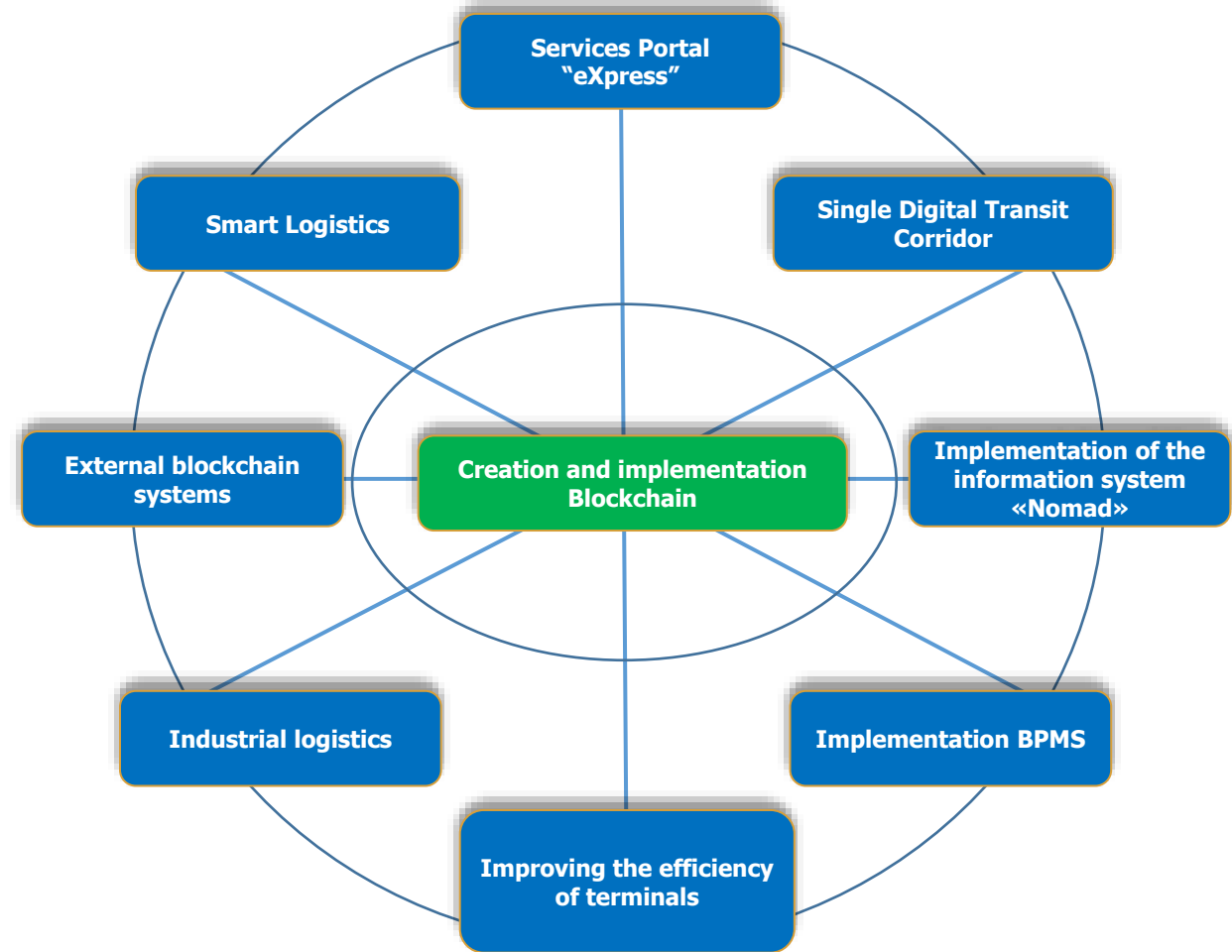




Project "Efficient Logistics and Seamless Transit" JSC "NC "KTZ"

April, 2022

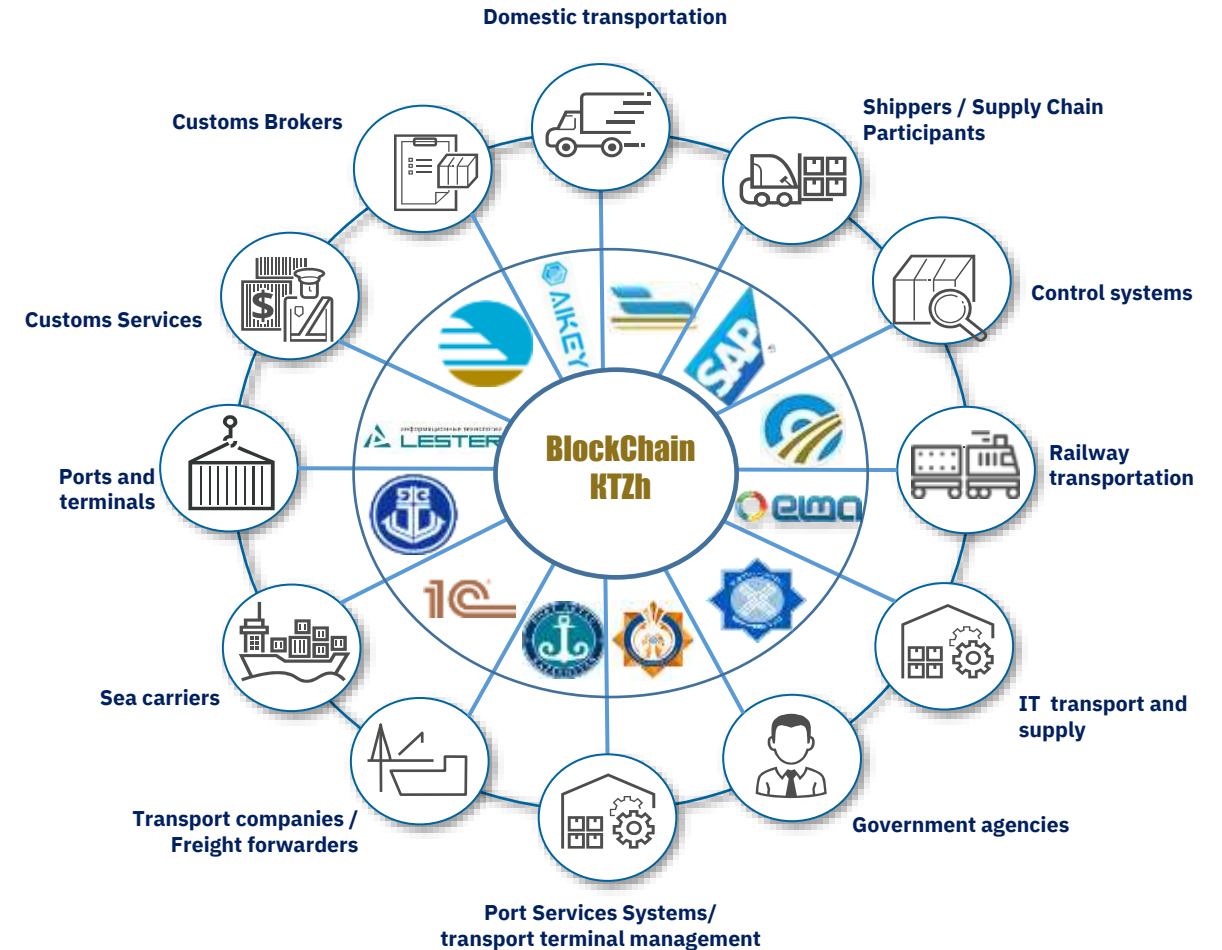


In order to improve the service and interaction of all participants in the supply chain, JSC NC "KTZ" initiated the program "Efficient Logistics and Seamless Transit".

This program involves the development of the logistics sector through the use of various IT tools.

The use of blockchain technology in rail transportation will greatly simplify and speed up a wide range of logistics processes in the field of rail logistics.

- ❑ Creation of an ecosystem that unites all participants in the supply chain (carriers, freight forwarders, land vehicles, ports and terminals, customs and other government agencies) on the Blockchain platform;
- ❑ Secured exchange of information throughout the participants of the transportation process;
- ❑ Implementation of a system of smart contracts (a set of rules, contracts, agreements and algorithms) to ensure the smooth operation of the data transmission system in a unified manner for the entire representation chain;
- ❑ Legitimacy of information for all participants in the transportation process;
- ❑ Integration with other public, enterprise, individual instance-networks and tools (open APIs, integration with operational manifestations, creation of external peers, etc.);
- ❑ Ensuring digitalization of cross-organizational business processes.



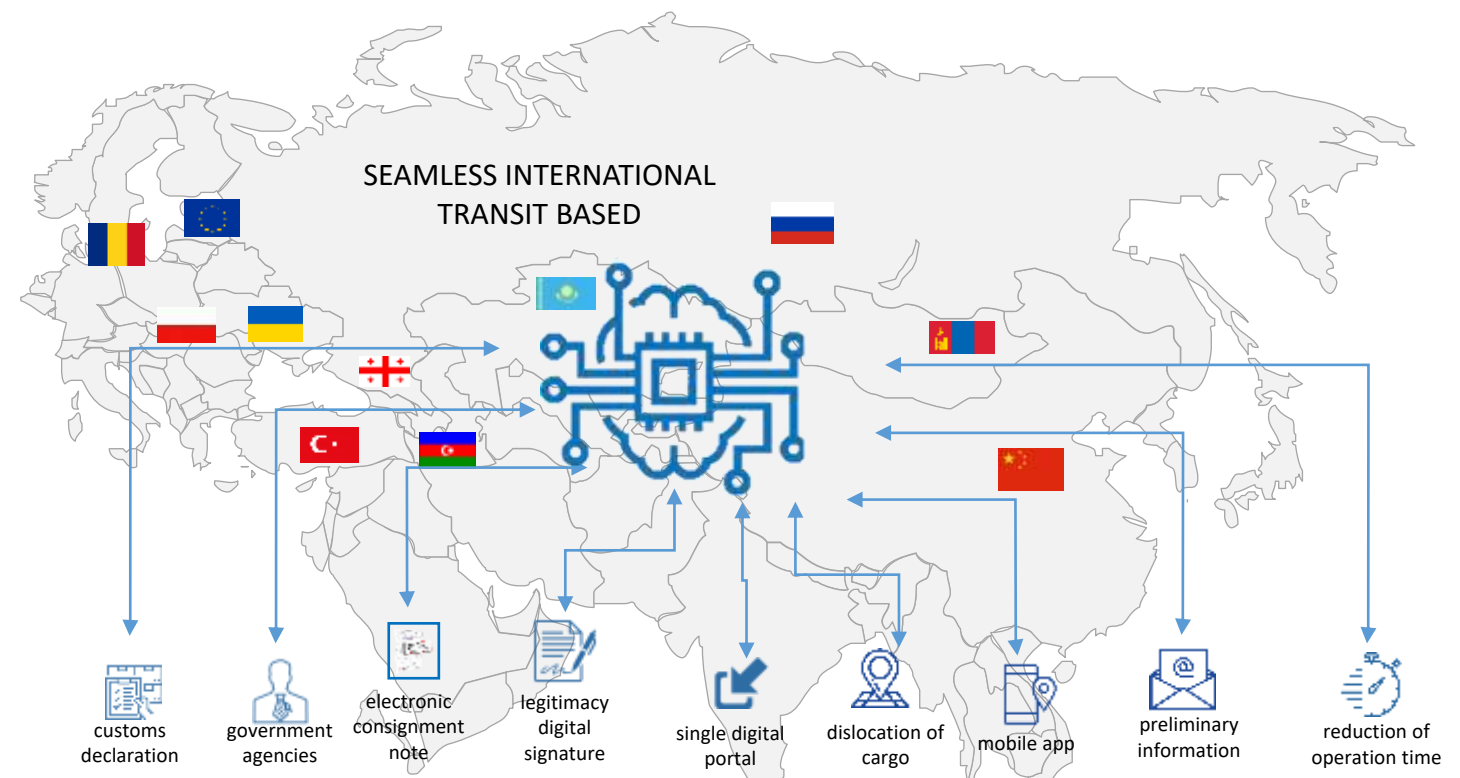
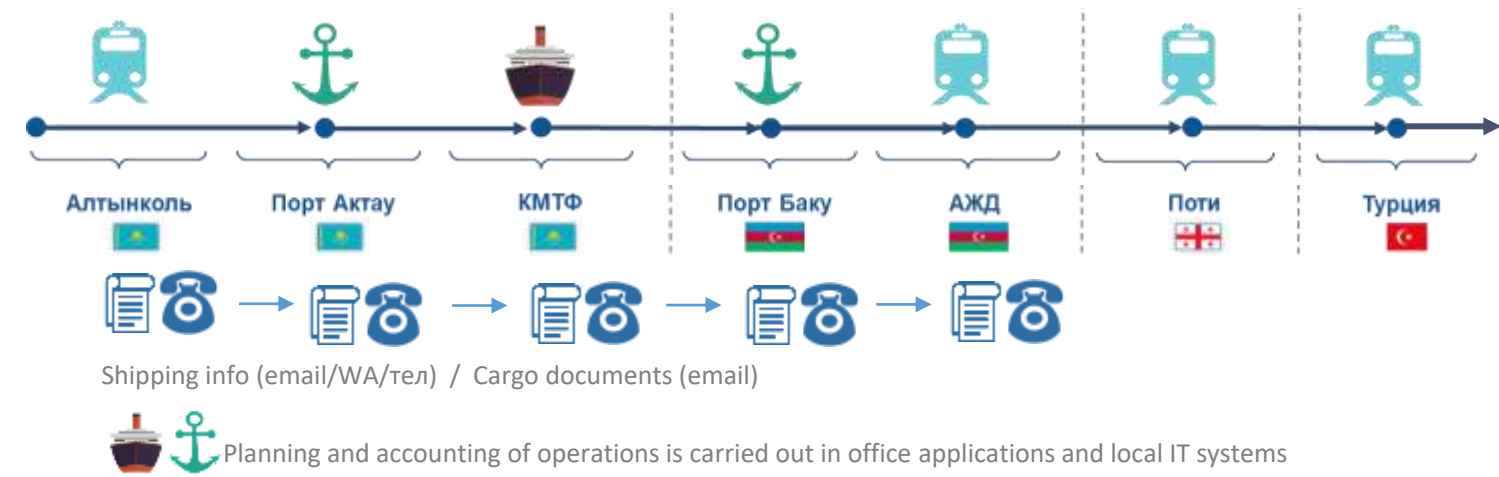
AS IS

- ❑ Lack of a single information space;
- ❑ Illegitimateness of electronic shipping documents;
- ❑ Long and resource-intensive procedure for processing cargo transportation documents at border crossings;
- ❑ Lack of consistency and efficiency in resolving disputes over the safety of cargo;
- ❑ Lack of advance information and transportation planning system

TO BE

- ❑ Creation of a single information space;
- ❑ Implementation of paperless document management technologies between cases to optimize resources for processing shipping documents;
- ❑ Creation of a single "window" for the organization of transportation on the entire transit route for all participants in the process;
- ❑ Reduction of idle load under customs operations due to load warning;
- ❑ Development and research of the algorithm of the main formations;
- ❑ Implementation of the idea of association/monitoring within the universal corridor

An example of registration of transportation along the TITR route



DIGITALIZATION PROJECTS

Creating a Single Seamless Transit Corridor

Smart Logistics

development and adaptation of:

- electronic exchange of orders;
- electronic digital signature;
- conclusion of contracts online;
- bank processing;
- insurance processing

Reengineering and optimization of business processes through BPMS

development and adaptation of:

- client's personal account;
- crm customer relationship management;
- cargo location tracking

Creation and implementation of the Block Chain platform

development and adaptation of:

- recognition systems;
- mobile app;
- algorithms and general rules;
- mobile applications and customer service

Digitalization of the ports of the Caspian Sea

development and adaptation of:

- directory integration;
- systems of decentralized databases of a single registry;
- smart contracts

IMPLEMENTED

Access to the service of single window



IN PROCESS

Access to the service of single window

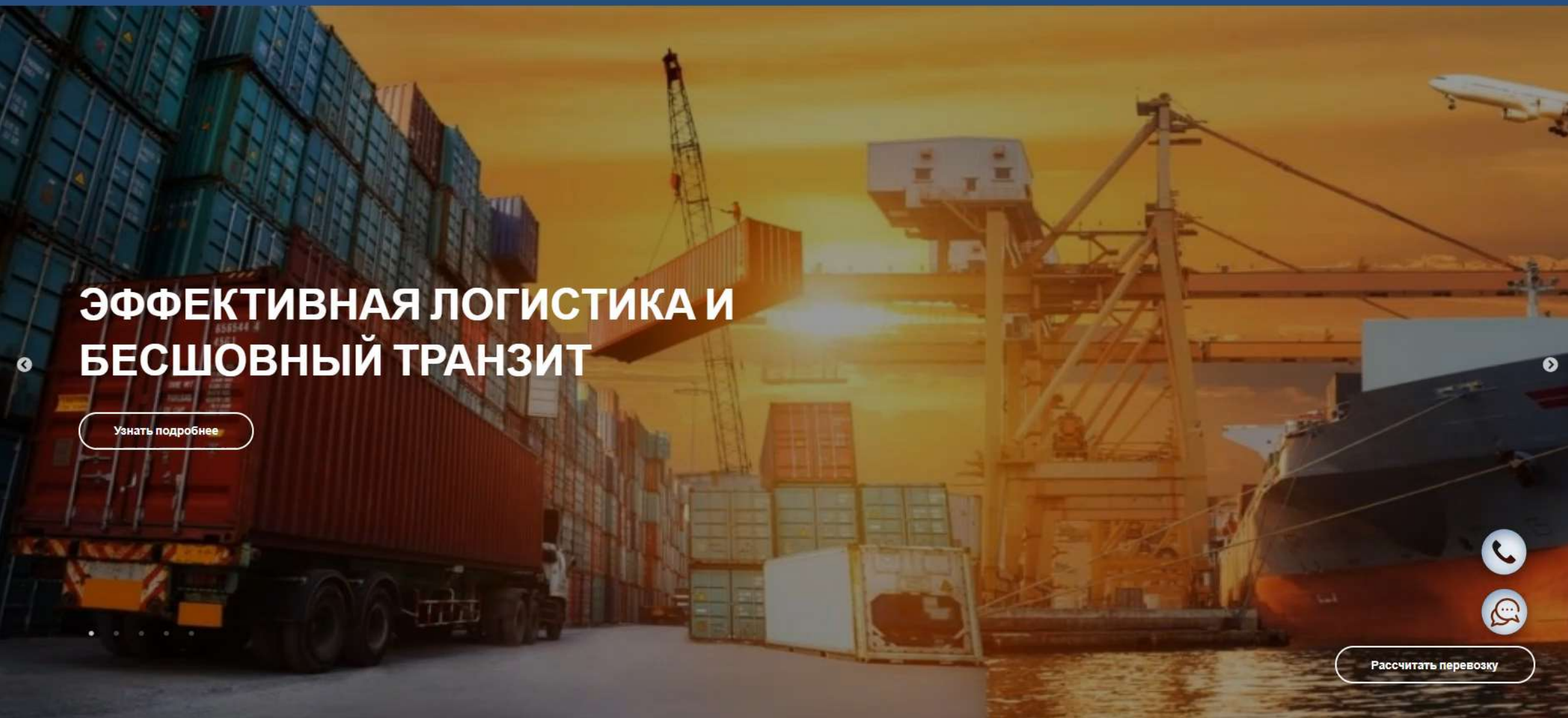




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IMPLEMENTED

Access to the service of single window



IN PROCESS

Access to the service of single window



DGREEN PROJECTS

Directions of development in the field of low carbon technologies

development and adaptation of:

- electrification;
- battery locomotive;
- liquefied natural gas;
- modernization of coal-fired boilers;
- absorption of greenhouse gases through forest planting

Creation of a single seamless transit corridor using Blockchain technology

development and adaptation of:

- the ability to calculate the carbon footprint on the website and in your personal account to inform the client;
- conservation of green spaces through the introduction of paperless technologies;
- save energy by minimizing the use of scanners and copiers

IN PROCESS

ҚАЗАҚСТАН ТЕМІР ЖОЛЫ



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