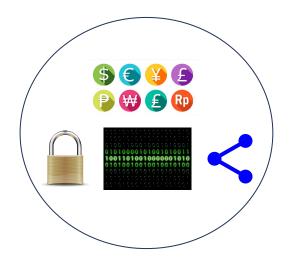
Daric

A Platform to create Private Digital

Currencies







What is Daric?

Daric is a software that offers a possibility for large companies, manufacturers, banks, holdings, consortiums, corporations, or organizations to launch own shared currencies or tokens to transfer financial assets or liabilities between customers, partners or employees of each other in a secure, easy, fast and flexible way.

Simple Definition for Daric

With Daric you can create a currency similar to Bitcoin that is valid only between you and your partners

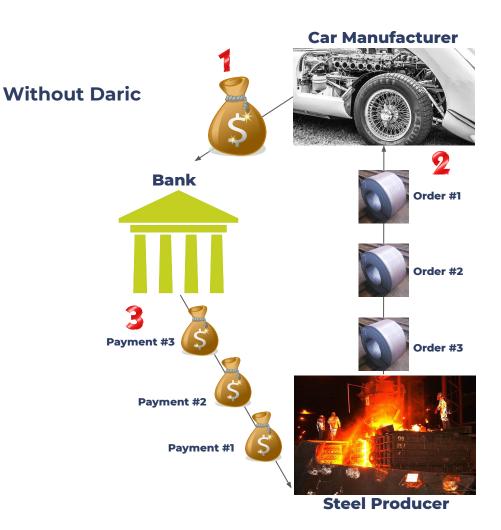
What are Benefits?

- Less dependency to banks
- More security against stealing

Business Model #1

An example of current usual trade model between a car manufacturer and a steel producer:

The car manufacturer orders to the steel producer and pays by a bank.

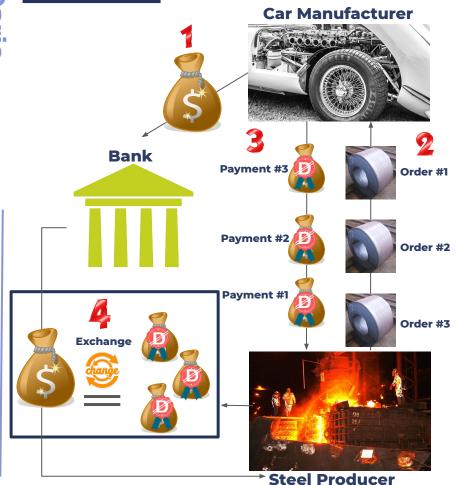


Create a currency

The car manufacturer and the steel producer create their own private currency with Daric platform





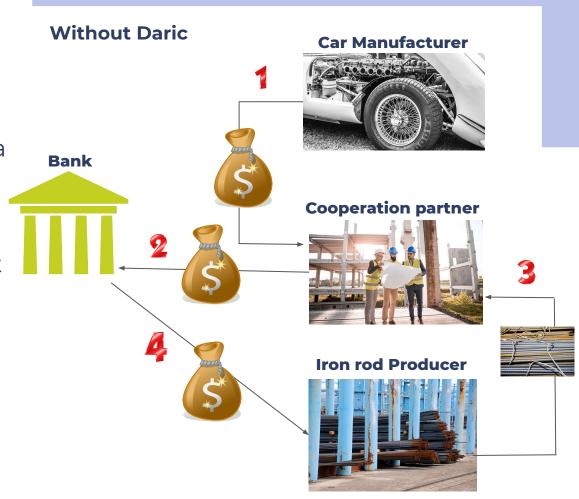


The Business Model #1 with the new currency

The car manufacturer pays with the new currency and steel producer can exchanges the new currency to a real currency. An advantage is less dependency and communication with the bank.

Business Model #2

The car manufacturer has a construction cooperation partner to build a factory building. It gives a budget with the new currency that the partner buys iron rod from a producer.



Business Model #2 with a Daric currency

The car manufacturer gives a budget with the new currency to buy iron rod by the partner from a producer. An advantage of method is more security. Because it uses a currency that is valid only between

the Iron rod producer
The car manufacturer.







A cooperation partner









Business Model #3

Car Manufacturer











Tier Producer











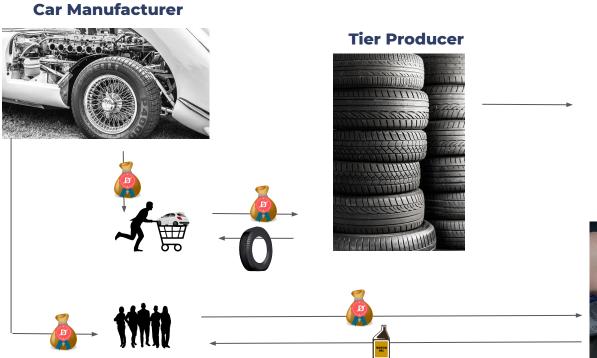










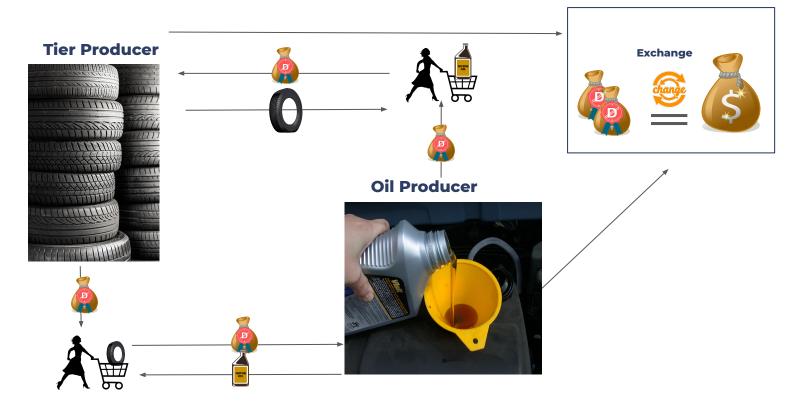


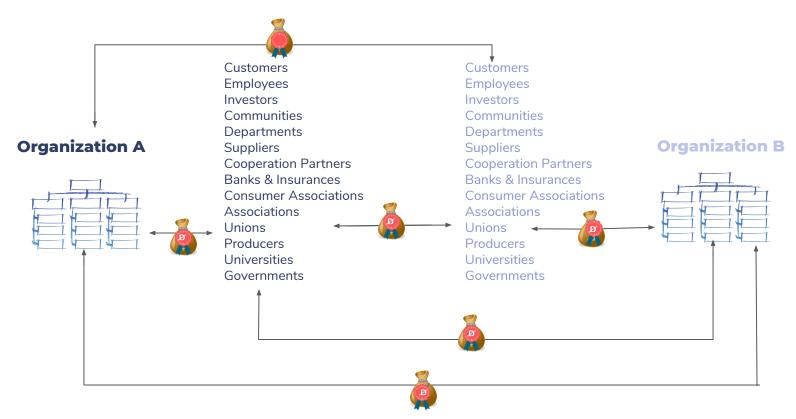


Oil Producer



Business Model #4





They can transfer easily assets to each other by a private currency with less bank communication and high security against lost, because the currency is valid only for two organizations and their stakeholders

How Org A and Org B trust to each other?

How a transparency is created between Org A and Org B for transferring tokens and a guarantee that the tokens can be exchanged to a real currency?

Daric is built on top of a platform that is called Hyperledger Fabric.

Metaphor for Daric and Hyperledger Fabric:



Daric

Hyperledger Fabric

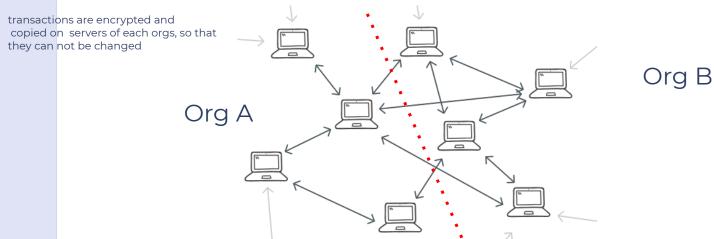
Hyperledger Fabric is a type of Blockchain Platform.







Blockchain is a technology that guarantees transparency. For example: Bitcoin has been built on basis of Blockchain.



Demo App to realize Business Model #1

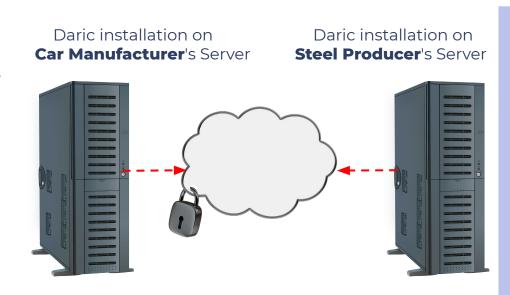
Daric is basically a core platform.

It means that it does not have graphical user interface. Because for every customer and client, a customized graphical user interface must be developed.

Demo App shows only basic features of Daric.

Demo Scenario

- The car manufacturer and the steel producer are going to create a currency for themself to trade steel.
- 2. They install Daric on their servers.
- 3. The servers connect to each other through a secure network.



Wallet

To transfer currency/token, it is needed to have a **Wallet**. It is a file that is issued by Daric platform.

To understand a wallet, you can consider Credit Card as a metaphor for the wallet.





To get money from an ATM, you must have a card and a PIN that it authenticates identity of card holder.

High security is gained from a two-factor authentication:

What you have = card And What you know = PIN



To authenticate an account holder in **Daric**, a wallet must be created by an account holder.

A **Wallet** is a <u>file</u> that contains account ID and a private Key that is encrypted by a password from account holder.



Security in Daric by:

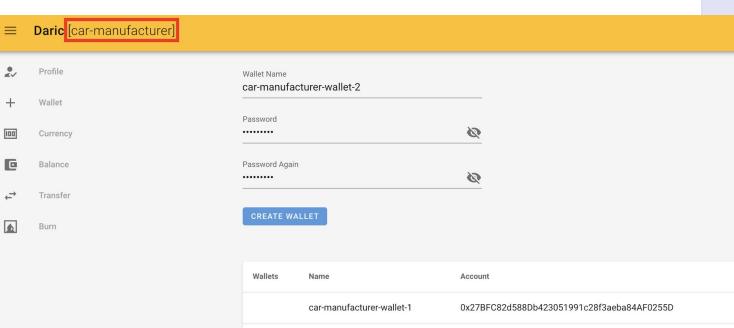
What you have = Wallet And What you know = Password

Sample Wallet

A Daric wallet is generated by libraries that is used in **Ethereum** crypto-cyrrency. It means, it is secure as well as wallets in Ethereum. Sample file name and content:

```
0x05D7Cf72f4D3B305dBb6d94d028573cAf33c8311.walet
                                                                                                               Account ID
        "address": "05d7cf72f4d3b305dbb6d94d028573caf33c8311".
        "crypto":
                 "cipher": "aes-128-ctr",
                 "ciphertext": "b92eb8794cfca02140ed589aaae486f712dd7f17f592f3c5ae608a1968e2d4ad",
                 "cipherparams": {
                         "iv": "fc67db8011047d5f37edef730159ade3"
                "kdf": "scrypt",
                 "kdfparams": {
                         "dklen": 32.
                         "n": 4096.
                                                                                                               encrypted private key
                         "p": 6,
                         "salt": "2f0eb9bd34a1230a98b62f1802b8c0ec2ef750a4adba56c0cb02ab4c3eebe
                 "mac": "b78f8a71f9d579c1e8afeb21bc8daae8524195b99cb46e59ba0f1c0a12182f4
        "id": "2c180817-cd37-4672-b7e9-132e55acf740",
        "version": 3
```

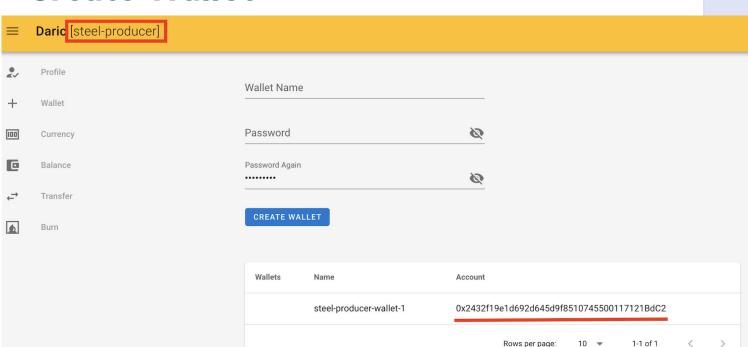
Create Wallet



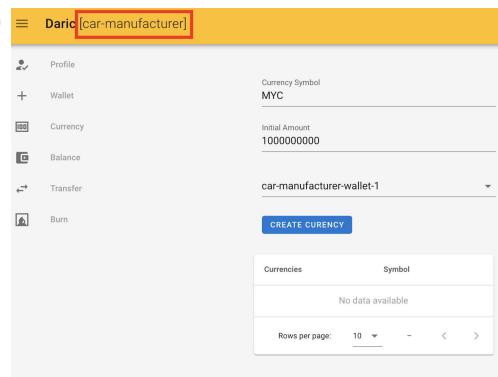
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Create Wallet

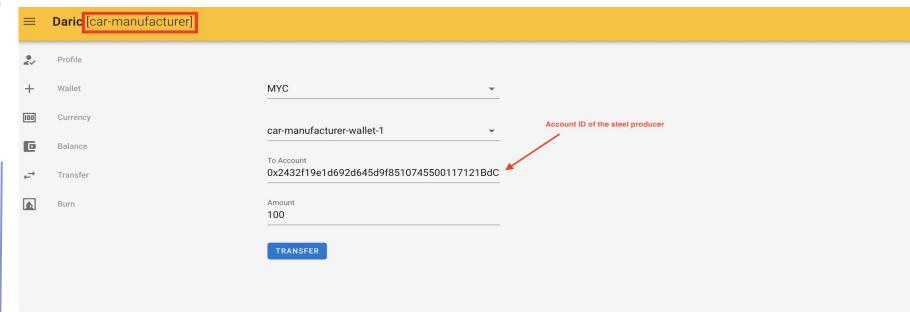


Create Currency

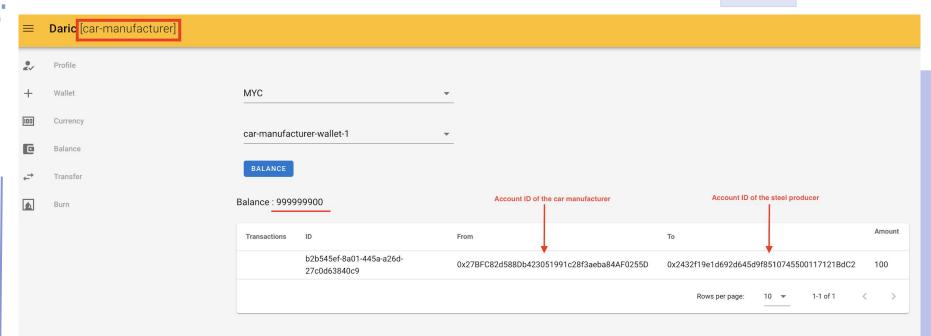


Transfer

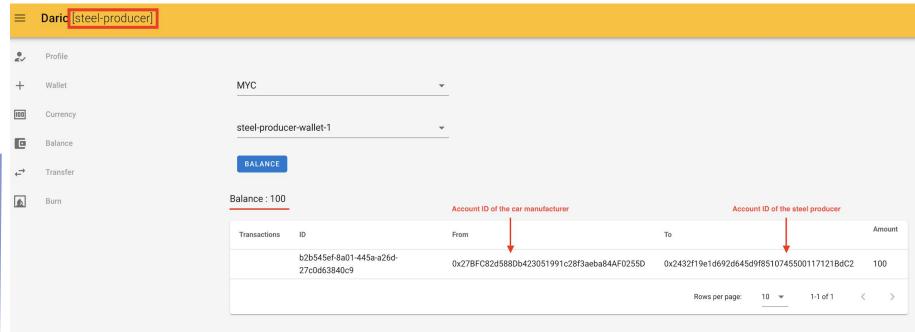




Balance



Balance



Transaction

Transaction with Transaction ID: **b2b545ef-8a01-445a-a26d-27c0d63840c9** is encrypted and copied on Daric installations in Car Manufacturer's Server and Steel Producer's Server

Copy of the transaction on Daric installation in

Car Manufacturer's Server

Copy of the transaction on Daric installation in

Steel Producer's Server

The Transaction cannot be changed, because it is encrypted and distributed between the Servers. So it is secured against any fraud.

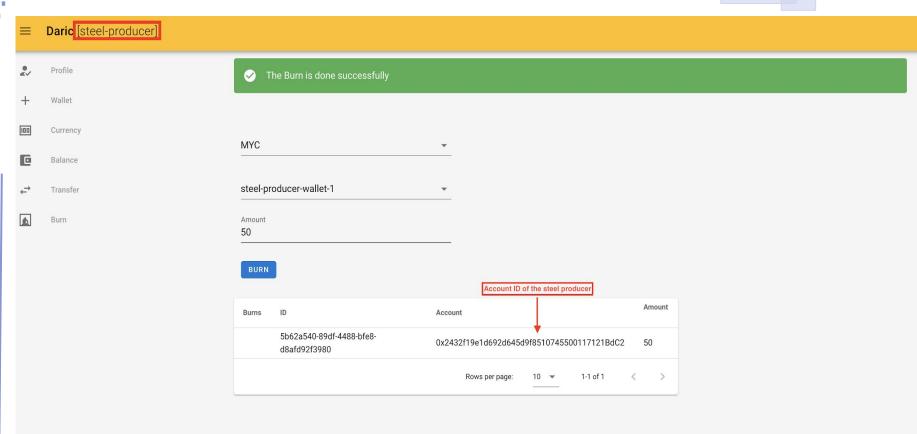
Burn Currency

What is the Burn?

The burn means to destroy value of some amount of a currency.
After burning, amount of burnt can no be transferred



Burn



Exchange to a FIAT currency

The car manufacturer and the steel producer agree that every wallet that burns amount of currency can get equivalent Dollar from a bank





Exchange



x USD = 50 MYC











Security

All transactions are encrypted during transferring by libraries that are used in Ethereum. It is Secp256kl cryptography method that is inspired from Bitcoin. So the security of Daric is as well as of Ethereum and Bitcoin.