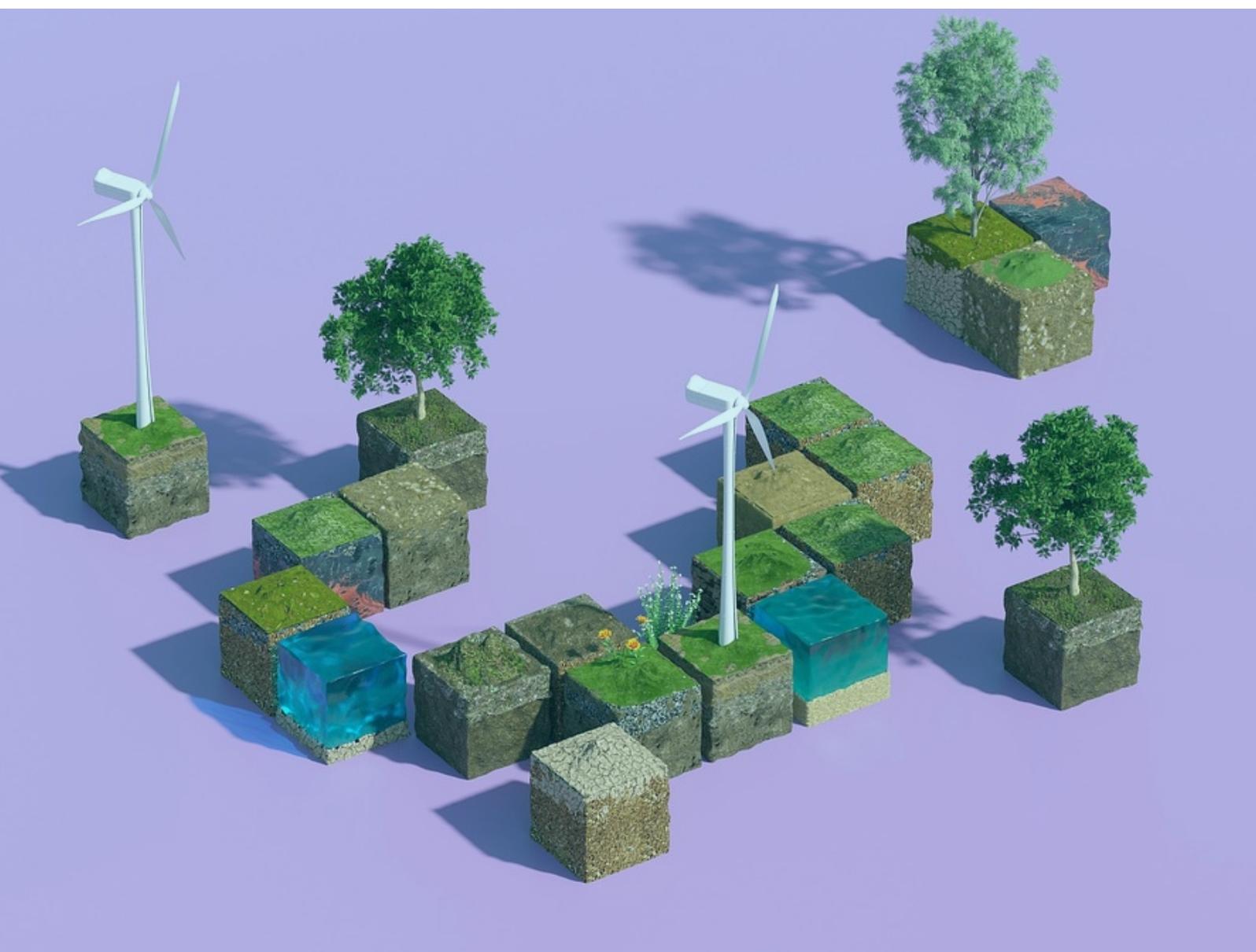


# 2020

# ANNUAL REPORT

UNIDO CENTRE FOR INTERNATIONAL INDUSTRIAL  
COOPERATION IN THE RUSSIAN FEDERATION



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT  
ORGANIZATION



# ANNUAL REPORT 2020

UNIDO CENTRE  
FOR INTERNATIONAL  
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IN THE RUSSIAN FEDERATION

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Moscow, 2021

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# FOREWORD



**Sergey Korotkov,**  
**Director UNIDO ITPO Russian Federation, Moscow**

2020 has been a challenging year for all of us. The pandemic has affected all areas of our life and made significant adjustments to the work of the UNIDO Centre in the Russian Federation. I am proud that all the staff of the UNIDO Centre in the Russian Federation following the recommendations of the WHO and the Moscow government to prevent the spread of COVID-19, has performed active work on our primary tasks. In 2020 we managed to achieve important results.

So, this summer, an online conference of the national network of the UN Global Compact was held, where the first Russian Voluntary Review of the achievement of the Sustainable Development Goals (SDGs) until 2030 was presented. Russia is the 5th largest contributor to the UNIDO Industrial Development Fund among all donor countries. The annual voluntary Russian contribution is \$ 2.6 million. The UNIDO Centre in the Russian Federation throughout the year continued to work actively towards the goal #9, fulfilling its obligations under the project "Environmentally sound regulation and final destruction of PCBs at the enterprises of Russian Railways and other owners" and a number of other initiatives. Within the framework of the project,

mobile laboratories, accredited to carry out inventories and analyzes for the content of PCBs, started operating this year.

An important achievement is the work of the Centre for the implementation of the National Technological Initiatives (NTI) - a project of the Government of the Russian Federation in the innovation sphere. In our work, we cooperate with the Skolkovo Innovation Centre. In 2020, with the support of the HSE, a study was carried out to study the motives, preferences and barriers for Russian high-tech startups and small innovative enterprises (SMEs) to go abroad. The results of the study were included in analytical reports and adequate recommendations were made to the government of the Russian Federation on strengthening the investment motivation of Russian innovative enterprises in the international cooperation of BRICS, in the form of joint global value chains, based on their own intellectual property.

Also, in 2020 we took an part in a huge number of online events and provided support in organizing the participation of Kaspersky Lab in the GMIS2020 online summit.

Our team believes in the values proclaimed by the UN and UNIDO in achieving a sustainable future through the implementation of both technological and institutional initiatives around the world. And we do our best to fulfill the goals.

# ABBREVIATIONS

**UN** - United Nations.

**UNIDO** - the United Nations Industrial Development Organization, UNIDO is a specialized agency of the United Nations (UN) whose mission is to promote and accelerate inclusive and sustainable industrial development in the member states, as well as to promote international industrial cooperation.

**SDGs** - The Sustainable Development Goals are a set of goals for future international cooperation, which replaced the Millennium Development Goals at the end of 2015. These goals are planned to be achieved from 2015 to 2030.

**UNIDO Centre in the Russian Federation** is the official UNIDO representative office in the Russian Federation (UNIDO ITPO Russian Federation)

**WHO** - World Health Organization.

**TC** - technological cooperation

**ITPO** - the global network of UNIDO Investment Technology Promotion Offices.

**COVID-19** - a coronavirus infection that has caused a pandemic since 2019.

**ISID** - Inclusive and Sustainable Industrial Development - UNIDO's vision that enhances and reinforces economic growth and diversification in a socially inclusive and environmentally sound manner

**ROTC** - the Resource Optimization in Technical Cooperation Initiative

# ABOUT UNIDO

The United Nations Industrial Development Organization (UNIDO) is a specialized agency in the United Nations system. The Organization's primary objective is the promotion and acceleration of industrial development in developing countries and countries with economies in transition and the promotion of international industrial cooperation.

The Organization's programmatic focus is structured in four thematic priorities, each of which represents different aspects of ISID:

- Creating shared prosperity;
- Advancing economic competitiveness;
- Safeguarding the environment;
- Strengthening knowledge and institutions.

The Organization is recognized as a specialized and efficient provider of key services meeting the interlinked challenges of reducing poverty through productive activities, integrating developing countries in global trade through trade capacity-building, fostering environmental sustainability in industry, and improving access to clean energy.

UNIDO promotes sustainable patterns of industrial consumption and production in order to decouple the processes of economic growth from environmental degradation. UNIDO is a leading provider services for industrial energy efficiency improvement and promotion of renewable energy sources. The Organization also provides assistance to developing countries in the implementation of multilateral environmental agreements, while achieving their economic and environmental goals.

Established in 1966, UNIDO is headquartered in Vienna, Austria. The organization boasts 170 member states and maintains a field network of 29 regional and country offices around the world. Mr. Li Yong is Director General of UNIDO since June 2013.

## SDGs

The Sustainable Development Goals (SDGs) is a set of goals for future international cooperation, which replaced the Millennium Development Goals at the end of 2015. These goals are planned to be achieved up to 2030.

The Sustainable Development Goals are an agenda to end poverty and hunger, tackle the climate crisis, achieve gender equality and more over the next ten years. At a time of significant uncertainty, the Sustainable Development Goals point the way towards effective recovery from COVID-19 and building a better future for all on a safe and healthy planet.

The importance of industrial development for sustainable development was explicitly recognized by the United Nations General Assembly in their proposition concerning the Sustainable Development Goals (SDGs), which includes inclusive and sustainable industrialization as SDG-9, along with fostering innovation and building resilient infrastructure. While industrialization was not factored into the Millennium Development Goals framework, inclusive and sustainable industrialization now features strongly in the post-2015 development discourse. This confirms the provisions of the Lima Declaration and the relevance of ISID for the new global development architecture.

UNIDO's ISID approach is based on three main pillars: creating shared prosperity, advancing economic competitiveness and safeguarding the environment. This applies to all fields of work UNIDO is engaged in, including technical cooperation, analytical and policy advisory services, standard setting and compliance, and a convening function for knowledge transfer and networking.

Promoting inclusive and sustainable industries and continuing to invest in physical infrastructure, innovation and research are vital to long-term economic development. Investment in research and development (R&D) globally, and financing for economic infrastructure in developing countries has increased. What's more, the intensity of global CO2 emissions has declined, and impressive progress has been made in mobile connectivity. However, the growth of manufacturing has decelerated and industrialization in LDCs is still too slow. The pandemic has dealt a severe blow to manufacturing and transport industries, causing disruptions in global value chains and the supply of products as well as job losses and declining work hours in these sectors. In developing countries, manufacturing jobs are an essential source of income and are key to poverty reduction. The effects of COVID-19 have been so destabilizing that they threaten to halt or even reverse progress towards SDG 9 and other Goals.

Despite progress in recent years, investments in research and development need to accelerate, in part to cope with COVID-19. The importance of increased investment in R&D, perhaps at a faster rate, has been highlighted by COVID-19. More investment is needed in the pharmaceutical industry and in emerging technologies such as artificial intelligence, which can assist in developing drugs and vaccines and in managing related services and resources<sup>1</sup>.

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<sup>1</sup> *The Sustainable Development Goals Report, UNIDO 2020*

# UNIDO ITPO RUSSIAN FEDERATION

The UNIDO Centre for International Industrial Cooperation (CIIC) traces its origin to December 1989, when the agreements, signed earlier in the Vienna International Centre by the Director General of UNIDO D. Siazon and deputy chairman of the USSR Council of Ministers N. Laverov, came into force, namely, the Agreement on the UNIDO Centre for International Industrial Cooperation in Russia and the Trust Fund Agreement.. The signed documents determined that the office in Moscow will be an integral part of UNIDO, and a special trust fund was established under a separate agreement between UNIDO and the Government to finance the CIIC. Thus, a UNIDO unit, that was designed to develop the scientific and industrial cooperation of Russian companies with partners from developed and developing countries, was formed and began its work in Moscow.

After the Russian Federation became the donor country (Russian Federation annually contributes 2.6 million USD to UNIDO Industrial Development Fund) the emphasis in cooperation lays on implementation of projects aimed at supporting and developing the industrial sector, introduction of international standards in the field of education, energy, environment, water, attraction of investments into the country's economy, environmental conservation and protection, creation of effective mechanisms for hazardous waste treatment, as well as implementation of Russia's obligations under international protocols and conventions (the Montreal Protocol, the Stockholm Convention , the Basel Convention and others).

# FACTS & FIGURES

50

## EVENTS

with the participation and / or informational support of the UNIDO ITPO Russian Federation in order to raise awareness of the activities of UNIDO worldwide

5

## REPORTS

To raise awareness of the tasks of PCB utilization and Russia's fulfillment of obligations under the Stockholm Convention

15K

## SAMPLES

sampling certificates were entered into the database within the framework of the PCB destruction project at the enterprises of Russian Railways and other owners "

2,4K

## FACEBOOK

Views of post and video of the UNIDO ITPO Russian Federation, 2020

11,7K

## TWITTER

Views of tweets of the UNIDO ITPO Russian Federation, 2020



## EVENTS 2020



*BOD RETREAT AND ITPO HEADS MEETING*

**15-17 JANUARY, VIENNA**

### **BOD RETREAT AND ITPO HEADS MEETING**

At the beginning of the year, two significant events were held in Vienna - Board of Directors Meeting (Retreat) and meeting of the Heads of the UNIDO Worldwide Office Network (ITPOs) took place in Vienna. The director of the UNIDO Centre in the Russian Federation (ITPO Russia), Sergey Korotkov, took part in both events as well as working meetings at which the results of the work of offices for 2019 were summarized and priorities for 2020 were worked out.

## MOSCOW, JANUARY 31

### II ALL-RUSSIAN CONGRESS OF ENTERPRISES EMPLOYED IN THE FIELD OF MANUFACTURING WASTE PRODUCTION AND CONSUMPTION

At the end of January, the II All-Russian Congress of enterprises engaged in the field of waste management of production and consumption was held in Moscow. The event was organized by the ECORECYCLING Interregional Industrial Corporation and the OPORA RUSSIA All-Russian Public Organization of SMEs.

During the Congress issues such as achieving indicators set by the National Ecology Project and improving the efficiency of facilities for waste management were discussed, as well as compiling recommendations for federal executive bodies from organizations operating in the field of waste management. The Congress was attended by representatives of legislative and executive bodies of state power at the federal and regional levels, representatives of enterprises engaged in the field of waste management of production and consumption, educational, scientific and public organizations. Sergey Korotkov took part in the Congress as a member of the Presidium and supported the tasks highlighted at the agenda.

## MOSCOW, FEBRUARY 17

### GLOBAL ENERGY ASSOCIATION AND UN: FIRST CONTACT

On February 17, a meeting was held between the Global Energy Association and representatives of UN organizations in Russia. Global Energy is a prestigious international award for outstanding research and development in the field of energy, which helps all mankind solve the most acute and difficult energy problems. Sergey Briley, President of Global Energy, Deputy General Director of Rossiya TV Channel for Special Information Projects, Head and Leader of the Saturday News Program, said in his speech that the Association is interested in participating in the UN Climate Change

Conference in 2020, representatives of the International Committee, as well as winners of the Global Energy Award. Sergey Brilev also noted that Global Energy is interested in media partnership with UN information resources.

Vladimir Kuznetsov, director of the UN Information Centre in Moscow, spoke about the main goals, principles and structure of the work of the United Nations, focusing on 17 Sustainable Development Goals. “The peculiarity of the sustainable development agenda until 2030 is that it represents a new philosophy that is addressed to both developed and developing countries,” said Vladimir Kuznetsov. Ivan Seregin, national consultant of the UNIDO Centre in the Russian Federation, emphasized that UNIDO provides technical and advisory assistance to countries in implementing Goal 9 on sustainable industrial development. This work, in particular, is to increase the energy efficiency of production, including the introduction of an energy management system.



GLOBAL ENERGY ASSOCIATION AND REPRESENTATIVES OF UN ORGANIZATIONS

## 7 - 28 APRIL, MOSCOW-ONLINE

### EMPLOYEES OF THE UNIDO CENTRE IN THE RUSSIAN FEDERATION TRANSFERRED TO A REMOTE WORK

Due to the restrictions imposed by the pandemic, UNIDO staff and UN system workshops were moved to the Zoom digital site in April. Employees were transferred to a remote mode of work since March 18.

Active work continues on the UNIDO / GEF project “Environmentally sound regulation and final destruction of PCBs at the enterprises of Russian Railways and other owners”.



ZOOM WORK MEETINGS

In addition, the work of the Centre for organizing the participation of Russian companies in the field of high and nature-free technologies on the virtual platform of the Global Summit on Production and Industrialization GMIS 2020 was resumed.

This year, due to the imposed restrictions, GMIS 2020 will be held in digital format in full accordance with the Summit's mission - the development of Industry 4.0 technologies. The summit will bring everyone together in a series of digital sessions that will take place in June and July 2020 under the hashtag #GermanyConnects.

## MOSCOW, MAY 28-29

### ONLINE MEETING OF NORWEGIAN AND RUSSIAN EXPERTS OF CHEMICAL CONVENTIONS

On May 28-29, 2020, an online meeting of Russian and Norwegian experts on chemical conventions was held. The meeting was organized by the Ministry of Natural Resources and Ecology of the Russian Federation. The event was attended by representatives of the Stockholm Convention Regional Centre in Russia, the Norwegian Environmental Protection Agency, large energy companies and others. During the meeting, issues related to the implementation of the provisions of chemical conventions on the territory of Norway and Russia, environmentally safe storage and burning of waste were discussed.

Director of the UNIDO Centre in the Russian Federation Sergey Korotkov presented the UNIDO / GEF project "Environmentally sound regulation and the final destruction of equipment and materials containing PCBs at the enterprises of Russian Railways and other owners" as a successful example of the implementation of the provisions of the Stockholm Convention in Russia. Sergey Korotkov emphasized that the implementation of the Stockholm Convention on POPs in Russia, the disposal of PCB-containing equipment and materials reached a new level of interagency cooperation and pooling efforts, with the coordinating role of the Russian Ministry of Natural Resources.

Norwegian and Russian experts also discussed the work of countries under the Minamata Convention, demercurization and environmentally safe storage of hazardous waste. The Minamata Convention on Mercury and the Stockholm

Convention on POPs, designed to protect human health and the environment from the harmful effects of hazardous substances, are constantly updated and discussed by world experts, and are also under the scrutiny of UNIDO.

## VIENNA, ONLINE, JUNE 15-16

### UN GLOBAL COMPACT LEADERS SUMMIT

The 20th UN Global Compact Leaders Summit was held online. UN Secretary-General António Guterres has called COVID-19 “the greatest test that we have faced together since the formation of the United Nations”.

“This pandemic is an important reminder that no nation, no business, no individual is stronger than the weakest among us in our interdependent world. Everyone is invited to inspire, learn and contribute to the strong recovery the world needs.

As we continue to combat current crises such as climate change and COVID-19, we must also reinvigorate our fight against the historically enduring, deep-rooted and deadly threat of racism. We at the UN Global Compact call on all companies to actively reject and fight racism in all its forms and encourage all our speakers to share their best practices at the Leaders Summit”, - Mr Guterres said.

UNIDO national expert Ivan Seregin took part in the Summit. In the session, “Innovative Recovery from COVID-19: The Strength of Public-Private Partnerships”, UNIDO Director General Mr. Li Yong together with Mr. Hayfa Khalfoui, UNIDO Beneficiary, Founder of Lait Espoir (Mashrou3i) and Ms. Elisabeth Moreno, vice president and managing director of Hewlett-Packard (HP) Africa, discussed the importance of global intersectoral collaboration in the context of COVID-19. Participants discussed successful examples of how such partnerships supported young local entrepreneurs and how innovative joint recovery can be achieved in inclusive and sustainable industrial development to build a better future.

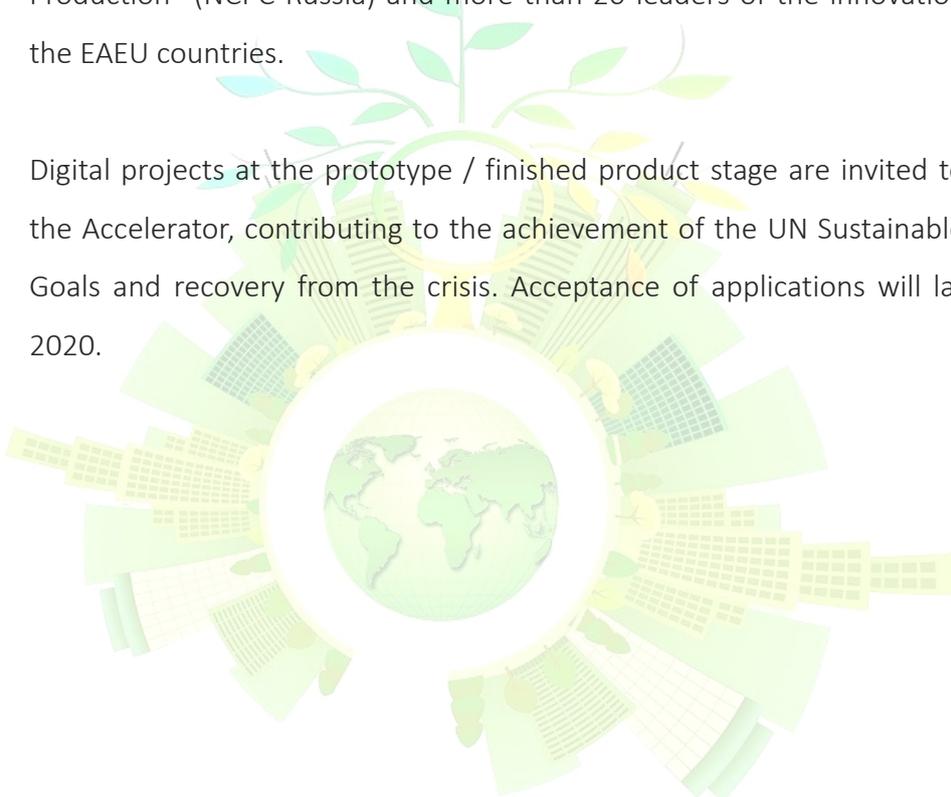
MOSCOW, ONLINE, JUNE 16

## PRESENTATION OF DIGITAL ACCELERATOR OF SUSTAINABLE DEVELOPMENT

On June 16th, within the framework of the EAEU Day, the presentation of the Digital Accelerator of Sustainable Development was held at the 5th annual Week of Sustainable Development with the participation of 300 experts, the leadership of VEB.RF and the International Telecommunication Union. Sergey Korotkov represented the UNIDO Centre for International Industrial Cooperation in the Russian Federation at this event.

For the first time, the Accelerator united the EAEU business and innovation communities in order to accelerate the introduction of digital technologies to recover from the crisis and transition to growth based on the UN Sustainable Development Goals. The organizers are the Evercity company with the support of its infrastructure partner VEB.RF, as well as the International Telecommunication Union, the United Nations Global Compact Network, the Russian Carbon Fund, the CSR Central Asia Agency, the UNIDO Centre for International Industrial Cooperation in the Russian Federation (ITPO UNIDO Russian Federation), ANO “National Centre for Cleaner Production” (NCPC Russia) and more than 20 leaders of the innovation ecosystem of the EAEU countries.

Digital projects at the prototype / finished product stage are invited to participate in the Accelerator, contributing to the achievement of the UN Sustainable Development Goals and recovery from the crisis. Acceptance of applications will last until August 2020.



## MOSCOW, ONLINE, JUNE 30, 2020

### XI FORUM OF INNOVATIVE TECHNOLOGIES INFOSPACE

On June 30st, the digital communication platform XI InfoSpace Innovation Technologies Forum was held. The agenda was “Digital Leadership. Strategies, personnel, technologies.”

The purpose of the Forum is to build a tight communication between representatives of the business community, government and science, and also show entrepreneurs how to expand their businesses successfully, interact with other participants in the business process and find a common language with the federal and regional authorities. During the Forum, plenary sessions were held, as well as various strategic sessions. Director of the UNIDO Center in the Russian Federation Sergey Korotkov was invited as a speaker in the session “Innovation Energy for the Fuel and Energy Sector”.

Sergey Korotkov in his speech spoke about UNIDO's tools to support sustainable development, mentioned the positive experience of implementing the project “Market Transformation Programme on Energy Efficiency in Greenhouse Gas-intensive industries in the Russian Federation”, intended to develop energy efficiency in Russian industry by developing a systematic approach to efficiency and providing free assistance in the implementation of energy management systems in accordance with the international standard ISO 50001. Sergey Korotkov also spoke about the main activities of the UNIDO Center in the Russian Federation and possible forms of cooperation with UNIDO.

## VIENNA ONLINE, JULY 14th

### AWARDING THE WINNERS OF THE UNIDO GLOBAL CALL VS. COVID-19

On July 14, during the final awards ceremony, the winners of the UNIDO global competition "Innovative Ideas and Technologies Against COVID-19 and Beyond" were

announced live. More than 1,100 applications were submitted for the competition from 108 countries around the world. The initiative has helped expand the range of innovative solutions and technologies around the world to help developing countries cope with the devastating impact of the COVID-19 pandemic.

The winners in the four strategic Global Call categories were determined by a vote of a jury of internal and external experts. Sergey Korotkov, Director of the UNIDO Center in Russia, was a member of the jury of the competition. During his closing remarks, Weixi Gong, Chief, Investment and Technology Promotion Division, ITP Network Secretariat Coordinator, commented that the solutions identified through the Global Call offer an opportunity in view of recovering from the current COVID-19 crisis.

## MOSCOW, JULY 16th

### TASS CONFERENCE ON THE RESULTS OF PRESENTATION OF THE RUSSIAN REPORT AT THE UN FORUM - UN GLOBAL COMPACT

On July 16, the TASS conference of the national network of the UN Global Compact was held online. The conference covered the results of the work of the UN High Level Political Forum (HLPF) in New York from 7 to 16 July 2020, during which the first Russian voluntary review on the Sustainable development (SDGs) by 2030. Director of the UNIDO Center in the Russian Federation Sergey Korotkov made a presentation on the issues of responsible business in the framework of the SDGs implementation.

Among the speakers were Ms. Tatiana Valovaya, Director General of the United Nations Office in Geneva, Mr. Inger Andersen, Executive Director of the United Nations Environment Program (UNEP), Mr. Vladimir Rakhmanin, Regional Representative of the Food and Agriculture Organization of the United Nations for Europe and Central Asia, and Ms. Alexandra Davidsson, Secretary General of the Swedish Conscious Consumption Association, Founder and General Director of VATI of Sweden AB Eva Vati, Project Coordinator of the UN Human Settlements Program Mr. Luis Herrera Favela, Head of Social Affairs Department of Crescent Petroleum

Company (UAE) Mr. Oleg Bazaleev, Director of International Relations and Information Department of the International Investment Bank Ms. Anna Lvova, Head of the Investment Development Agency of the Republic of Tatarstan Ms. Taliya Minullina, Deputy Head of the Analytical Center for the Government of the Russian Federation Ms. Tatyana Radchenko, Director of the Department of Multilateral Economic Cooperation and Sp. social projects of the Ministry of Economic Development of the Russian Federation Ms. Natalya Stapran, Auditor of the Accounts Chamber of the Russian Federation Mr. Dmitry Zaitsev, Chairman of the Expert Council for the Long-Term Investment Market at the Bank of Russia Ms. Svetlana Bik and Managing Director for Corporate Responsibility, Sustainable Development and Social Entrepreneurship of the Russian Union of Industrialists and Entrepreneurs Ms. Elena Feoktistova.



SERGEY  
KOROTKOV,  
TASS  
CONFERENCE

The Sustainable Development Goals were adopted by all UN member states in 2015 as the main agenda for transforming the world and economy until 2030. This year's HLPF theme is "Acceleration and Transformation: A Decade of Action for Sustainability development ". 47 countries submit their reports, including the first voluntary review of Russia on the SDGs.

## MOSCOW-ONLINE, JULY 21st

### UNAI DIALOGUE ON THE DEVELOPMENT OF ECOLOGICALLY CLEAN CITIES

On July 21, under the auspices of UNAI, an online dialogue took place in the framework of the 75th anniversary of the United Nations (UN 75). The dialogue was devoted to the topic "Green cities and economic solutions of the academic community to achieve this goal". Among the speakers were Mr. Vladimir Moshkalo, Head of the UN Environment Program Office in Russia, Mr. Sergey Korotkov, Director of the UNIDO Center for International Industrial Cooperation in Russia, Dr. Galimkair Mutanov, Rector of the Kazakh National University named after Al-Farabi, Dr. Zhanna Mingaleva, Professor of Economic Sciences, Perm National Research Polytechnic University, Dr. Rakhat Sabyrbekov, Researcher of the OSCE Academy, Dr. Olga Ponizova, Director of the Center for Environmental Problems and Sustainable Development "Eco-Accord" .

Sergey Korotkov spoke about the importance of environmental solutions as part of the implementation of the SDGs set by the UN for sustainable development and the role of UNIDO in the implementation of these goals on the example of projects of the UNIDO Center in the Russian Federation.

"UNIDO is implementing a strategy of inclusive sustainable industrial development including urban development. In particular, in the development of affordable and clean electricity," he said in his speech.

More than a billion people around the world lack access to electricity, and countries that generate enough electricity have a dual challenge - to meet the rapidly growing demand for electricity and to protect the environment. The UNIDO Center in the Russian Federation contributes to the implementation of goal 9 "Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation". Global production growth has been steadily declining even before the

outbreak of the COVID-19 pandemic. The pandemic is currently hitting manufacturing industries hard and causing disruptions in global value chains and product supply. Innovation and technological advancement are key to find durable solutions to both economic and environmental challenges, such as improved resource efficiency and energy efficiency. Globally, investment in research and development (R&D) as a percentage of GDP increased from 1.5% in 2000 to 1.7% in 2015 and remained virtually unchanged in 2017, but in developing regions it was only less than 1 %.

Thus, inclusive and sustainable industrialization, along with innovation and infrastructure, can unleash dynamic and competitive economic forces that create employment and income. They play a key role in introducing and promoting new technologies, facilitating international trade and ensuring the efficient use of resources.

## **MOSCOW ONLINE, AUGUST 18**

### **MEETING ON COOPERATION WITH REPRES. FROM REP. OF ANGOLA**

August 18, at the initiative of representatives of the rep. of Angola hosted a regular online meeting on the concept of the project “Building technical and institutional capacity to increase production, development and sustainable management of value chains in the field of mariculture, aquaculture and fisheries in Angola”. Director of the UNIDO Center for International Industrial Cooperation in the Russian Federation Sergey Korotkov and Adviser to Director Anatoly Grigoriev took part in the zoom conference from.

From the side of the rep. of Angola from the Social Security Fund of the Angolan Armed Forces, the business center project and investment manager, Mr. Fábio Nunes Vidigal Belo, and the consultant to the development director, Mr. Duarte Augusto Mata de Ferreira, attended the meeting. The parties agreed on the stages of development of cooperation, taking into account mutual interests.

## MOSCOW ONLINE, 21 AUGUST

### ONLINE DISCUSSION WWF RUSSIA

On August 21, an online discussion on environmental and climate control in the context of active business recovery after the pandemic was held on the WWF-Russia social network VKontakte. UNIDO national expert Ivan Seregin took part in the discussion. Among the participants also were:

- Mikhail Babenko, Director of the Green Economy Program of WWF Russia
- Natalya Zubarevich, Professor of the Faculty of Geography, Moscow State University M.V. Lomonosov
- Sergey Bobylev, Professor, Head of the Department of Environmental Economics, Faculty of Economics, Moscow State University M.V. Lomonosov
- Julia Grishchenkova, Head of the Representative Office of the German Society for International Cooperation in Russia
- Matthias Wackernagel, President and Cofounder of the Global Ecological Footprint Network (GFN)
- Alexey Kokorin, Director of the WWF-Russia Climate and Energy Program

The participants discussed the possibilities of transferring environmental processes from spontaneous to regular ones, the needs and methods for assessing the consequences of environmental degradation, the prospects for economic recovery



IVAN SEREGIN,  
WWF-RUSSIA DISCUSSION

and the real mechanisms to reduce the ecological footprint. In addition, experts discussed the anthropogenic load on the planet in the next three years.

## MOSCOW, AUGUST 24

### ROUND TABLE "INDUSTRIAL CLUSTERS AND TECHNOPARKS AS EFFECTIVE TOOLS FOR DIVERSIFICATION OF THE MICEX: EXPERIENCE, TRENDS, PROSPECTS"

On August 24, in the Moscow region, within the framework of the international military-technical forum "Army-2020", a round table was held on the topic "Industrial clusters and technoparks as effective tools for diversifying defense enterprises: experience, trends, prospects". The event was organized under the auspices of the Association for the Development of Clusters and Technoparks of Russia with the participation of Sergey Korotkov, Director of the UNIDO Center for International Industrial Cooperation in the Russian Federation.

Following the results of the Round Table, a decision was made on cooperation between the UNIDO Center for International Industrial Cooperation in the Russian Federation and the Association of Clusters and Technoparks of Russia in order to analyze the National Standard of the Russian Federation "Technoparks. Requirements" GOST R 56425-2015 and, if necessary, create a package of proposals for amendments to the Standard in accordance with the standards of the International Electrotechnical Commission.

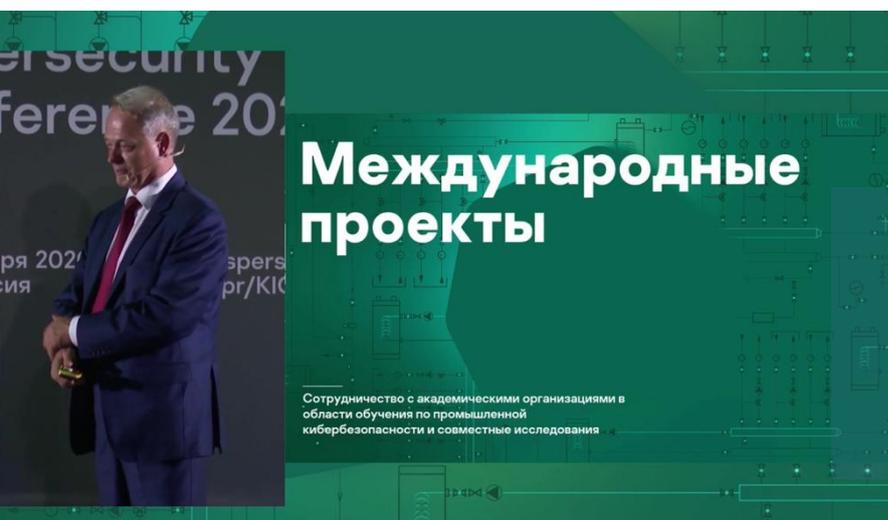
## SOCHI, 2-4 SEPTEMBER

### VIII INTERNATIONAL CONFERENCE KASPERSKY INDUSTRIAL CYBERSECURITY CONFERENCE 2020

On September 2-4, the VIII International Kaspersky Industrial Cybersecurity Conference 2020 was held in Sochi, Russia. During the conference, additional

measures of protection against coronavirus infection were organized for all participants and hotel personnel. This year, attendees were encouraged to discuss emerging trends in industrial cybersecurity, the current threat landscape, regulation, and best practices for cybersecurity for industrial plants and critical infrastructures.

Sergey Korotkov, Director of the UNIDO Center for International Industrial Cooperation in the Russian Federation, made a joint report with Andrei Suvorov, Director General of the NGO Adaptive Industrial Technologies, on the topic: “How UNIDO, together with partners, is solving the problem of the global lack of industrial cybersecurity competencies”. Speakers discussed UNIDO's strategic vision for Inclusively Sustainable Industrial Development (ISID) under the 9th Sustainable Development Goal “Build resilient infrastructure, promote inclusive and sustainable industrialization and innovation”. UNIDO actively promotes the development of information security systems for industrial facilities, taking into account the latest challenges facing Industry 4.0. UNIDO's efforts in this regard will strengthen the capacity of Member States moving to a new industrial manufacturing model and develop cybersecurity best practices for Member States in the process of moving to Industry 4.0, thereby avoiding losses and losses due to cyber attacks.



SERGEY KOROTKOV,  
KASPERSKY CYBERSECURITY  
CONFERENCE 2020

UNIDO implements projects and provides training in the form of academies, trainings, as well as online and offline courses. As part of its mandate, UNIDO is actively pursuing its activities in the area of enhancing cybersecurity. In particular, the

organization actively promotes dialogue with other organizations, holds international conferences with the aim of solving global problems related to cybersecurity and industrial security, and also provides an opportunity for those wishing to gain knowledge in the field of industrial systems protection.

For example, earlier this year, with the support of the UNIDO Center in Russia in partnership with the NGO Adaptive Industrial Technologies, the Kaspersky Lab's Industrial Infrastructure Information Security Incident Response Center developed a training course on industrial cybersecurity. An important strategic challenge in training personnel to work with large information systems of the future is the conscious application of the fundamentals of cybersecurity in the work with service data, affecting the resilience of the rapidly growing digital enterprise landscape.

## 4-5 SEPTEMBER

### KASPERSKY LAB SPEAKED AT GMIS 2020 VIRTUAL SUMMIT

The Global Manufacturing and Industrialization Summit took place from 4 to 5 September 2020 virtually. This time, it will be conducted as a virtual summit addressing “Glocalization: Towards inclusive and sustainable value chains”. UNIDO is highly-active in the agenda, with the Director General of UNIDO, Mr. LI Yong, delivering a keynote opening address, while Mr. Bernardo Calzadilla-Sarmiento, Managing Director, Directorate of Digitalization, Technology and Agri-Business, was speaking in a high-level panel on standardization with several other colleagues taking part in expert groups during the Summit.

The vision of the Global Initiative for Future Industrial Safety is to create a platform that will coordinate and promote safety cultures through discourse and project implementation. The initiative, a partnership between Lloyd’s Register Foundation, the United Nations Industrial Development Organization (UNIDO) and the Global Manufacturing and Industrialisation Summit (GMIS), aims to bridge the gaps between academia, industry, regulators, NGOs and governments.

Participants in the working group included Joaquim Pintado Nunes, Chief of the Labour Administration, Labour Inspection and Occupational Safety and Health Branch, International Labour Organisation (ILO), Irina Sokolova, Head of International Relations Department Federal Environmental, Industrial and Nuclear Supervision Service of Russia, Rostechnadzor, Evgeny Goncharov, Head Kaspersky Lab ICS CERT, JC Sekar, CEO, Acuzen Technologies, Robert Jefferson, Medical Director Occupational Health, International SOS, Michael Tooma, Managing Partner, Australia Clyde & Co, Jane Zavalishina, CEO and President, Mechanica AI, John Marshall, CEO, World Ethical Data Forum, Kate Field, Global Head Health, Safety and Wellbeing, British Standards Institution (BSI), and Nikki McCullough, Global Application Engineering and Regulatory Manager, Personal Safety Division, 3M. In terms of predictions, GMIS participants expressed their vision of the world after the pandemic.



Andrey Suvorov, Head of Business Development, IIoT Cyber Security, Kaspersky, acknowledged the existence of a skills gap and said that certain skills will become increasingly important and relevant for workers in the manufacturing sector to stay competitive in the coming years. “Regardless of the technologies and research we have all been conducting during the era of the fourth industrial revolution, we are faced with a big challenge which is the fundamental skills gap for the industrial revolution,” he said. He singled out cybersecurity for special attention, saying that it had shifted from being a specialist discipline to becoming a priority at the boardroom level. “Cyber risks are either number one or number two priority for big corporations, which means paying special attention and understanding to those,” he said.

## MOSCOW, SEPTEMBER 30

### A FRANCO-RUSSIAN FORUM ON LOW-CARBON INDUSTRIAL DEVELOPMENT

On September 30, 2020, an online Franco-Russian forum on low-carbon industrial development was held. The Forum was organized by the Center for Scientific and Technological Cooperation Nauka Innov at the Franco-Russian Chamber of Commerce and Industry (CCI France Russie), the Trade Mission of the Russian Federation in France, the Russian Partnership for Climate Preservation and the Ministry of Economic Development of the Russian Federation.

The forum consisted of 4 sessions: green metallurgy, green finance, low carbon energy, green mobility and sustainable transport. At the session on low-carbon energy, participants presented their solutions in the field of natural gas, green hydrogen and renewable energy sources. Special attention was paid to the energy efficiency of digital technologies as an important source of decarbonisation, which can reduce CO<sub>2</sub> emissions by 10-15% by improving the production process and optimizing energy consumption. Russian and French speakers unanimously noted that green factories will play a key role in the transition to Industry 4.0.

Ivan Seregin, UNIDO national expert, made a presentation “Reducing the carbon footprint and increasing energy efficiency of enterprises using the UNIDO methodology”. In his report, Ivan spoke about the UNIDO Program for the Implementation of Energy Management Systems, as well as an example of the successful implementation of such a program within the UNIDO project “Development of Market Mechanisms for Increasing Energy Efficiency in Energy-Intensive Industries of the Russian Industry” carried out by the UNIDO Center in the Russian Federation.

Concluding the Forum, General Director of the Franco-Russian Chamber of Commerce and Industry Pavel Shinsky noted: “Today's conversation opened a number of new issues: the development of green metallurgy, the issue of sustainable transport and

green financing. We will see how the cooperation between France and Russia along these highways will be built. "

## MOSCOW, OCTOBER 16

### THE III BRICS YOUTH ENERGY SUMMIT

The summit was the final event of the BRICS Energy Week, which was held on October 10-16 under the patronage of the Russian Ministry of Energy together with partners in the framework of Russia's chairmanship in the BRICS association. The BRICS Youth



III BRICS YOUTH ENERGY SUMMIT

Energy Summit is the largest youth event in the BRICS space in the field of energy. This year's Summit was attended by delegations from all five countries, consisting of representatives of departments responsible for the implementation of energy and youth policy, as well as over 150 young scientists and professionals from 40 leading universities and industry organizations. Within the framework of the Summit, the third edition of the global youth research BRICS Youth Energy Outlook was presented, as well as the Final Event #FromBRICSwithSDG as part of the 2020 Campaign on Sustainable and Energy Efficient Cities.

SERGEY KOROTKOV  
III BRICS YOUTH ENERGY SUMMIT



Sergey Korotkov took part in the Summit and supported the initiatives of the working groups to develop recommendations on sustainable urban management projects.

**MOSCOW, OCTOBER 16**

### **RAEX-EUROPE TOGETHER WITH SCHNEIDER ELECTRIC HELD ONLINE THE WEBINAR “ENERGY EFFICIENCY IN RUSSIA”**

The webinar was dedicated to the emission reduction strategy for industrial companies and practical solutions from Schneider Electric. Among the speakers were Svetlana Grishankova, Managing Director of RAEX-Europe, Daniil Pilipenko, Sales

Manager, Energy & Sustainability Services CIS, Schneider Electric and Sergey Korotkov, Director, CIIC (ITPO) Russian Federation.

Вебинар, 21 октября 2020

## Энергоэффективность в России

- ✓ Стратегия по снижению выбросов для промышленных компаний
- ✓ Стимулы к снижению объема выбросов
- ✓ Ключевые шаги по снижению выбросов компаний
- ✓ Примеры практической реализации стратегий

Спикеры:

**Сергей Коротков**,  
CIIC (ITPO) Россия

**Даниил Пилипенко**  
Sales Manager, Energy & Sustainability Services CIS,  
Schneider Electric

**Светлана Гришанкова**  
Управляющий директор,  
RAEX-Europe

RAEX-EUROPE  
ENERGY EFFICIENCY IN RUSSIA  
WEBINAR

Speakers discussed the problems that industrial companies face in implementing Emission reduction strategy and key steps to reduce company's CO2 emissions on local and international levels.

## MOSCOW, NOVEMBER 10

### XV NATIONAL CONGRESS "MODERNIZATION OF THE RUSSIAN INDUSTRY: DEVELOPMENT PRIORITIES"

On November 10, 2020, the 15th National Congress "Modernization of Russian Industry: Development Priorities" was held at the Presidential Property Management Department of the President-Hotel Group (Moscow, Bolshaya Yakimanka St., 24). The key topic of the National Congress-2020 is "Technological breakthrough. Industrialization 4.0". The main task is to facilitate business initiatives in the development, production and export of high-tech products.

Sergey Korotkov, Director of UNIDO ITPO Russia, made a presentation on "PCB Inventory as a Part of the Strategy for Modernizing the Industry of the Fuel and Energy Complex of Russia". In his speech, Sergey Korotkov emphasized the need for inventory,

labeling and analysis of PCB-containing equipment at enterprises until 2025. This is primarily due to the fulfillment of Russia's obligations to the international community under the Stockholm Convention, which was ratified by Federal Law No. 164 of June 27, 2011. According to the inventory data, the share of fuel and energy enterprises in the volume of PCBs today is 27%, which is about 8 thousand tons. The total number of PCB equipment is 152,572 units, incl. transformers - 1313 units and capacitors - 151 259 units.



SERGEY KOROTKOV  
XV NATIONAL CONGRESS  
"MODERNIZATION OF THE RUSSIAN  
INDUSTRY: DEVELOPMENT PRIORITIES"

According to the national plan for the implementation of the Stockholm Convention, a comprehensive inventory of equipment and other facilities potentially containing PCBs should be completed by 2025. To accomplish this task, within the framework of the UNIDO-GEF project "Environmentally sound regulation and final destruction of PCBs at the enterprises of Russian Railways and other owners", laboratory facilities were created, accredited to conduct inventory and analyzes for PCBs. Laboratories allow analyzing electrical insulating liquids for the presence and concentration of PCBs in accordance with GOST R IEC 61619-2014 "Insulating liquids".

"The decommissioning of PCB-containing equipment will help improve the environment and modernize industry, as well as fulfill Russia's obligations under the Stockholm Convention," said Mr. Korotkov.

## SAINT PETERSBURG, 10-12 DECEMBER

### THE X INTERNATIONAL FORUM "ARCTIC: PRESENT AND FUTURE"

In the northern business-city, under the auspices of the Interregional Public Organization "Association of Polar Explorers", a large-scale forum was held aimed at solving problems related to the development of the Arctic region of Russia. The forum brought together more than 2500 participants from 70 regions and 15 states. The partners of the forum were PJSC MMC Norilsk Nickel, PJSC Novatek, PJSC MegaFon, PJSC NK Rosneft, OJSC Supertel. The general information partners were MIA Rossiya Segodnya and the Russian news agency TASS.

Sergey Korotkov, Director of the UNIDO Center in Russia, made a detailed presentation on "UNIDO's experience in implementing projects to reduce the ecological footprint". In his report, Sergey mentioned the need to eliminate PCB-containing liquids and equipment contaminated with PCBs in Russia under the Stockholm Convention on POPs in an environmentally friendly way by 2028. According to experts, the bulk of PCB-containing substances is found in the energy sector, as well as in the coal mining and oil refining industries. The total amount of PCBs in the fuel and energy complex is about 8 thousand tons. The total amount of PCB equipment is 152,572 units, incl. transformers - 1313 units, capacitors - 151,259 units.

UNIDO has created premises for the analysis and inventory of hazardous PCBs within the framework of the UNIDO-GEF project "Environmentally sound regulation and final destruction of PCBs at the enterprises of Russian Railways and other owners". These are mobile laboratories accredited to carry out inventories and analyzes for the content of PCBs. In the laboratories it is possible to conduct analyzes of electrical

insulating liquids for the presence and concentration of PCBs in accordance with GOST R IEC 61619-2014 "Insulating liquids.



SERGEY KOROTKOV,  
X INTERNATIONAL FORUM "ARCTIC:  
PRESENT AND FUTURE"

The main outcome of the forum will be a resolution with the initiatives of the participants. The document will be sent to the relevant committees of the upper and lower chambers of the Federal Assembly, the Government of the Russian Federation, and the State Commission for the Development of the Arctic. The UNIDO Center in the Russian Federation sent its proposals to the final resolution of the Forum on the development of projects that contribute to the fulfillment by the Russian Federation of obligations under the Stockholm Convention in the area of inventory and disposal of PCBs until 2028.

# ITPO RUSSIA PROJECTS



## ENVIRONMENTALLY SOUND MANAGEMENT AND FINAL DISPOSAL OF PCBs AT THE RUSSIAN RAILROAD NETWORK AND OTHER PCBs OWNERS

### **Background**

UNIDO project «Environmentally sound management and final disposal of PCBs at the Russian railroad network and other PCBs owners» aimed for creation of the state PCBs management system in the Russian Federation, PCBs identification system in the energy equipment of industrial enterprises, safe maintenance of PCB-contaminated energy equipment and PCBs environmentally sound disposal in accordance with Russian and international regulations. The project partners are Russia Railroads, JSC, as one of the major PCB-owners in the country, «Vodokanal of St. Petersburg» SUE; Gubkin Russian State University of oil and gas (National Research University).

## Goals

- Institutional, regulatory and workforce capacity building for implementation and performance of PCBs environmentally sound management system;
- Country-wide inventory of PCB-contaminated equipment and wastes;
- Environmentally sound management and disposal of PCB-contaminated equipment and wastes.

## 2020 Achievements

### Component 1.1. Strengthening of the policy and regulatory framework

The project team continues to be active in the framework of the Plan for the implementation of the Stockholm Convention on POPs in Russia. The UNIDO project team is an active member of the Working Group, participates in meetings, and also develops the necessary proposals to improve the legislative framework for PCB management. The UNIDO team is in constant communication with representatives of the Working Group, and also provides the necessary information regarding the implementation of the project. Thus, the project manager took an active part in an online meeting of Norwegian and Russian experts on chemical conventions, organized by the Ministry of Natural Resources and Environment of Russia. The UNIDO / GEF project was presented at the meeting as a successful example of the implementation of the provisions of the Stockholm Convention in Russia.

As the result of active work with Ministries and concerned departments, as well as promoting the goals of the project, on September 16, 2020, a letter was signed by the Deputy Minister of Energy of the Russian Federation A. Yanovsky, in which the Deputy Minister informs that in accordance with paragraph 2 of the Government Resolution RF dated 30.07.2014 No. 720 the Ministry of Energy is authorized to fulfill the obligations stipulated by the Stockholm Convention, and the Ministry of Energy draws attention to the fact that laboratory tests for PCB identification make it possible to plan the withdrawal of equipment contaminated with PCBs from circulation more

effectively. The laboratories established under the UNIDO project were mentioned in the letter as one of the possible tools for conducting an inventory and performing analyzes for PCB identification. The letter was sent to representatives of forty industrial and energy enterprises with a request, if necessary, to organize an instrumental inventory of transformer equipment in terms of laboratory tests for PCB presence.

### Component 1.2. Training on the new regulations for the staff of the federal and regional government agencies, customs authorities, NGO's and PCB owners.

In 2020 national experts participated in various events and conferences to promote the goals of the project (Online meeting of Russian and Norwegian experts on chemical conventions, Russian inter-sectoral summit "Industrial Ecology", XI International Forum "Ecology", X International Forum "Arctic: present and future ", International Energy Forum). The project experts talked about the fact that a comprehensive inventory of PCBs in organizations of different industries should be prepared methodically, organizationally, and instrumentally, and such an inventory will be in line with the plan for the implementation of the Stockholm Convention on POPs in Russia. Based on the results of the past events, resolutions were drawn up, which were distributed among interested organizations to develop new initiatives within the project.

During the current period, the project team has been actively working with the National Coordination Center of the Russian Federation for the Stockholm Convention on POPs in terms of the exchange of information and methodological materials regarding the regulation and destruction of PCBs.

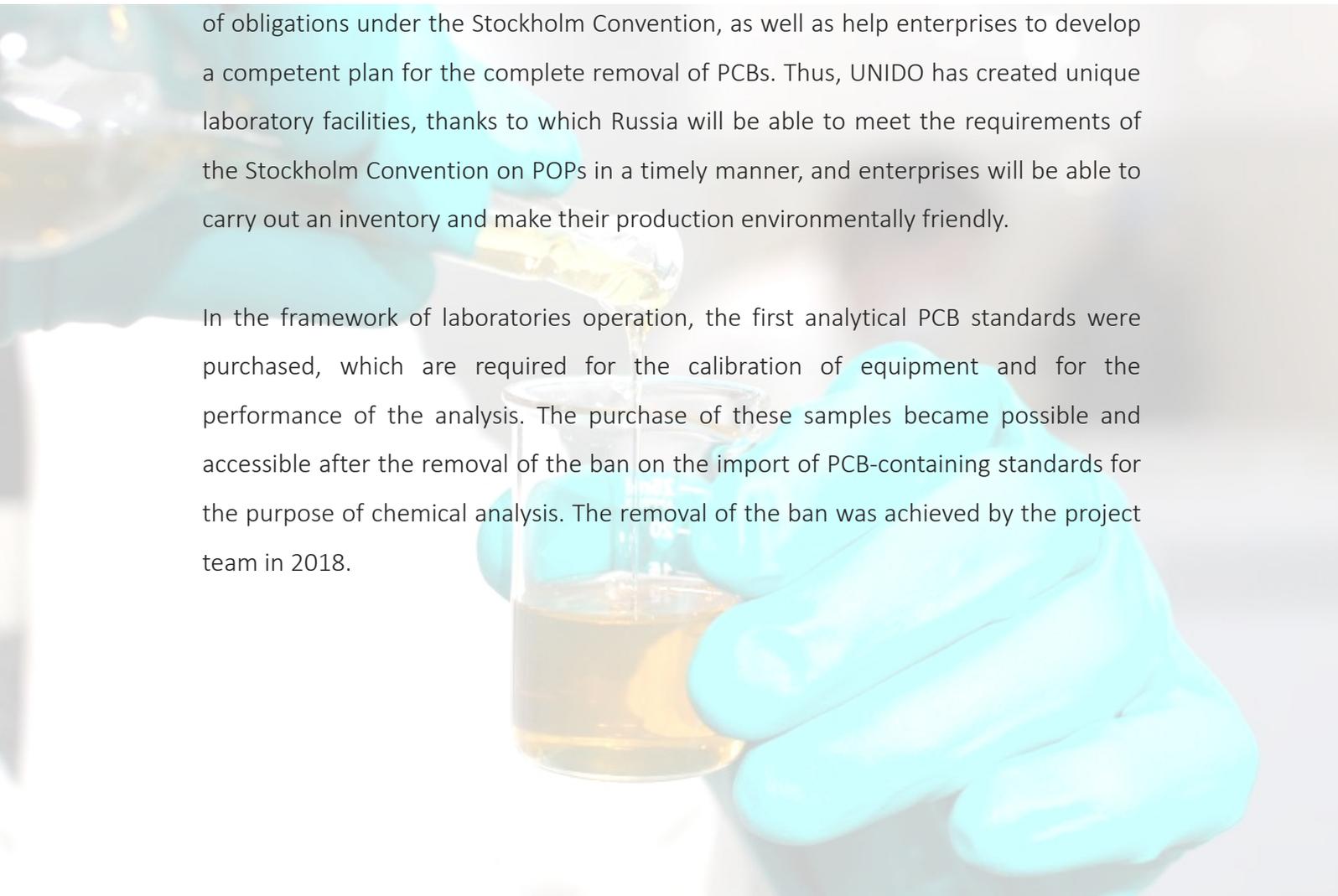
During the reporting period, cooperation was carried out with public organizations in the framework of raising public awareness, as well as with scientific organizations

working with persistent organic pollutants. Cooperation includes consultations on the implementation of the Stockholm Convention on POPs in the Russian Federation, discussion of regulatory legal acts in terms of regulating PCB management, exchange of experience on inventory and destruction of PCBs.

### Component 2.1. Adoption of methods for PCBs analysis and accreditation of 3-4 laboratories for PCB analysis

During the reporting period, two mobile chemical-analytical laboratories were manufactured and put into trial operation, which allow analyzing samples of insulating liquids for the presence and concentration of PCBs in accordance with GOST IEC 61619-2014. The laboratories comply with the requirements established in the international standard ISO / IEC 17025: 2017 (GOST ISO / IEC 17025-2019) and have successfully passed the accreditation to carry out PCB analyzes (Accreditation Certificate No. AACCA 00501 dated July 13, 2020). Laboratory staff were trained in accordance with international standards and programs under the Stockholm Convention on POPs. The results of the analyzes can be used to confirm the fulfillment of obligations under the Stockholm Convention, as well as help enterprises to develop a competent plan for the complete removal of PCBs. Thus, UNIDO has created unique laboratory facilities, thanks to which Russia will be able to meet the requirements of the Stockholm Convention on POPs in a timely manner, and enterprises will be able to carry out an inventory and make their production environmentally friendly.

In the framework of laboratories operation, the first analytical PCB standards were purchased, which are required for the calibration of equipment and for the performance of the analysis. The purchase of these samples became possible and accessible after the removal of the ban on the import of PCB-containing standards for the purpose of chemical analysis. The removal of the ban was achieved by the project team in 2018.



## Component 2.2. Undertaking the extended PCB inventory

Samples of transformer oil (15,000 units), selected within the 1st, 2nd and 3rd stages of the inventory, are stored in the contractor's warehouse until they are transferred to the laboratory for analysis. Every month, the project experts monitor the storage of the collected samples, check the compliance with the temperature regime and the sealing capacity of the package.

During the current period, specialists of Russian Railways, in cooperation with project experts, held joint consultations and meetings to develop and improve procedures for handling PCB-containing equipment and decommissioning schemes, as well as to expand the list of roads and locomotives, where it will be possible to carry out an inventory in the future.

## Component 2.3. PCBs inventory labeling and database established

The established database to monitor the implementation of the provisions of the Stockholm Convention on POPs aiming at taking inventory of manufactures, equipment, materials using or containing PCBs as well as PCB-containing wastes in the Russian Federation was fully filled with the collected information. In the course of the project, it was possible to identify and transfer to the database more than 15,000 sampling acts, to determine the exact location of transformers, their brand and year of manufacture.

## Component 3.2. Selection of Environmentally Safe Disposal Technology

Rosatom, by order of the government, became an operator for the disposal of waste of 1-2 hazard class and in this connection the project team decided to transfer the equipment "PCB Meliform-5000" for decontamination of transformer oils to Rosatom subsidiary "Rusatom Greenway" LLC. During 2020, Rusatom Greenway carried out work on the preparation and licensing of the site for receiving the installation, which is located in the city of Krasnoyarsk. At the current stage, the installation has been safely transported to the territory of the industrial and technological complex and is

awaiting the start of work with the analyzed samples. The design capacity of the installation will make it possible to neutralize up to 1200 tons of waste of 1-2 hazard class. The installation allows not only to purify electrical insulating liquids from PCB contamination to values below the limited ones (50 mg / kg, at least 0.5 mg / kg), but also to provide additional purification of oil from mechanical impurities and residues for reuse in electrical equipment.

### Component 3.3. Environmentally Safe Disposal of 3800 tons of PCBs

In the reporting period, the installation of a high-temperature disposal unit for PCB-containing wastes and materials based on gas-plasma technology began. The project experts are actively working with equipment suppliers, control the process of manufacturing, and provide the necessary methodological information. Commissioning of this unit is expected in mid-2021. The supply of installations for the disposal of PCB-contaminated transformer oils with subsequent disposal and thermal neutralization of PCBs within the project will provide an integrated approach to the management of PCB-containing wastes with different concentrations of pollutants and will accelerate the pace of the Russian Federation's fulfillment of obligations under the Stockholm Convention on POPs.

Based on the results of laboratory analyzes of selected samples of transformer oil, specialists of Russian Railways, together with UNIDO experts, will draw up a schedule for cleaning PCB-containing transformers with a purification unit.

### Launch of mobile laboratories "ECOPUR" for PCBs' detection

In Russia, within the framework of a UNIDO project, two mobile test chemical-analytical laboratories were launched. High tech equipment make it possible to analyze samples of electrical insulating liquids for the presence and concentration of polychlorinated biphenyls (PCBs).

By Federal Law No. 164 of June 27, 2011, Russia ratified the Stockholm Convention on Persistent Organic Pollutants (POPs). The Stockholm Convention stipulates that the

participating countries are obliged to inventory, label and stop using equipment containing PCBs by 2025, and by 2028 to ensure the elimination of PCB-containing liquids and equipment contaminated with them in an environmentally friendly way.

Later, by order No. 529 of 03.10.2017, the Ministry of Natural Resources of Russia approved a plan for the fulfillment of the obligations by the Russian Federation under the Stockholm Convention. The main burden of the implementation of the national plan falls on the owners of the already generated waste, as well as on the enterprises operating the equipment (transformers, capacitors). Thus, enterprises are obliged to conduct a comprehensive inventory of equipment, oils and wastes containing PCBs, as well as places of storage and disposal of waste. Based on the results of the inventory, the enterprises will be obliged to decommission the contaminated PCB equipment and carry out the safe disposal of waste in a timely manner.

Taking into account the deadlines for the fulfillment of the first stage of Russia's obligations under the Stockholm Convention, determined until 2025, it is highly relevant to conduct the instrumental part of the comprehensive inventory. The main task of this event is to determine the actual level of PCB content in the equipment in operation on the basis of the laboratory analyzes carried out, to record it and proceed to the phase of elimination of PCB-containing oils and equipment contaminated with it.

At the moment, in the Russian Federation, within the framework of the UNIDO / GEF project "Environmentally sound regulation and final destruction of PCBs at the enterprises of JSC Russian Railways and other owners", two mobile test chemical and analytical laboratories have been created and put into trial operation, which allow the analysis of samples of electrical insulating liquids for the presence and concentration of PCBs in accordance with GOST IEC 61619-2014. The laboratories comply with the requirements established in the international standard ISO / IEC 17025: 2017 (GOST ISO / IEC 17025-2019) and have successfully passed accreditation to conduct analyzes for PCBs.

The results of the analyzes can be used to confirm the fulfillment of obligations under the Stockholm Convention, as well as help enterprises to develop a competent plan for the complete withdrawal of PCBs from their circulation. Thus, UNIDO has created unique laboratory facilities, thanks to which Russia will be able to meet the requirements of the Stockholm Convention on POPs in a timely manner, and enterprises will be able to successfully carry out an inventory and make their production environmentally friendly.

### Further project plan

In the framework of the project for 2020-2021 the following events are planned:

- Legislative work in connection with the establishment of the Interagency Working Group to coordinate the implementation of the National Implementation Plan of the Stockholm Convention on POPs;
- Ensuring the operation of the PCB Management Training Center;
- Inventory of 35,000 transformers of Russian Railways for the presence of PCBs;
- Analysis of transformer oils for the presence of PCBs;
- Completion of fulfillment of data on equipment contaminated with PCBs in the Database for monitoring the implementation of the Stockholm Convention on Persistent Organic Pollutants regarding the inventory of production, equipment, materials using or containing PCBs and PCB-containing waste in the Russian Federation;
- Neutralization and destruction of 3800 tons of PCB-contaminated equipment and materials.



## INDUSTRIAL INNOVATION CLUB



### ***Background***

The project aims to promote the consolidation of material and intellectual resources, scientific and engineering potentials and the organization of systemic management of the formation and implementation of industrial development projects in a complete innovation cycle from science to technology, training, development of production and technology transfer.

The consolidation of the competencies and resources of science, production and business at all stages of the innovation cycle and the development of a new interaction model allows us to use the synergistic opportunities of the participants of

the Comprehensive Program 2017 - 2025 in the formation and implementation of projects for the development of a full innovation cycle.

## Goals

Formation and implementation of complex industrial development projects at all stages of the innovation cycle from research and development to technology and their practical use in production, including the creation of mechanisms for the formation and support of SME development projects.

## Achievements 2020

### UPDATING THE PROGRAM AND DIRECTIONS OF DEVELOPMENT

The Technological Platform of the Industrial Innovation Club and the Roadmap of the Comprehensive Program 2017 - 2025 were updated, the results of which will form the basis of the Technological Atlas for the development of regional cooperation between BRICS and the SCO and EAEU countries.

The updated version of the Comprehensive Program has been improved, taking into account the experience of Russian enterprises in 2019-2020:

- National program "Small and Medium Enterprises and Support for Individual Entrepreneurial Initiatives";
- National program "Science";
- National program "Education".

A Comprehensive Program of Projects of the Full Innovation Cycle for 2017 - 2025 has been developed, taking into account the recommendations from the Address of the President of Russia to the Federal Assembly on January 15, 2020, and corresponds to the key socio-economic areas that determine the long-term scientific, technical, industrial development and international cooperation of Russia.

The frames of project include systemic practical tasks in the following areas of project management:

- Consolidation of scientific and engineering potential for the development of a sustainable economy;
- Development of manufacturing enterprises to ensure real GDP growth;
- Involvement of intellectual property in economic circulation;
- Increasing the provision of financing for development projects;
- Formation and implementation of regional - sectoral projects.

On the basis of the Technological platform of the Industrial Innovation Club, together with Russian scientific institutes, engineering companies and research and production enterprises, 40 project proposals of 5 priority sectors of 12 regions of Russia have been formed for the sectoral Roadmap of the Comprehensive Program for the period up to 2025 and the Technological Atlas of regional cooperation.

For the subsequent period until 2025, it is planned to develop an additional 60 project proposals for the formation of development projects and the organization of support for the implementation of projects of the full innovation cycle. Taking into account the recommendations of the Ministry of Economic Development of the Russian Federation on the design of investment projects within the framework of National Programs, a working version of a pilot project of a prototype of an Industrial Development Center has been prepared for interaction in the practical implementation of projects of a full innovation cycle and a working version of a sample passport for projects of a full innovation cycle has been developed for the Roadmap of the Integrated Program.

### ***Interaction with partners***

The basis of the updated and extended Comprehensive Program 2017 - 2025 and the Roadmap for projects of the full innovation cycle are Comprehensive sectoral projects, which were conceptually approved by the leadership of the Ministry of Economic

Development of the Russian Federation and the Russian Academy of Sciences, namely:

- Development of foundry production in Russia;
- Technological development of agricultural production in Russia;
- Development of the textile industry in Russia.

### ***Project activities in 2020***

- 9-11 June 2020 Moscow, Expocentre - participation in the international exhibition "Litmash 2020" in the framework of the Foundry Forums in Russia.
- 10-13 November, 2020 Moscow, VDNKh - Metal Week in Moscow "MetalExpo-2020".
- Participation in organizing the X Forum BRICS FA 2020 in Russia. <http://www.abifa.org.br/brics/>
- Due to the pandemic, the prepared X Forum of BRICS in Russia was postponed to 2021.
- Participation in the organization and work of a number of practical conferences within the framework of the program for the development of international scientific, educational and industrial relations of the BRICS Foundry Association.
- Forum of the Free Economic Society (in November 2020 - Forum of the 255th anniversary of the VEO)

### ***Further actions on the project***

- Completion of the formation of the Roadmap for the Integrated Program and the Technological Atlas of the Industrial Innovation Club, taking into account the long-term recommendations of the National Programs "SMEs", "Science", "Education" and following the results of the working study of project proposals of Russian enterprises with departments of the Ministry of Economic Development of the Russian Federation and branches of the Russian Academy of Sciences.

- Development of an algorithm for the complete innovation cycle of the Comprehensive Program in order to bring the research and development sector closer to the real economy sector. This is the main task of the proposed support tool in the format of the Industrial Development Center for projects of the full innovation cycle.
- Finalization of the proposal of the pilot project "Creation and maintenance of the activities of the Industrial Development Center" and a working sample of the passport of investment projects for project proposals of the Integrated Program 2017 - 2025.
- Carrying out events within the framework of the Comprehensive Program, taking into account the relevance of the topic of industrial production and the role of SMEs in the economy, which is noted at Russian and international forums. The events will be held taking into account the results and further development in the most relevant areas.

# COMMUNICATION & MEDIA

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3. “Time to get tested”, article, UN Newsletter in Russia No. 3, 2020

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5. “UNIDO is ready to implement environmental projects in the Arctic with the Russian Federation - Director of the Center in Russia”, website <https://www.finanz.ru/novosti/aktsii/yunido-gotova-k-realizacii-s-rf-ekologicheskikh-proektov-v-arktike-direktor-centra-v-rossii-1029979943>
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9. “Becoming Sustainable. Results of the presentation of the review of Russia on the SDGs at the UN ” | website

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12. Russian Intersectoral Industrial Ecology Summit

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13. Russia needs to accelerate in PCB utilization | website

https://ria.ru/20201102/arktika-1582331030.html



Новости

Пора сдавать анализы

В работе ЮНИДО в Российской Федерации важное место занимает содействие российским предприятиям в реализации требований «Плана выполнения Российской Федерации обязательств, предусмотренных Стокгольмской конвенцией о стойких органических загрязнителях...»



В рамках проекта ЮНИДО/ГЭФ «Экологически безопасное регулирование и окончательное уничтожение ПХБ на предприятиях ОАО «РЖД» и других собственников...»



Новости

Заседание координационного комитета по проекту ЮНИДО-ГЭФ



Координационный комитет Проекта ЮНИДО/ГЭФ «Экологически безопасное регулирование и окончательное уничтожение ПХБ на предприятиях ОАО «РЖД» и других собственников...»



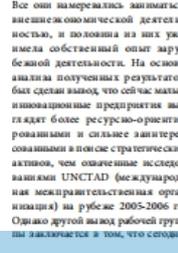
Директор Департамента международного сотрудничества Минприроды РФ Нина Иванова в своем выступлении отметила, что Проект ЮНИДО-ГЭФ является крупнейшим проектом по выполнению Российской Федерации обязательств по Стокгольмской конвенции о СОЗ и получает полную поддержку Министрства...



Новости

Что мешает стартапам и инновационным предприятиям

Научно-исследовательская группа, созданная в 2018 г. в сотрудничестве с исследователями НИУ «Высшая школа экономики», специалистами ИФ «Сколково» и Центра ЮНИДО в России, занимается системным изучением актуальной мотивации, предпочтений и существующих барьеров на пути выхода за рубеж российских высокотехнологичных стартапов и малых инновационных предприятий (МИП)...



Встреча глав ИТРО 16 января в Штиб-апарте ЮНИДО, Вена, Австрия, состоялась очередная встреча глав офисов по созданию инновационных и технологичных (ИТРО). На встрече обсуждалась деятельность сети офисов ИТРО за 2019 год и перспективы развития на 2020 год.

# YOUTH CAPACITY BUILDING

## *UNIDO internship programme*

In 2020, before the lockdown, a research internship practice was organized for students of UCL University (University College of London), London (Great Britain).

## *UNIDO educational lecture for foreign RUDN students*

EDUCATIONAL  
LECTURE,  
RUDN INTERNATIONAL  
STUDENTS



At 4th of March On March 4, at the UNIDO Center in the Russian Federation, a meeting was held with foreign students of the Space Technology Institute of the RUDN University Engineering Academy (Peoples' Friendship University of Russia). UNIDO national experts - Ivan Seregin, Daria Razorenova, Mikhail Tyapkin and Svetlana Erkenova told young people about UNIDO's activities in the world and sustainable projects in the Russian Federation.

Students from Tunisia, Angola, Uzbekistan, and Ukraine were keenly interested in energy efficiency projects, the projects intended for disposal of PCBs and HCFCs, and

how countries generally fulfill their environmental obligations under international conventions and agreements.

Of particular interest was the UNIDO / GEF project “Environmentally sound regulation and the final destruction of PCBs at the enterprises of Russian Railways and other owners”, which is currently being implemented by the Center. Daria Razorenova spoke in detail about what polychlorinated biphenyls (PCBs) are and why they belong to the group of persistent organic pollutants (POPs) of a high hazardous class. Under the auspices of UNIDO a treatment system is being created in the Russian Federation as part of the implementation of the Stockholm Convention on Persistent Organic Pollutants (POPs). The project is the major stage of a nationwide phase-out program for the use of PCBs in all industries.

“The success of the project was firstly marked when we realize now many enterprises themselves turn to us for help in the disposal of PCBs, while at the beginning of the project many did not even know what PCBs are and why they should be disposed of,” Daria noted.

Also of interest was the topic of improving energy efficiency in enterprises. Ivan Seregin said that in the framework of the UNIDO project, the overall effect of the introduction of energy efficiency programs according to UNIDO methodology in Russian industry exceeded 2.5 billion rubles, enterprises and organizations saved more than 3 million MW of electricity. Ivan also noted that for many business leaders it was a discovery that the UNIDO energy management system allows, among other things, to reduce costs through well-designed work plans for equipment and personnel, within which the load and volume of energy resources are distributed as efficiently as possible.

## RESPONSE TO COVID-19

In order to prevent the spread of the COVID-19 virus and preserve the health of the employees of the UNIDO Centre in the Russian Federation and their families, all employees were transferred to a remote mode of operation from March 18, 2020.

Since March 2020, all previously planned field trips have been canceled, and the events themselves took place online. At the end of June 2020, a gradual restoration of the office's work in the usual format began. 30% of employees under the age of 35 returned to their workplaces with all safety precautions preserved: the mandatory wearing of masks and gloves, sterilization of work surfaces with antiseptic solutions, and social distance. Medical masks and personal disinfectants were purchased for the office.

By November, most of the employees had returned to their jobs, taking into account the restrictions for persons over 65 years old imposed by the Moscow government.



Employees have actively supported measures to counter the spread of COVID-19, incl. informing relatives and partners about the current situation according to the data from the WHO website and UNIDO statistics [stat.unido.org/COVID-19](https://stat.unido.org/COVID-19).

# SUSTAINABLE DEVELOPMENT VIA BRICS

The UNIDO Center in the Russian Federation conducted a joint study with the Skolkovo Innovation Center and the Higher School of Economics on the participation of small and medium-sized innovative companies from the fast-growing BRICS countries in global value chains, as part of the annual event held by the Skolkovo Innovation Center - Startup Village 2020" and "Open Innovations 2020". The ultimate goal of the study is to develop an optimal policy to stimulate business to intensify cooperation within the BRICS. The results of the study were published in the journal "UN in Russia" # 2, 2020.

## Events

The outcomes of the study were reported at the 11<sup>th</sup> Meeting of the Council for Scientific, Technical and Innovative Cooperation in the framework of BRICS "Key Russian initiatives in the field of science, technology and innovation during the Russian presidency in BRICS" at the Ministry of Education and Science of the Russian Federation, as well as at a BRICS seminar within the framework of the X International Scientific Conference "Foresight and STI Policy" - a special seminar "Prospects for the development of science and technology in the BRICS countries" on November 11, 2020.

On November 20, under the auspices of the Ministry of Education and Science, the XI meeting of the Council for Scientific, Technical and Innovative Cooperation within the BRICS was held online. The UNIDO Center in the Russian Federation was represented by Director Sergey Korotkov and Ninel Senyuk, Ph.D., Associate Professor at the Higher School of Economics.

In her report, Ninel spoke about the research carried out by the HSE with the support of the UNIDO Center in the Russian Federation. The research was intended to the trends and structure of global industrial demand in the context of the global crisis

caused by the COVID-19. The main research participants were Russian start-ups and small innovative enterprises (SIEs). The study was conducted jointly with the Skolkovo Investment Fund and raised issues of motivation, preferences and existing barriers for Russian high-tech start-ups and SIEs on their way to international markets. At its first stage a survey was conducted of about 100 participants wishing to engage in foreign economic activity, half of which already had their own experience of foreign activity.

Research has shown that respondents' preferences as desirable foreign partners are focused on the CIS countries (Belarus and Kazakhstan) and BRICS (mainly China), as well as the developed EU economies. The main barriers are the lack of own finances and resources, as well as the lack of state support in the entry and promotion of the Russian MIP abroad.

This raises the need for the clear management of local, regional and global value chains. There is also a need for institutions for the promotion and development of international innovation and investment cooperation of SMEs and the corresponding joint infrastructure, created with the support and coordination of UNIDO, which may contribute to the development of intra-firm supply chains and the entry of Russian small enterprises into the international market.

“We would like to create a joint SME platform and test a pilot project. We are open to suggestions and look forward to further development of this direction”, - said Ninel in her speech.

Also two reports were made on the promotion of cooperation initiatives of innovative SMEs of the BRICS countries in global value chains:

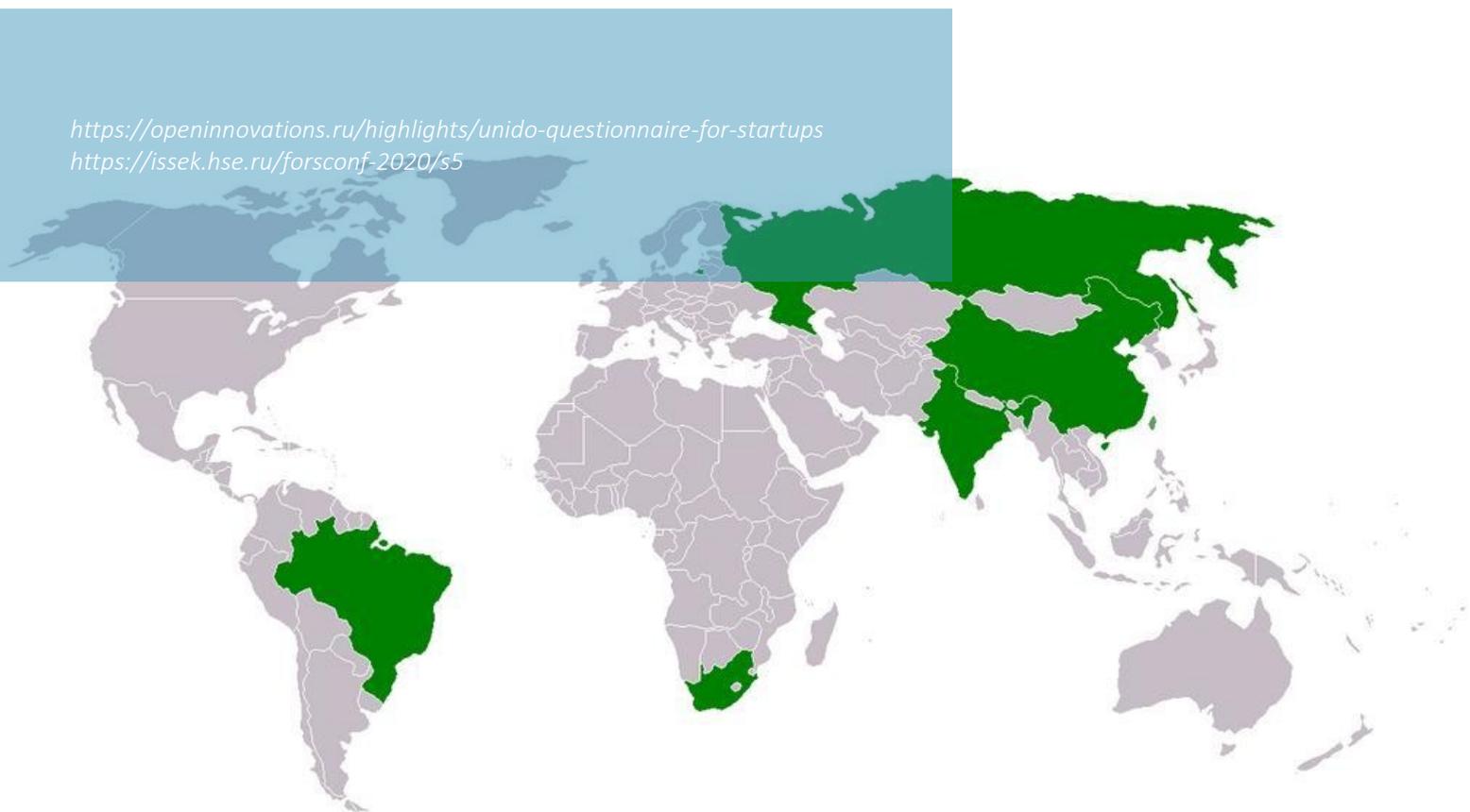
- September 17, 2020 - report on the activities of the UNIDO Center at the “2020 International Technology Trade fair and Release on ZGC Forum”.
- December 2020 - report on the results of a joint study with the Skolkovo Innovation Center and the Higher School of Economics, dedicated to the participation of small and medium-sized innovative companies of the fast-growing BRICS countries in global value chains. Reported to the PRC during the BRICS

Forum on Partnership on New Industrial Revolution held by the Ministry of Science and Technology of the PRC.

### Further actions

In 2021, it is planned to study the prospects for interaction with the BRICS Development Bank. Also recommendations were made to the BRICS Working Group on the Development of Entrepreneurship and Innovative Partnership in Science and Technology to work out the issue of possible cooperation with the UNIDO Center in the Russian Federation.

<https://openinnovations.ru/highlights/unido-questionnaire-for-startups>  
<https://issek.hse.ru/forsconf-2020/s5>



# OUTLOOK INTO 2021

## Major priorities

In line with recommendations received during the intergovernmental consultations held in 2020 the UNIDO Centre will focus on the activities listed in the UNIDO Project Document (Appendix A to the Trust Fund Agreement for the UNIDO Centre for International Industrial Cooperation in the Russian Federation of 2008). Major priorities of the UNIDO Centre for 2021 are the following:

- Promotion of investment / technology projects from developing countries and countries with economies in transition, aimed at foreign investment and establishing business partnerships;
- Assistance to Russian enterprises, organizations and institutes in establishing contacts with interested partners abroad and preparing relevant project proposals;
- Cooperation with Ministry of Energy of Russia and Russian Energy Agency (REA) on investment and technology promotion activities in the energy sector that could be supported through UNIDO Centre and ITP Network.
- Strengthening the potential of private and public stakeholders involved in the implementation and support of industrial and investment projects in Russia through the use of UNIDO tools and methodology;
- Participation in technology investment and technology transfer events sponsored and/or organized by UNIDO;
- Support the database of the UNIDO Centre with information about industrial enterprises and other organizations in Russia and abroad, interested in cooperation with foreign partners and/or Russian partners, as well as about their area of interest;
- Investment and technology promotion for Russian industry through the development of specialized scientific and educational programmes and building academic capacity;

- Strengthening synergetic cooperation with the UNIDO ITP Network and other ITPOs and sharing information on investment opportunities and technology transfer;
- Collaboration with relevant UNIDO departments and divisions at the HQs in Vienna, Austria, to initiate new projects and promote joint programmes and initiatives, incl. TC projects and global fora.

The UNIDO Centre will continue to strengthen cooperation with Russian government authorities, organizations and agencies of the UN system, various Russian and international organizations, in particular, such as the CIS Executive Committee, the International Congress of Industrialists and Entrepreneurs, the Eurasian Economic Commission, the Global Environment Facility, etc.

### Consultancy and information services to potential investors

The UNIDO Centre will continue to provide information to potential investors upon request. The Centre seeks to establish cooperation with a broad range of private enterprises, institutions and government authorities in Russia and abroad. Through implementation of investment promotion projects the Centre will share its knowledge and best practices and introduce potential partners of cooperation and investment.

Participation and organization in Global Forum events

### Coordination and interaction improvement

Regular meetings with the donor (the Ministry of Science and Higher Education of Russia), federal and regional governmental authorities and partners will be held in order to improve the coordination of Centre's activities.

UNIDO, through the Permanent Mission of the Russian Federation to international organizations in Vienna, will regularly inform the Government of the Russian Federation about the activities of the UNIDO Centre. The Director of the UNIDO Centre will cooperate with relevant organizations in the Russian Federation.

Expected results

The expected results from the implementation of the project in 2021 fully meet the goals and objectives of the UNIDO Centre according to the project document (Appendix A to the Agreement on the trust fund for the UNIDO Centre for International Industrial Cooperation in the Russian Federation from 2008).

The activities of the UNIDO Centre will contribute to a significant increase in the number of industrial projects carried out in the Russian Federation with foreign participation, as well as potential Russian investors entering new markets in developing countries and countries with economies in transition.

It is expected that as a result of the activities of the UNIDO Centre, SMEs in the Russian Federation will gain additional knowledge and experience in cooperation establishment with foreign partners. The constant interaction of the UNIDO Centre with ITPO Network will lead to an increase in the number of projects being worked out with foreign investors.

The main beneficiaries of the UNIDO Centre are Russian enterprises, associations and organizations, including small and medium-sized industrial enterprises interested in cooperation with foreign partners.

The UNIDO Centre will assist Russian institutions involved in investment programmes in improving the level of training of employees in the field of investment tools and methods and expanding the scope of their activities. A special emphasis will be placed on investment and technology promotion activities in Russian energy sector that could facilitate development of new technologies, incl. renewable energy, improve energy efficiency and decrease CO<sub>2</sub> emissions.

The beneficiaries of the Project are also private enterprises, institutions and governments of developing countries and countries with economies in transition, which will expand their opportunities for cooperation with industrial enterprises of the Russian Federation.

## Cooperation within the ITP Network, UNIDO and the UN system

The UNIDO Centre will continue to provide substantial inputs for development of joint activities within the ITPO Network (both online and in person), especially organization of events and meetings and participation in ITPO meetings. The Centre will also explore opportunities for implementation of investment promotion projects in cooperation with other ITPOs.

Representatives of the UNIDO Centre will participate in UNIDO events and global forums related to sustainable development, energy, agribusiness, environment and other areas in Russia and abroad. They will also take part in other events upon request from UNIDO headquarters.

The UNIDO Centre will use UNIDO's tools, methodologies and information materials to implement projects and to further promote UNIDO activities as well as to build up partnerships with private enterprises, institutions and government authorities.

The UNIDO Centre will contribute to UNIDO's Resource Optimization in Technical Cooperation (ROTC) initiative in module on technology transfer in order to foster greater functional specialization within the UNIDO ITP structure and identify possible cost-saving synergies.

Being a member of United Nations Country Team (UNCT) in Russia the UNIDO Centre will continue to closely cooperate with UN organizations and agencies based in Russia and provide required support to organization of joint initiatives and events.

## Continuous improvements of ITPO services

### *Toolbox and methodologies*

The UNIDO Centre will use UNIDO's tools, methodologies and information materials to implement projects and to further promote UNIDO activities as well as to build up partnerships with private enterprises, institutions and government authorities.

### *Needs assessments*

The UNIDO Centre will seek inputs and assistance from UNIDO HQ on specific sectors and country-related programmes in order to improve delivery of services, and also benefit from shared resources. Needs of staff will be assessed through the annual Staff Performance Evaluation.

### *Staff training programmes*

The UNIDO Centre staff will continue to upgrade their knowledge and skills and attend training courses (SAP, COMFAR, etc.) in order to effectively carry out current assignments. Developing staff skills will allow the Centre to continue providing high quality of service through increased responsiveness to the needs of its clients, in addition to maintaining and enhancing its status as a centre of excellence for industrial development in Russia.

### *Delegate Programme*

The UNIDO Centre will identify opportunities for launching the Delegate Programme for investment and technology promotion for potential partners in 2021 depending on the Centre's budget limitations and/or as a separate UNIDO project. Design features of the programme will be identified based on the best experience of other ITPOs' delegate programmes.

## Visibility strategy

The UNIDO Centre will continue to promote Inclusive and Sustainable Industrial Development (ISID), UNIDO programmes, expertise, documentations, studies to the attention of interested authorities, organizations and enterprises in the Russia and abroad. Within the scope of its activities, the UNIDO Centre provides special attention to environmental considerations, the development of SMEs and the generation of employment in line with UNIDO strategies and policies in these fields.

In 2021, the UNIDO Centre will continue to publish articles and information, using the following tools:

- Publication of informational and analytical materials in the UN in RUSSIA bulletin;
- Monthly Newsletter of the UNIDO Centre;
- Annual Report of the UNIDO Centre, incl. success stories and major programmes and achievements;
- Publication of UNIDO and UN-related news and key events and achievements of the UNIDO Centre on Twitter, Facebook, website.

## ACTIVITIES 2021

In 2021, the UNIDO Centre will take part in the St. Petersburg International Economic Forum 2021 and will support UNIDO headquarters in organizing possible visits, meetings and side events.

Opportunities for future projects and joint initiatives will also be explored during the International Industrial Trade Fair (INNOPROM) 2021, which will be held in Yekaterinburg. The UNIDO Centre will facilitate the organization of events and meetings.

The UNIDO Centre will participate in and support the 2nd Global Forum on Natural and Convergent Technologies for Inclusive and Sustainable Industrial Development in 2021. The second edition of the Global Forum will be organized in accordance with the concept proposed by the UNIDO Centre jointly with the National Research Centre "Kurchatov Institute" on behalf of the President of Russia Vladimir Putin No. Pr-1500 dated July 29, 2016.

Representatives of the UNIDO Centre will participate in UNIDO events and global forums related to sustainable development, energy, agribusiness, environment and other spheres in Russia and abroad. They will also take part in other activities upon request from UNIDO headquarters.

In March-November 2021, the UNIDO Centre in the Russian Federation will act as a strategic and information partner of the Green Startup Accelerator project as part of the organization and implementation in 2021 of a sustainable development project - the Sustainable Development Leaders competition and forum.

As part of the competition, it is planned to launch PRO FUTURE, an educational and informational project dedicated to the development of competencies and awareness in the professions of the future based on the SDGs.

Also, the UNIDO Centre in the Russian Federation will act as a strategic and informational partner of the International Technological Forum "Environmental Monitoring of Air Emissions", which will be held on April 14-16, 2021 in Moscow (online and offline) with the participation of leading Russian and international experts, officials and will be broadcasted throughout RF and CIS countries. The forum will focus on clean air, clean industrial technologies, emission control and collection of pollutants.



2021: «is a critical year to reset our relationship with nature»

UN Secretary-General António Guterres

«The problems we face in the world today are mostly of our own making. We must accept that our future depends on us»

Jacque Fresco, Designing the Future



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT  
ORGANIZATION



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