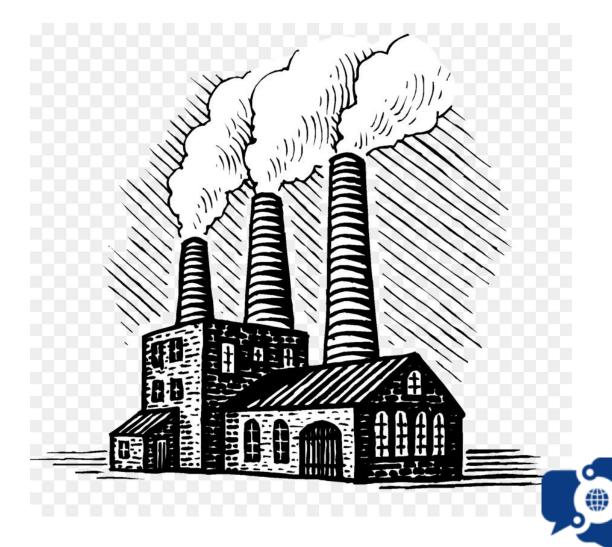
Blockchain and IoT

A simple proof-of-concept



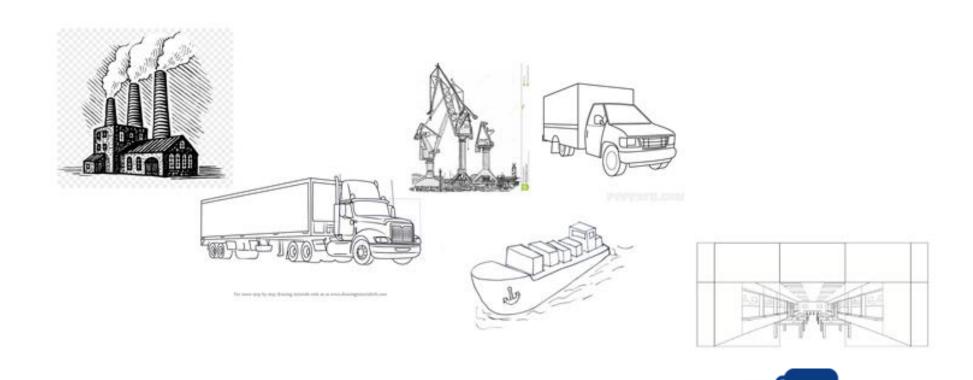
There's a factory on the other side of the world...



...they make the electronics items you desire most.



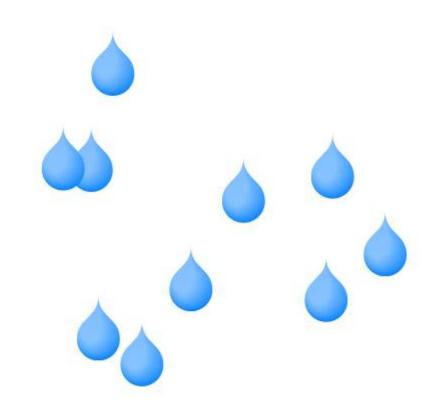
A lot of participants have to work together to get those items from the factory to you.



If items get damaged along the way, everyone looses.



Abnormal temperatures, humidity, and excessive shock forces can damage items before they can be sold.



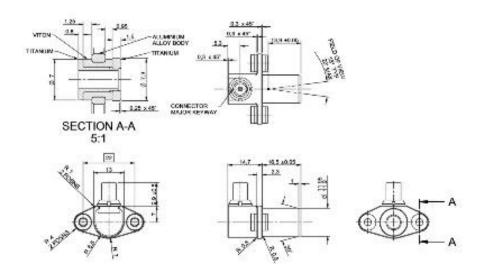




This costs money, and results in unhappy customers.



Smart devices are cheap, powerful, and abundant. Let's track critical metrics about our shipment.





There's just one problem, who *owns* the solution?



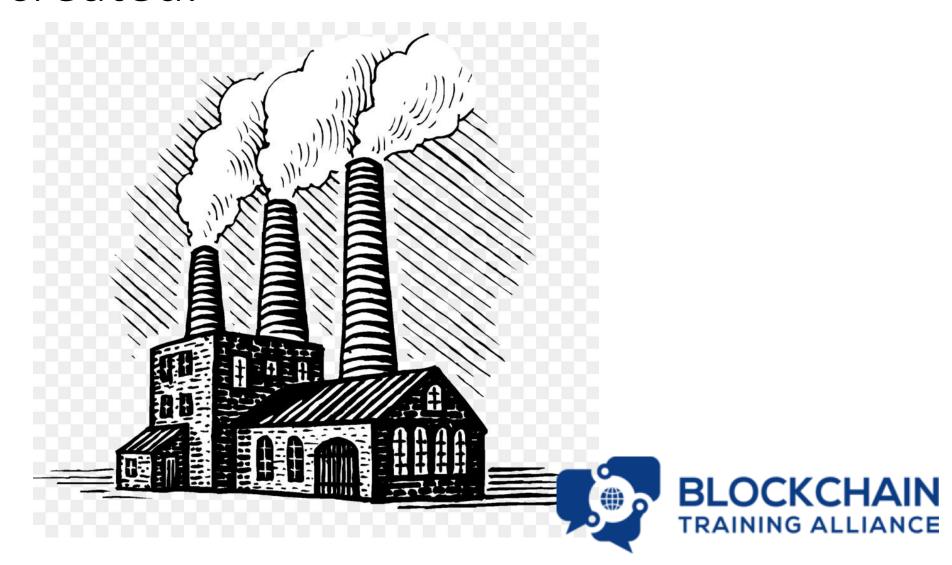


Let's look at the journey these items take...



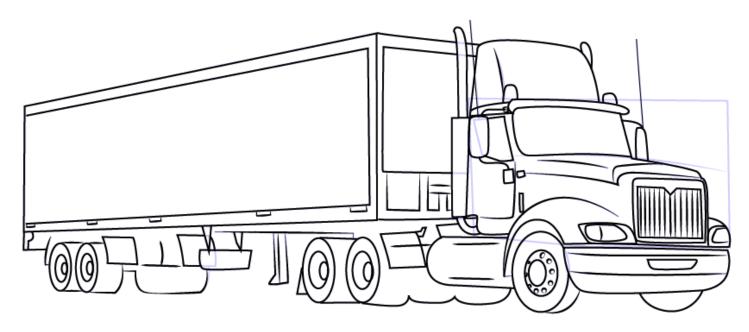


The process begins at the factory, where new items are created.



These items are then loaded into containers and transported by truck or rail.

Step 13

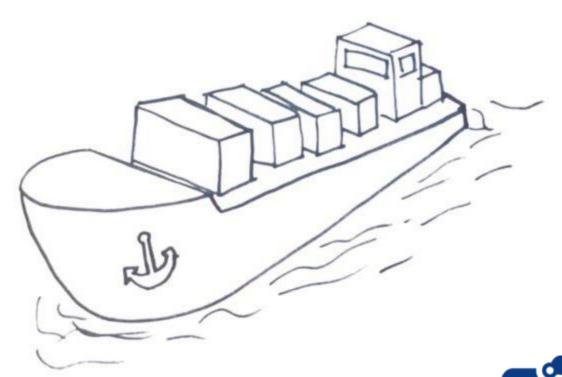


At the port of exit these containers are inspected and loaded onto ships.



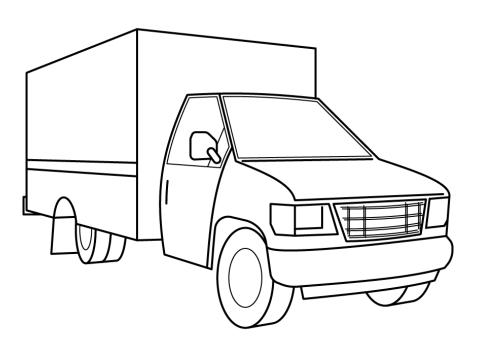


Container ships deliver items to ports of entry across the world.



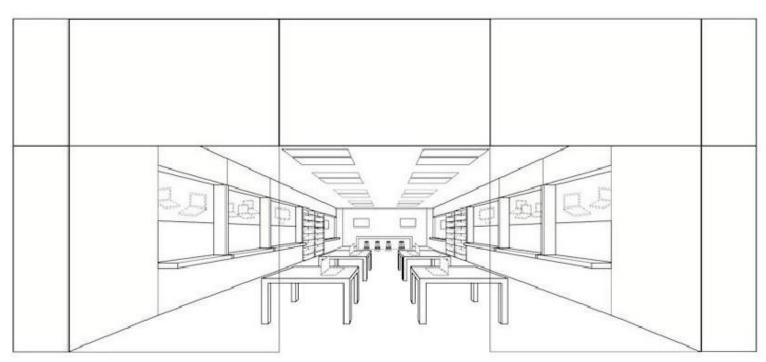


At the local port of entry items are inspected and cleared for delivery to the local market.





Ultimately they are delivered to retail locations for purchase by end-consumers.



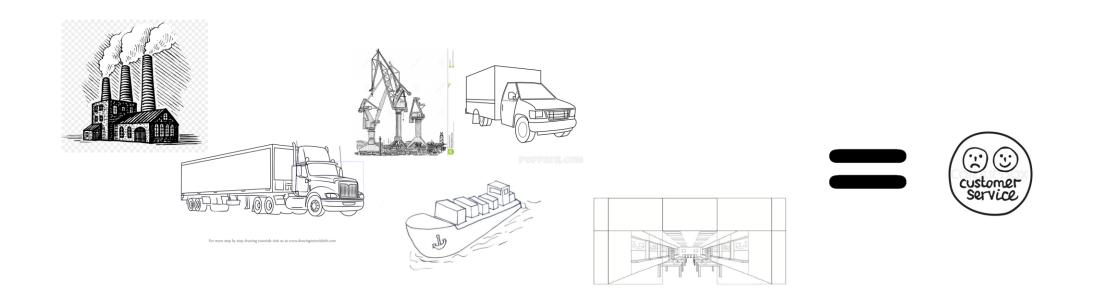


If this process works well customers are happy.



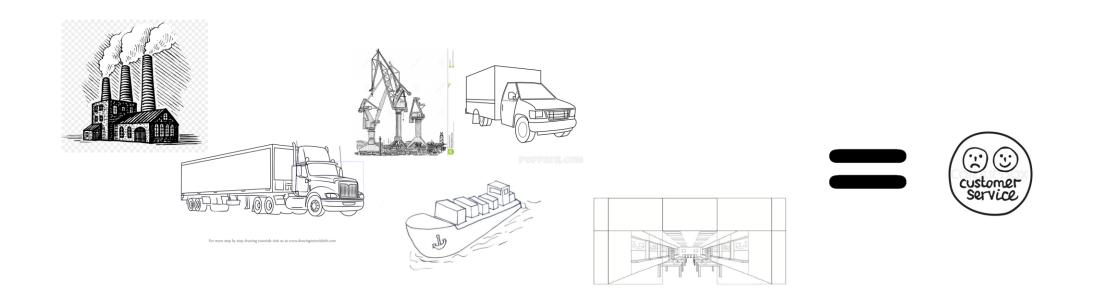


Many participants have to work together to achieve the desired outcome. They all succeed or fail together.





There is no *single* process owner. Having a solution which is owned by a *single* participants doesn't make sense.





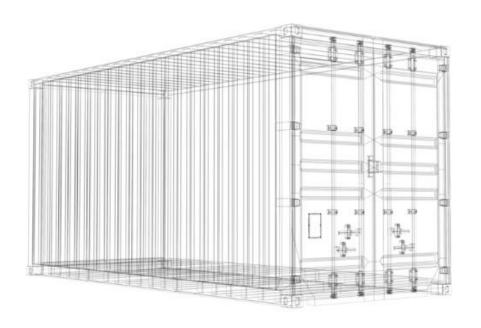
Blockchain enables this.



HYPERLEDGER

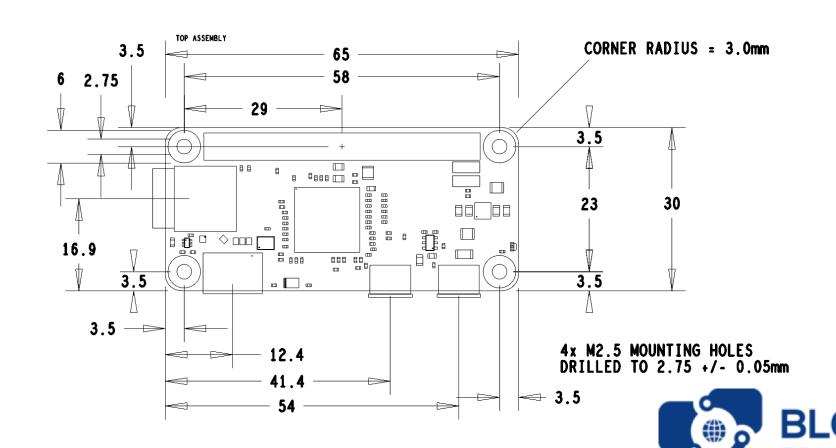


Imagine if intelligent devices are installed in every container.

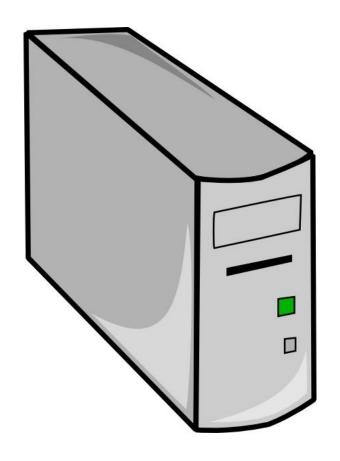




These devices record critical metrics like temperature, humidity, and shock forces.

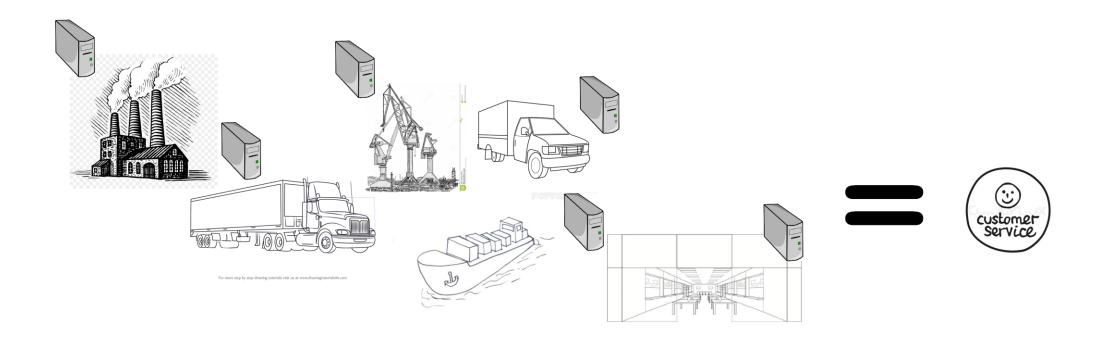


Nodes are configured to record these sensor readings.



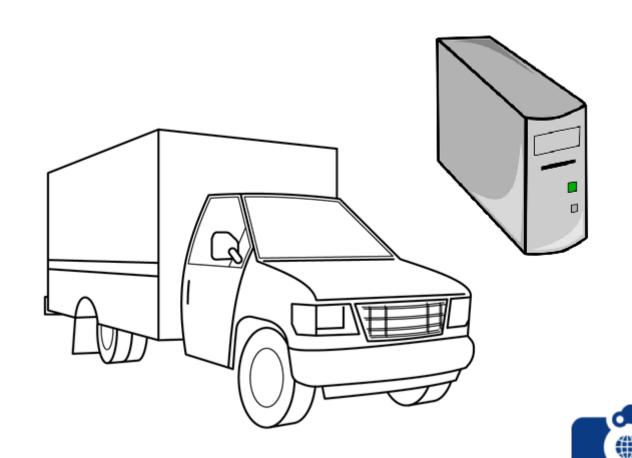


These nodes are placed along the journey.

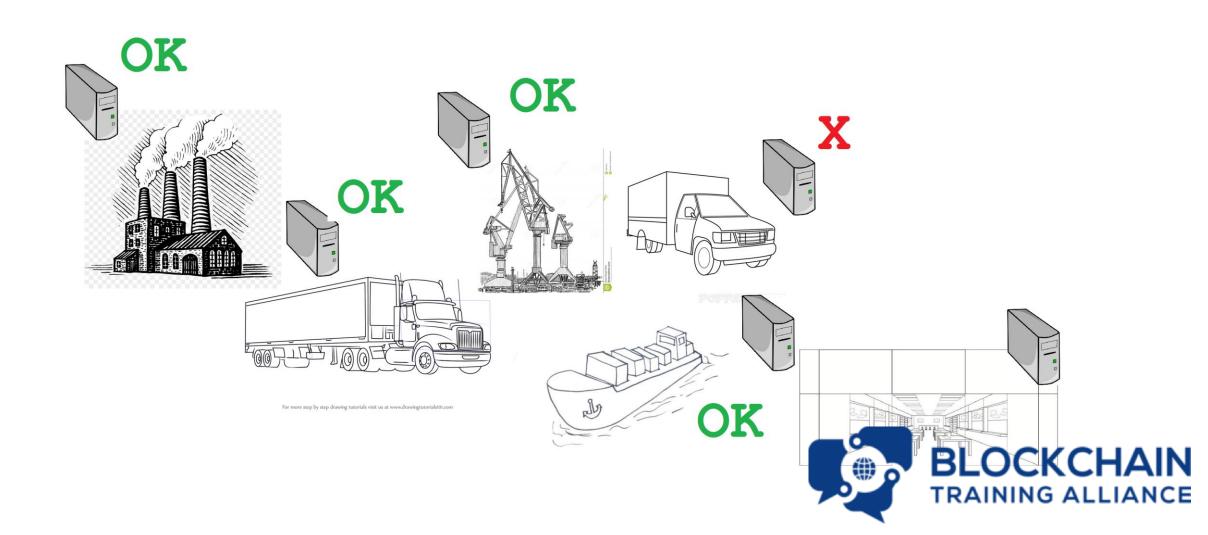




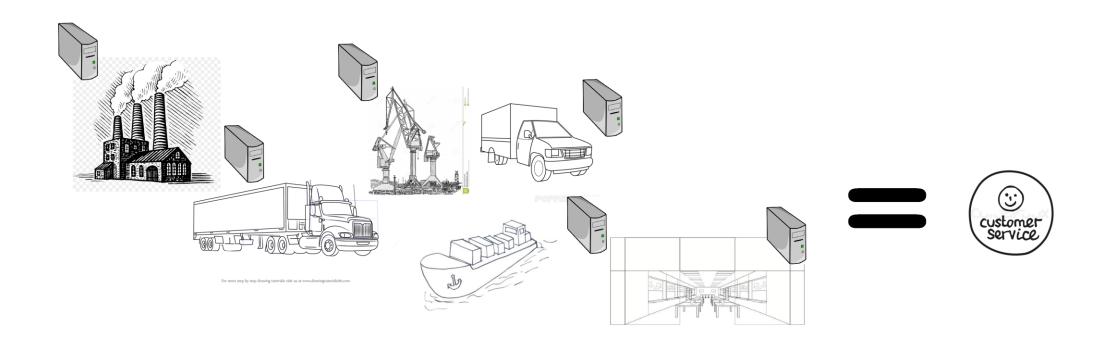
Each participant only worries about providing infrastructure for their own part of the process.



Errors and abnormal conditions can be detected and reported on immediately.



An end-to-end solution with no single owner or administrator.





Let's see how it works...

