

“Built by the industry for the industry”

AI readiness (*are you ready?*)



ECG

The Association
of European
Vehicle Logistics

Why AI?

WHO ARE WE?



COMPANIES



WHAT DO WE WANT?



AI!



SHOULD WE FIX DATA FIRST?



NO!



AI TO DO WHAT?



WE DON'T KNOW!



WHEN DO WE WANT IT?



RIGHT NOW!



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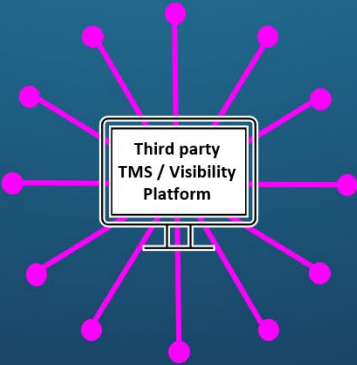
Fix the basics first:

AI only works when the foundation is in place

Key issues of non-AI readiness

- Fragmented data
- Unstructured data
- Quality (accuracy) of data
- Trusted data (*'know your source'*)
- Security of data

Solution



Centralized versus decentralized



Data ownership and control



Structured data in one format



(Double) encrypted security



'Single Source of Truth'

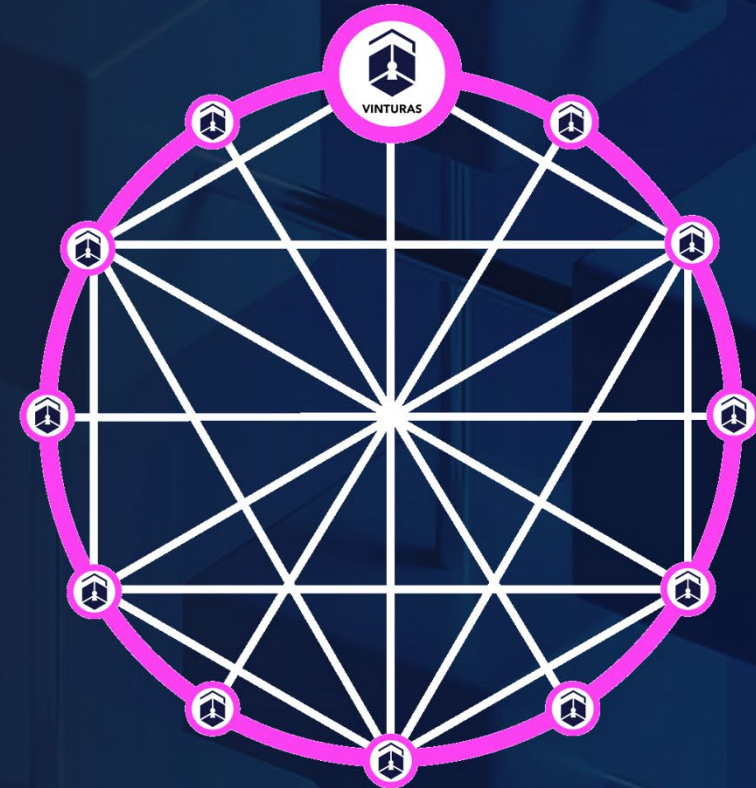


A blockchain enabled network solution provides what traditional TMS and visibility data platforms are lacking



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- ✓ **Tamper-proof, secure shared ledger**
between supply chain ecosystem trading partners.
- ✓ **Verified records**
for proof of delivery, compliance, invoicing and payments.
- ✓ **Instant action and communication**
between trading partners, based on immutable records.
- ✓ **Privacy within the supply chain ecosystem**
to control data and information access.
- ✓ **Historical and real-time data**
to power a new generation of supply chain AI and data analytics.
- ✓ **Maximum flexibility**
to connect any system application, customer, trading partner, supply chain node, trackable assets, and more.

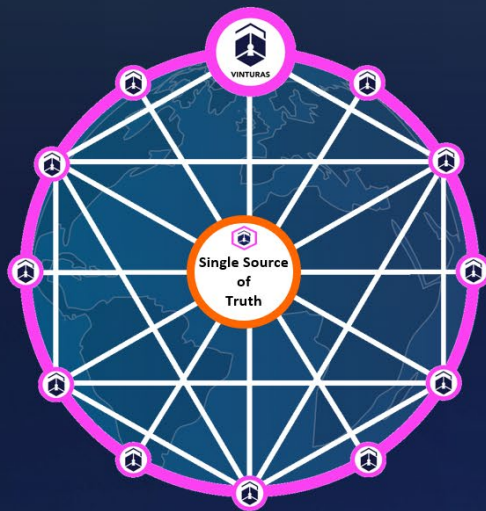


“The combination of blockchain technology and artificial intelligence is extremely powerful” *

* IBM, KPMG

‘Single source of truth’

Ecosystem interoperability-related data will be captured in your blockchain-enabled network and cloud database, and it creates a ‘single source of truth’ of immutable quality data, to be used for multiple AI purposes.



Benefits of combining Artificial Intelligence and Blockchain technology

1. AI and encryption work very well together

Data held on a blockchain is, by its nature, highly secure, thanks to the cryptography inherent in its filing system.

2. Blockchain can help track, understand, and explain decisions made by AI

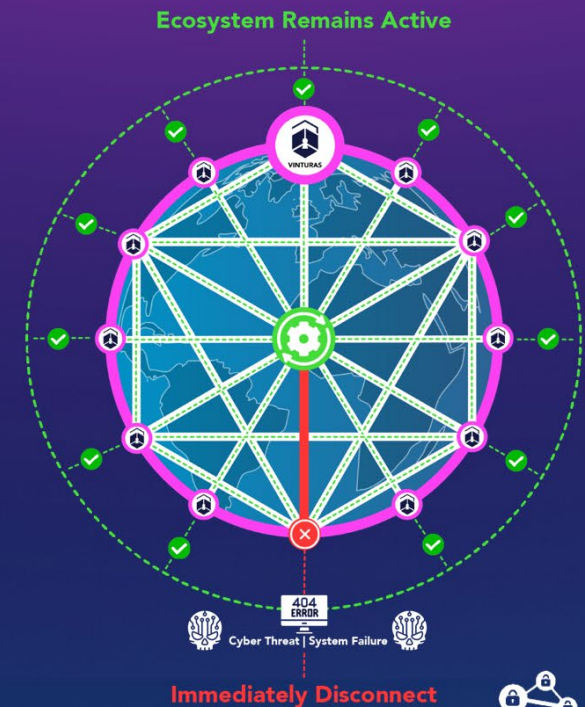
Decisions made by AIs can sometimes be hard for humans to understand. This is because they can assess a large number of variables independently and “learn” which ones are important to the overall task they are trying to achieve.

3. AI can manage blockchains more efficiently than humans (or “stupid” conventional computers)

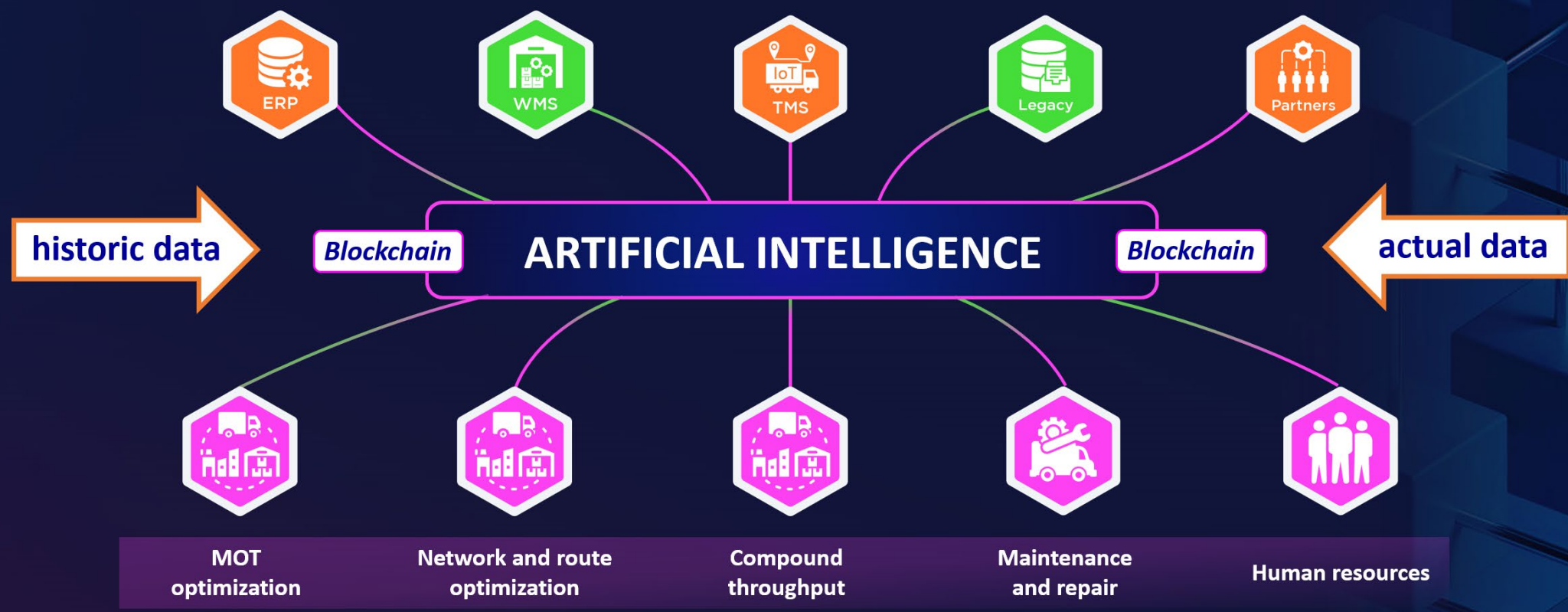
Traditionally, computers have been very fast, but very stupid. Without explicit instructions on how to perform a task, computers can’t get them done.

Highest level of data cyber security

Blockchain-enabled technology prevents your logistics and transportation ecosystem from going down, should there be a malware incident or a cyber attack directly or indirectly.



Artificial Intelligence in finished vehicle transportation and logistics ⁷



collect data → clean data → apply rules → find patterns → recommend/decide

Current state challenges

1) Data Integration Issues:

Inaccurate ETA, disjointed systems, and communication gaps result in missed optimization opportunities.

2) Manual Processes:

Manual load building and inefficient tools cause operational delays.

3) Inefficient Load Planning:

Reliance on manual interventions, outdated systems, and a lack of centralized optimisation, leading to increased empty kilometres.

4) Driver capacity utilization:

Inefficient driver allocation and a lack of load efficiency consideration reduce profitability.

Combined blockchain and AI solution

1) Data Integration via Blockchain:

Create a unified logistics data source, enabling secure, transparent, and real-time data sharing for better coordination and trust among terminals, drivers, and customers.

2) Operational Automation & Visibility:

Automate key processes like forecast synchronization, backhaul planning, and load assignments, reducing manual steps and improving responsiveness to demand changes.

3) Integrated Load Planning Optimization:

Automate load planning and backhaul optimization, improving utilization, reducing empty mileage, and enhancing communication across stakeholders.

4) Automated AI-Driven Recommendations:

Real-time re-planning and automated driver assignments based on proximity, ETA, and equipment compatibility, optimizing driver and asset utilization.

Direct Cost

Fuel costs and driver overtime:

10-20% reduction in empty kilometers

20-25% maintenance cost

15-20% improved asset utilization

Indirect costs and opportunity cost

Customer service

15-20% fewer manual interventions

New business attainment

30-40% improvement in capacity utilization

Cost avoidance

Reliability penalties:

10-20% cost avoidance through fewer customer OTD penalties

10-15% damage reduction

10-15% in driver retention improvement

Will jobs be replaced by AI?

***“Jobs will be replaced by companies
and people who know how to use AI”***

Michael Bush, CEO Great Place To Work



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VINTURAS

Your supply chain ecosystem's missing piece