

Digital opportunities in supply chain communication

October 4th, 2018

Viaware

Agenda

- Introduction Viaware
- Risk management and communication – today
- Digital opportunities – today – tomorrow
- Digital opportunities - future – Blockchain technology



Viaware - Food contact safety

Viaware's mission is to help protect consumer health by improving safety of Food Contact Materials.

We develop and sell a software tool for food contact materials risk management and communication - FOCOS

Standard secure web based IT application (SaaS) with possibilities for customization

Risk management and communication - today

Why?

To ensure the safety of FCM along the chain



Risk management and communication - today

Simplified representation of the Food Contact Material Supply Chain and information flow



Today: Document (PDF) transfer (digital) of legal DoC in the supply chain

- Differences in document interpretation will lead to higher chance of errors and missing information
- Time consuming and costly



Tomorrow: Data transfer (digital) communication in the supply chain

- Reducing errors (no expert opinion needed for interpretation of DoC)
- Improving efficiency (time and cost saving)



Digital opportunities – today – tomorrow

Raw material number	Raw material name	Supplier contact nr	Supplier	Product number	Product name	Dosing level
78445	AC Polyethylen	15885	Multipack Inc.	M3827	Multicolor 182	0,2
65896	ETHANOX® 310	19889	Betaplast GmbH	M3827	Multicolor 182	0,6
68874	Finawax E	18555	Finplast	M3827	Multicolor 182	0,05
77432	Crodamid ER Pulver	18774	Alphaware	M3827	Multicolor 182	0,15
69885	BOPP 1 FILM	17895	Ambipack B.V.	P1847	Plaston 34	0,45
65896	ETHANOX® 310	19889	Betaplast GmbH	P1847	Plaston 34	0,29
78445	AC Polyethylen	15885	Multipack Inc.	P1847	Plaston 34	0,26

Data exchange through Excel, XML or Json

Import data into your risk- and compliance management system

Or use an API to retrieve or store data from and to your ERP and other IT systems

Products Raw materials Testing CRM Messages Viaware
Christian Drenth

Focos Product and Members Import

The analysis of 3. **product-compositions-focos.xlsx** resulted in:

- Total number of rows: 6.296.
- Total number of discarded rows (contained empty cells): 145.
- Total number of products: 1.709.

Please note that:

- You can only import new Products.
- Raw materials that do not already exist will be created.
- Raw materials will be added as members with giving dosings.

Search for the product you want to import in FOCOS on product name or number.

Line	Raw material name	Number	Status in FOCOS	Action	Dosing
26	AC Polyethylen	78445	Found	Use: AC Polyethylen	20%
27	ETHANOX® 310	65896	Found	Use: Ethanox 310	60%
28	Finawax E	68874	Not Found	Create standard	5%
29	Crodamid ER Pulver	77432	Not Found	Create standard	15%
				Create standard	100 %

- Create standard
- Create standard
- Create generic + standard
- Create generic only
- None

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Digital opportunities - future - Blockchain technology

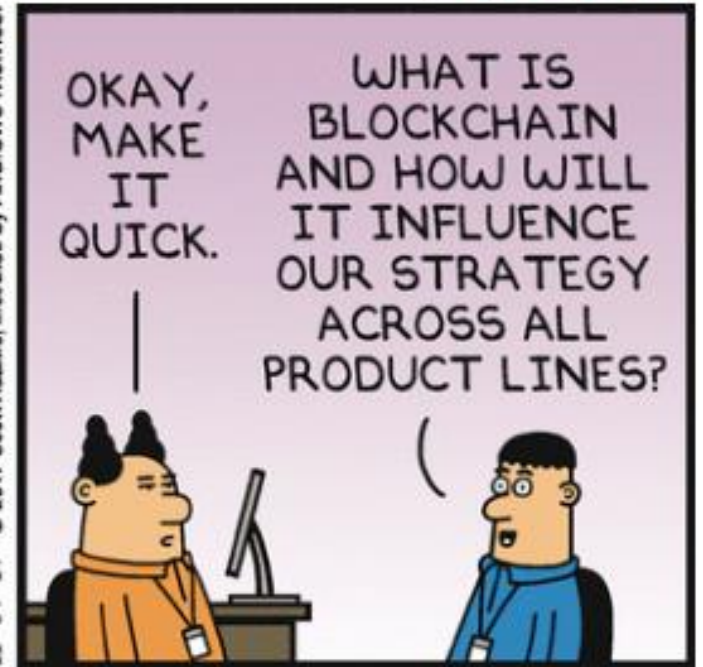
Tuesday November 07, 2017 *Barry Dingle Asks About Blockchain*



Dilbert.com @ScottAdamsSays



11-07-17 © 2017 Scott Adams, Inc./Dist. by Andrews McMeel



Digital opportunities - future - Blockchain technology

Blockchain for business

Shared, decentralized, access controlled ledger

Ledger = (big) database, read and write only, based on transactions

Fully decentralized with no central authority (trust)

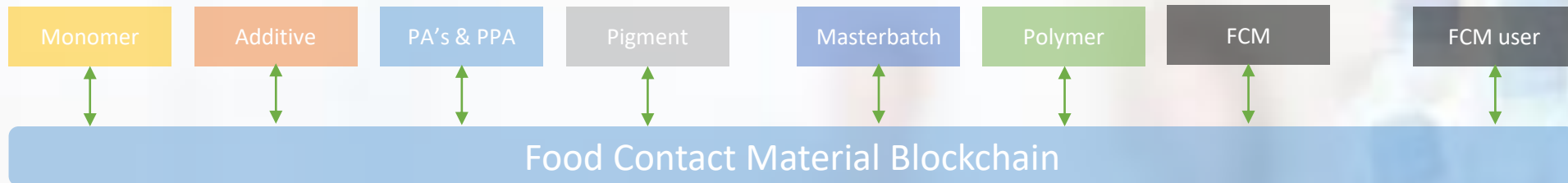
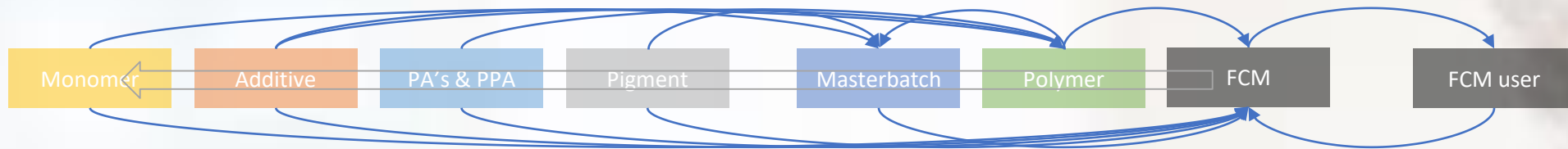
Increase traceability and quality of material supply (transparency and efficiency)

Reduction of fraud and grey market trading by improved supply chain transparency

Reduced administrative costs and paperwork (efficiency)

Digital opportunities - future - Blockchain technology

Simplified representation of the Food Contact Material Supply Chain and information flows



Future: Blockchain direct and controlled access to supply chain data

Transparent, efficient and trustworthy

Digital opportunities - future - Blockchain technology

Viaware recently started an initiative with IBM to develop and implement the “Food Contact Material Blockchain”.

Phase 1: Utilize the network, get stakeholders on board.

Interested? Join our initiative! Contact Viaware

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Food Contact Material Blockchain