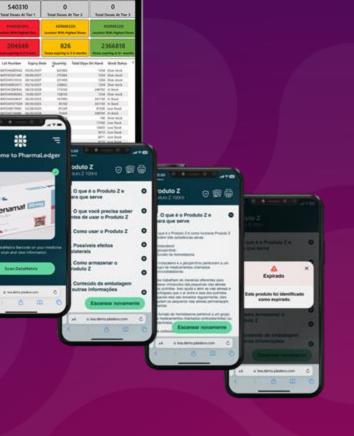


A collaborative approach to Building a Digital Trust Ecosystem: How Blockchain Strengthens the Industry & Patients

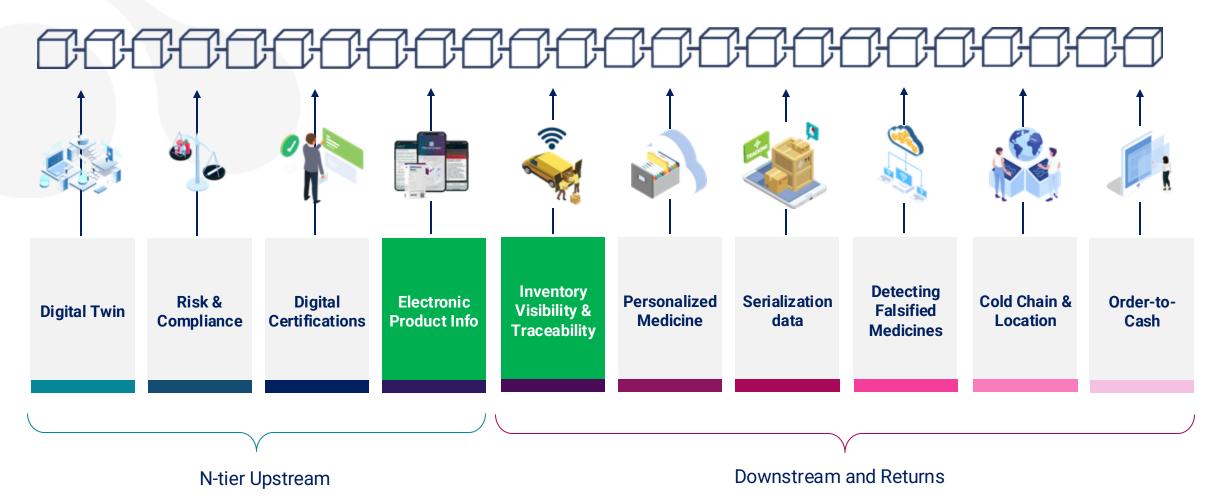
Over Mildelines



End-to-end Visibility, Traceability, & Security Vision



An end-to-end decentralized traceability solution is a win-win for all stakeholders





Inventory Visibility Insights

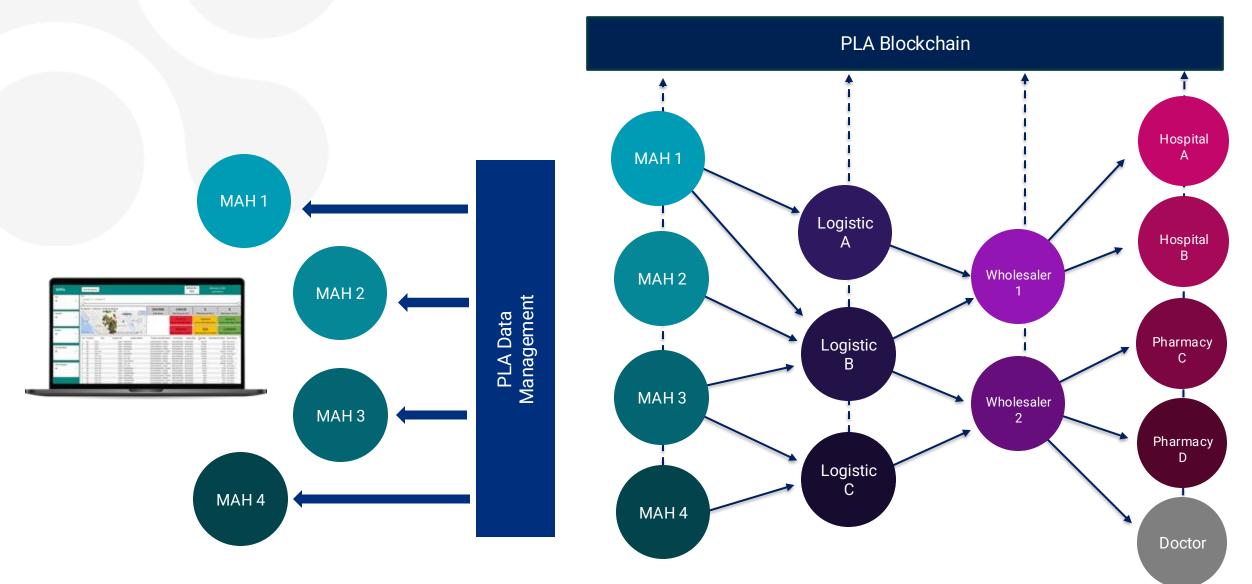
InVis stands for Inventory Visibility Insights a real-time, end-to-end visibility of pharmaceuticals across an international supply chain.

It connects all key players in the chain manufacturers, distributors, health authorities, and dispensers—into a **single, data-driven ecosystem**.



InVis in Blockchain





Key Features that make InVis Powerful



Secure, Near Real-Time Data

- Data shared daily via SFTP from all partners
- Data refresh visible on every page
- Ensures decisions are based on the most recent data available

February & 2025 Contact Us -PLA interest Reduced 2661988 540310 0 Total Onios lotal Doses At Tier Iotal Doses At Tax Total Dours At Tie 826 2366818 Unit there should (204 Over should of and besting 1204 Over minik animal in these 1204 Over shark

Advanced Filtering & Drill-Down

- Multi-tier views: from national authorities (Tier 1) to pharmacies (Tier 3)
- Dynamic filters for product, location, expiry, movement type, and more
- Drill-down into visual hierarchies (e.g., year \rightarrow month \rightarrow day)

Geospatial Intelligence

- Interactive maps show real-time status by geography
- Helps target interventions, monitor regional trends, and support logistics

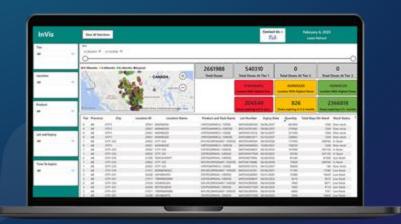


1. Daily Operational Pulse

The Daily Pulse page offers a **snapshot view** of:

- Total inventory levels and movements
- Locations at risk due to low or no stock
- Locations with overstock
- Doses dispensed, wasted, or shipped

It helps identify hotspots needing intervention—before they become problems.



The map shows stock status by location with colorcoded pins—easy to interpret at a glance.

2. Deep Historical Analytics

The InVis Analytics page gives **historical trends** over custom timeframes. You can track:

- Changes in stock levels (in stock, low, out, over)
- Movement types: shipped, dispensed, received
- Wastage: damaged, expired, recalled
- Comparison of current vs past dispensing performance

This enables **data-driven forecasting**, policy evaluation, and supply optimization.



3. Year-on-Year Comparison

The **Comparison page** shows **side-by-side bar charts** that compare any two time periods. This is great for:

- Seasonal demand tracking
- Evaluating supply efficiency year-over-year
- Identifying unusual consumption or distribution patterns



4. Shelf Life Intelligence

The **Shelf Life page** is designed to prevent wastage and ensure effective stock rotation by showing:

- Expired doses
- Doses expiring in **0–3**, **3–6**, or **6+ months**
- Location-specific insights: which sites are most at risk of losing inventory to expiry?
- Drill down by lot number, expiry date, and product



Who Benefits from InVis | Stakeholder Benefits

MOHs & Governments National-level visibility to manage supply equity

Wholesalers Inventory balancing across networks

Dispensers/Pharmacies Anticipate stock-outs or avoid overstocking Manufacturers Understand downstream demand, reduce waste, improve forecasting

The Big Picture

InVis transforms pharmaceutical supply chain management from reactive to proactive. It empowers stakeholders at all levels to:

Make better decisions faster

Reduce waste

Improve access to medicines

Enable safer, smarter global health supply chains

PharmaLedger





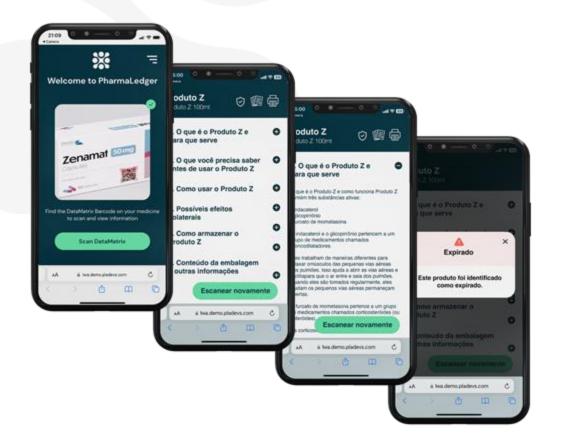
nodulo Z 🛛 🖸 🕼	@	Produto Z 🛛 🕑 🕼
t. O que é o Produto Z e sara que serve	۰	1. O que é o Produto Z e para que serve
2. O que você precisa saber antes de usar o Produto Z	•	O que é a Problet Z + contri funciona Problemina alterna
1. Como usar o Produto Z	•	- indecative) - gincarritres - function de monetacione
. Possiveis efeitos	0	C indexample a significant dramatics properties medicamentals chamatics increased assesses.
colaterals 5. Como armazenar o Produto Z	•	Eles hatahan as nanana dheelea an maar enaanda da peparte via ale
	0	factingois que s ar artes e sais the putri Quarto alles Mar lomaites regularmente, e quiden se priquerios visa almess permane
. Conteúdo da embelagem outras informações	•	oftention O functions de momentaisance performan e unit p
Escanear novement		Garanteer novement
al a leaderequidescore	6	aA a los demo pladevi.com

		site:
	ne a a Prophate Z a Sel serve	0
r	A Expirado	×
•	ite produto toi identifi como expirado.	
-	na arrestante a N Z	0
	nide de enteninge a antenneghen	•
	A balance patent con	-

假量



ePI by PharmaLedger™



PharmaLedger

Digital **Readiness**

As of January 2024, Brazil had approximately 187.9 million internet users, representing an internet penetration rate of 86.6% of the total population.

In 2025 PharmaLedger is gearing up to pilot the ePI initiative in full compliance with Brazilian regulatory authority, and adoption from some of the world's largest pharmaceutical companies.



Access to the most current and approved product information

All features available in Portrait or landscape format for mobiles and tablets



BRASIL



LIGHTWEIGHT AND PRIVATE

Lightweight App that does not require download or sign in

TEXT TO SPEECH FUNCTIONALITY

Produto Z

Produto Z 100m

para que serve

1. O que é o Produto Z e

2. O que você precisa saber

antes de usar o Produto Z

3. Como usar o Produto Z

4. Possíveis efeitos

5. Como armazenar o

e outras informações

6. Conteúdo da embalagem

Escanear novam

Iwa.demo.pladevs.com

colaterais

Produto Z

44

\$

0

0

0

0

0

0

0

10

Our app supports text to speech to increase accessibility



FONT SIZE ADJUSTABILITY

The font size can be changed up to 300% for better reading

MULTI LANGUAGES

Available in multiple languages unlike paper leaflets

ePI by PharmaLedger™ | Value Beyond Leaflet Information

BRASIL



eLeaflet type

For patients, a clear, easy-to-understand and user interactive. For healthcare professionals, quick access to pharmacological data and guidelines.



Printing feature

To promote equal access incorporating a printing feature is essential to bridge the digital divide.



Recall Notifications

Recall Notifications prevents patients from continuing to use a potentially dangerous medication.

ePI by PharmaLedger™

BRASIL



Host your node on PLA Network

Full control and "sovereignty" of data and environment, optimized performance.

Own node 10'000s of eLeaflets Influence over future of solutions **2.** Node as a Service

PLA is operating the node on behalf of a Manufacturer like Software as a Service

> PLA Node 1'000s of eLeaflets

3. eLeaflet as a Service

Quick ePI demonstrator capability at lowest cost designed for a limited number of leaflets

> PLA Node 100 eLeaflets XML Conversion

PharmaLedger Association Building trust in healthcare



Empowered Ecosystem An opportunity for all

The challenges inherent to Pharma Supply Chain Traceability encompass various stakeholders globally.

Only collaboration can be effective in building the end-to-end solution that delivers strategic change value.

Discover ways to engage with PLA today!

Interested in learning more?

Contact us today at info@pharmaledger.org

For more information on all PLA's projects, visit our Website



Scan to contact us

