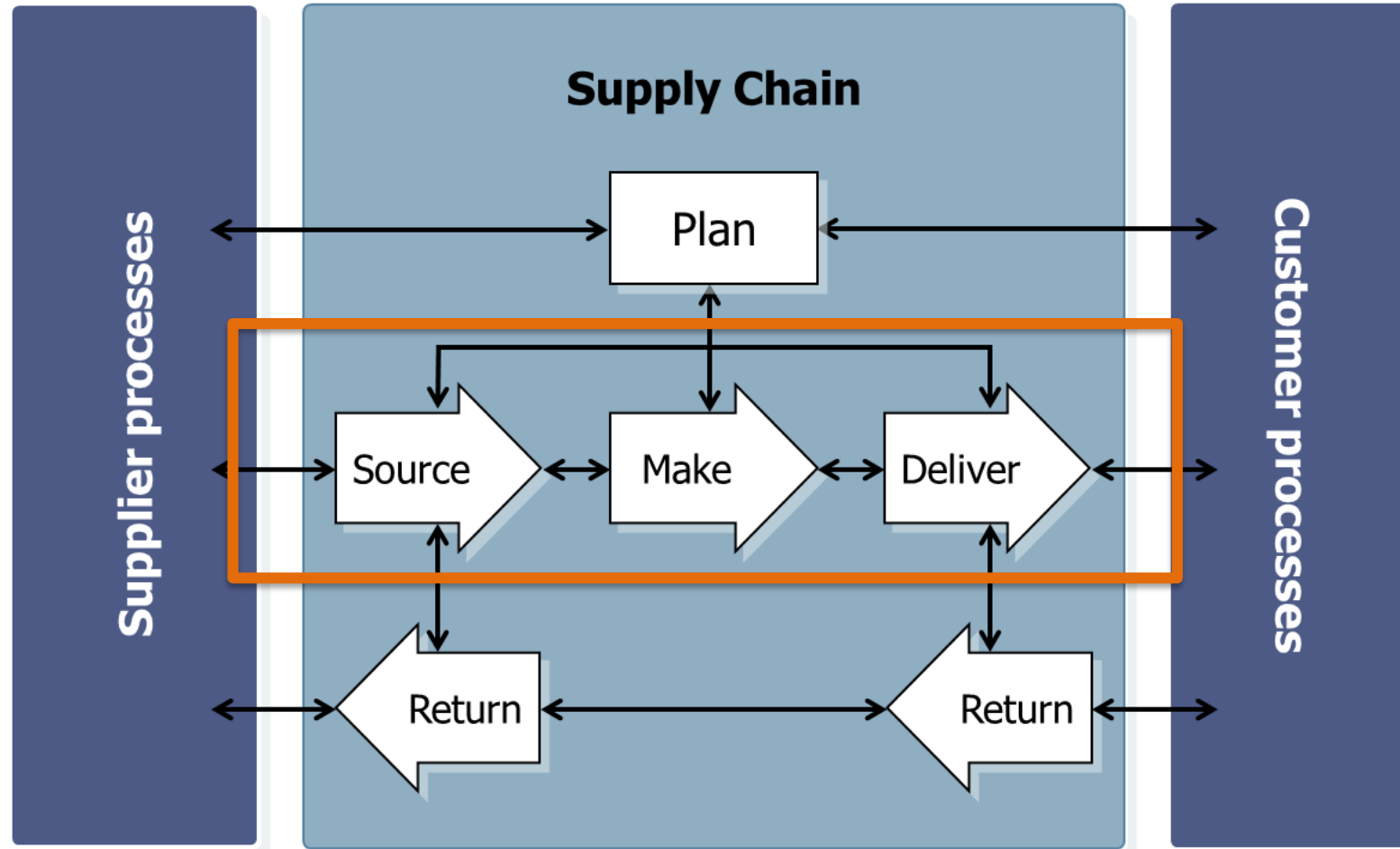
# The Blockchain: Short Recap

**Block N**

| Da | A | Unità |
|----|----|-------|
| Alice | Bob | 100 |
| Da | A | Unità |
| Bob | Elaine | 85 |
| Da | A | Unità |
| Charlie | Elaine | 30 |

A block can contain various kinds of transactions...

Payments (bitcoins)

Purchase Orders

Invoices

**Shipping documents**

Vendor contracts

**Certificates of quality/ inspection**

Any digital asset

The content in the block is...

**Immutable**

Time-stamped

**Traceable**

Decentralized/ Distributed

Encrypted
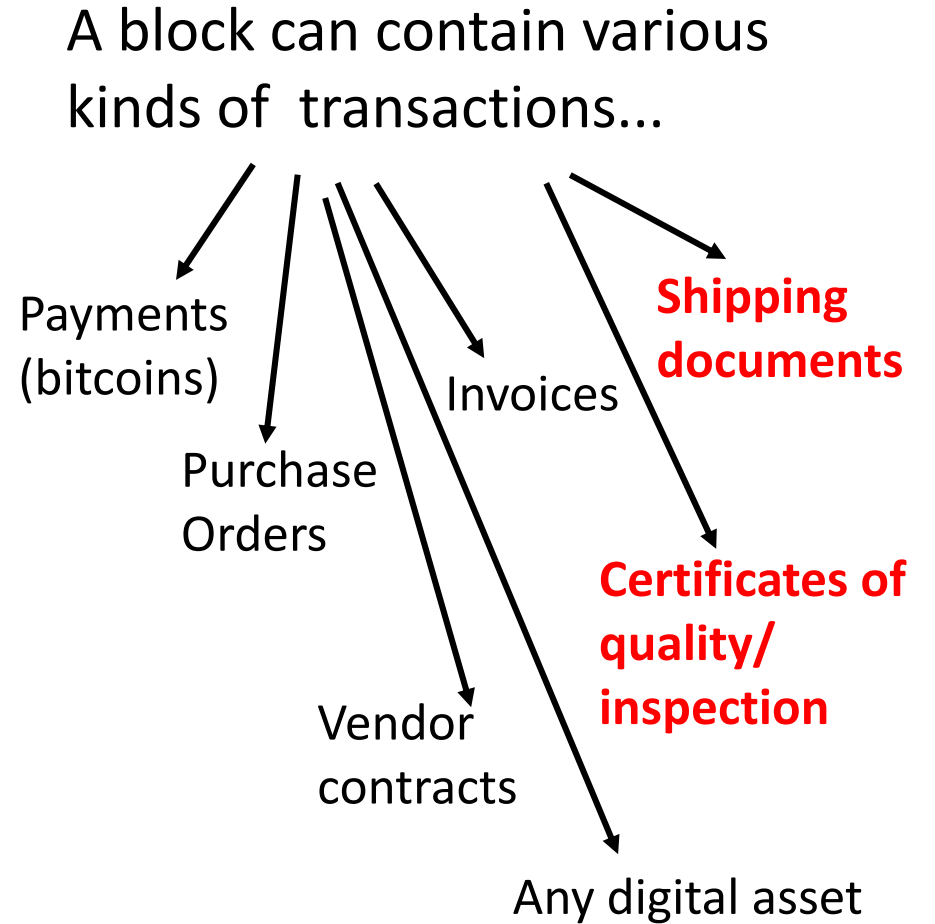
*Community NdT: the place of companies for companies*

# Use Case: Food Processor- Quality Declaration

# Use Case: Logistics company- Proof of Load

Exporter

Logistics

Importer

Goods       Shipping
            Documents
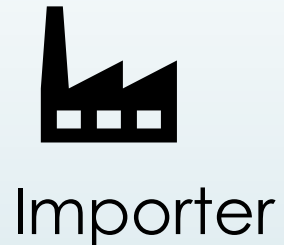
# Purchase Order is Written in Blockchain

# A Picture of the Load is Stored in Blockchain

# Logistics Provider Takes Charge of the Load on Blockchain

# At Receipt, Importer Checks that Load Corresponds to What Declared

# By Comparing Pictures of the Load Taken at Receipt With Picture of Load Taken at Departure
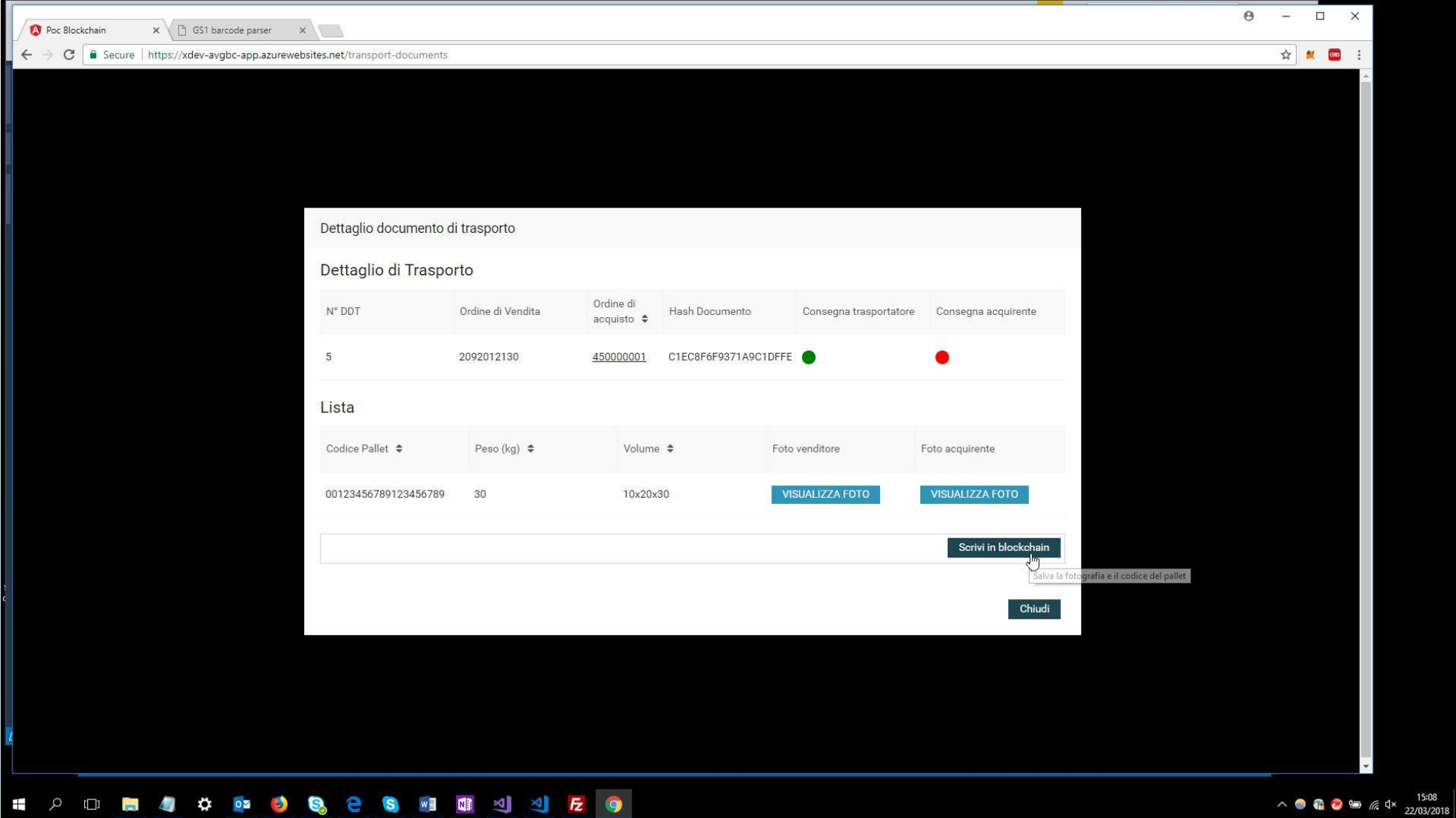
# If Pictures Match, Load is Accepted

# Final Remarks

- Start internal education and create awareness.

- Don't jump on the first blockchain bandwagon.

- Prepare list of questions that need to be answered before you even consider running a blockchain POC.