



IN BLOCKCHAIN WE TRUST

Transforming the Life Sciences Supply Chain

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Imagine if innovations in the supply chain could keep up with the innovations in medicines and treatments?

We believe they can.

There are more new speciality products coming to market than ever before, such as pioneering treatments like CAR-T.

This involves extracting a patient's immune cells, modifying them, and sending them back to the patient.

As a result, Life sciences supply chains need to be smarter, more secure and more personalized than ever before and blockchain is here to help.

Blockchain has the potential to provide an entirely new level of security, traceability and accountability in life sciences.

Accenture's current projections for the blockchain services market estimates it will be close to \$7 billion by 2021. Within life sciences alone, blockchain technology could provide a \$3 billion dollar opportunity by 2025.²

That's no small number and what is exciting is that within the next three years, approximately 30 percent of health and life sciences companies plan to utilize blockchain, if they aren't already. This is happening now.

So what are some of the unique applications and benefits of blockchain in the supply chain?

One of the most complex life sciences supply chain challenges has been the ability to effectively track the origin of a product (or therapy) from raw materials to the finished product.

Blockchain technology is an ideal solution enabling a "digital passport" for a treatment that contains all relevant information for each component or ingredient, including instructions and patient adherence information from the packaging.

With the use of blockchain, supply chain partners can more effectively and securely share data across the supply chain and, eventually, with the end patient.

For example, think about Recall notifications -- once injected into the blockchain, they can initiate communication and alert messages to all affected parties (manufacturers, distributors, dispensers and eventually patients) – reducing costs and risks.

As the CAR-T example shows, temperature controlled environments are rising in importance.

Cold chain logistics need uninterrupted refrigeration production, storage and distribution. It is complicated and expensive.

Blockchain combined with technologies like IIoT (Industrial Internet of Things) can track storage temperatures at every point in a product's journey.

This enables supply chain executives to identify issues immediately and intervene across the entire supply chain.

Blockchain will help advance the quality and value of care, open new business opportunities, and help overcome current challenges. It's time. Let's do this for patients.

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