

2018 NAFC ANNUAL CONFERENCE

THE CHANGING FINANCIAL LANDSCAPE IN TRUCKING:

addressing opportunities and challenges



AMERICAN TRUCKING ASSOCIATIONS
NATIONAL ACCOUNTING
& FINANCE COUNCIL

Blockchain in Trucking and Logistics

Tyler Jenks, Co-Founder of Very

“The consequences
of not investing are
extremely high.”



Frederick Smith
CEO of FedEx
May 2018

What is a blockchain?

A blockchain is an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way.

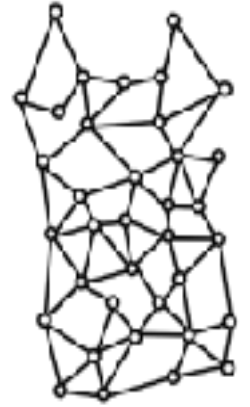


A blockchain
is a ledger

LEDGER	
Account owner	Value
Mary	4
John	56
Sandra	83
Lisa	16
David	187
Brian	23
...	...

Blockchain

A blockchain is an open, **distributed** ledger that can record transactions between two parties efficiently and in a verifiable and permanent way.



Centralized Distributed

Blockchain

A blockchain is an open, distributed ledger that can **record transactions between two parties** efficiently and in a verifiable and permanent way.

LEDGER	
Transactions	Value
Mary → John	10.000
John → Lisa	0.345
Sandra → David	18.4332
Lisa → Sandra	7.156
David → Mary	12.3402
Brian → Lisa	3.029381
...	...

Blockchain

A blockchain is an open, distributed ledger that can record transactions between two parties **efficiently** and in a verifiable and permanent way.

Blockchain

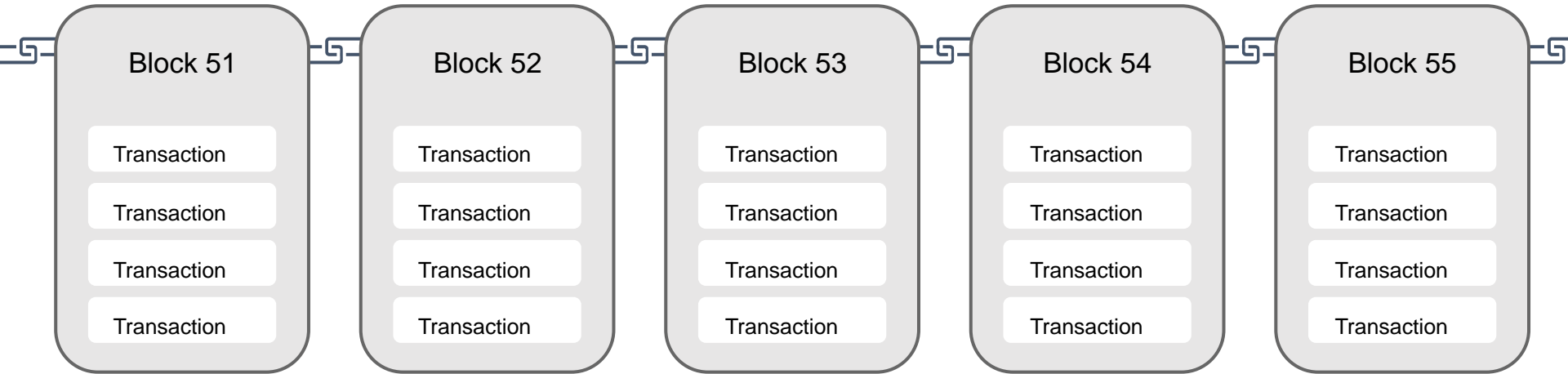
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Blockchain

A blockchain is an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and **permanent** way.

Blockchain



Blockchain

Invented in 2008 by Satoshi Nakamoto in order to create the world's first reliable digital currency...

Bitcoin

Limited to 21,000,000



Blockchain matters because...

Digital money or Cryptocurrency can't safely or reliably exist without it.

- Solves “The Double Spending Problem
- Solves “The Byzantine Generals Problem”

Cryptocurrencies

- In 2009, Bitcoin traded for \$0.001
- Today, it trades for \$7,500
- 7,500,000x in 9 years
- 6x per year, compounding



Bitcoin



Ethereum



Bitcoin Cash



Filecoin



Eos



Aion



Monero



Bitcoin in Cloud



NEM



OneCoin



Hibaku



Loom network



Zcash



Stacks



Terra



Zcash



Ark



Nxt



Meldarcoin



Bitcoin



Basic Attention Token



Dash



Colossus



BIS Network



EOS



Bancor



Safe Haven token



BitConnect



Fusion



Teos



LUNA



NEM



Komodo



Munacoin



Storj



PAX

Smart Contracts

- Ethereum and others, allow for “smart contracts”
- Programmable, nuanced, automated transactions
- Like a vending machine



Smart Contracts

- Instant transfer of financial resources
- Based on a pre-programmed trigger event
- No human intermediary



IoT Devices

- “Internet of Things”
- Connected devices
- Sensors that send data to the internet
- ...or to a blockchain





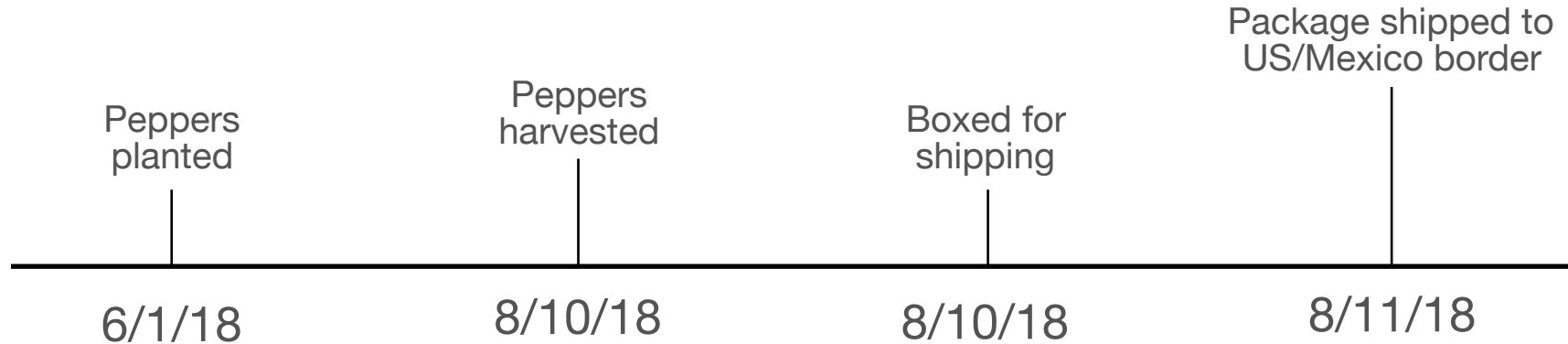




Peppers on Blockchain



Peppers on Blockchain



Average soil temperature: 74 degrees

Weight: 15 kg
Boxed at 2:58 p.m.
Boxed by Frank Smith

Tracking #: 1Z-999-
AA1-01-2345-6784

On moving produce from MX to USA...

- US Department of Agriculture
- Animal and Plant Health Inspection Service
- Agricultural Marketing Service
- US Food and Drug Administration
- US Customs and Border Protection

On moving produce from MX to USA...

- Registrations
- Certifications
- Bill of Lading
- Proof of Prior Notice
- Inspection – Pass, Sample, Notice of Detention



Upon Inspection

- Regulators scan shipment
- All details stored on blockchain
- Results of inspection also appear
- Prior detentions immediately seen

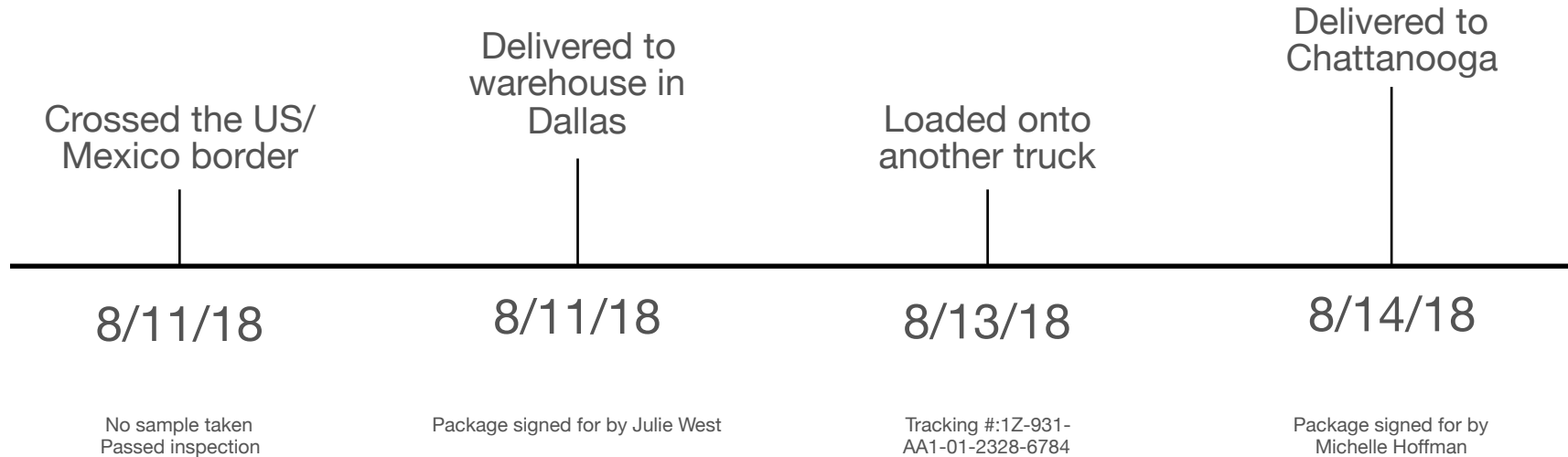


BILL OF LADING / CONNAISSEMENT

Not negotiable / Non negociable

SHIPPER'S RECEIPT					
BILL OF LADING / LE COGN.			A BILLE DE MÊME NATURE QUE LE COGN. A BILLET DE MÊME NATURE QUE LE COGN. A BILLET DE MÊME NATURE QUE LE COGN.		
SU	A	VA			
SHIPPER / EXPÉDITEUR CUSTOMER CODE NAME / NOM ADDRESS / ADRESSE OFFICE / BUREAU COUNTRY / PAYS TELEPHONE NO. NO. / NO.			Declared Value \$ Valeur déclarée For _____ Insurability is to be per passenger liability valuation unless otherwise indicated in applicable conditions with source of \$1.00 per pound. Assurance est à valoir par passagers sauf indication contraire dans les conditions applicables avec source de \$1.00 par livre.		
CONSIGNEE / DESTINAIRE TELEPHONE NO. NO. / NO.			FREIGHT CHARGES / FRAIS DE TRANSPORT PREPAID / PRÉPAYÉ Collect on Arrival / Collect à l'arrivée COLLECT / À PERCEVOIR Collect on Delivery / Collect à la livraison Freight charges will be collect unless marked prepaid. Les frais seront à percevoir à moins d'être prépayés. - (S) (S)		
POLYMER / POLYMER DATE / DATE NUMBER / NUMÉRO		CARRIER / TRANSPORTEUR SERVICE / SERVICE	TRANSFER POINT / POINT DE TRANSFÈREMENT DATE / DATE		BILL OF LADING / CONNAISSEMENT Name of This Party Nom de la présente partie Address / Adresse
MARKS / MARQUES SHIP TO / À DESTINATION DE / À L'USAGE DE / À L'USAGE DE DESCRIPTIONS / DESCRIPTIONS / MARCHANDISES / MARCHANDISES		QUANTITY / QUANTITÉ UNIT / UNITÉ			
P.O. #			SHIPPER'S #		
SHIPPER: PLEASE COMPLETE THE FOLLOWING / EXPÉDITEUR: S.V.P. REMPLIR CE QUI SUIV					
DATE OF ISSUE / DATE D'ÉMISSION	SHIPMENT NO. / NUMÉRO DE LA MARCHANDISE	GROSS WEIGHT / POIDS BRUT	TOTAL NET WEIGHT / POIDS NET TOTAL	TOTAL GROSS WEIGHT / POIDS BRUT TOTAL	COMMENTS / REMARQUES
1. An agreement securing transportation of the goods described herein with other than the shipper, or for specific time, must be endorsed on this bill of lading and signed by the parties thereto. 2. When a shipment is at shipper's risk, the words "Shipper's Risk" must be endorsed and initialed by both parties thereto.			C.O.D. C.O.D. charges will be collect unless marked prepaid. Les frais C.O.D. seront à percevoir à moins d'être prépayés.		
1. Toute entente assurant le transport des marchandises décrites ci-dessus avec d'autres que l'expéditeur, ou pour un délai déterminé, doit être inscrite sur le présent connaissement et signée par les parties concernées. 2. Si la marchandise est expédiée au risque de l'expéditeur, les mots "Risque de l'expéditeur" doivent être inscrits et initialement par les deux parties concernées.					
SHIPPER / EXPÉDITEUR PER: _____ NOTE: SHIPPER'S RISK-INDICATED SHIPPER'S RISK. THIS BILL OF LADING IS NOT SUBJECT TO SHIPPER'S RISK.			CARRIER / TRANSPORTEUR PER: _____ NOTE: MARCHANDISE NON DÉCLARÉE NI RÉGULÉE DE L'EXPÉDITEUR. IL NE SUIVRA PAS LE RISQUE DE L'EXPÉDITEUR.		CUSTOMER / DESTINAIRE PER: _____

Peppers on Blockchain





Thank You

Tyler Jenks, Co-Founder of Very
VeryPossible.com