Tongadive

Technology Simplified

Role of Digital Ledger Technology (DLT) in Next Generation Pharmaceutical Supply Chain

The Scarcity of TRUST

Never in history have we had so many options, so little trust

Safe?

Ethically sourced?

Sustainably produced?

Recyclable?

Genuine?

Provenance

/ˈprɒv.ən.əns/

the place of origin of something

Regulatory Compliance

Some passports get an instant visa-free entry while others queue up at border controls

- ★ US FDA - More stringent requirements for track and trace of pharmaceuticals
- ★ EU General Food Law Regulation - Additional traceability requirements on Food and Feed products
- ★ UK Food Standards Agency - New provenance requirements for ingredients used in food products

Emerging trends in Pharmaceutical Supply Chain

- Serialised Data = Mobile Data
- Secure by Design
- Expanding Compliance Requirements
- New countries, new requirements

Compliance on Tap

Digital Twin

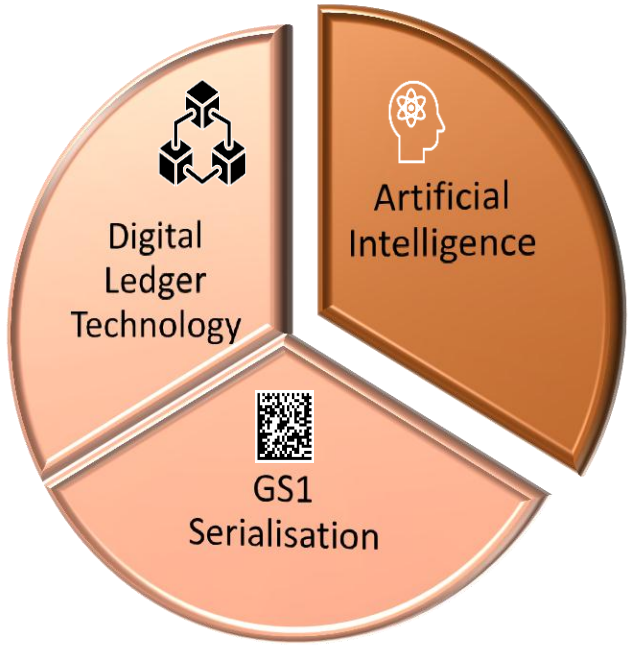
End to End Visibility

Sustainability

Predictive Analytics

Provenance based Trust

Direct to Home Healthcare Delivery



Food ⇦ Agriculture ⇦ Healthcare ⇨ Cosmetics ⇨ Jewellery

DLT and Pharma Supply Chain

Digital Ledger Technology (DLT)

DLT is a distributed, decentralised database managed by multiple participants across multiple nodes.

Blockchain is a form of DLT.

Permanent

Secure

Immutable

Blockchain Standard Features

Additional Pharma Requirements

Control

Scalability

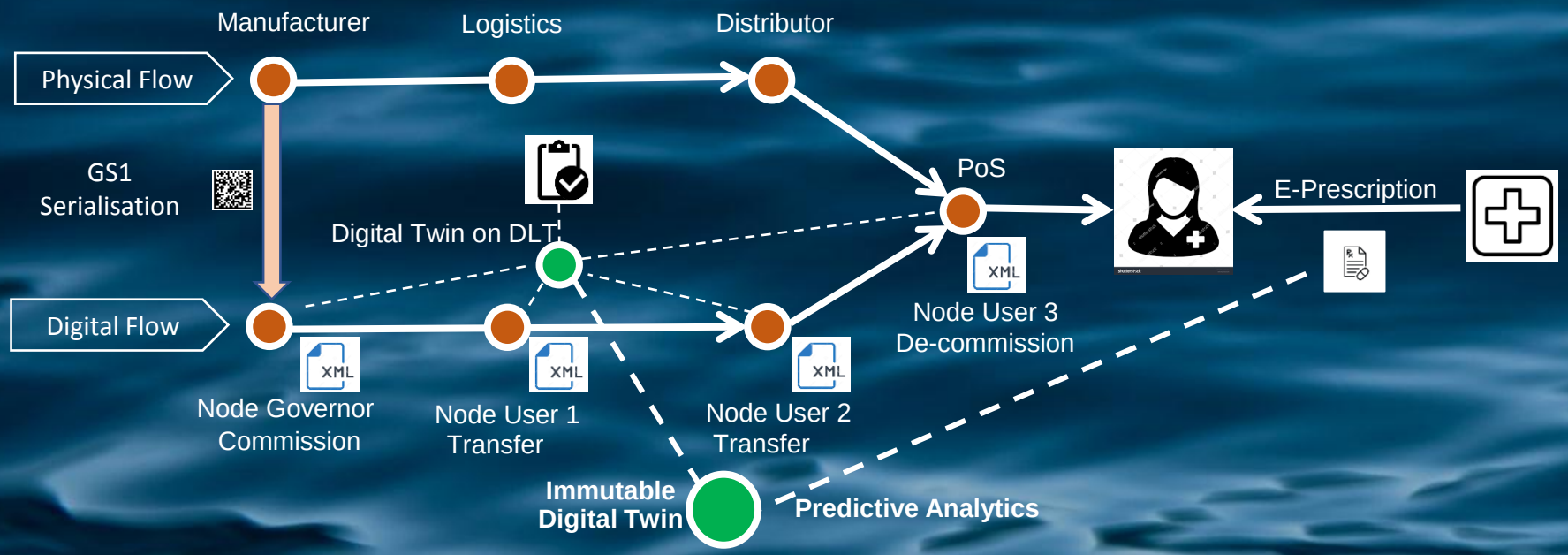
Privacy

HYPERLEDGER FABRIC

r3.corda

Azure Workbench

Next Generation Pharma



Features	Requirements
Secure by Design	Immutable 'Digital Twin '
	Embedded compliance
Just in Time	Accurate demand forecast
	End to end visibility
Sustainable	Recyclable
	Reduced Wastage
	Fewer product journeys
Consumer/ Patient Focused	Trust through Provenance Tracking
	Direct to Home delivery

GS1 Serialisation

+

Digital Ledger Technology

+

Artificial Intelligence

EVIDNT by Tongadive

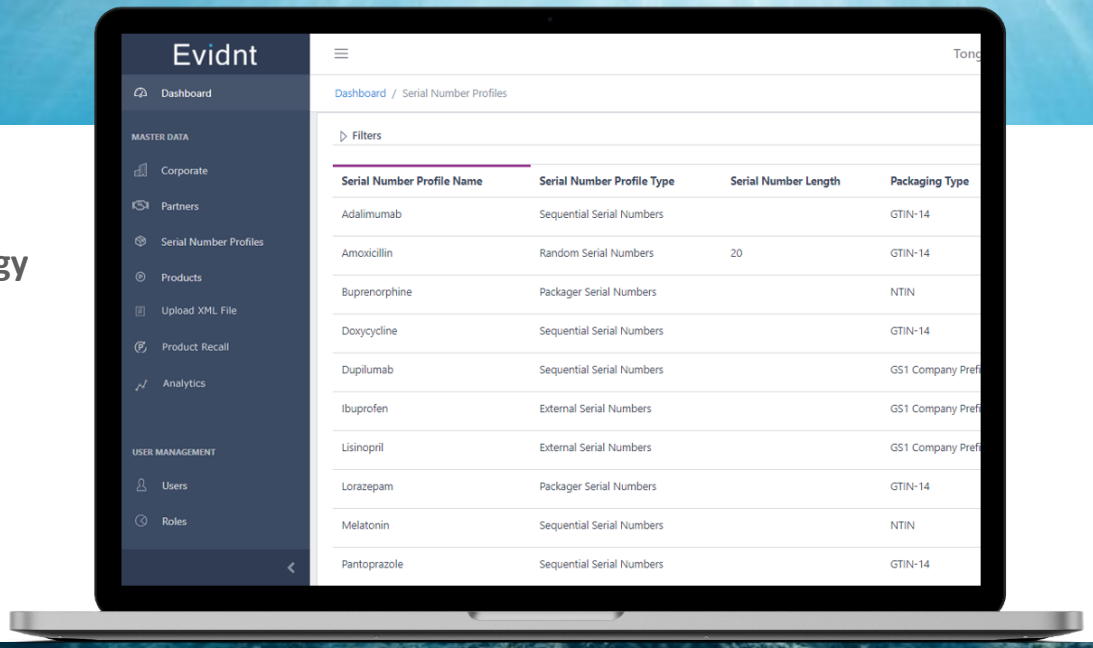
A lightweight, plug-and-play solution helping supply chain stakeholders build secure, immutable, trustworthy and transparent digital footprint of product journey from source to end consumer

Next Generation Data Matrix

Digital Ledger Technology

Machine Learning based AI

GS1 Serialisation



Track product's trust-based journey, conveniently and transparently!

Phase 1: DLT Blockchain enabled Compliance on Tap in Healthcare: Releasing December 2021

Phase 2: Smart Supply Chain with Predictive Analytics: Successful PoC with UK Government Funding (Innovate UK)

Distinguishing features of Evidnt

Immutability

Through Enterprise Blockchain /DLT platform

Compliance

Through GS1 Serialisation

Agility

Through Micro-Services Plug-Play Architecture

Interoperability

Through Cloud Deployment

Predictability

Through AI-based Advanced Analytics

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Story of the Begining...