Agenda

- A problem we see in the global trading
- Advantage of the Blockchain and the "Proof of Concept"
- What is to change?
- Assignment of policy and IOT
- Smart contract and insurable interest

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A problem we see in the global trading

The "conventional" flow of documents for export/import under a L/C (CIF terms)



The Bank buys the shipping documents and the Shipper gets paid.

The Consignee pays against shipping documents

A problem we see in global trading

• The problem ;



• Why is it a problem ;



A problem we see in global trading

- Can electronic data exchanging solve the problem?
- Pros and Cons of electronic data





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- A major advantage of utilizing blockchain technology is the security
- It is considered impossible to forge a data on a blockchain







- From December 2016 to March 2017
- With NTT Data

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- Purpose
 - Create a blockchain based "Data" Insurance Policy (Certificate of Insurance)
 - Transfer of the blockchain based "Data" within the parties concerned
- Also to check if it is ;
 - ✓ Practical
 - ✓ Efficient
 - ✓ Secure

Created "blockchain based";

Insurance policy (certificate of insurance)



Data Letter of Credit

Data Commercial Invoice

Data Bill of Lading

Worked out well

• Tested the accessibility to the data by the parties concerned



✓ Also tested the <u>control of accessibility</u>

• Proved that it will reduce the conventional clerical work

(e.g.)Shipper - data input for insuranceBank - verification of the terms on documentsBank - shipping the documents

Example of Shipper X

The shipping documents being data based, 85% of the Shipper's time for data inputting is presumed to be eliminated.

• Tested deliberately attempt hacks to the blocks



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What is to change?

Image of blockchain based transactions





- •Eliminates time for waiting the documents
- ·Eliminates risk of documents being lost or misplaced

What is to change?

Import cargo under "due course of transit" sitting at "Port X" \Rightarrow US\$370 million

"Provided" the waiting time for documents being eliminated;

(Assumptions)

- LC as a payment method : 40%
- usage of Bill of Lading : 70%
- ratio of shipments shorter than 10 days : 50%

An example of accumulation decrease ;

40% x 70% x 50% = 14%



(other factors to consider :Cargo picked up by L/G etc...)



What is to change?

Blockchain based electronic data exchange --- Will it fly?

If it's "Insurance stand alone" --- Will not fly.... (probably)

From an user's (or bank's) perspective ---- All or nothing



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Assignment of policy and IoT

If blockchain based insurance policy (certificate) was in practice ;

- There is no physical "assignment " of the policy or certificate

Question ;

- 1. How should we acknowledge the intention of assignment?
- 2. At what point should we consider the assignment is completed ?

18

Assignment of policy and IoT



19

Assignment of policy and IoT



20

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- What if the access is controlled by a Smart contract ?



When smart contract comes into play;





What are we going to face then?

What we will face ;

Who has the Insurable Interest ?

Who is the Assured ?