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JOURNAL

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SEPTEMBER 30 - OCTOBER 1, 2020

The Blockchain Supply Chain: Improving Traceability & Logistics Processes

An AIM Subject Matter Experts Panel



About AIM, Inc.

- **Our Mission**

- As an unbiased resource for networking, education, advocacy, and standards, AIM will help its members grow their business by fostering the effective use of automatic identification and data capture (AIDC) solutions

- **Our Vision**

- Advancing the effective use of automatic identification and data capture technologies

- **Our VALUE**

- Creating partnerships to globalize AIDC industry success

www.aimglobal.org

Meet the Subject Matter Experts



Scott Austin
Senior Executive VP, Americas

EVERLEDGER



Sowmya Varadarajan
Business Development Leader

IBM



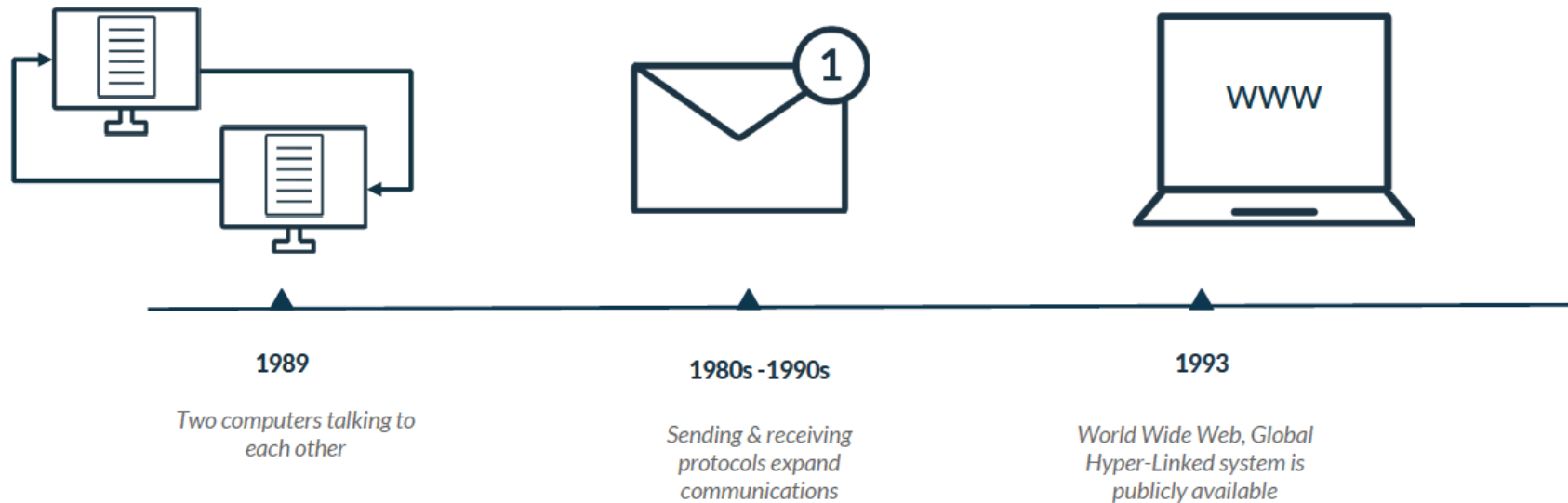
Therese Myers
CEO

Infratab™

What is Blockchain?

Blockchain history

HTTP to WWW



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EVERLEDGER



Advancing
Identification
Matters

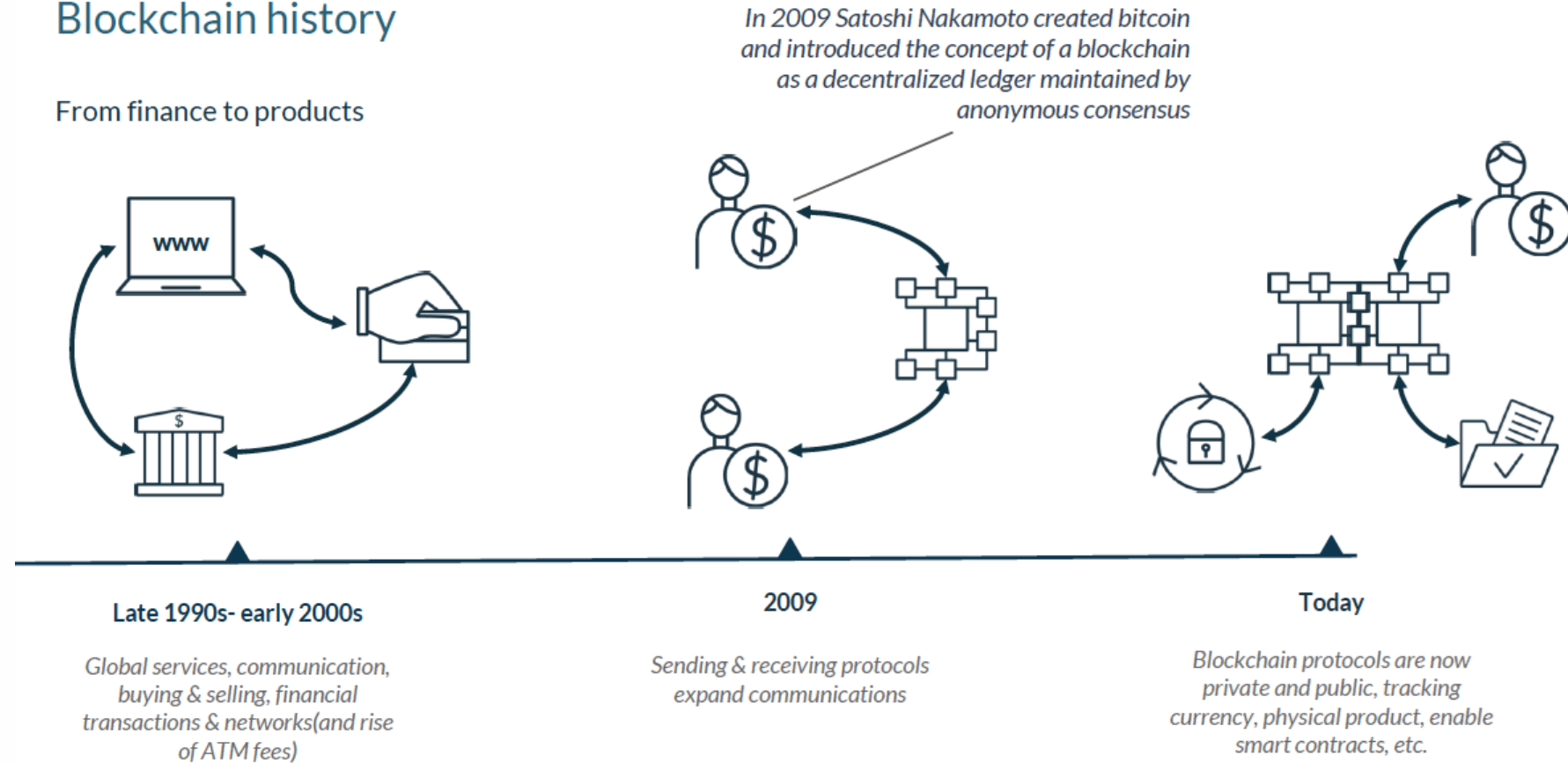
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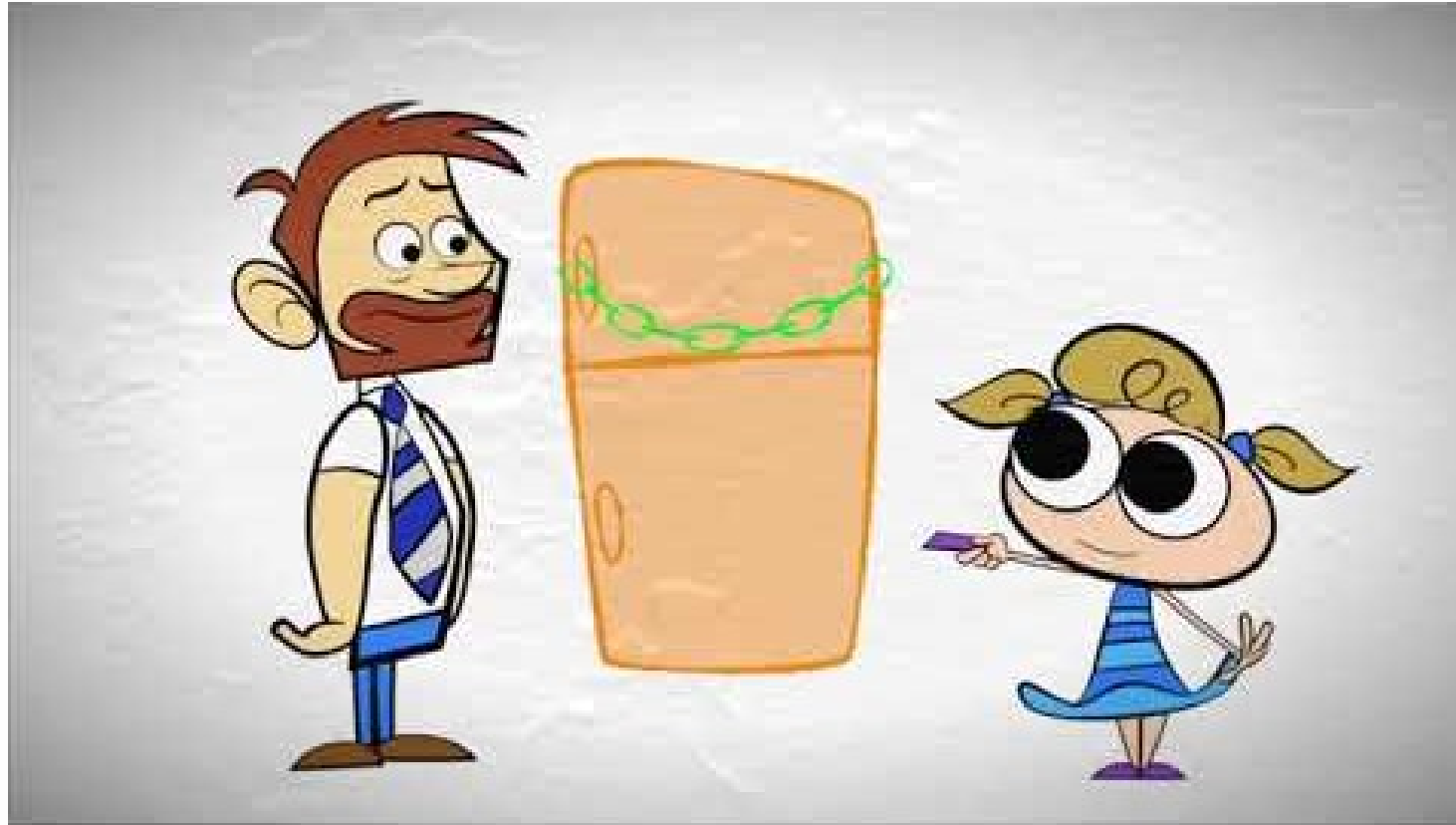
Blockchain History

Blockchain history

From finance to products



Defining Blockchain



Real Life Applications



CONNECTING THE PHYSICAL AND THE DIGITAL

Activating a QR CODE or an NFC tag directly with your phone.

Access a secure product page with product information and item unique journey

All the IDs and the events of each item are stored on the blockchain to provide even more confidence on the authenticity of the product

How blockchain holds unique digital identities for products, using RFID and secure NFC for **authentication and consumer engagement**

READ QR OR NFC



ACCESS SECURE
PRODUCT PAGE



SUMMER 19 MIDI SUNDRESS

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quis varius blandit netus aliquam a, lectus justo.

Item Code: 12800RT3012
Material: 100% cotton
Colour: Grey
Size: 8 (UK)

REVIEW UNIQUE
PRODUCT JOURNEY

16.10.2019 **QUALITY CHECK BY K&B**
📍 LONDON
Lorem ipsum dolor sit amet, consectetur adipiscing elit.
[LOG IN TO VIEW MORE INFO](#)

10.10.2019 **QUALITY CONTROL BY K&B**
📍 LONDON
Lorem ipsum dolor sit amet, consectetur adipiscing elit.
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27.09.2019 **MANUFACTURED**
📍 LONDON
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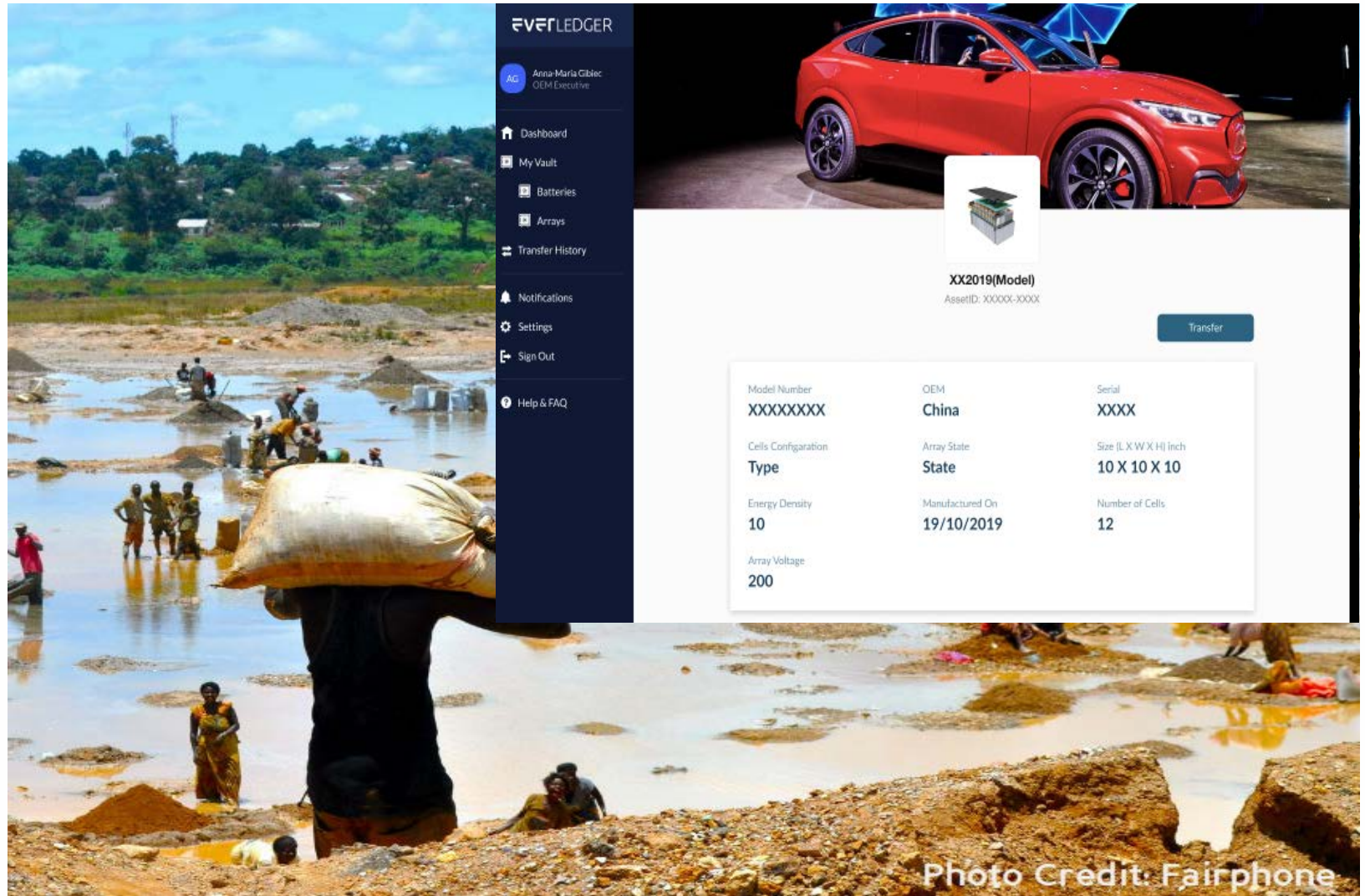
Minerals & Metals

How blockchain holds unique place to support sustainability initiatives from mine to recycling.

Artisanal mining is a significant source of critical minerals. Some 20% of global Cobalt is acquired through ASM.

The speed of growth of demand outweighing supply, the Opaque supply chain and the critical need for resource optimisation makes blockchain a key technology to support supply chain efficiency and compliance.

GHG life cycle emissions measurement and Human Rights compliance are also supported.



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WATCH THE VIDEO

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Real Life Application

Sea Bass, Sea Brine,
AB Vassilopoulos (AB), National
Technical Institute of Athens, Infratab
Monitoring shelf life from harvest to
processing to retail store to consumer

Authenticity

BLOCKCHAIN

Freshness

fish

Value

How fresh?



2

Carrefour

"The pomelo **sold faster** than the year before due to blockchain," Delerm said.

"We had a **positive impact** on the chicken versus the non-blockchain chicken."



TECHNOLOGY NEWS JUNE 3, 2019 / 1:09 PM / 4 MONTHS AGO

Carrefour says blockchain tracking boosting sales of some products

Emma Thomasson

4 MIN READ



BERLIN (Reuters) - French retailer Carrefour SA has seen sales boosted by the use of blockchain ledger technology to track meat, milk and fruit from farms to stores and will extend it to more products to increase shopper trust, an executive said on Monday.



Scan QR Code with your phone camera and type in the missing numbers below in **RED**



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Farmer Connect

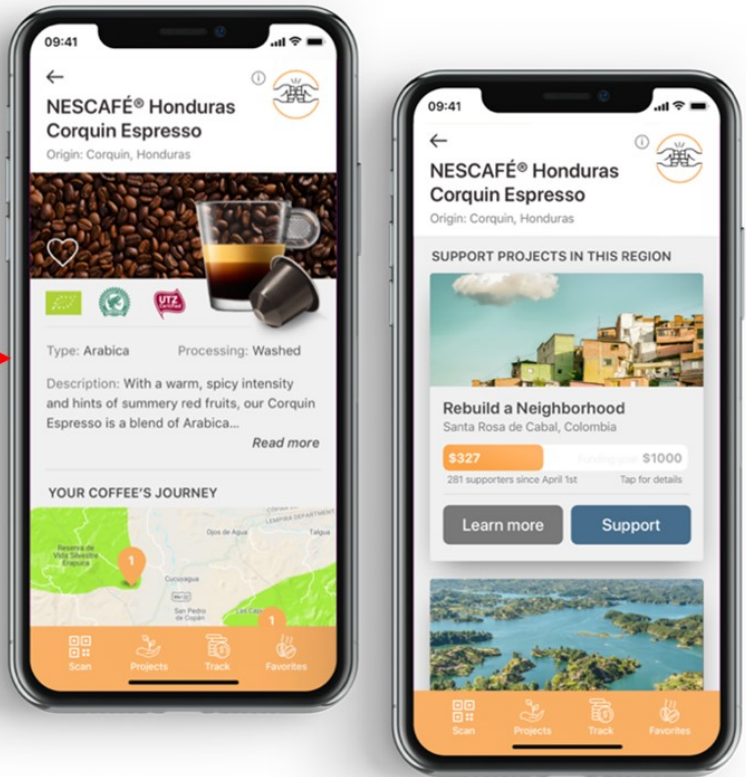
'Thank Your Farmer' Experience



The Future of Coffee



'Thank Your Farmer' experience in the Coffee network built on IBM Blockchain Transparent Supply



Opportunities in a Digital World



Pandemic

Covid-19 vaccine

The challenge: Temperature sensitivity of the vaccine

Storage & transport: -70°C

OK at clinic receiving?

OK at time of vaccination?

Who was vaccinated?

BLOCKCHAIN
care



How it it?

Store & Transport



Dispense



Prepare



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Shortages of COVID-19 Emergency Equipment in U.S. Cities

<https://www.usmayors.org/issues/covid-19/equipment-survey/>



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IBM's Rapid Supplier Connect:

Emergency supplier onboarding and inventory availability to get COVID-19 responders the equipment they need

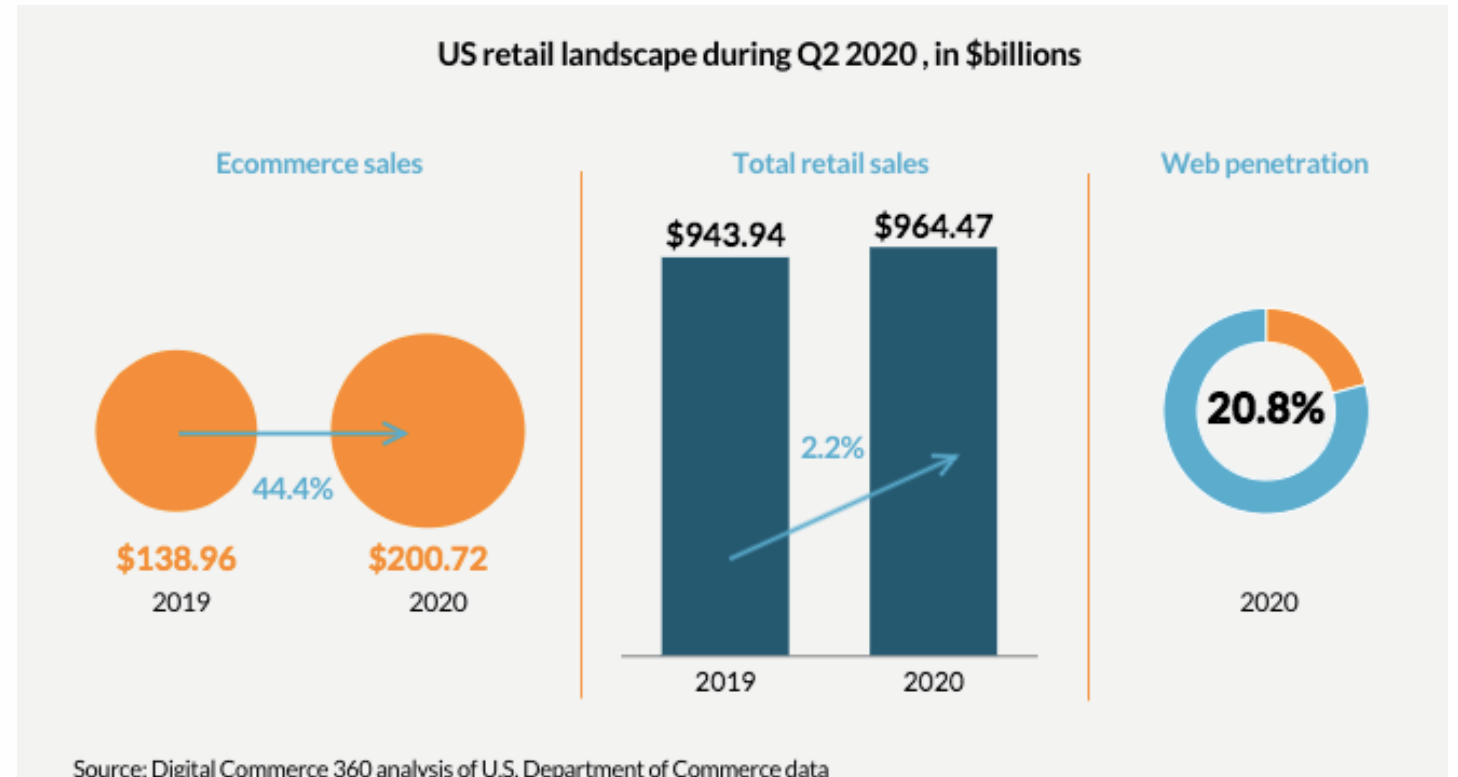


Rapid closes the gap between “need” and “have”.

- **Suppliers** will be able to create their own digital identity containing key information typically required by buyer's procurement organization.
- **Suppliers** will be able to list the medical equipment categories they support.
- **Suppliers** will post their inventory availability.
- **Buyers** will have a single source of truth for supplier information including the product categories they support.

The Changing Face of Retail

- Affect on Bricks & Mortar
- Inventory Impact
- Online Trust & Transparency

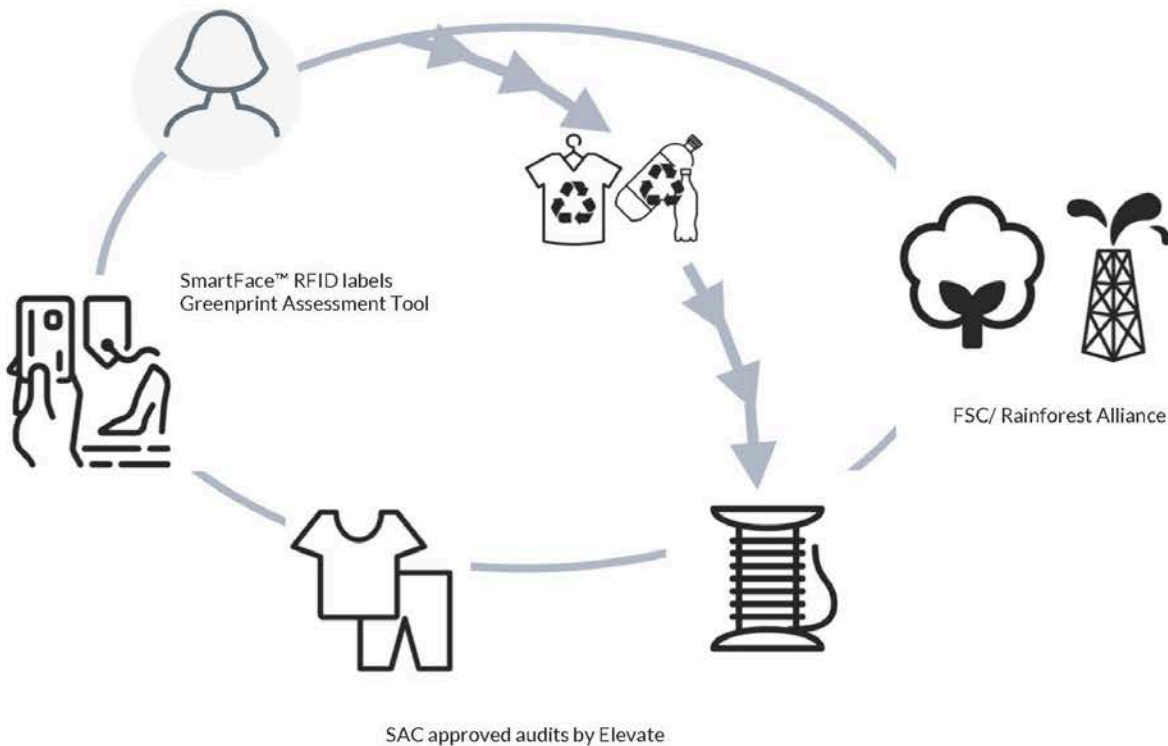


Digital Commerce 360, Aug 18, 2020

Blockchain in Circular Economies



Enabling Sustainability Data across Life-Cycle



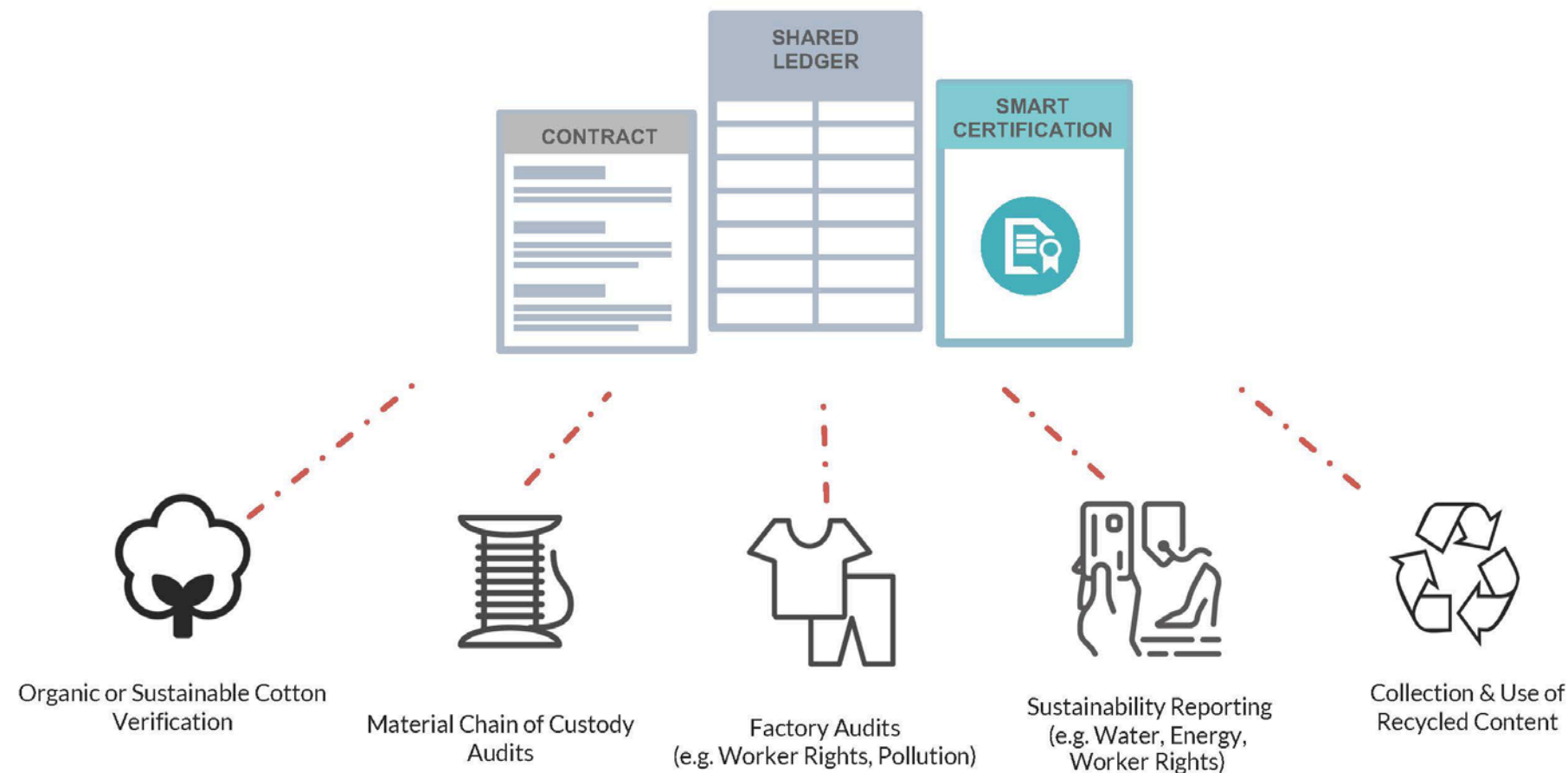
Sustainable Development Goals



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Blockchain for Business and Verification Efficiency



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Circular Economy

Freshness delivered as ordered is the key to the Circular Economy

When freshness is measured, made visible, and managed to brand's customer satisfaction standards, the rest is easy.

BLOCKCHAIN
reduce waste



Fresh Delivery



4



PROBLEM:

The biggest inflow of plastic pollution into the oceans comes from the world's poorest regions

Plastic Bank uses IBM Blockchain for Social Good

SOLUTION:

- Monetize plastic to create dignity and value in plastic collection and establish financial inclusivity
- Empower people to earn a livelihood to provide food, clothing, tuition, and access to doctor care for their families
- Establishing a new customer community for local retailers; data collection provides helpful analytics
- Enable corporations to support sustainability and UN SDGs



75%

Of consumers believe brands can change society for the better



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Future of Blockchain



everledger				Unlisted Securities
			Borsa Italiana	
ring & cement	U.S. Customs and Border Protection	Provenance	SBI	
	MÆRSK			FDA
BNI	Global Trade			Healthcare
		Belastingdienst		
entity	Scotiabank	Insurance		
BMO	Distributed Energy			Tennet
		ENERGY BLOCKCHAIN LABS		

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Questions or Comments?



THANK YOU

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USE OF BLOCKCHAIN TECHNOLOGY DIAMONDS & GEMSTONES

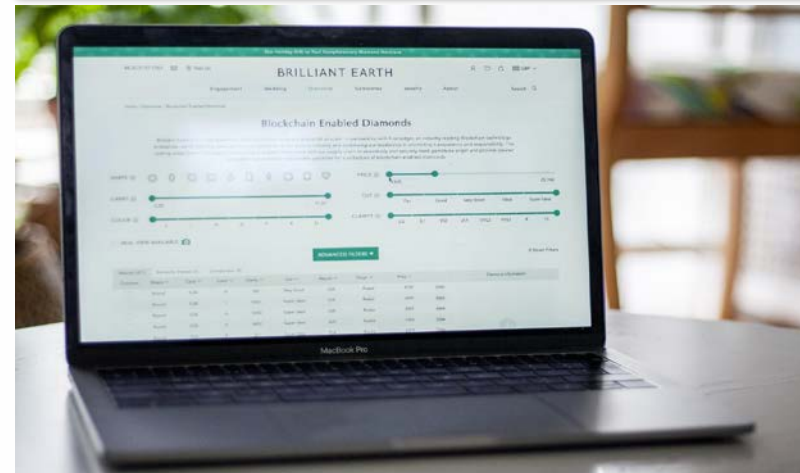
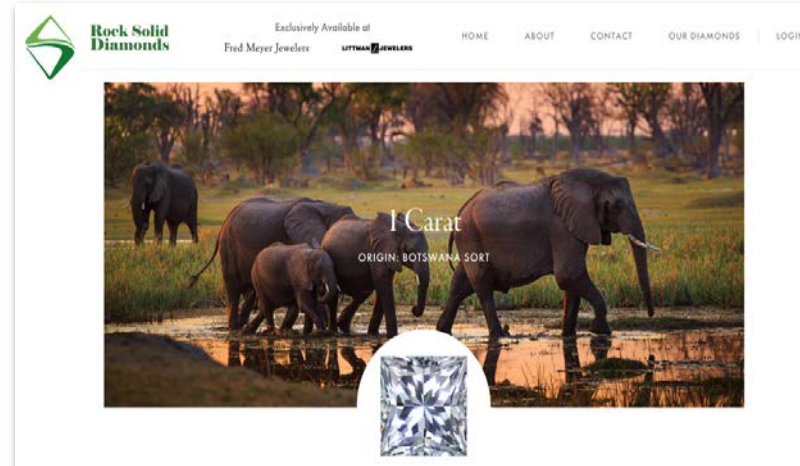
How our tech platforms adds value to the industry via increased levels of transparency.

Traditionally Opaque Supply Chains.

Provenance as value creation, enhanced customer experience and brand equity preservation.

How an open source blockchain platform can capture asset data from mine-to-market, connecting globally-dispersed **peer-to-peer networks**

Fred Meyer Jewelers



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VISIT WEBSITE

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Future of Blockchain

Community-grown food

Shelf life monitored from planting to delivery,
Traded, bought, sold via internet
neighborhood marketplaces

Fresh
Flavor
Care



SHOP Your Internet
Neighborhood
Marketplace



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A Forrester Emerging Technology
Projection: Total Economic Impact™
Study Commissioned By IBM
July 2018

Emerging Technology Projection: The Total Economic Impact™ Of IBM Blockchain

Projected Cost Savings And Business Benefits
Enabled By IBM Blockchain

Visit:

<https://www.ibm.com/blockchain>



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