

NPS // ESP

EXPERTSTROIPROEKT

WE USE UNIQUE POTENTIAL AND A LARGE-SCALE RESOURCE BASE



Division RAILWAYS

45 000

Employees

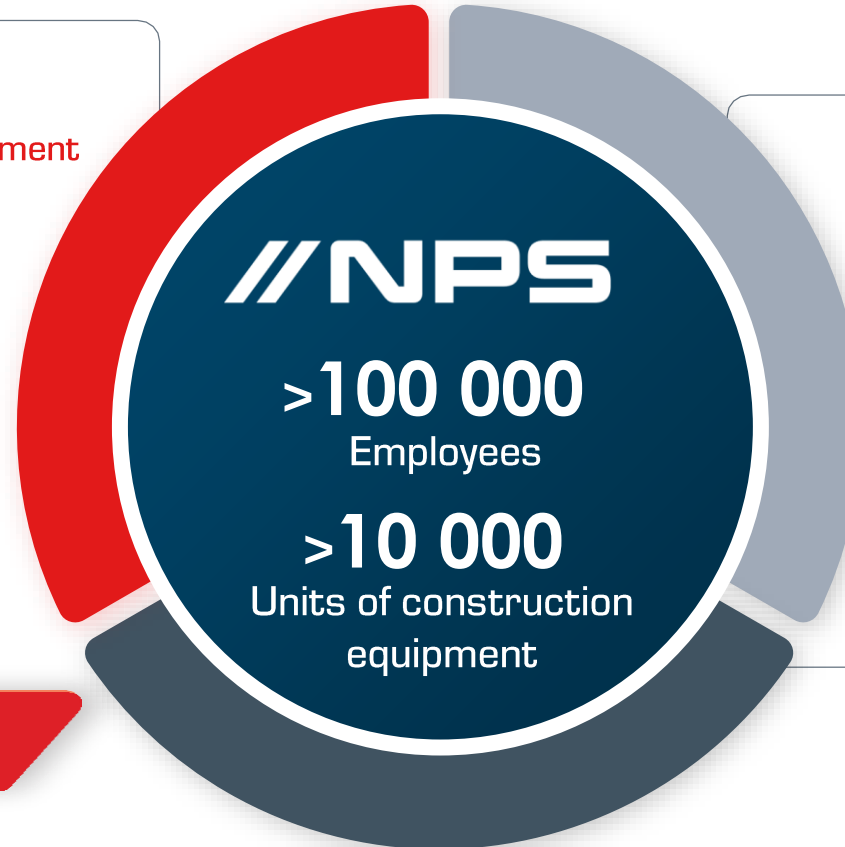
3 500

Units of Construction Equipment

ENGINEERING

CONSTRUCTION

RAILWAY AUTOMATION
AND REMOTE-CONTROL SYSTEMS



Division ROADS AND BRIDGES

55 000

Employees

7 000

Units of
construction
equipment

Division ENERGY

8 000

Employees

300

Units of
construction
equipment

NPS // SIGNALING DIVISION

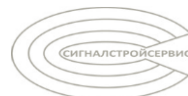
DESIGN



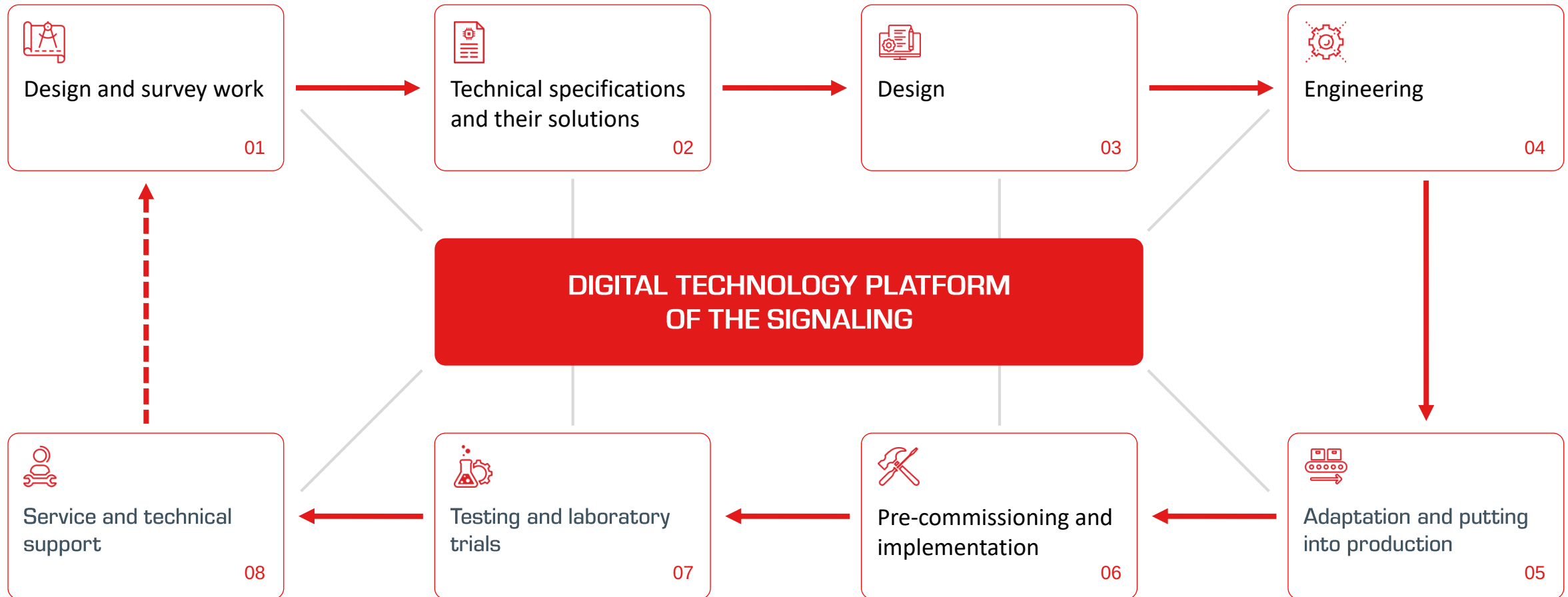
CONSTRUCTION



AUTOMATION AND TELEMCHANICS



LIFE CYCLE OF THE SIGNALING



PRODUCTS OF SIGNALING DIVISION

The product range of the signaling Division includes more than **8,000** automation and telemechanics items, which form dozens of high-tech solutions for railway infrastructure.

The company's innovative solutions cover the entire range of Signaling and communication systems, enabling maximum automation of transportation process management and ensuring the safe operation of railways.

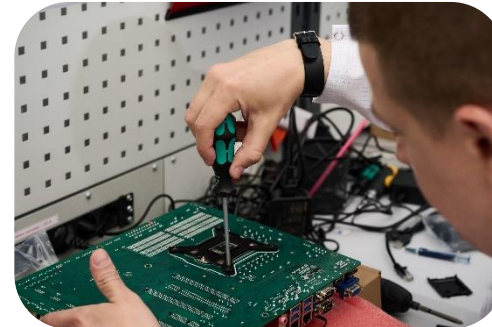


HISTORY OF THE COMPANY

EXPERTSTROYPROEKT

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- ExpertStroyProekt is a company with 15 years of experience in the railway automation and telemechanics sector, founded in Moscow in 2011. The company provides a full cycle of services for the design and manufacturing of printed circuit boards and automation systems.
- In December 2023, the first production line for printed circuit boards was launched, marking the first step toward independence from foreign suppliers. In 2025, a second production line was introduced. Today, the company has achieved technological sovereignty, and its production meets Industry 4.0 standards.



60.000

printed circuit board per year



531

employees



1120

industrial PCs per year



9

service centers





**Supply of
components for
railway transport**

Wide range of products sold



**Pre-commissioning
works**

Full range of pre-commissioning
works



Design

Design of railway automation
systems and devices

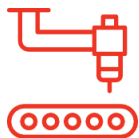


Software

Supply of Computer-based
Interlocking programs capable of
performing all tasks related to the
safe management of railway
automation devices

PCB MANUFACTURING

Production of electronic printed circuit boards at our own facilities



SOFTWARE DEVELOPMENT

Supply of computer-based Interlocking software capable of performing all tasks for the safe control of railway signaling and automation devices



SIGNALING DESIGN

Design of railway automation and signaling systems and equipment



INDUSTRIAL EQUIPMENT

Development and production of industrial computers designed to operate in the most demanding conditions



SERVICE

Maintenance and repair of railway signaling and automation equipment



PRODUCTS

PRINTED CIRCUIT BOARDS

The products are included in the register of Russian products

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KDFP



Si20



Ry20



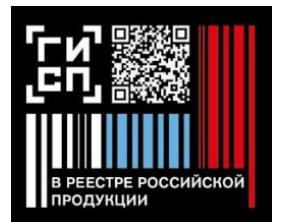
St20



Rk20



The Ministry of Industry and Trade's Register is an official electronic resource containing information on goods and services that have been confirmed as being of domestic origin in accordance with criteria approved by the Russian Government.



PRODUCTS

INDUSTRIAL COMPUTERS

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ESP-ARM-VIDEO



ESP-ARM-RACK



VK-E device

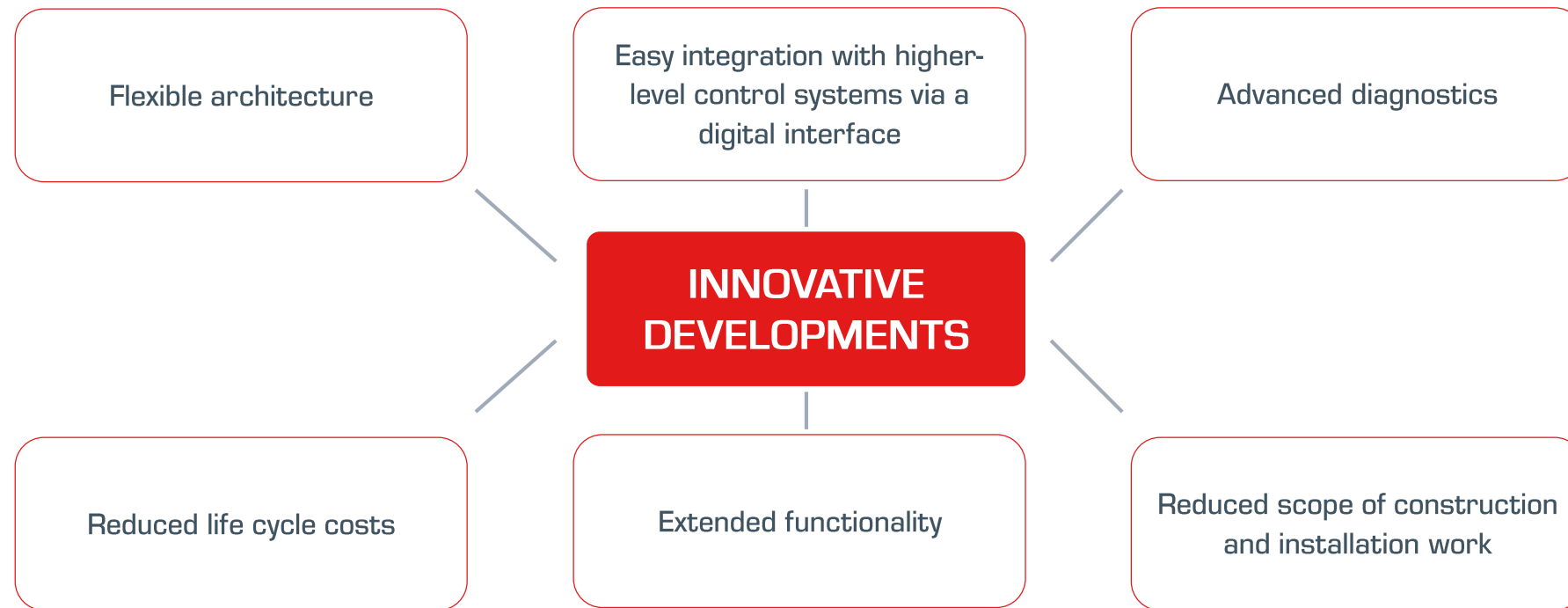


ESP-ARM-VIDEO v2



SHLYUZE





The software developed by the company contributes to the digital transformation of the railway industry by enabling automation of traffic management, increasing the capacity of rail sections and stations, continuously monitoring equipment conditions, and significantly reducing the life cycle cost of railway signaling and automation systems.

PRE-COMMISSIONING WORKS

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OBJECT CONTROLLER SYSTEM

Multiple levels of connection and
connectivity testing, floor-standing
device testing

LOCAL CONTROL SUPERVISORY SYSTEM

Assembly, installation, testing

CENTRAL PROCESSING UNIT SYSTEM

Assembly, installation, testing

POWER SUPPLY UNIT

Assembly and several levels of
verification

ACCEPTANCE TEST

Participation in software audits,
interdependency checking

TRAINING OF OPERATIONAL PERSONNEL

Staff training and documentation
transfer



PROJECTS

ELECTRONIC EQUIPMENT MANUFACTURING

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- ExpertStroyProekt has been actively developing its own production since 2022. In December 2023, the first printed circuit board (PCB) production line was launched, followed by a second line in 2025.
- Today, the production has reached the Industry 4.0 standard level and is independent of foreign suppliers. The production capacity is up to 60,000 boards and 1,120 industrial PCs per year.
- ExpertStroyProekt carries out the full production cycle of PCBs and automated workstations to meet the needs of the ZHAT Division of NPS Group.
- The production facility is equipped with two surface-mount technology (SMT) lines, a modern optical inspection system, and two through-hole technology (THT) assembly lines. The company also performs a full cycle of incoming component inspection.

PROJECTS

ELECTRONIC EQUIPMENT MANUFACTURING

SMD ASSEMBLY LINES

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SMD assembly lines are equipped with
HANWA component placement machines



They handle components as small as 01005
(thinner than a human hair)

PROJECTS

ELECTRONIC EQUIPMENT MANUFACTURING

THT ASSEMBLY LINES

NPS // ESP



The production facility is equipped with two
THT assembly lines

The THT lines are based on
NIS-450-DUAL selective soldering systems

PROJECTS

ELECTRONIC EQUIPMENT MANUFACTURING APPLICATION OF WATER-PROOF COATINGS

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The facility is equipped with
three automated machines for applying
moisture-protective coatings

Automation of this process prevents lacquer
from getting into connectors,
which improves product quality and reliability

PROJECTS

ELECTRONIC EQUIPMENT MANUFACTURING FUNCTIONAL AND PARAMETRIC CONTROL

NPS // ESP



All products undergo two-stage inspection:
before and after applying the moisture-
protective coating

Checks are performed both on in-house
developed test stands
and using the “Flying Probes” inspection system
TY-4T

LAUNCH OF THE DOSTYK - MOIYNTY SECTION



- 8 launch complexes
- 748 remote controlled point
- 772 km of double-track ALSO

MODERNIZATION OF THE KHANI-TYNDА BAM-2 SECTION



- ExpertStroyProekt actively participated in the implementation of the modernization of the Khani-Tynda BAM-2 section