

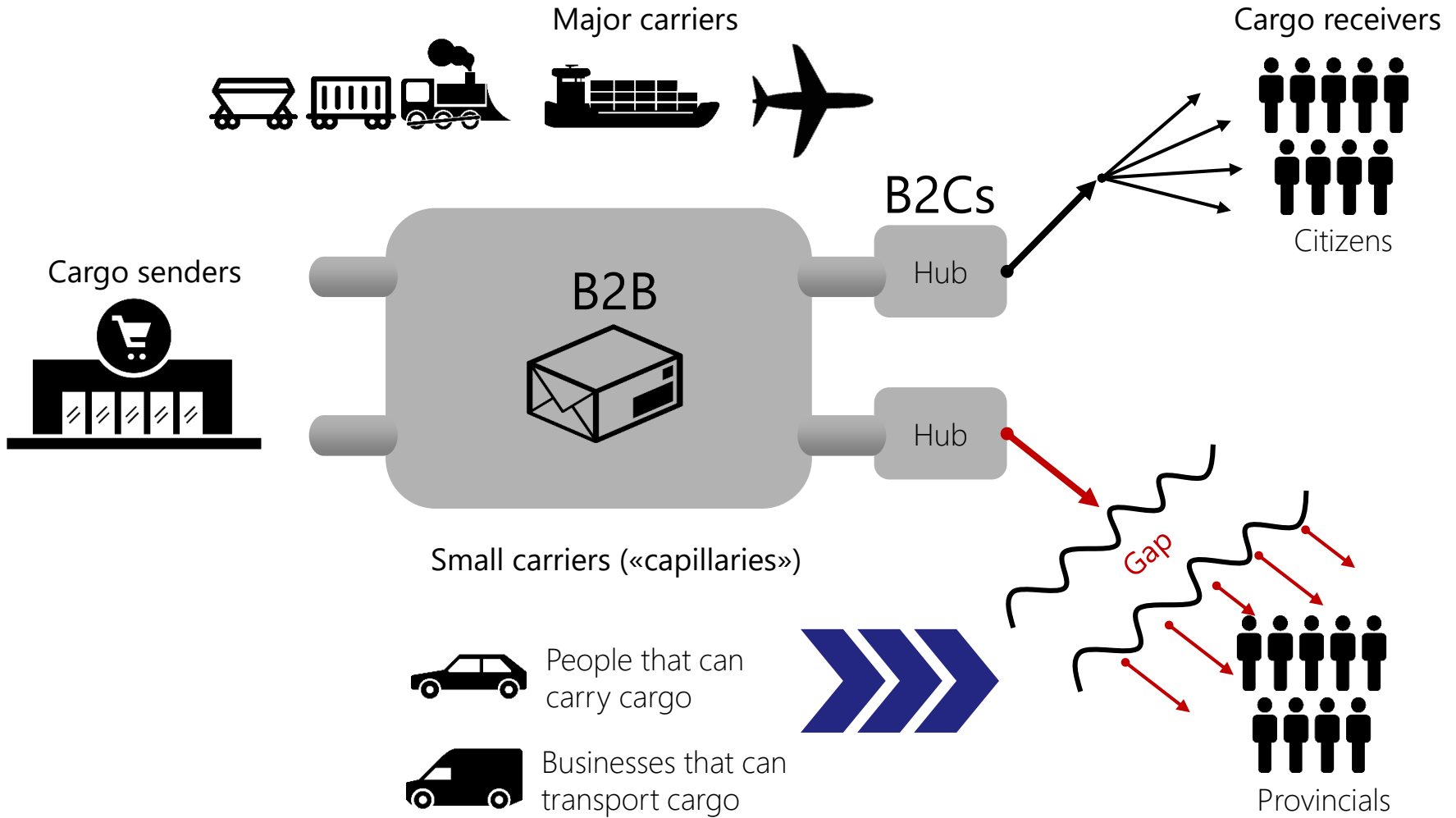
Logistics platform

Capillar.io

CIHT «Concept»



Problem

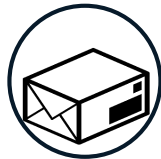


How Does It Work

Cargo receivers and senders sign a contract, that involves carriers



Cost of a contract =



Freight cost

+



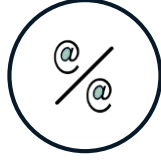
Cost of accompanying services
(cargo insurance, customs registration, money depositing)

+



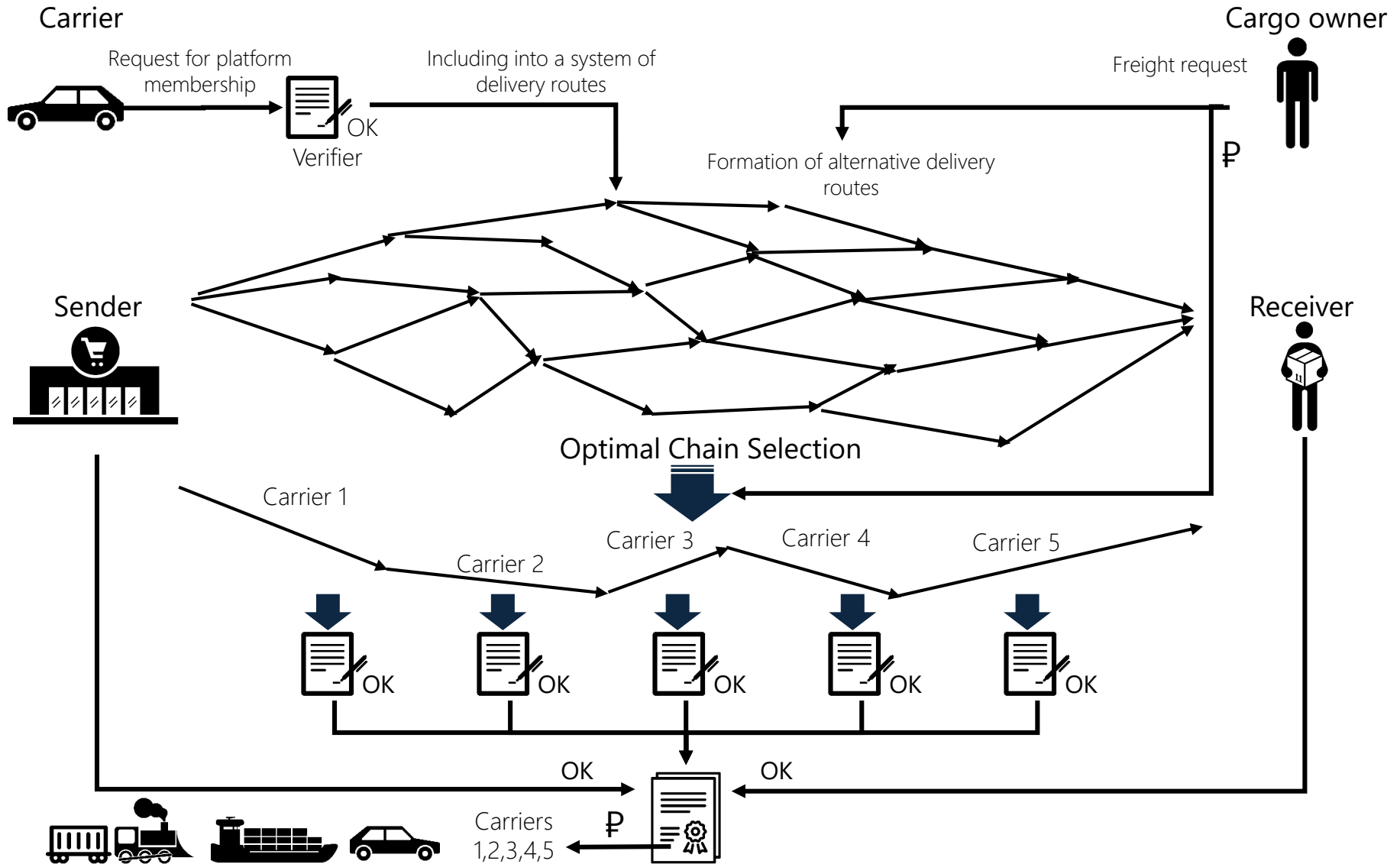
Cost of delivery services

+



Commission, collected by platform Capillar

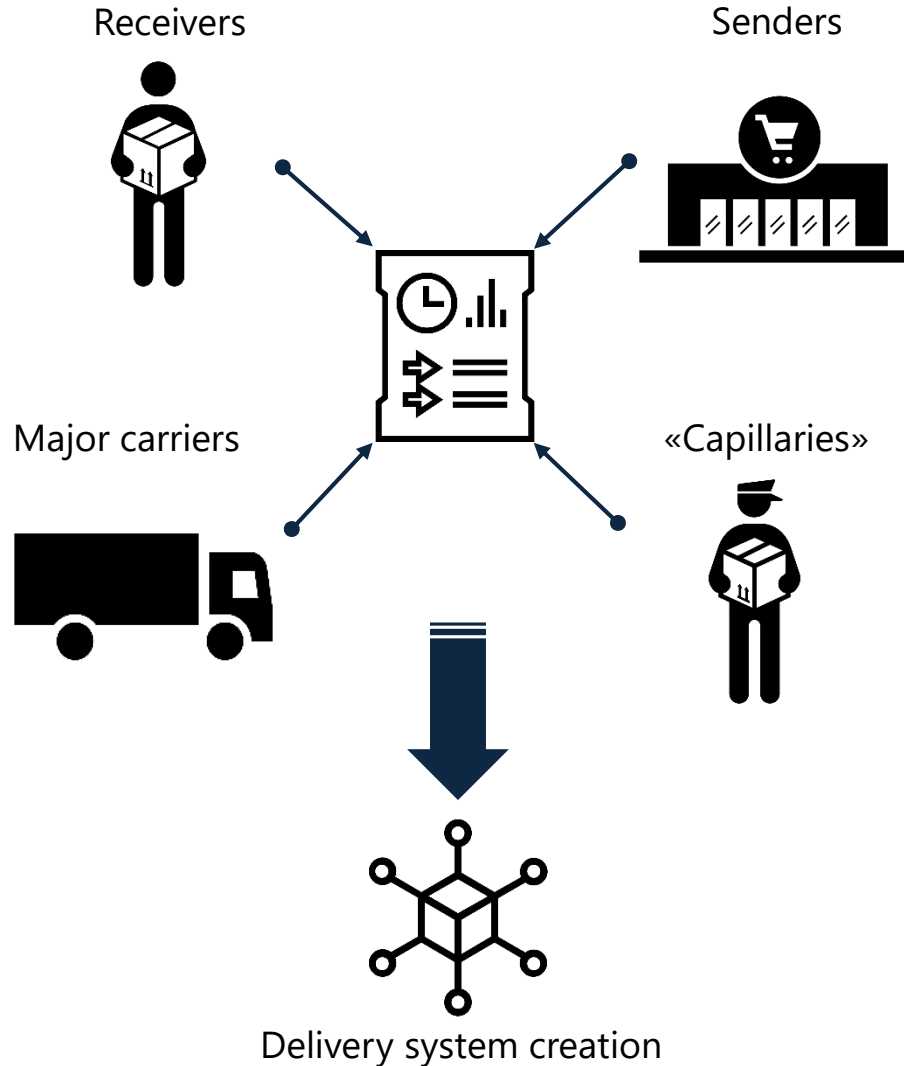
How Does It Work



Construction

- ▶ Product categories of interest
- ▶ Acceptable delivery cost
- ▶ Frequency of purchases
- ▶ Average check

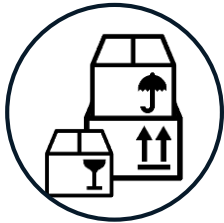
- ▶ Carried cargo types
- ▶ Service expected cost
- ▶ Delivery capacity
- ▶ Possible destinations
- ▶ Time windows



- ▶ Product categories
- ▶ Range of goods value
- ▶ Number of goods

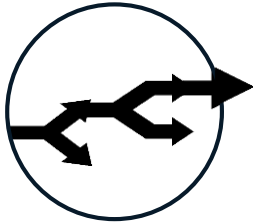
- ▶ Expected payment
- ▶ Possible cargo size
- ▶ Possible destinations
- ▶ Time windows

Support



Sufficient filling of the delivery channels

- ▶ Increase in number of platform members
- ▶ variety of carried cargo
- ▶ system connectivity (number of alternative routes)



Stimulation of "weak" destinations

- ▶ automatic redirection of part of cargo flow



Bonus system

- ▶ for new platform members involvement
- ▶ for long-term contracts
- ▶ for delivering to hard to reach areas

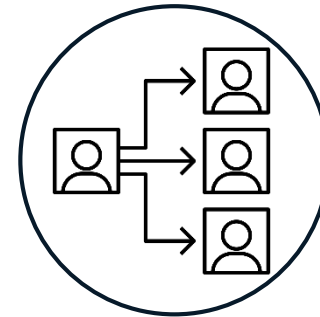
Development

Increase in connectivity
and cargo flow capacity
of the system



- ▶ Attracting new members
- ▶ «Horizontal capillaries» development by expanding the range of cargo types being delivered by major carriers

Modification and extension
of a member's functional role

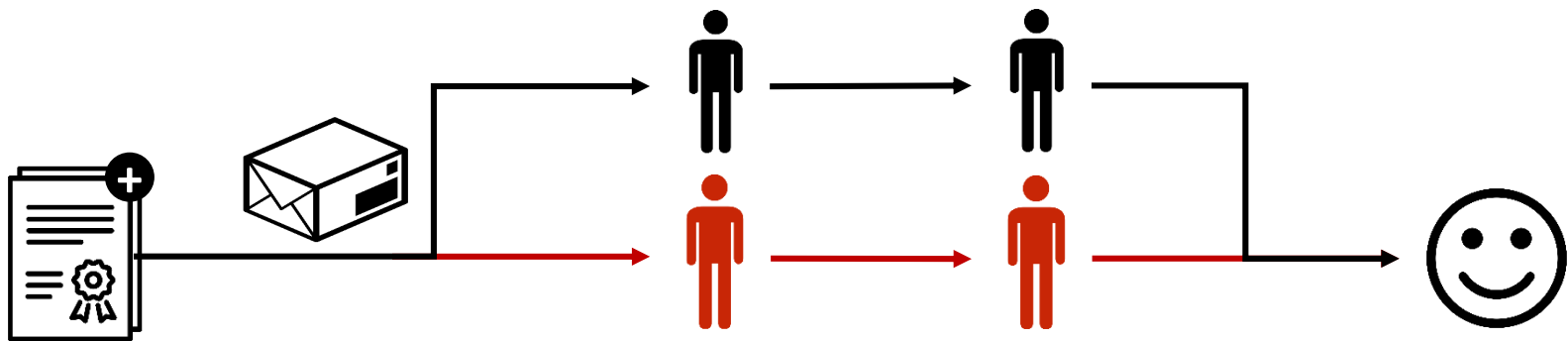


- ▶ «Capillary» becomes a transport node, collecting requests from acquaintances and performing them
- ▶ Backward (return) goods flow

Optimization

Bypassing ineffective system parts

- ▶ All commitments are to be performed by other system members
- ▶ Redistribution of paid tokens
- ▶ Automatic selection of alternative route
- ▶ Reconstruction of logistics network

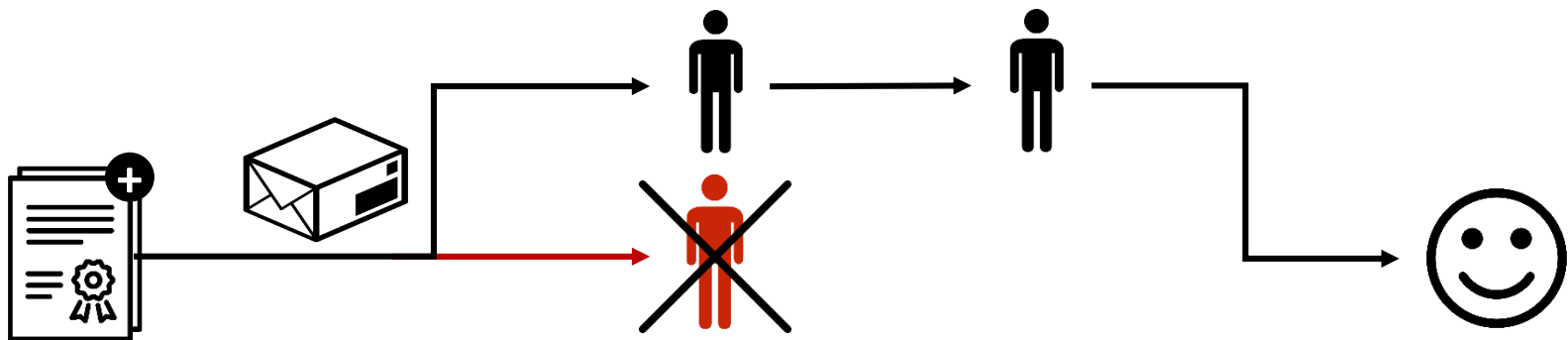


Insurance cases

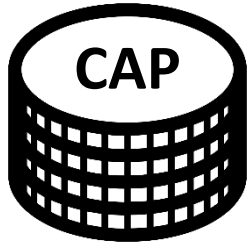
In case of emergency when it's impossible to deliver a cargo (some part of logistics network is destroyed)

Procedure for finalizing commitments

- ▶ Notification about discontinuing of a segment
- ▶ Blocking of new orders
- ▶ Activation of built-in arbitration
- ▶ Insurance payout

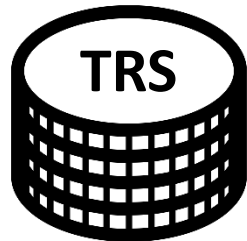


Types of tokens



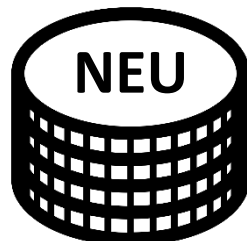
CAP tokens

- ▶ Distributed during ICO
- ▶ Can be traded through DEX
- ▶ Emission is limited



TRAN tokens

- ▶ Platform operations accounting units
- ▶ Information exchange between platform members
- ▶ Include characteristics of particular means of transportation
- ▶ Constantly emitted and «burned», maintaining the balance



NEUTRAN tokens

- ▶ Internal measure of platform services costs
- ▶ Can be traded through DEX
- ▶ Emitted after TRAN tokens are burned

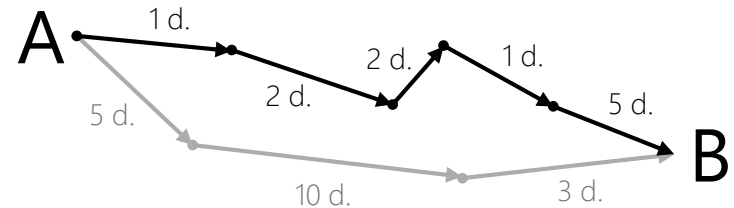
Optimal route

Optimal transport chain selection considering costs on each chain link

Several optimization target functions

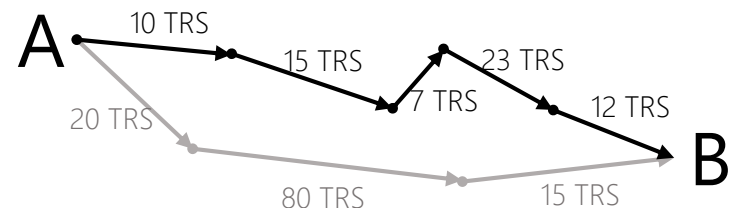
- ▶ Delivery time

$$\sum_{i=A}^B t_i \rightarrow \min$$



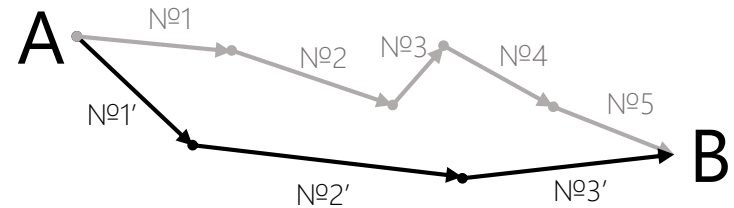
- ▶ Delivery cost

$$\sum_{i=A}^B TRS_i \rightarrow \min$$



- ▶ Delivery risk measure
(e.g, minimum of carriers)

$$\sum_{i=A}^B N_i \rightarrow \min$$



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