

世界で動き出す ブロックチェーンを 活用したトレーサビリティ (Rice Exchangeご紹介)

2022年2月9日 富十诵株式会社

本日のアジェンダと 講師ご紹介

FUJITSU

<本日のアジェンダ>

- → 講師自己紹介
- ①RiceExchangeご紹介グローバル市場でのコメ取引の課題ライブデモ
- ②ブロックチェーン技術とビジネス価値
- ③トレーサビリティ事例ご紹介
- ④質疑・ディスカッション

○鈴木 元哉

富士通株式会社

DXプラットフォーム 事業本部 グローバルインキュ ベーション事業部

シニアマネージャー



1992年富士通株式会社入社、ソフトウェア開発や携帯電話・スマートフォン開発、米国駐在等を経て、2015年よりIoTやAI、デジタルアニーラ等のPoC提案及び現場導入を国内外で主導。2020年より欧州発トレーサビリティ課題解決サービスFUJITSU Track and Trust の国内展開に従事

FUJITSU Track & Trust 概要



お客様のトレーサビリティに関わる課題をコンサル・技術力の両輪で解決

- 欧州で培ったノウハウを活用したコンサルサービスと技術プラットフォームでスピーディに仮説検証し、現場導入
- ■トレーサビリティの信頼性を担保するブロックチェーン技術を活用したカスタマイズ容易なプラットフォーム





様々な実践事例がございます。「<u>データドリブン</u>富士通」で検索ください

顧客事例ご紹介





世界初コメ取引デジタルプラットフォーム

RiceX事例背景ご紹介ビデオ



取引の

透明性向上

RiceX社|参加者すべてにフェアな取引の場を

FUJITSU



見えない相手との取引 国・業界を超えた透明性確保

■ グローバルなコメ取引のデジタルプラットフォームを 構築

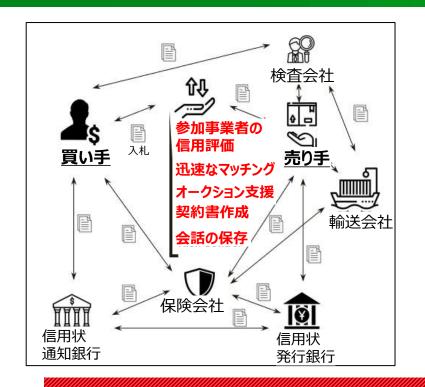
■ 貿易コストの20%削減、取引時間の90%短縮 を実現

■ 米の品質・認証などの重要情報も 見える化し、取引価格を適性化



国際コメ取引の主要ステークホルダと課題



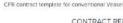


取引情報が分散	メール、電話、SMS
市場データの欠如	商機を逸する
価格透明性の欠如	中間業者に依存
紙媒体への依存	入力ミス
不正をしやすい取引環境	上記複合要因
取引の信頼性の低さ	中間業者に依存
先物やヘッジ取引も限定的	過去取引へ依存
取引システムへ投資不足	多数の関係者

グローバル・コメ取引市場は不透明・非効率

GAFTAルールに基づくコメ売買契約書例





CONTRACT REF ID : ARG-20210802-051358

売り手

買い手

1. Seller Company : SITCO Ltd. Address: Street - ADD1

City: Woodlands Zip Code : 123singapore Country: Singapore

2. Buver Company : Argos Ltd. Address: Street: ADD1 ADD2 City: Woodlands

Zip Code: 123singapore Country . Singapore

User: Akira Endo Importer

3. Product and Specifications Origin: India Rice Type: Ancient_Rice Quality : Standard Crop Year: 2021

購入するコ メの詳細

Rice to be of sound loyal and merchantable quality, free from foreign and /or bad odor, free from live weeylis/live insects and practically free of dead weevils, fit for direct human consumption. Otherwise as per export standards of the country of origin valid at time of shipment.

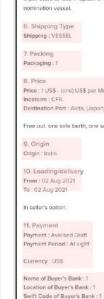
4. Contractual Appointed Inspection Company Inspection Company: Best Inspection

Quality, weight, packing, fumigation and condition shall be determined, at time of loading, by the "contractual appointed surveyor". The Buyer shall have the right to appoint a second surveyor ("second appointed surveyor") to check the goods prior to and at the time of loading, in which case the Seller will give full access to the goods. Costs of second appointed surveyor to be for Buyer's account. In case of dispute, the findings of the contractual appointed surveyor per its certificates to prevail and to be final and binding on both perfes

5. Quantity

Quantity: 1 MT one Metric Ton)

購入量



5 pct. More or less in option of Seller and at contract price. Exact quantity to be declared at time of 輸送手段 出荷量(PKG数) 値段・取引条件・ Price: 1 US\$ - Jone) US\$ per Motric Ton-荷下港 Destination Port : Akita: Liabani. Free out, one safe borth, one safe port, Port and borth always accessible, vessel always afloat.

コメ育成地

支払い

集荷・配達日

添付リスト

Location of Buyer's Bank: 1

The original doc to consist of :

- . Bill of Lading (Uoloaded by Seller)
- . Invoice (Unleaded by Satur
- . Certificate of Weight and Quality (issued by contractual inspector) attacased by Contactual Impactor . Packing List (issued by seller) appoeded by Seller)
- . Certificate of Furnigation (issued by licensed furnigator) (Licharder In Contraduct Impacted)
- . Phytosanitary Certificate (issued by competent authority) (Linforded by Selin)
- . Certificate of Origin (Unloaded by Seter)
- . Hold Cleanliness Certificate (issued by contractual inspector) (uprocoud by Contractual hispocratic

Except for the commercial invoice, third party doc are acceptable. Letters of indemnity for missing doc are not acceptable.

12. Discharge Terms Discharge Terms: CQD Demurrage rate/day in \$:1

The Buyer shall be responsible for obtaining and maintaining in force any necessary import license(s) and the soller shall be responsible for obtaining and maintaining in force any necessary export licenso(s). The failure to obtain and or to maintain in force such license(s) shall not be sufficient grounds for a claim of Force Majoure if the regulations in force, at the time when the contract was made, called for such licensels) to be

Title to goods sold and purchased under this contract shall pass from Seller to Buyer upon receipt by Seller of full payment.

13. Fumigation

To be effected after completion of loading at sellers costs and risk product to be used is aluminum phosphide or aluminum phosphide at 2 gram/m3 for 120 hours or as per recommendation of the inspection company.

14. Marine Insurance

Buyers to cover the Marine insurance on 110 pct of the value of the goods from warehouse to warehouse, Including war risk, civil riots and commotion. Buyers to provide proof of coverage on sellers first demand.

15. Governing Law and Arbitration

This contract shall be governed by and construed in accordance with English law. Any disputes arising out of or in connection the breach, termination or validity thereof shall be determined by arbitration in accordance with GAFTA Arbitration Rules No. 125.

16. Other Terms

Except to the extent inconsistent herewith, all other terms and conditions shall be as per GAFTA Contract No. 122 which are incorporated herein.

17. Options

none

18. Miscellaneous

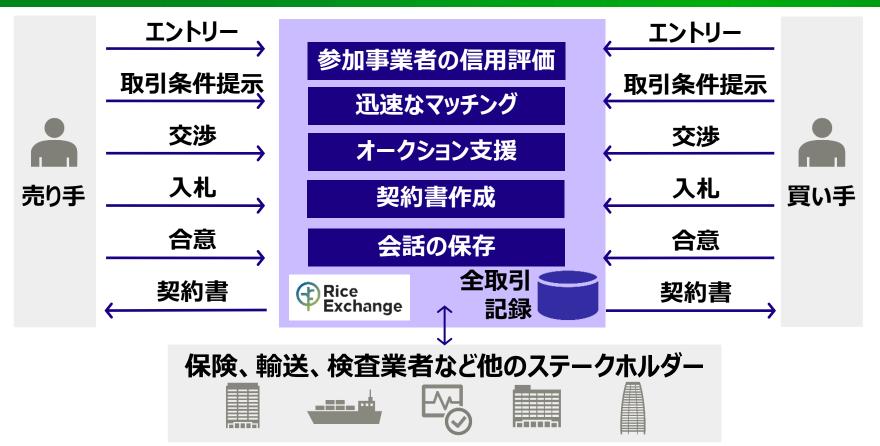
(a) Entire Agreement: This contract constitutes the entire agreement between the parties relating to the purchase of the product in the quantities and during the period specified herein. All prior and contemporaneous representations, understandings and agreements are superseded and merged herein. (b) Modifications: This contract cannot be modified except in a written form signed by both parties to this contract. No usage of trade or prior course of dealing or performance between the parties shall be deemed to modify the terms of this contract.

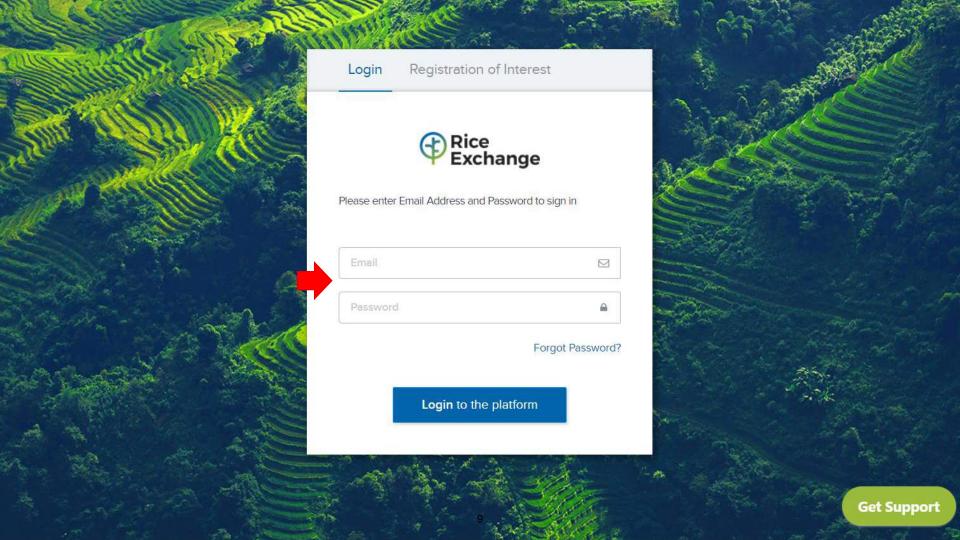
(c) Walver . No delay or fallure on Seller's or Buyer's part to force any right or claim which either of them may have hereunder shall constitute a waiver of such right or claim. Any waiver by Seller or Buyer of any term, provision or condition hereof or of any default hereunder in any one or more instances shall not be deemed to be a further or continuing waiver of such term, provision, or condition or of any subsequent default

No term in the Buyers' purchase order, acknowledgement form or other document which conflicts with the terms hereof shall be binding on the Seller unless accepted in writing by the Seller.

RiceX|コメ取引デジタルプラットフォーム機能概要

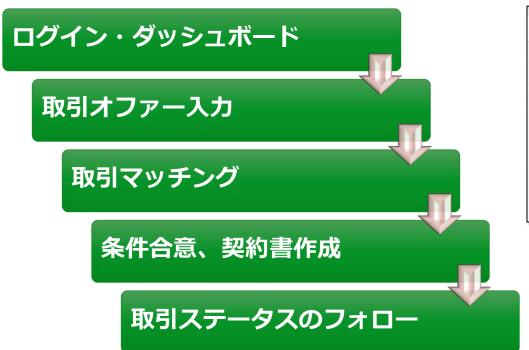






デモシナリオについて(売り手、買い手)







○ブラウザ利用 (PC)





Rice Exchangeが コメ取引に新たな可能性を提供

これまでの実績

- 2020年9月に稼働開始後、 10万トンの取引
- 既に300以上の組織が利用
- COP 25(第25回気候変動枠 組条約締約国会議、マドリッド開 催)で有益性が認められる

ユーザの利点

- 取引コストの削減 (-20%)
- 取引の90%は6分未満で完了
- 売り手・買い手の取引情報が一 覧化され、市場原理により取引 価格が適正化

次の展開計画

- 1年以内に\$2億5000万規模(四半期あたり) を超える取引を想定
- 第2世代の開発完了
- Fertilizer Exchange (肥料取引基盤)等の新機能追加

RiceExchange エコシステム



流通業者

保険業者



One of largest container shipping lines

DUCAT

Largest rice parcel service provider





FTSE listed inspection company



Top 5 inspection company

検査業者



Fast growing inspection company

COTECNA

Top 5 inspection company



Largest marine insurance broker for rice

Helvetia Group

Leading Swiss specialty insurer



Largest interbank payment platform





ブロックチェーン技術概要とビジネス価値