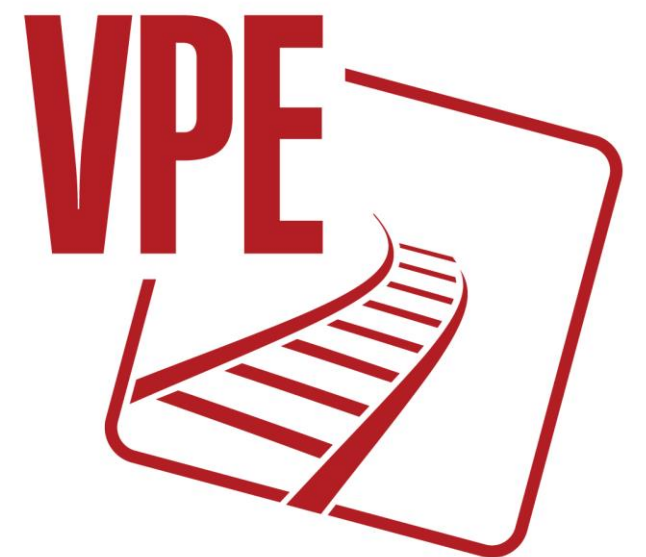


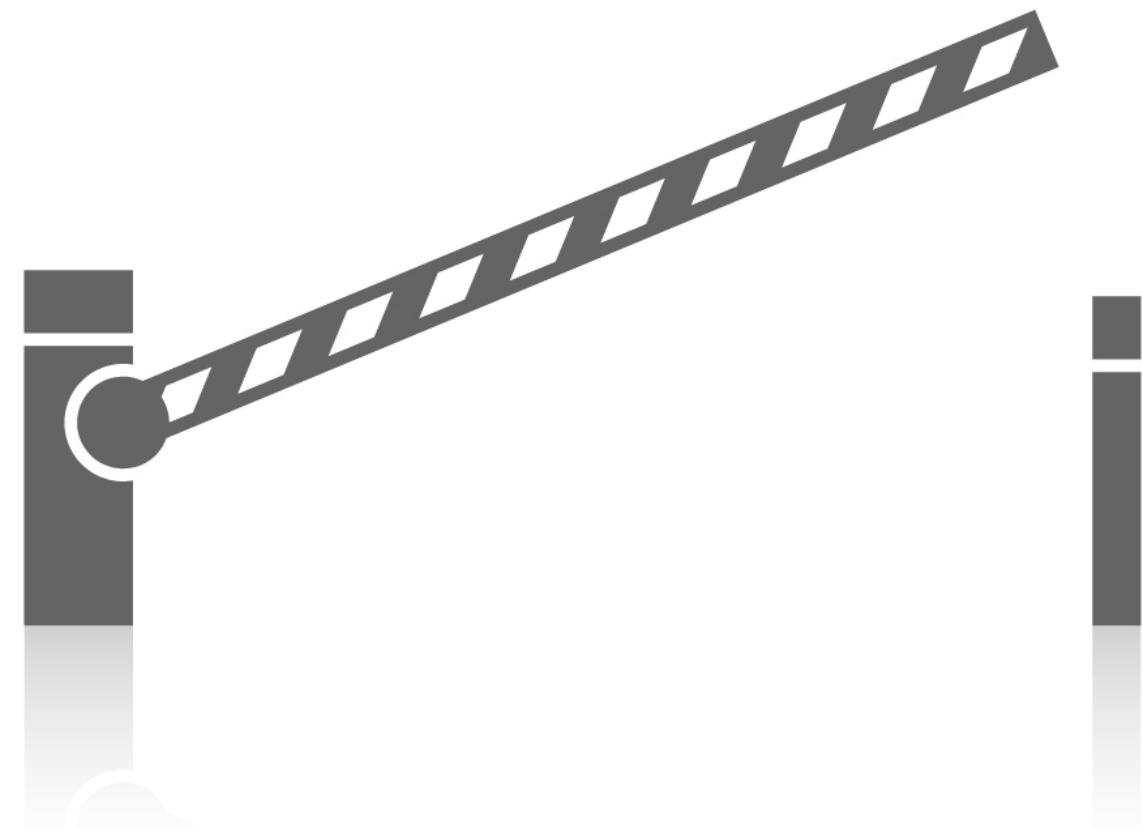


TIME IN TIME TABLING

László Pósalaki
Head of Capacity Allocation Department
VPE Kft.



Where is the time in timetable?



Decades



- Developing of network and services
- Planning of Infrastructure

Years Months



- Planning of Rolling stock
- Planning of Capacity and Procedures
- Annual timetable planning, order of capacity
- Turnaround planning (staff, vehicles)

Days

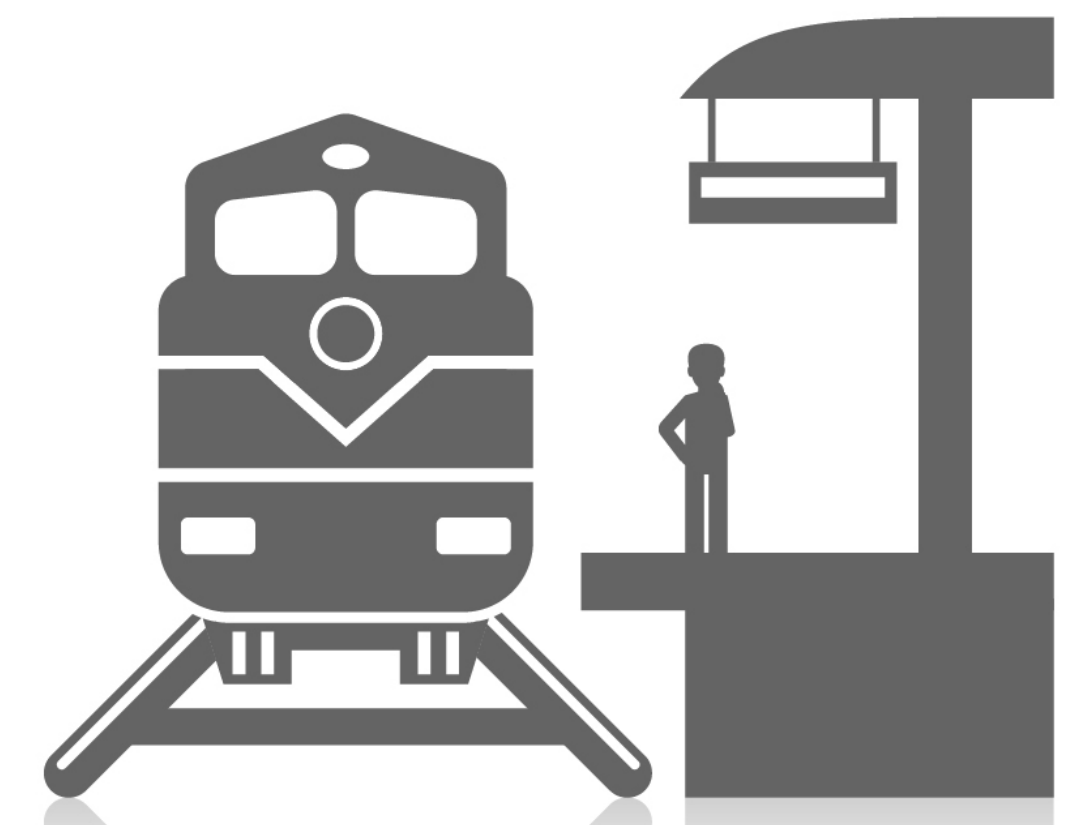
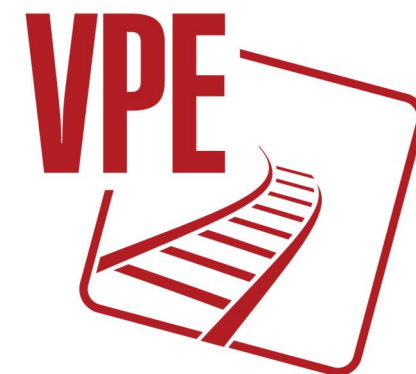


Hours Minutes



- Traffic management
- Information for Passengers and RUs
- Handling of disturbances

Daily timetable planning





Specialities of ad-hoc trains in Hungary

1

The main part of freight traffic is ad-hoc

2

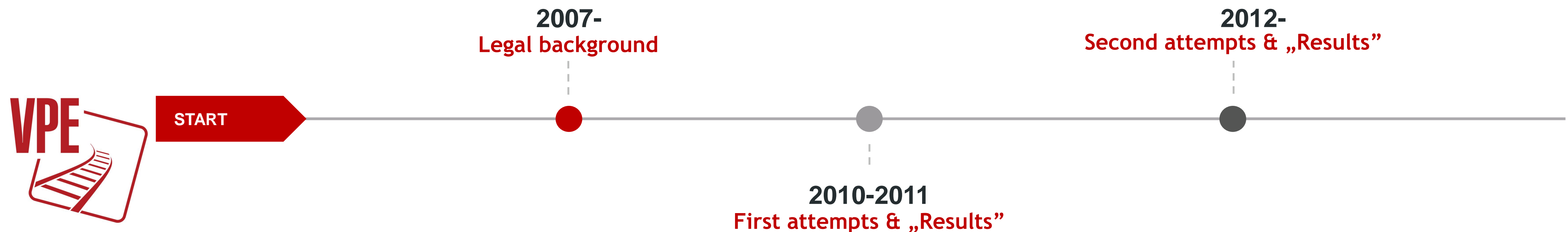
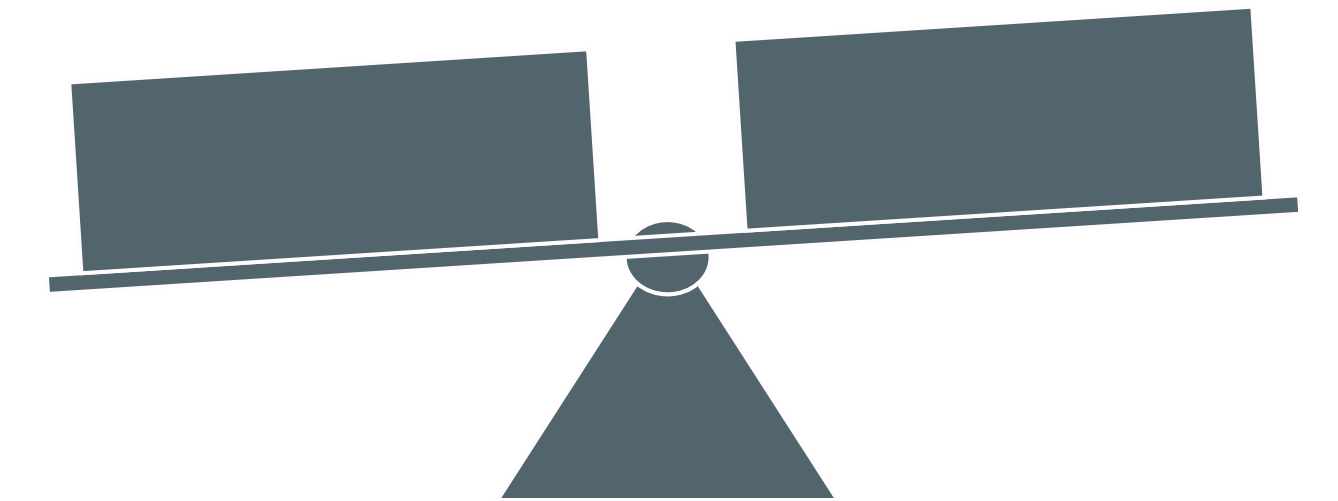
Approximately 400-600 trains/day without TT

3

Regarding Performance Regime the ordering time is very close to train departure

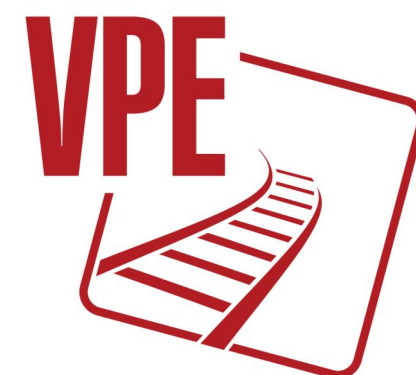
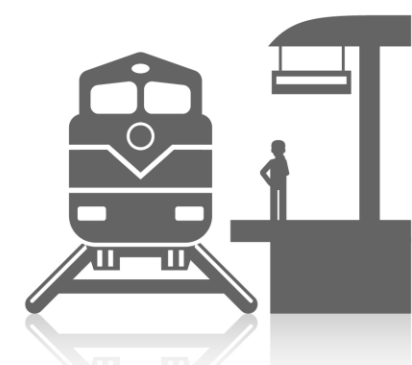
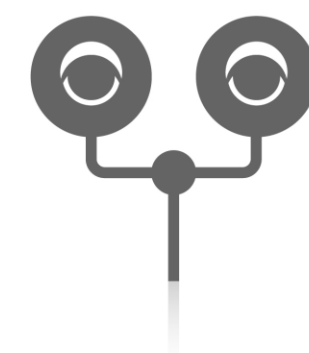
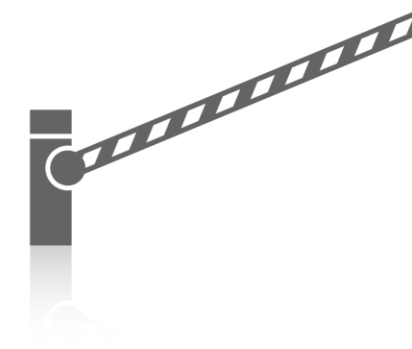
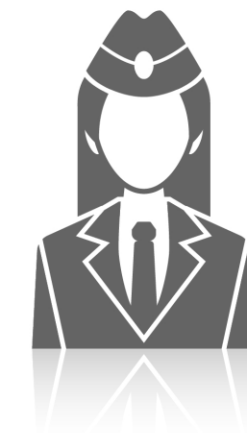
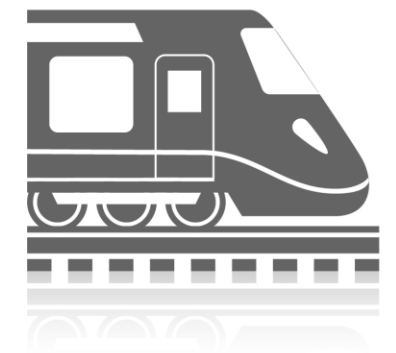
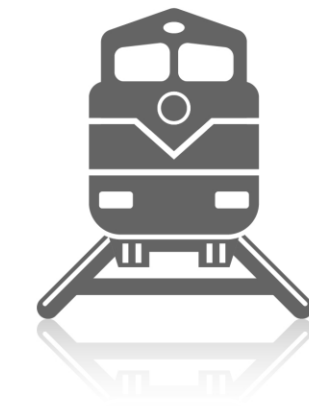
Legal background

- From 2007 VPE had to offer catalogue path for the ad-hoc train (Based on RNE method)
- Cancelled trains move to catalogue



First attempts & „Results (2010-2011)

- Created train catalogue with 4000 trains
- Static booking process
- Daily maintenance of catalogue paths (modification -> other trains, cancellation -> track maintenance)
- Very low offering (<50%) and acceptance rate (<20%)
- Huge manual work



START

2007-
Legal background

2010-2011
First attempts & „Results”

2012-
Second attempts & „Results’

Second attempts & Results (2012-)

No manual work in TT department,
only supervision of booking process

Catalogue paths only in the
border sections and special lines

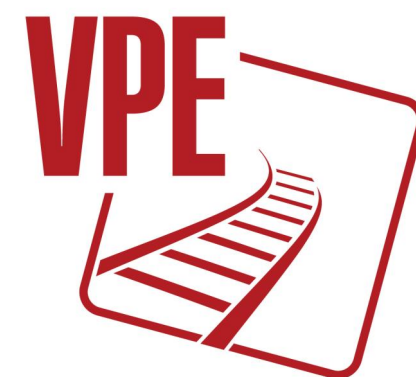
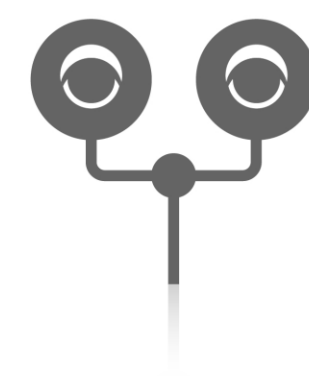
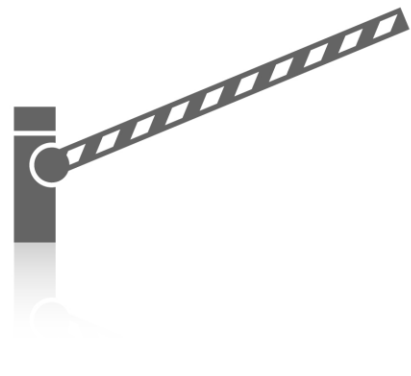
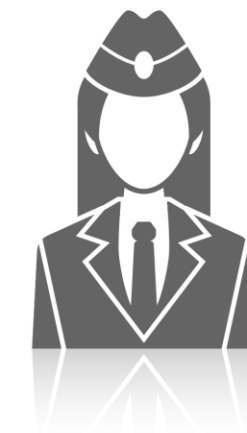
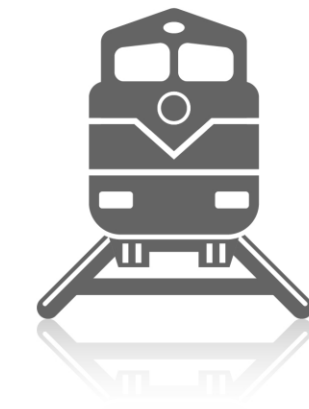
Dynamic booking process
& Automatic TT tool

Good offering (>90%) and
acceptance rate (>75%)

2007-
Legal background

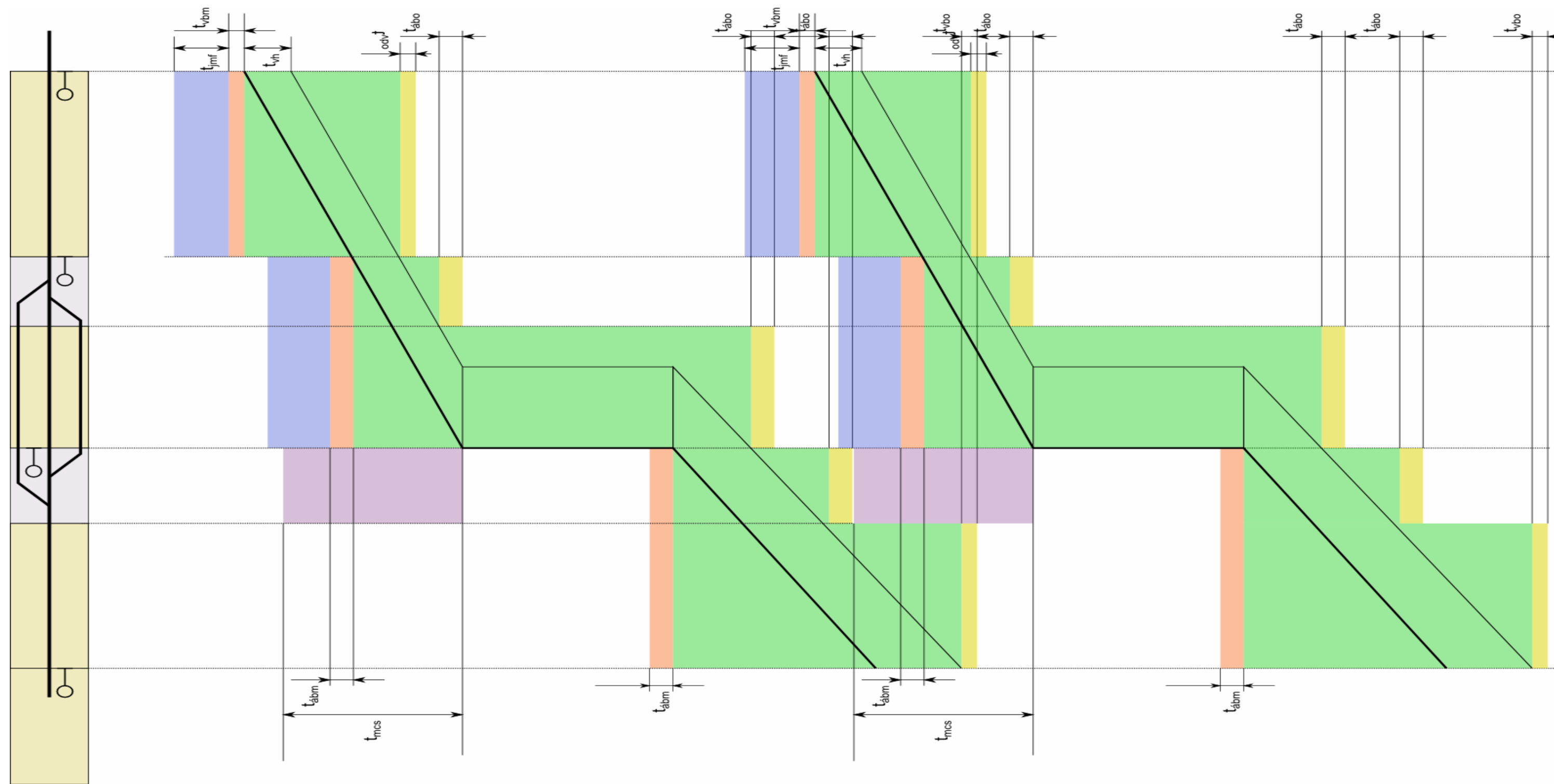
2010-2011
First attempts & „Results”

2012-
Second attempts & „Results’

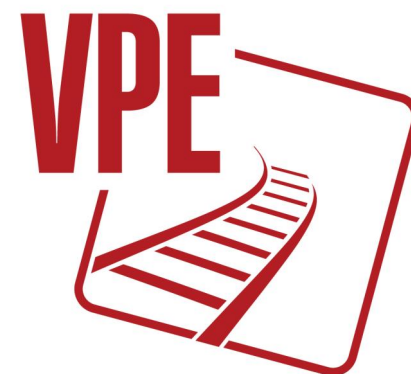
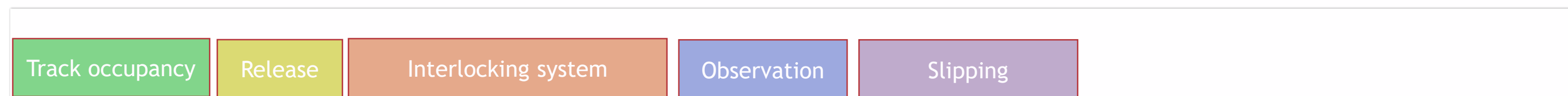


START

How does KUMO work?

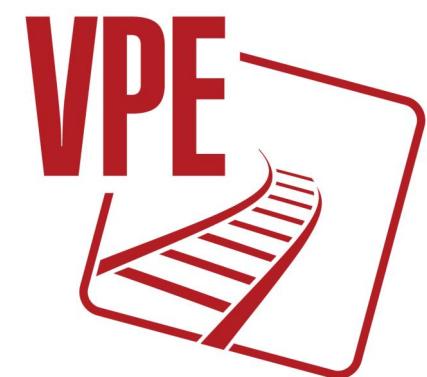
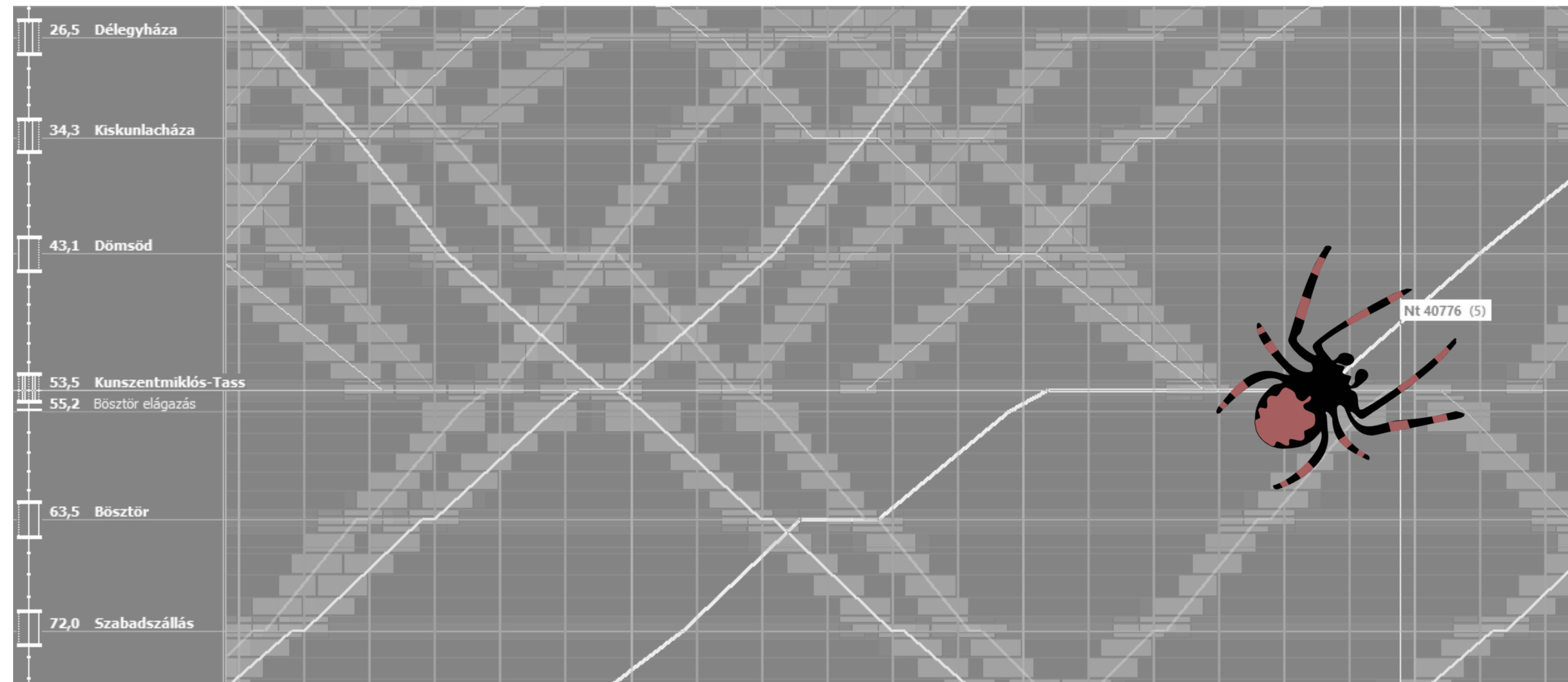


- Planning parameters from the request
 - Speed, Weight, Loco, Stopping times, etc.
- Planning parameters from the Database
 - Characteristics of lines, technical time at stations, etc.

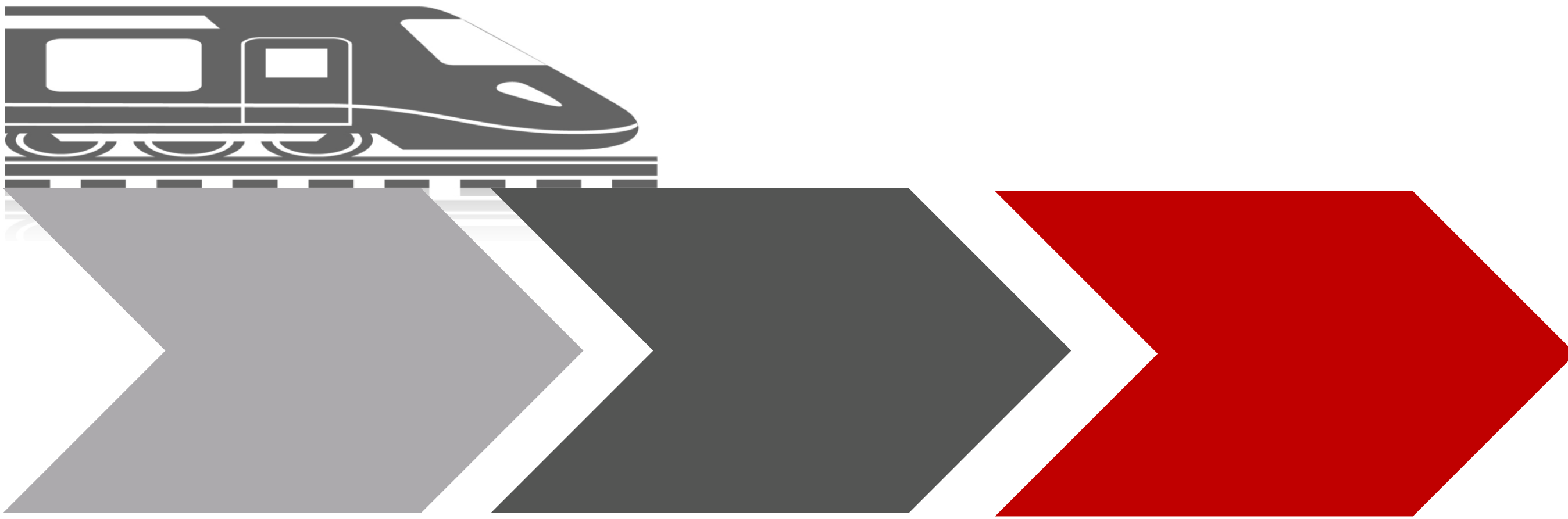


How does KUMO work?

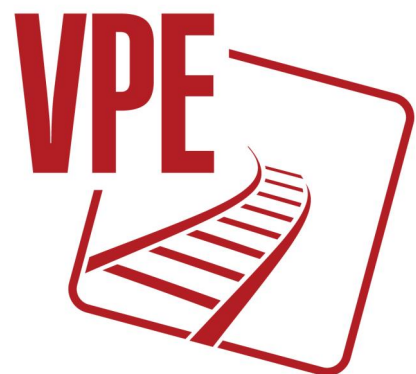
- Planning parameters from the request
 - Speed, Weight, Loco, Stopping time, etc.
- Planning parameters from the Database
 - Characteristics of lines, technical time at stations, etc.



Future plans...



- Launch the new capacity allocation system – K2 (2017. december)
 - TT for extraordinary consignments
 - Different TT day by day (next 5 days)
 - Connection with PCS
- Upgrade of supervising methods (BI – Tableau)



**Thank you for your
attention!**

LÁSZLÓ PÓBALAKI
VPE
HEAD OF CAPACITY ALLOCATION DEPARTMENT

