

La Tecnología de la Cadena de Bloques: una GRAN idea para los alimentos y la transparencia



Walmart

Frank Yiannas

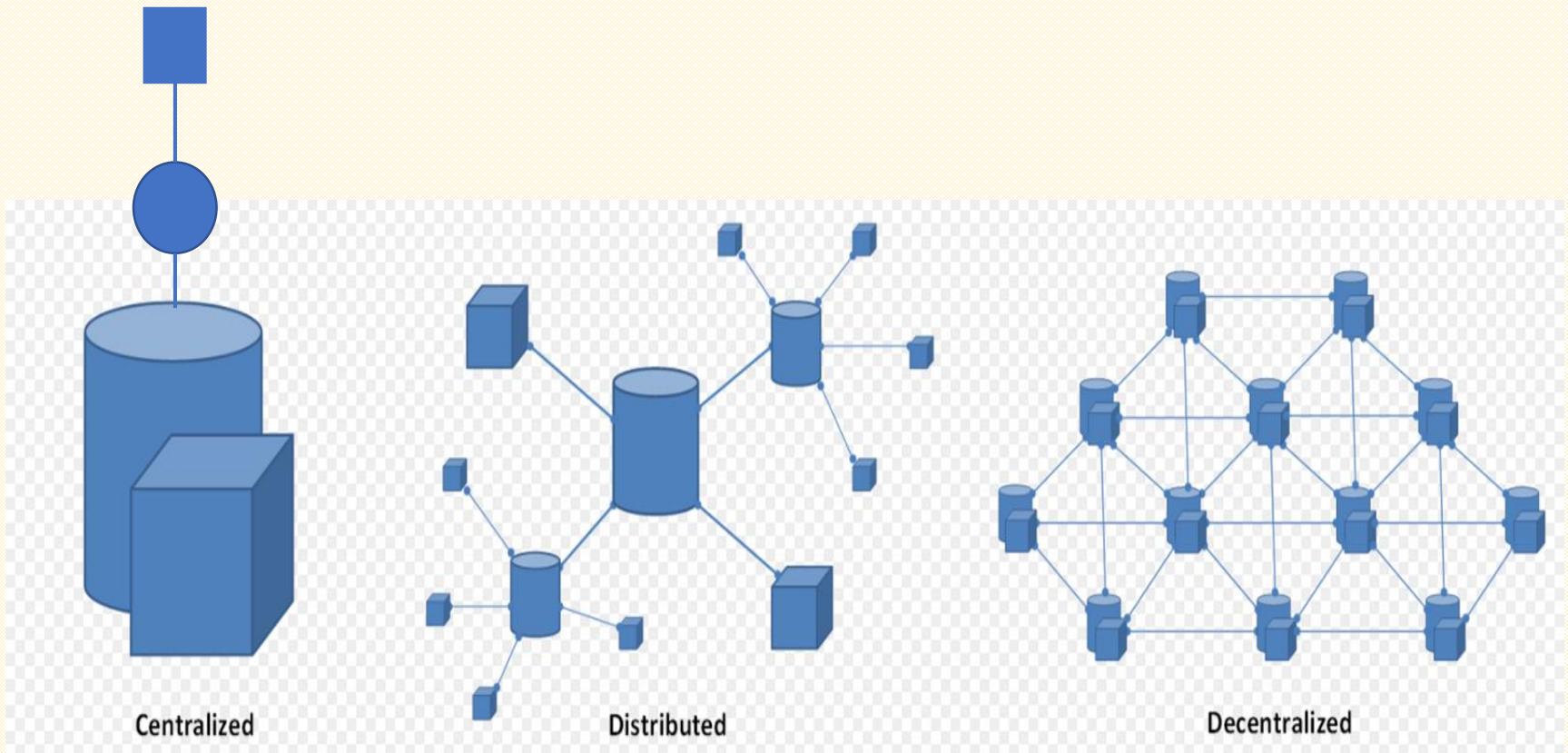
VP – Food Safety

Blockchain

Cadena de Bloques



Por que el santo grail de la trazabilidad de los alimentos ha evadido esto?

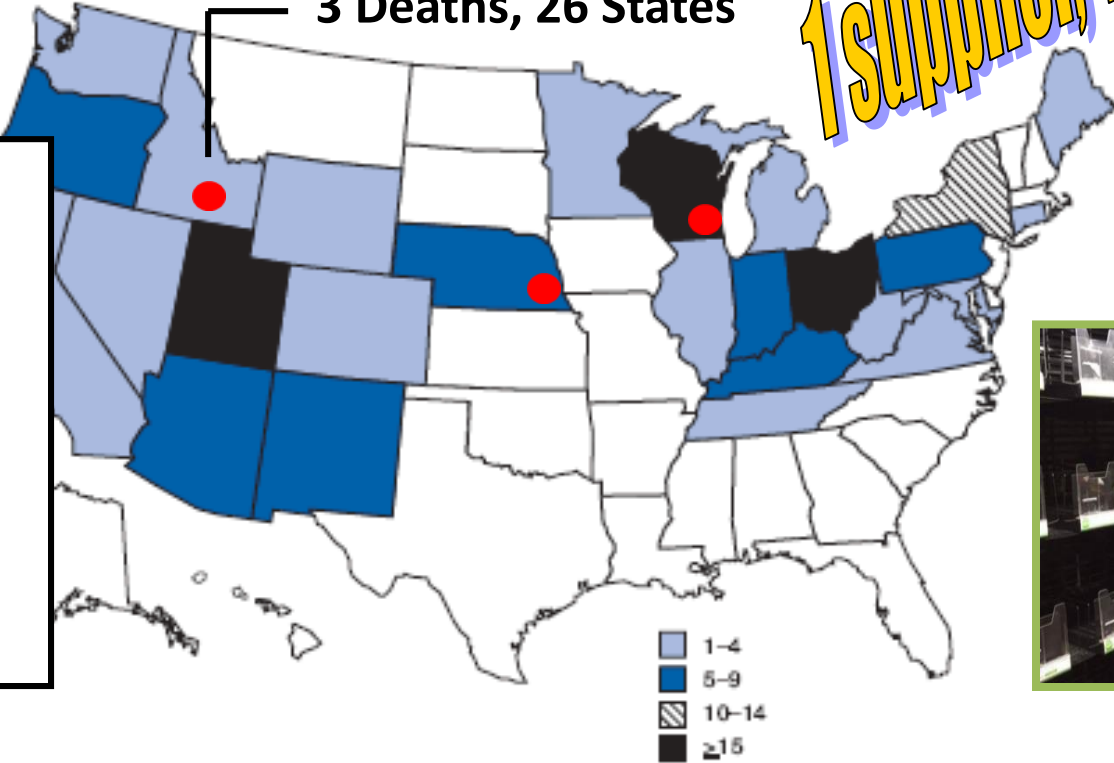


Core features: immutable, permanence (finality), guarantee (compliance), consensus (democratizes/shared value), provenance , &TRUSTED.

Brote de Espinaca

1 supplier, 1 lot, 1 day

199 Cases, 31 HUS,
3 Deaths, 26 States



DUE TO THE SPINACH RECALL, WE ARE OUT OF ALL SPINACH UNTIL FURTHER



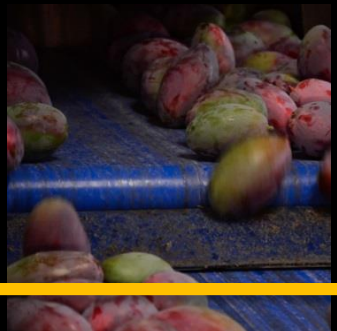
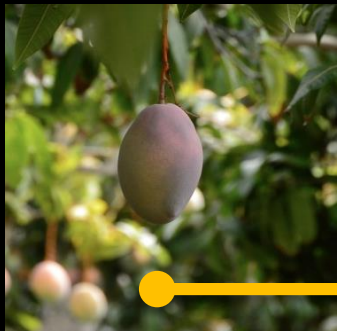
E. coli



2006

Vida de un Mango





Sell by Date: 01/07/17
Total Price \$4.78
Price per LB \$4.78
Net Wt. 16 OZ (454g)



Farm to Table

De la Granja a la Mesa

Sell by Date: 01/07/17

Total Price \$4.78

Price per LB \$4.78

Net Wt. 16 OZ (454g)

6 Days, 18 Hours, 26 Minutes



Walmart IBM



Food Traceability @ the Speed of Thought

Trazabilidad de los Alimentos @ Velocidad del Pensamiento



FOOD SAFETY & TRACEABILITY
on Blockchain

Trace

View Certificates



Sign out

Which product would you like to trace?

Mango

What would you like to trace with?

Supplier Product Code (on the package)

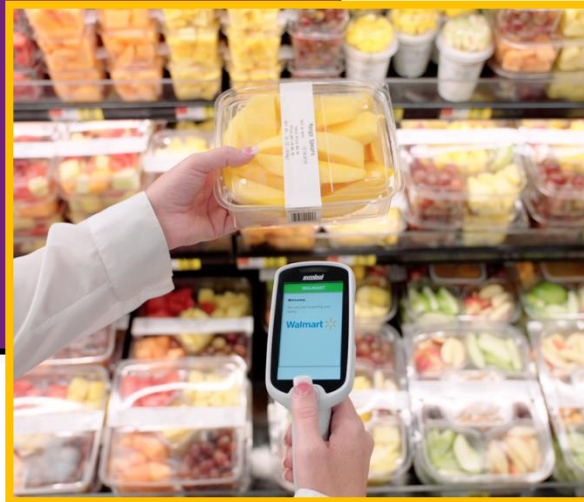
Please enter the supplier product code

OOU0103

OOU0103 was produced on 04-30-2017

Here are the products using OOU0103 code:

- Mango Spears 10 oz Sell by 05-09-2017
- Mango Chunks 16 oz Sell by 05-09-2017



12:55 PM
9/11/2017

Food Traceability @ the Speed of Thought

Trazabilidad de los Alimentos @ Velocidad del Pensamiento

[Trace](#) [View Certificates](#) Sign out

Which product would you like to trace?

Mango

What would you like to trace with?

Supplier Product Code (on the package) ✕

Please enter the supplier product code

OUO0103 ✕

OUO0103 was produced on 04-30-2017

Here are the products using OUO0103 code:

- Mango Spears 10 oz Sell by 05-09-2017
- Mango Chunks 16 oz Sell by 05-09-2017

Production Range of Ranches Feeding Mangoes for OUO0103

	Apr 20	Apr 21	Apr 22	Apr 23	Apr 24	Apr 25	Apr 26	Apr 27	Apr 28
167 Chiapas Mexico Tommy					Harvested Apr 24				
PPS-220 Oaxaca Mexico Tommy					Harvested Apr 24				

Certificates

<div style="border: 1px solid #ccc; padding: 5px; background-color: #e6f2ff;"> 167 Inspection certificate EXPIRE 08-10-2017 </div>	<div style="border: 1px solid #ccc; padding: 5px; background-color: #e6f2ff;"> PPS-220 Inspection certificate EXPIRE 06-21-2017 </div>
---	---

2.2 Seconds!!!

APR 24	APR 25	APR 26	APR 27	APR 28	APR 29	APR 30	MAY 01	MAY 02	MAY 02	MAY 03
Orchard	Packing House	Importer	CF Facility	Walmart DC	Walmart Store					

ORCHARD 2	PACKING HOUSE 1	IMPORTER 1	FACILITY 1	WALMART DC 1	WALMART STORE 2
--------------	--------------------	---------------	---------------	-----------------	--------------------

12:55 PM
9/11/2017

2.2 Segundos en vez de 7 Dias



Mas Alla de la Trazabilidad

FOOD SAFETY AND TRACEABILITY on Blockchain

Supplier Product Code (on the package): OOU0103

Trace View Certificates Sign out

APR 24 APR 25 APR 26 APR 27 APR 28 APR 29 APR 30 MAY 01 MAY 02 MAY 02 MAY 03

Orchard Packing House Importer CF Facility Walmart DC Walmart Store

Stage	Count
ORCHARD	2
PACKING HOUSE	1
IMPORTER	1
CF FACILITY	1
WALMART DC	1
WALMART STORE	2

ORCHARD
167
Audit Certificate
Harvest Dates: 04-24-2017
PPS-220

PACKING HOUSE
Packing Dates: 04-25-2017
Hot Water Treatment Certificate
Dispatch Dates: 04-26-2017

IMPORTER
Cold Storage

CF FACILITY
Safety Audit Certificate
Receiving Dates: 05-01-2017
Processing Dates: 05-01-2017
LOT# OOU0103
Dispatch Dates: 05-01-2017
Walmart PO #6082203511
Mango Spears 16oz
102 Cases

WALMART DC
DC 6082
Receiving Dates: 05-02-2017
Walmart PO #6082303511
Mango Spears 16oz
102 Cases

WALMART STORE
Store 5837
Store 4686

GFSI
Global Food Safety Initiative

12:59 PM 9/11/2017

Transparencia

Anonimato



Benefits of a More Transparent Food System

Beneficios de Una Sistema Alimentario mas Transparente

- **Enhanced Food Safety**
- **Fresher Food**
- **Less Food Waste**
- **Deter Food Fraud**
- **Promote Responsibility**
- **Build Trust**



**Proveemos alimentos
inocuos y asequibles
a nivel mundial,
para que las personas
puedan vivir mejor.**



on twitter @frankyiannas