Research&Development Company
PROMELECTRONICA

OUR PROJECTS

MAINLINE RAILWAYS

INDUSTRIAL RAILWAYS

For more than 27 years R&D Company Promelectronica has been developing electronic signalling and telecommunication equipment. We have full arrangement of equipment for ensuring train traffic on stations, mainlines and level-crossings. Our systems are working in various climactic and operating conditions to ensure train traffic safety.

Our developments and implementation services have all the necessary certificates and permits. We run responsible business and strive for growth together with our customers and partners.

But facts, history of real cooperation and implemented projects on mainlines and industrial railways speak more about what we do and demonstrate professionalism and responsibility of Promelectronica's specialists.

We are proud of our projects, our customers and we are glad to tell you about several examples of cooperation. By far, these are not all the examples that we have in our invaluable experience, but ones that feature the most capabilities, implemented functions and peculiarities of Promelectronica's developments.

History of the railways industry continues!
We wish you success and new achievements!

Sincerely yours,
Specialists of Promelectronica

COMPREHENSIVE PROJECTS

More than 265 design and survey works are carried out by own efforts.

About 100 projects implemented as a turnkey solution. Our projects feature facilities of the following enterprises and mainlines:

PJSC "MMC "Norilsk Nickel"

EVRAZ NTMK

JSC Russian Railways

PAO Chelyabinsk Metallurgical Plant (part of PAO Mechel)

AO Pervouralsk Novotrubnyi Zavod (part of CHELPIPE Group)

Uzbek Railways

OOO Novorossiysk Oil Terminal

Apatit (part of PhosAgro Group)

ZAO South Caucasian Railway

PAO NOVATEC – Purovsky Plant

SUEK-Krasnoyarsk

OOO EuroChem – Usolsky Potash Plant

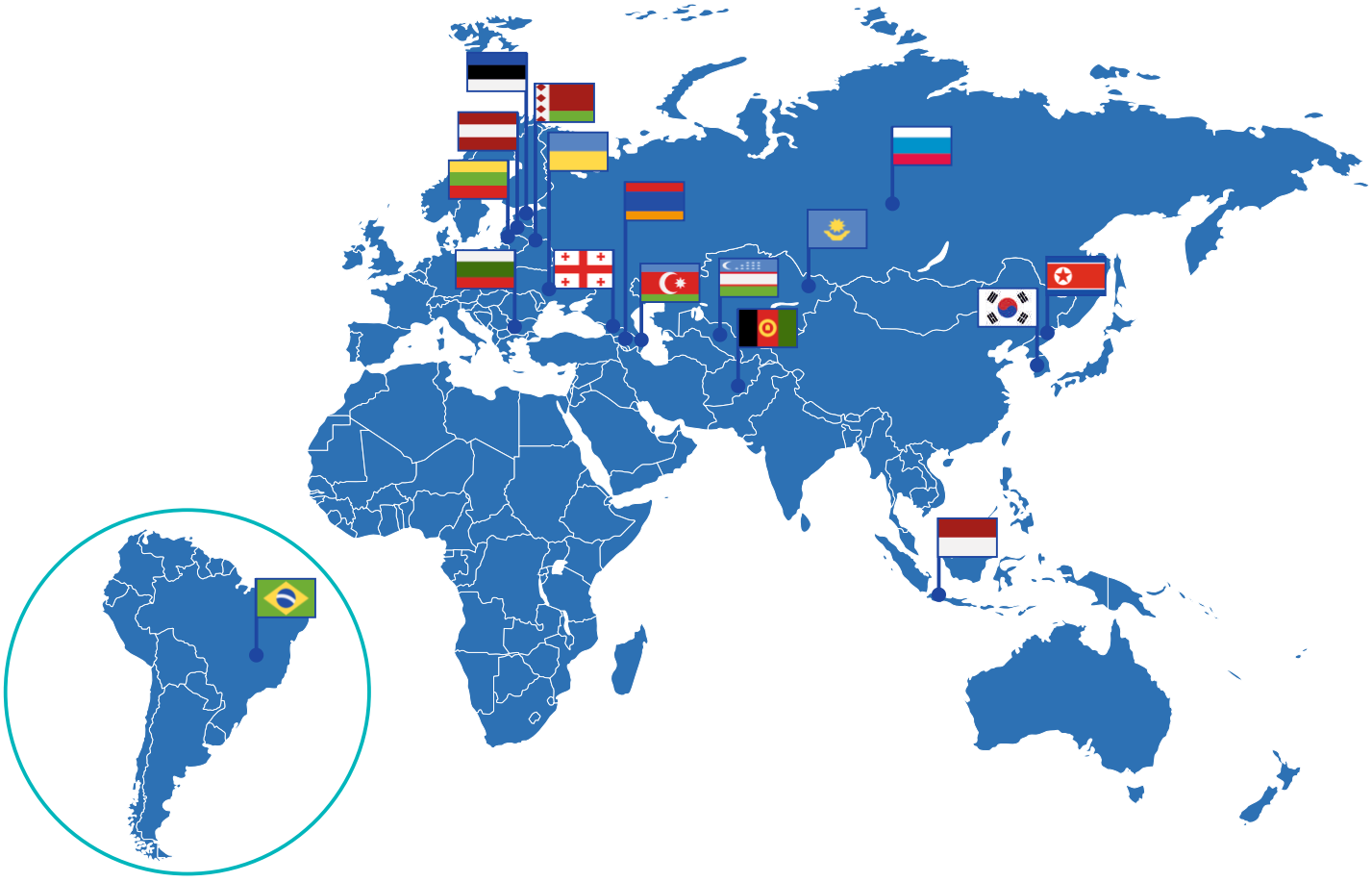
OAO Sredneuralsk Copper Factory

Bulgarian Railways

Kazakh Temir Zholy (Kazakh Railways)

NLMK Group

SCOPE OF IMPLEMENTATION



Our systems are presented in 17 countries.

Interface of MPC-I ARM terminals are translated into 4 languages (Russian, English, Bulgarian, Georgian).

Main operating documentation is translated into local languages.

MPC-I
OVER
130
STATIONS

MPB
107
HAULS

42 PEDESTRIAN CROSSINGS

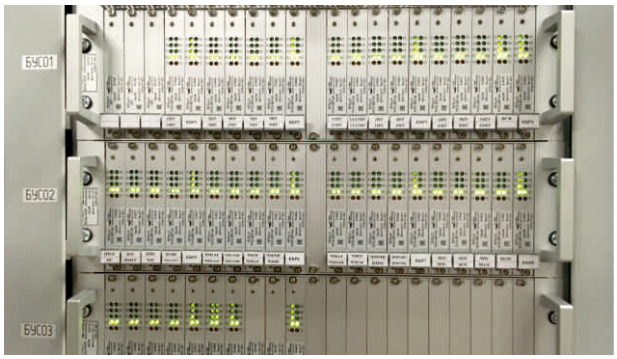
MAPS
83
LEVEL
CROSSINGS

ESSO/ESSO-M
OVER
25000
WHEEL SENSORS

IMPORTANT PROJECTS

Participation in implementation of strategic project on Far Eastern Railway – construction of new Kuznetsovsky Tunnel and infrastructure on section Komsomolsk-on-Amur – Sovetskaya Gavan, Urgal-Izvestkovaya. 52 stations fitted with MPC-I system.

Participation in creation of transport infrastructure for development of mineral resources in southeastern part of Transbaikalian Territory, construction of new railway line Naryn – Lukogan. 5 stations have been equipped with MPC-I system and 7 level-crossings with MAPS on the section Naryn 1 (Borzya) – Gazimursky Plant.



Construction of new stations on Bystrinskoye Mining Company: 71 ESSO counting posts, 31 points interlocked by MPC-I, 2 level-crossings controlled by MAPS.

Comprehensive modernization of signalling equipment on Sakhalin and Yamal Railways, 179 counting posts operated by ESSO system have been implemented.

IMPORTANT PROJECTS

Enterprises of EVRAZ Group (ZSMK, NTMK, KGOK). 1,351 counting post equipped with ESSO , 133 points interlocked by MPC-I system, 5 level-crossings controlled by MAPS .

Remote control of two stations from single interlocking tower implemented for the first time in 2004.

Non-relay MPC-I with ESSO-M-2 with allocation in MKM container module was built in 2018.

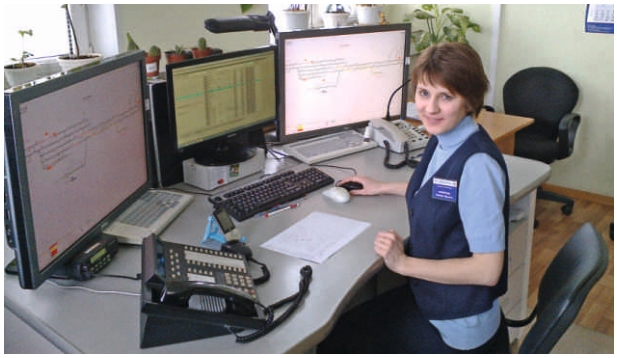
Implementation of DK-I dispatcher control system for train car positioning.

Comprehensive modernization of railway infrastructure on PAO Nornickel: 114 points interlocked by MPC-I , 147 counting posts operated by ESSO and 131 by ESSO-M systems, MAPS implemented on 11 level-crossings, 7 hauls controlled by MPB .
Project features remote point control, MKM equipment container module, laying down of 55 km of fiber optic cable.

IMPORTANT PROJECTS

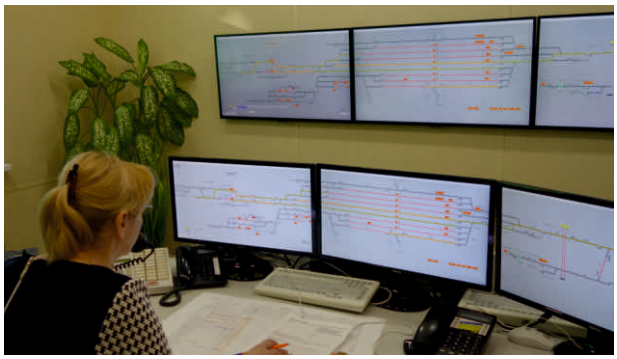
Extreme operating conditions of MPC-I system (166 points) and ESSO (393 counting posts) on AO Apatit: the town is located beyond the Arctic Circle where snow season lasts for 7-8 months a year.
One of the stations is situated in the tunnel under the mountain with daily blasting operations.

1,589 counting posts featuring ESSO and ESSO-M system, as well as 93 points interlocked by MPC-I system have been implemented on facilities of NLMK Group (NLMK, NLMK-Kaluga, NLMK-Ural, Stoylensky GOK).



IMPORTANT PROJECTS

SUEK-Krasnoyarsk: 112 points interlocked by MPC-I, 225 ESSO counting posts, MAPS on double-track. Cascaded UKC cabinet in redundant variant has been implemented on one of the stations. Information on train traffic situation is transmitted to the dispatcher center and displayed on the screen.



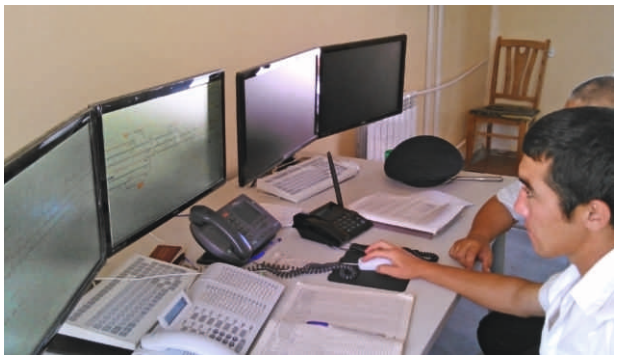
A system of block route-relay interlocking with computer routing has been commissioned on another station with 19 points. Old control panel was replaced with new automated station master terminal during modernization. Computing complex coupled with input/output industrial controllers, performs routing of trains.

OOO UMMC-Holding, railway infrastructure OAO SUMZ. BBK-02 was used to introduce remote control over ESSO-M, point drives and light signals through fiber-optic channel of the station, located 8 km away from the tower to increase the train capacity of the station.

ESSO-M and BBK-02 equipment is located in relay cabinets in close vicinity to controlled objects.

IMPORTANT PROJECTS

Project on a high-speed section Tashkent – Samarkand,construction of ESSO on section Tashguzar – Kumkurgan of Uzbek Railways.
756 ESSO counting posts, 2 stations with MPC-I , 12 hauls with MPB and 11 level-crossings with MAPS have been implemented in total.



Introduction of MPB ESSO MAPS on section Airum – Kaltakhchi of South Caucasian Railways (Armenia). Implementation of MPB on 22 sections was extremely efficient, as South Caucasian Railways used fiber-optic communication lines.

Large scopes of works have been performed on Kazakh Temir Zholy: 282 ESSO counting posts, 6 stations with MPC-I ,5 level-crossings with MAPS, 6 hauls with MPB. Operating costs on sections with decreased cargo traffic have been significantly reduced thanks to replacement of auto-block system with MPB.
MPC-I laboratory training set has been installed.

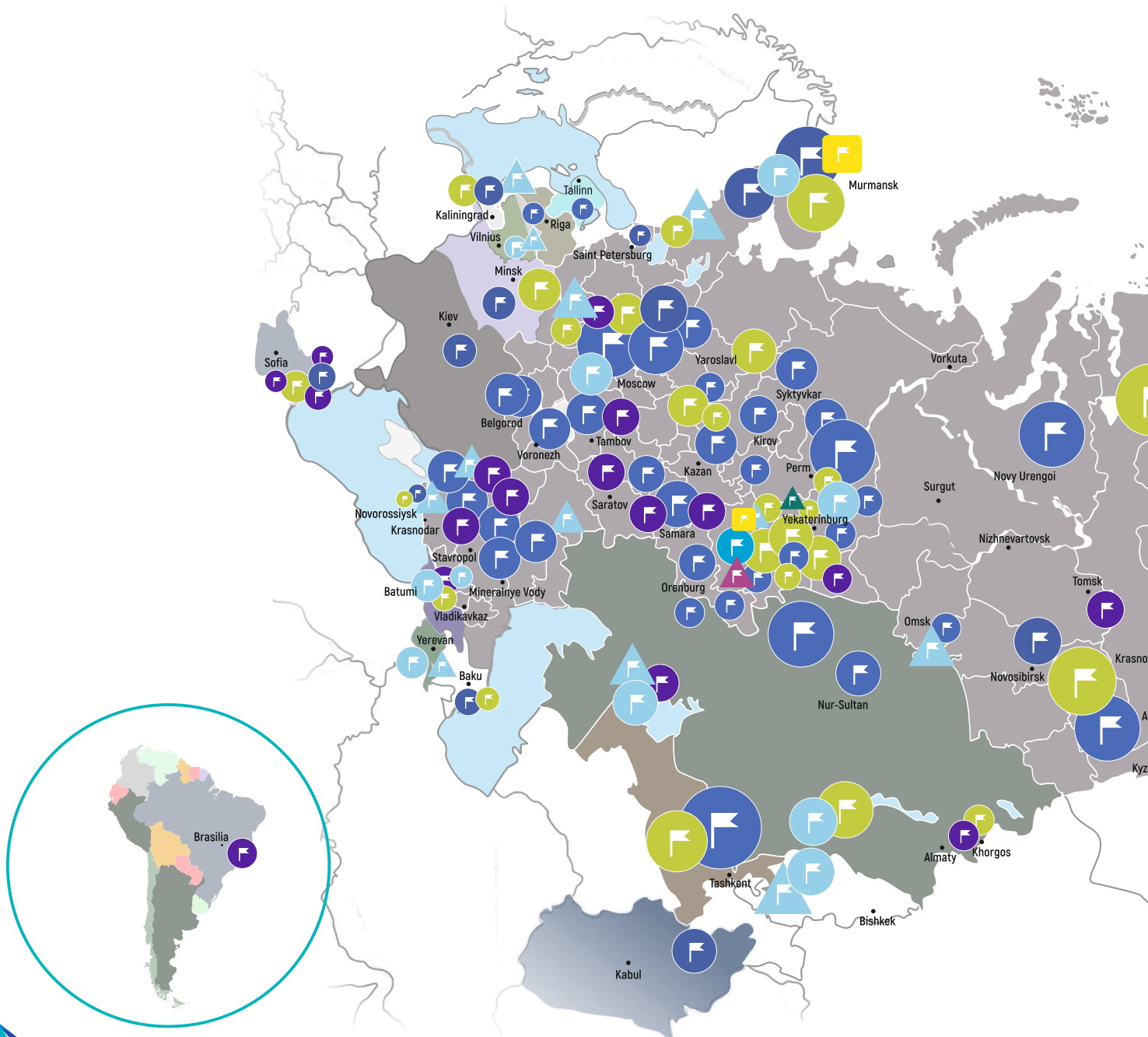
IMPORTANT PROJECTS

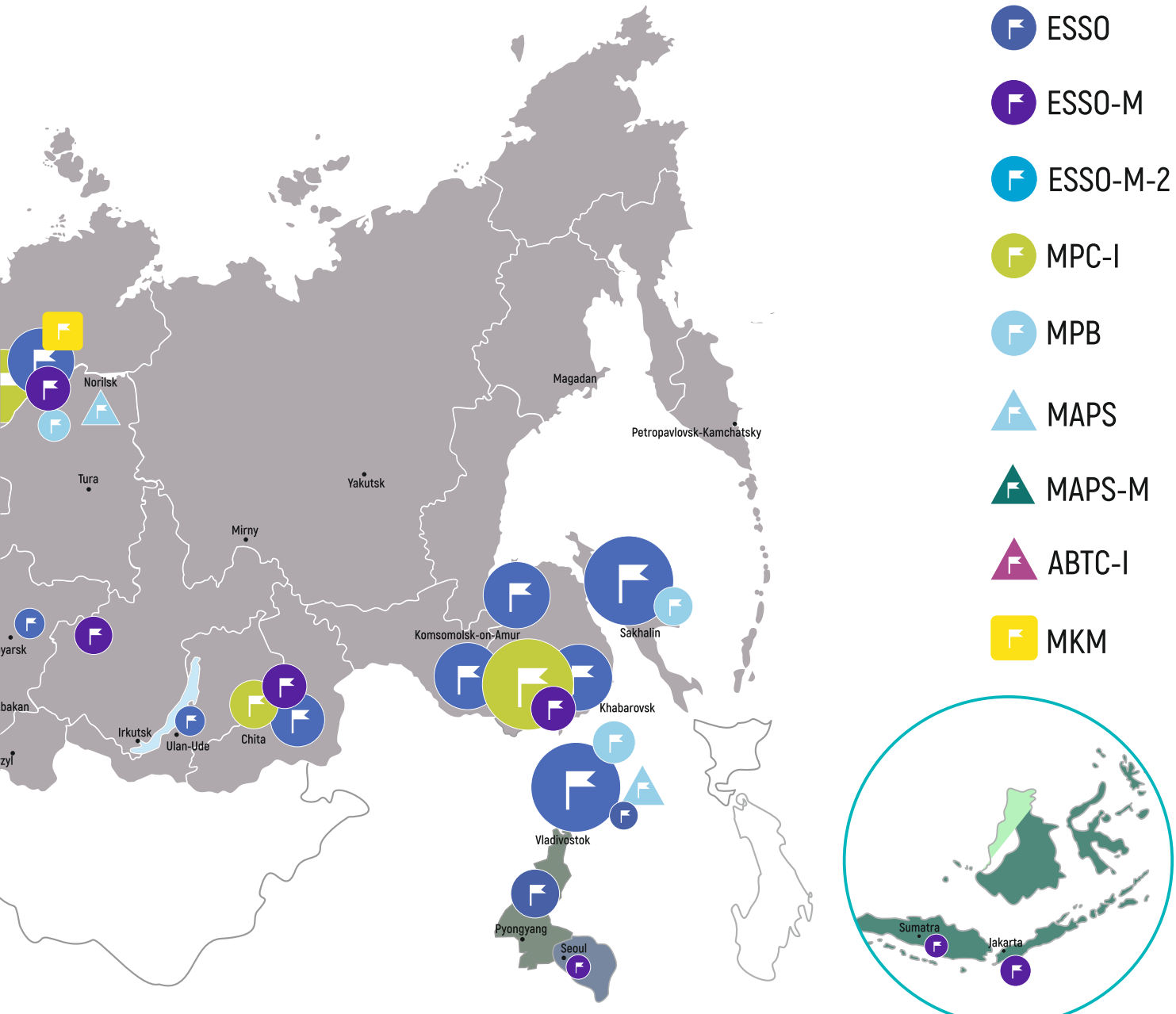
Installation of ESSO-M on railroads of coal-loading station on Sumatra Island (Indonesia). Wheel sensors provide stable operation in tropical conditions – even in conditions of high temperatures and humidity.

ESSO-M is also implemented in infrastructure project in the capital of Indonesia – Jakarta. 106 counting posts are installed on a light rail, which was designed to improve the traffic in the city.

Our systems ESSO-M MPC-I are working on 9 stations in the European Union. 230 counting posts are installed on Bulgarian railways. Stations are equipped with ARM ESSO-M, which are connected to remote monitoring from tower equipment and DKU wheel sensors.

OUR SYSTEMS ON THE MAP





Map legend

- ESSO
- ESSO-M
- ESSO-M-2
- MPC-I
- MPB
- MAPS
- MAPS-M
- ABTC-I
- MKM

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