



LA MOBILITÉ EST EN NOUS

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# The Impact of Blockchain Technology in logistic

- **Full digitized processes**
- **Monitors Performance History**
- **improved freight tracking**
- **Effective fleet or vehicle performance tracking**
- **helps to cut costs and also eliminate middlemen**
- **Maintains History of High-Value Assets**
- **Improves Quality Assurance**
- **Improves Compliance**
- **Monitors Real-time Freight Capacity**
- **Improves Payments and Pricing Processes**
- **Detects Fraud**
- **Prevents Theft**
- **Proves Provenance**
- **Allows You to Issue Smart Contracts**



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# Barriers to Widespread Blockchain Adoption

- **Lack of standards**
- **Cost**
- **Legacy system integration**
- **Maturity**
- **Government acceptance and implementation of global regulation**

**it's difficult to predict exactly when the logistics industry will experience wide-scale blockchain adoption**



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# 10 CRITERIAS IN ORDER TO ADOPT A BLOCKCHAIN

- 1- YOU NEED TO EXCHANGE PHYSICAL OR VIRTUAL ASSETS (OBJECTS, DOCUMENTS, DATAS...) BETWEEN VARIOUS PARTICIPANTS
- 2- A COMMON STANDARD : YOU WANT TO SHARE A COMMON SHARED VIEW ON A DATA STANDARD BETWEEN VARIOUS PARTIES (COMPETITORS, SUPPLIERS, DEPARTMENTS, ADMINISTRATIONS...)
- 3- A COMPLEX CHAIN OF VALUE : YOUR OPERATIONS ARE COMPLEX, SPECIALISED AND BRINGS TOGETHER SEVERAL INTERMEDIARIES WHICH IS ADDING COSTS AND DELAIS
- 4- GUARANTEED SECURITY : YOUR ACTIVITY REQUIRES A HEAVY AUTHENTICATION, FREQUENT CONTROLS A PROOF VALUED ELECTRONIC SIGNATURE
- 5- TRACING GUARANTEE : YOUR ACTIVITY INVOLVES A SUCCESSION OF EVENT FOR WHICH A PROOF MUST BE SHOWN WITH A GUARANTEE OF INTEGRITY



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# 10 CRITERIAS IN ORDER TO ADOPT A BLOCKCHAIN

6- IMMEDIATE TRANSACTIONS : YOU WISH TO AUTOMATE THE TREATMENT OF THE OPERATIONS AND YOUR TRANSACTIONS TO BE AS CLOSE AS POSSIBLE TO REAL TIME.

7- A SHARED SOLUTION : SEVERAL PARTICIPANTS WITHIN THE SAME VALUE CHAIN MUST USE THE SAME SOLUTION, IN ORDER TO GUARANTEE LESS FRAGMENTATION AND BETTER VISIBILITY

8- AUDITABILITY : FOR CONFORMITY NEEDS, YOU WISH TO SET UP A CONTINUOUS SURVEY OF THE AUDITS, WITH AUTOMATED CONTROLS AND CHECKS BY SMART CONTRACTS

9- CONFIDENCE : YOU WISH TO SET UP A CONFIDENT RELATIONSHIP AND A « COMMON TRUTH » BETWEEN THE PARTIES OF A VALUE CHAIN (INDIVIDUALS, COMPANIES, ADMINISTRATION, IOT ETC...)

10- BUSINESS PROCESS AUTOMATION : YOU WISH TO BENEFIT FROM BLOCKCHAIN PROGRAMABILITY AND THE SELF EXECUTION OF THE SMART CONTRACTS IN ORDER TO AUTOMATE YOUR BUSINESS PROCESSES



# SOME EXAMPLES

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- **BASF** together with **Quantoz**, developed a system based on the blockchain technology allowing to follow up intelligent skids in real time and to inform their customers and their distributors of delays, damages etc...
- **Nestlé, Unilever, Walmart** as well as 7 other food groups are working on the traceability of perishables goods using the Blockchain technology. Accelerate the access to reliable information will allow to reduce the sanitary risks in case of problems.
- **Maersk and IBM** are using the Blockchain technology to manage the international maritime freight between the various actors of the international supply chain. By digitizing this supply chain, the 2 partners want to offer a solution capable to manage the follow up of thousands of sea containers all over the world.
- **FNTR** together with a group of partners from the global ecosystem in transport, is building up a global data pipeline secured by the Blockchain technology together with the French Ministry of Transport and other administrations.



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**THANK YOU FOR YOUR ATTENTION**

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