



CargoChain

Reinventing International Trade

Saving Trees, Lowering Pollution, Saving Time

Via Blockchain



Shanghai Blockchain
Hackathon 2016

International Trade

- Example- Shanghai Port Handled 32 Million Shipping Containers In 2013
- 60% Of Global GDP (2013)
- 42% Of China GDP (2013)
- \$18 Trillion USD Trade Volume Of Merchandise (2013)



Problem

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- The Bill Of Lading (BOL) Is A Good Example





Problem—Bill Of Lading

- BOLs Often Are In Triplicate Or Quadruplicate



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 - BOLs Are Required For Every Logistics Shipment For Export/Import And Domestic Shipments



Problem—Bill Of Lading

- BOLs -- In Triplicate Or Quadruplicate
- BOLs -- Required For Every Logistics Shipment For Export/Import And Domestic Shipments
- BOLs -- Considered One Of The 3 Main Documents of Trade

The document is a "STRAIGHT BILL OF LADING" form. At the top right, it says "B 1001". The header includes fields for "Shipper No.", "Carrier No.", and "Date". The body of the form has sections for "Shipper Information" (with fields for Company Name, Street, City, State, Zip, and Emergency Response Phone Number), "Kind of Packaging, Description of Articles, Special Marks and Exceptions", and "Charges". There are also sections for "Bill of Lading Number", "C.O.D. Paid", "Prepaid", "Collect", "Total Charges", and "Comments". The bottom of the form contains legal disclaimers and a signature section.

Problem—Trees

- All Of The Paperwork Used For Trade Requires Lots Of Trees To Produce The Paper



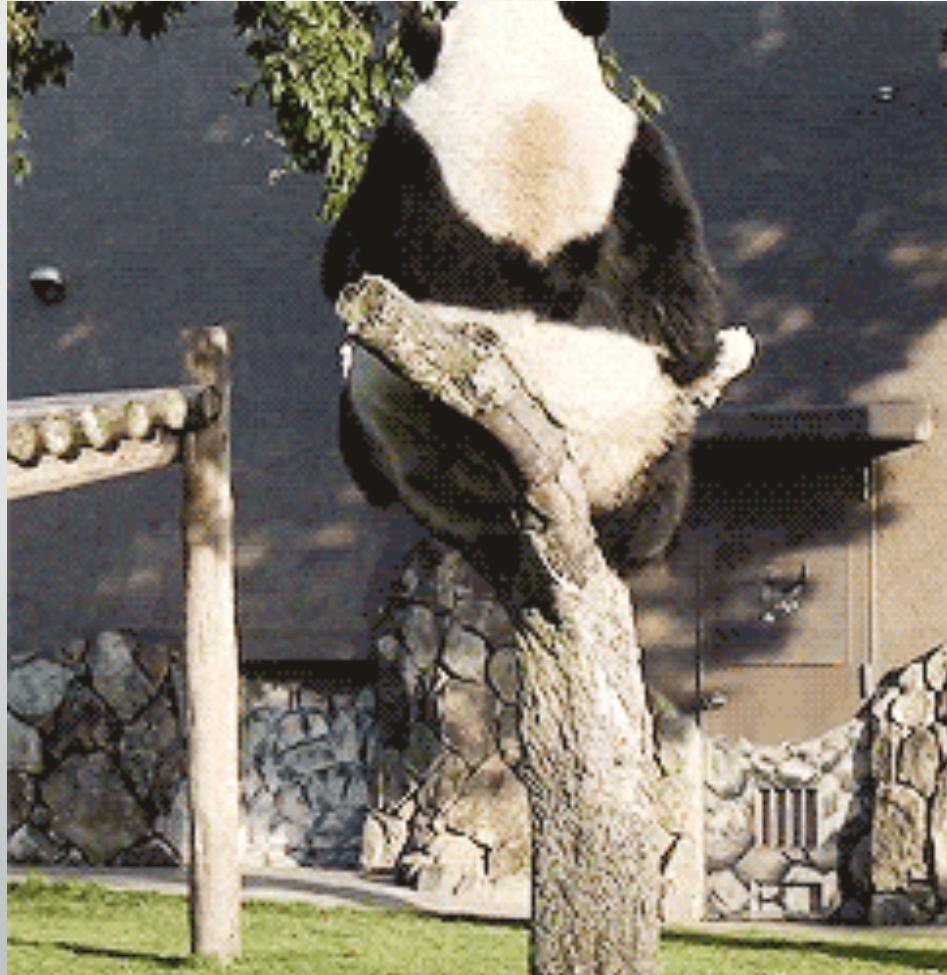
Problem—Trees

- All Of The Paperwork Used For Trade Requires Lots Of Trees To Produce The Paper
- This Causes Deforestation And Produces Pollution



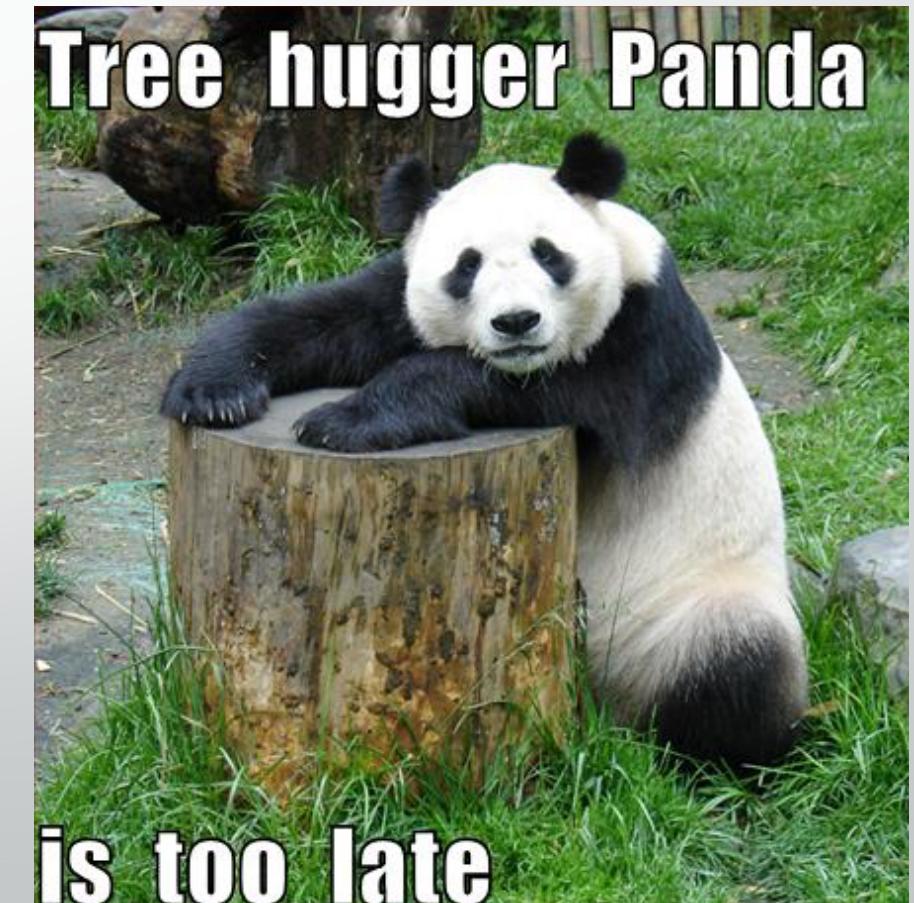


Pandas ❤️ Trees



Pandas ❤️ Trees

- Pandas Becomes Sad With No Trees



Pandas ❤️ Trees

- Sad Pandas Become Unpredictable



Problem—Inefficiency

- Current Standard Requires Physical Documents To Be Shipped Between Exporter And Importer
 - This Is To Validate Document Security (i.e. Documents Are Real)
- Couriering Documents Wastes Time And Causes Further Environmental Pollution
 - Air Pollutants From Vehicles Used In Transportation
- Current Standard Allows For Possible Loss Of Physical Documents, Thus Causing Both Parties Hassle And Delay To Reissue

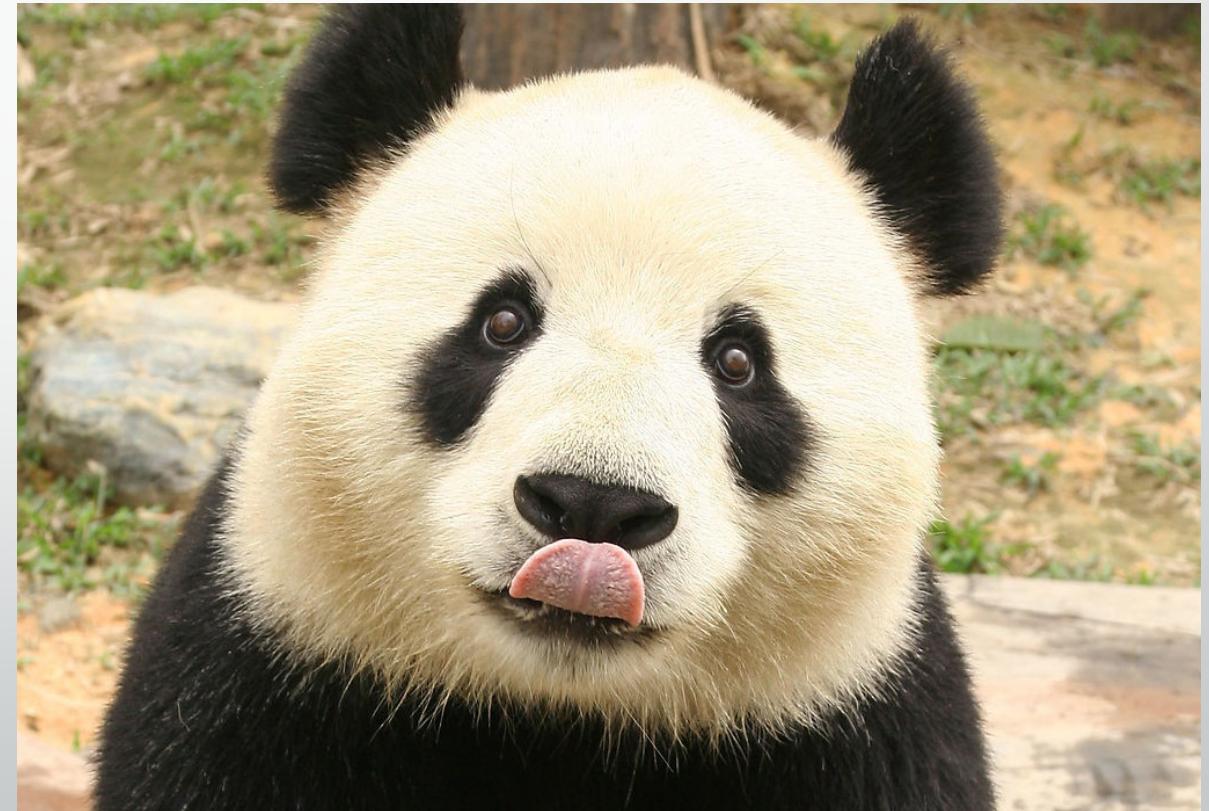




We ❤️ Pandas and Trees

We 💔 Time Waste and Pollution

- We Devised A Solution To The Problems Of:
 - Document Authentication
 - Payment Upon Production Of Documents
 - Inefficiency/ Time Delay To Ship Physical Documents
 - Risk Of Loss Of Physical Documents





Introducing



Introducing





CargoChain

- Simple Document Chain Of Custody For Trade Documents
 - Transmission Of Secure Documents Without The Delay Of Couriering
 - Reduces Fraud
- Automated Payment Release For Producing Documents Required (Such as BOL)
 - Automated Escrow And Guarantee Of Payment
- Built In Penalties For Delays
 - Automates Separate Smart Contract Between Shipping Companies And Importers For Penalties
- Simple User Interface That Any Importer, Exporter, Shipper, Logistics Company Can Navigate And Use



CargoChain

DEMO

Improvements



"Ready are you? What know you of ready?"
Yoda



Thank You





Team

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