



ORGKHM
BIOCHEMICAL HOLDING

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Russian innovation-driven company,
developer and manufacturer of
“green chemistry” products

We develop and produce top-quality eco-friendly
green chemistry products safe
for people and environment

Innovative approach and high-level intellectual
competence of our team – those are our resources
that we use to handle the challenges faced by our
customers in an efficient way and to rise the
profitability of their business

Our products are **carcinogen-free**

\$100 mln
turnover

800
people



Global company:

60% of turnover come
from international markets

7 of the top 10 tire
companies are our customers



100% of products
are developed in our own R&D center

Certified

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, ISO/TS 16949




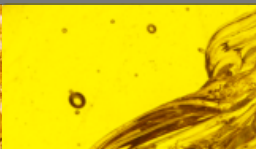



Established in

2001







TARGET MARKETS



TIRES, RUBBER, GENERAL RUBBER PRODUCTS

						
rubber process oils NORMAN	emulsifiers EDISKAN	pelletized rosin TYREON	phenolic antioxidants	partially saponified rosin after disproportionation DisKaS	fatty acids POLINOR	pinane hydroperoxide TERPOLIN




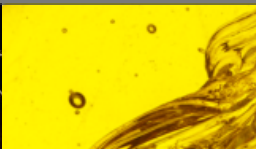



ADHESIVES, PAINTS, COATINGS, ROAD MARKING

					
glycerol rosin esters	pentoerythritol rosin esters	pelletized rosin TYREON	non-crystallizing rosin	terpene hydrocarbons TERPENSOL	pine oil TERPINE

CLEANING, PERFUMERY

solid and liquid
terpineol

ROAD CONSTRUCTION

						
glycerol rosin esters	rubber process oils PLASTOIL	bitumen additives AFTISOTDOR	phenolic antioxidants	β-sitosterol	pine oil TERPINE	solid and liquid terpineol

FUNCTIONAL MINING
FOOD

SOLAR
CELLS

ORGKHM IN FOR TIRE, RUBBER AND RUBBER PRODUCT MARKETS

№1 Russian manufacturer of green aromatic rubber process oils

№2 Global manufacturer of green aromatic rubber process oils

№3 Global seller of green rubber process oils

OUR CORE COMPETENCES

- Many years of cooperation with the leading tire and rubber companies:
7 of Top 10 world tire companies buy from ORGKHM
- Comprehensive range of products for tire and rubber making (over 30 products)
- Tailoring: development of one of the kind products to meet customer specific needs
- Efficient logistics, wide-spread storage network to bring products closer to customers
- Unique method of selective treatment to produce green aromatic rubber process oils for tire and rubber making
- Expertise in carcinogenic safety

OUR PARTNERS

BRIDGESTONE

GOODYEAR

Continental

PIRELLI

LG Chem

HANKOOK

YOKOHAMA

COOPERTIRES

LANXESS
Energizing Chemistry

СИБУР

ORGKHM IN ADVANCED CHEMICAL INTERMEDIATES MARKETS

№1 Major Russian manufacturer of rosin esters for road marking, adhesives, paints and coatings

№1 Russian supplier of pine oils that enable maximum efficiency of the flotation process and are used in perfumery products and cleaning products

№1 Developer of advanced products for the functional food products market and pharmaceutical industry (high-purity sitosterol)

OUR CORE COMPETENCES

- Patented, high-performance technologies for manufacturing of products from wood-chemical raw stock
- Product top quality guaranteed
- Granulated rosin products for best convenience
- Extensive sales area (CIS, EMEA, AP)
- Diversified pool of customers from various industries
- REACH registration

OUR PARTNERS



HIGH LEVEL OF CUSTOMER RELATIONSHIP

COMPREHENSIVE OFFER

ORGKHM offer is enhanced with products from our partners for best results in customer satisfaction

TECHNICAL SUPPORT

- Quick response to customer requests
- Technical advise, selection of best product solutions
- Customer interface in development of new products and formulations for specific needs

VERSATILITY

Various options available to customers in terms of package and transport

PRODUCTION FACILITIES

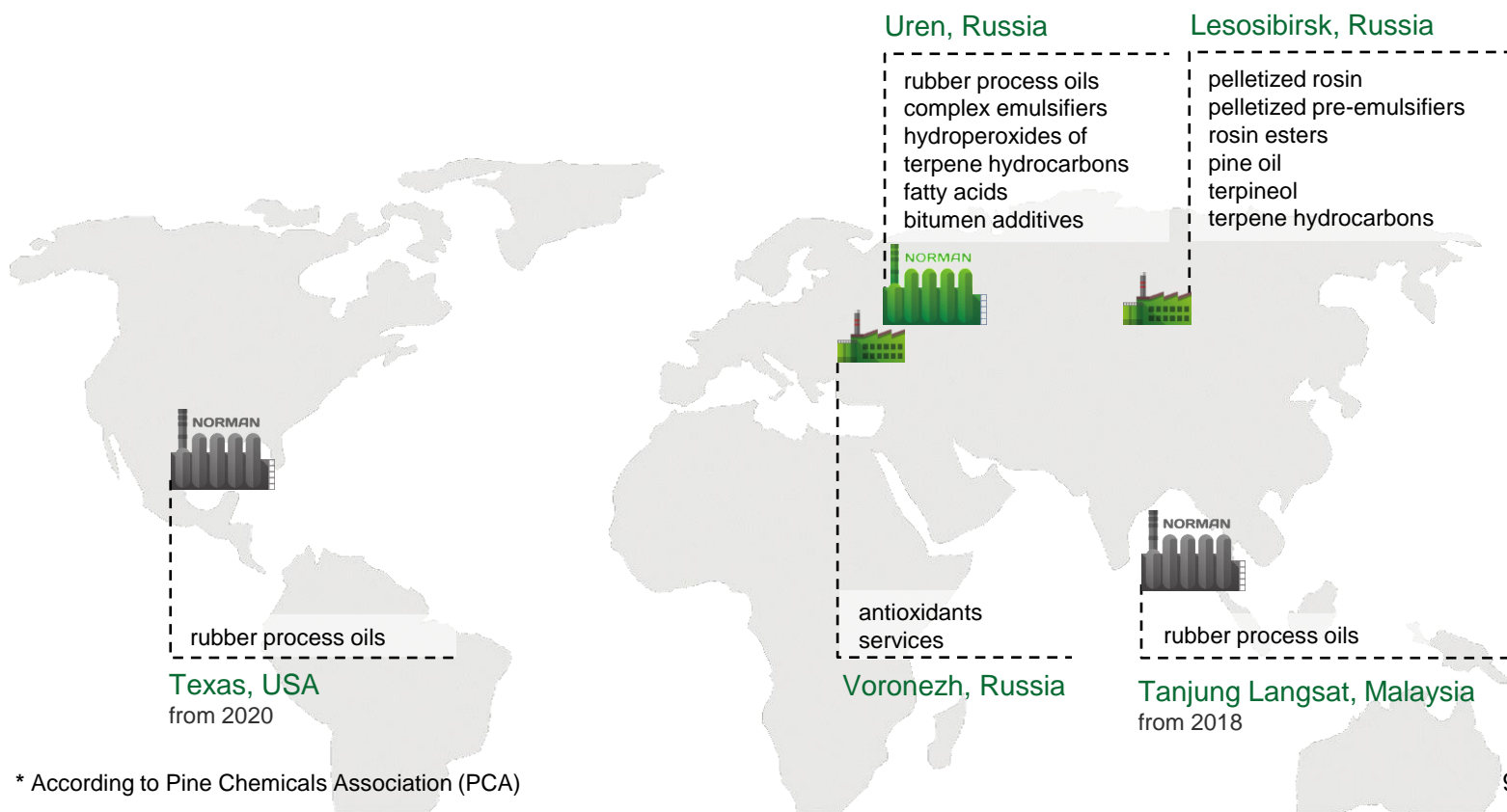
ORGKHM is the top-rated company for environment and industrial safety in 2015*

Fine-tuned process management system: 6S

Integrated operations management system

Equipment availability rate over 85%

High energy efficiency of production technologies



* According to Pine Chemicals Association (PCA)

EFFICIENT LOGISTICS

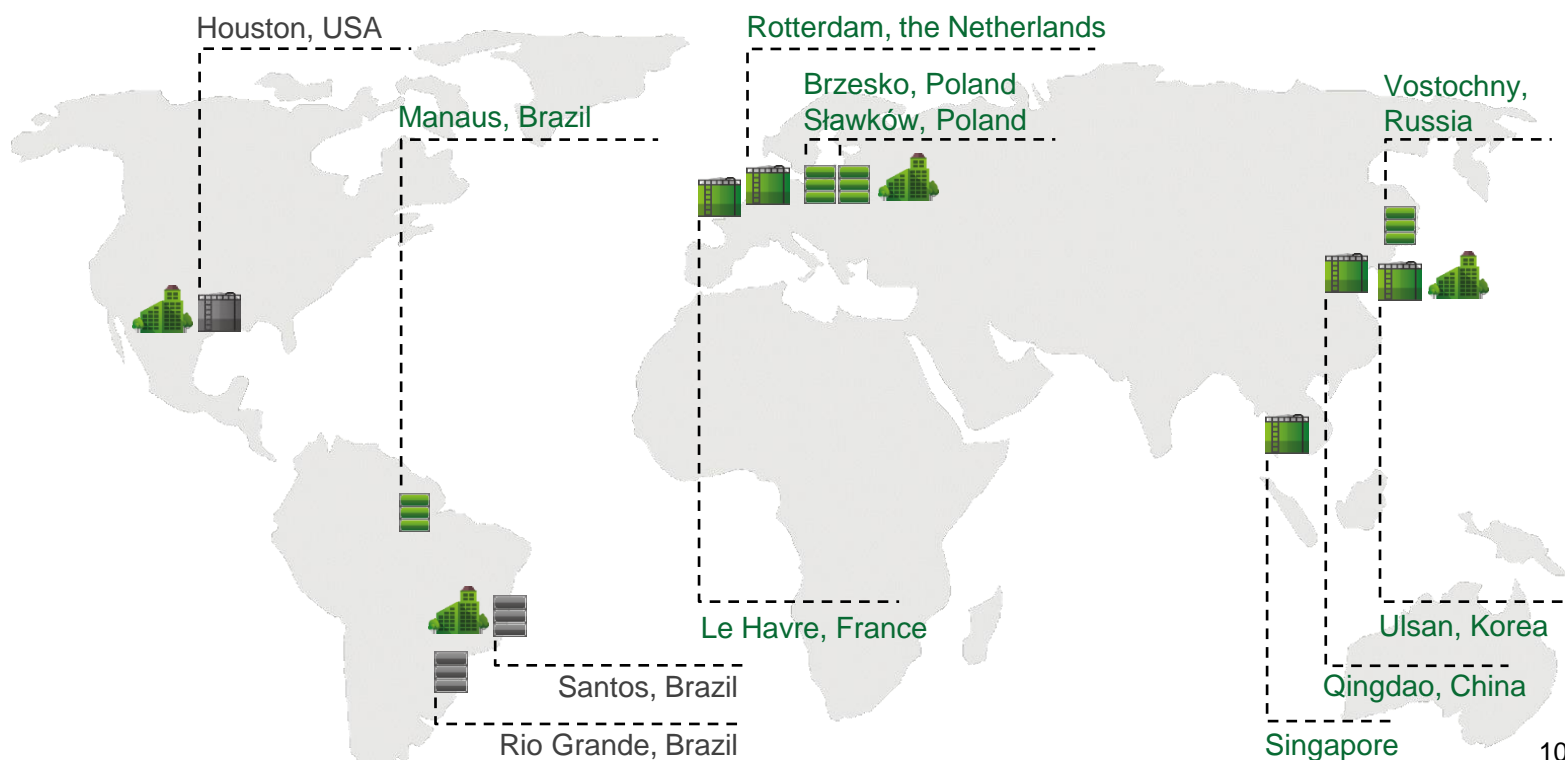
Highly developed network of bulk terminals ensures efficient shipments including just-in-time system

Strong partner relations with customs agents, carriers and forwarders ensuring stable and efficient operations

In-house rail tracks and a fleet of specialized railway containers (~ 100 units)

High level of expertise in VMOI

Multimodal carriage, including combined transport



client support



joint R&D projects with partners



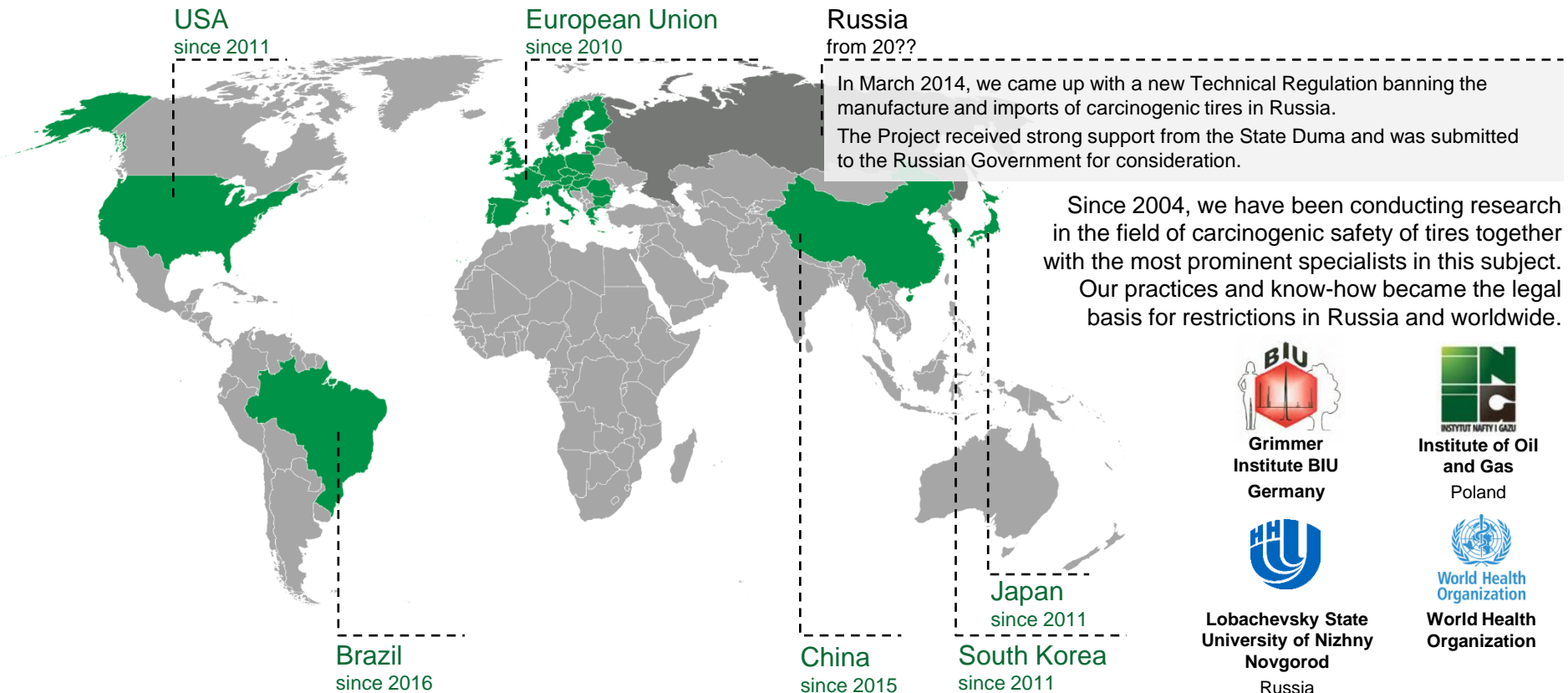
1 Dr. Sci, Professor
10 Ph.D's

150 publications in professional editions
in Russia and worldwide



research in
carcinogenic
safety

A rubber mix for any automotive tire contains **over 10% of special rubber process oils**. They impact considerably the performance of a tire in terms of wet grip, wear resistance and fuel economy. Rubber process oils are also the main contributor to the amount of **carcinogenic particles** released to atmosphere due to tire wear. Human organism accumulates these particles **which may cause oncological diseases**. Therefore, many countries have been adjusting their legislation for over 6 years in a way to allow the use of only those rubber process oils, where the content of carcinogenic components **does not exceed the limits** set by special studies.



GOVERNMENT SUPPORT

ORGKHM has been awarded **2** contracts for development of new products and technologies with Government financing of **RUB 360 M**
(pursuant to the RF Government Order No. 218 on extension of cooperation between the RF universities and manufacturing companies)

2013: Development of high-technology manufacturing based on innovative approach to high-end treatment of liquid waste from wood processing

Project cost: **RUB 410 M**, of which **RUB 190 M** Government support

2015: Construction of advanced manufacturing of carcinogen-free rubber process oils for manufacturing of tires, rubbers and plastics based on innovative technology of oil refining wastes

Project cost **RUB 370 M** of which **RUB 170 M** Government support.

Endorsement of the RF Ministry of Economic Development to construction of ORGKHM manufacturing facilities in **Malaysia**



SOCIAL RESPONSIBILITY



MANUFACTURING OF INNOVATIVE GREEN CHEMISTRY PRODUCTS



CHARITY FOUNDATION



NO-WASTE
TECHNOLOGIES
OF RESPONSIBLE NATURAL
RESOURCES
MANAGEMENT



CHILDREN'S SPORT SUPPORT



COMFORTABLE AND SAFE
WORK ENVIRONMENT



STATE-OF-THE-ART TREATMENT FACILITIES IN ALL PRODUCTION SITES



ORGKHM BIOCHEMICAL HOLDING

55-A, Belinskogo st., Nizhny Novgorod, Russia, 603950

Tel./fax: +7(831) 259-77-47

a.radbil@orgkhim.com

www.orgkhim.com

