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ANNUAL REPORT



UNITED NATIONS
INDUSTRIAL DEVELOPMENT
ORGANIZATION



UNIDO CENTRE FOR
INTERNATIONAL INDUSTRIAL
COOPERATION IN THE RUSSIAN
FEDERATION

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UNIDO CENTRE FOR INTERNATIONAL
INDUSTRIAL COOPERATION IN THE RUSSIAN
FEDERATION

Moscow, 2019

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BY THE DIRECTOR



2019 was an important year for the UNIDO Center for International Industrial Cooperation in the Russian Federation, since this year we turned 30 years old. This is an important milestone that we have confidently passed, facilitating cooperation with UNIDO, first in the USSR, then in the Russian Federation. These were the years of hard and efficient work. We managed to implement many initiatives that became the basis for the large UNIDO industrial projects in our country.

So, in the early 90s, the Center actively contributed to the processes of **establishing market mechanisms** in the Russian economy. A training program was launched on the methods of formation, evaluation and financial analysis of industrial investment projects. The methodology and software developed by UNIDO for the analysis of investment projects, primarily COMFAR, were a huge success among Russian companies and subsequently served as the basis for

today's computer-based financial analysis programs that take into account the specifics of Russian legislation.

After the transition of the Russian Federation to the **category of donor countries**, the main focus in cooperation is on the implementation of projects aimed at supporting and developing the industrial sector, introducing international standards in the field of education, energy efficiency, ecology, water use, attracting investment in the country's economy, preserving and protecting the environment, the creation of effective mechanisms for the processing of **hazardous waste**, as well as the implementation of Russia's obligations under international protocols and conventions.

UNIDO projects to **support industrial integration processes** in the EurAsEC member states, the project "Creation of a center for the application of best practices and environmental technologies in the disposal of potentially hazardous

consumer products and industrial waste" (Rep. Tatarstan), a project to reduce the consumption of HCFCs, and incentives were successfully implemented the transition to HFC-free energy-efficient refrigeration and climate equipment in the Russian Federation through the transfer of techno Logium and many others. In particular, during the implementation of the UNIDO / GEF-Ministry of Natural Resources Project of Russia, at the initiative of the Working Group, amendments to the regulatory legal framework in the field of ODS circulation in the Russian Federation were proposed and adopted.

Now the Center is primarily focused on the **implementation of the 17 Sustainable Development Goals**. In his speech at the 70th session of the UN General Assembly, Russian President Vladimir Putin has used the term "technology of nature".

Last year, Russia hosted the first forum of convergent and nature-friendly technologies, organized jointly with UNIDO, the country team and with the support of the UN Information Center.

In the era of **the industrial revolution 4.0**, which is now actively talked about, nature-like and convergent technologies, technologies for industry, resource conservation and a comfortable living environment for all of humanity are areas that need to be developed for our future and the future of our children.

For our part, we will make every effort to make a significant contribution to our **common sustainable future**.

*Sergey Korotkov,
Director of the UNIDO Centre for
international industrial cooperation
in Russia, Moscow*



01

ABOUT

The UNIDO Centre for international industrial cooperation in Russia is an integral part of UNIDO and its main objective is to promote international economic, technological, industrial and technical-scientific cooperation between Russian enterprises, associations, organizations and governmental companies, corporations and other enterprises, organizations and companies in both developed and developing countries. **In 2019 the UNIDO Center celebrated its 30th anniversary.**

As a part of UNIDO global network of Investment and Technology Promotion Offices (ITPOs) the Centre:

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).

AIMS

- carries out the selection, development and coordination of UNIDO programs and projects in the Russian Federation and other UNIDO Member States
- mobilizes investment resources for implementation of various industrial investment projects in Russia, developing countries and countries with economies in transition through joint ventures, technology transfers, sharing technological know-how and marketing expertise, organizational support and other forms of business partnerships
- provides assistance in establishing contacts between business representatives from developed and developing countries and Russian government agencies, local authorities, the Chamber of Commerce Industry and specialized consulting companies
- performs representative functions of UNIDO in the Russian Federation.



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS



**SUSTAINABLE
DEVELOPMENT
GOALS**

UN SUSTAINABLE DEVELOPMENT GOALS

ISID STRATEGY

UNIDO's long-term strategy of **inclusive and sustainable industrial development** (ISID) was adopted by UNIDO Member States at the General Conference in December 2013.

Through this strategy, UNIDO aims to harness the full potential of industry's contribution to the achievement of sustainable development in the post-2015 era, and **lasting prosperity for all**.

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,
- 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

UNIDO is convinced that ISID will be a key driver for the successful integration of the economic, social and environmental dimensions, required to fully realize sustainable development for the benefit of our future generations.

MOSCOW, JAN 17 | GAIDAR FORUM

UNIDO CIIC Russia took part in the panel session entitled “Why business inevitably benefits from being responsible?”, that was held on 17 January as part of Gaidar Forum.

The expert discussion, in which representatives of the Ministry of Economic Development, Russian Export Centre, Vnesheconombank, Organization for Economic Co-operation and Development, and large companies took part, focused on prospects of introduction of responsible business conduct standards in Russia.

Sergey Korotkov told about the integration of economic, social and environmental imperatives by small and medium enterprises into their management and daily operations as part of UNIDO Centre projects. “Responsible business conduct, namely environmental management and eco-efficiency, responsible sourcing, stakeholder engagement, gender balance bring along important competitive advantages both in economic and managerial terms”, he



noted.

Gaidar Forum was held in Moscow from 15 to 17 January 2019 for the 10th time. The Forum serves as a discussion platform on emerging and most pressing issues related to the position and strategic role of Russia in the world.

VIENNA, JAN 31 | THE EXPANDED BOARD OF DIRECTORS MEETING

The Expanded Board of Directors meeting took place on 31 January in Vienna prior to the Board of Directors retreat on 1-2 February.

The annual meeting was attended by the Director General of UNIDO, managing



directors, directors, heads of regional and country offices and Investment and Technology Promotion Offices (ITPO) of UNIDO, including Sergey Korotkov, Director of the UNIDO CIIC Russia.

During the event, major achievements of 2018 in line with UNIDO management priorities were presented, and main results of the first year of implementing the management objective for 2018-2021 "Integration and Scale-up" were summarized. Furthermore, discussions focused on strategies and approaches aimed at increasing the impact of UNIDO activities, as well as plans for 2019.

On 30 January, Sergey Korotkov participated in the ITPO briefing, organized by the ITPO coordination unit, presenting the UNIDO CIIC Russia, achievements in 2018 and plans for 2019 to the new head of the unit, Weixi Gong.

Earlier, on 29 January, Director of the UNIDO Centre held a meeting with the Permanent Representative of the Russian Federation to the international organizations in Vienna, Mikhail Ulyanov. Current projects of the UNIDO Centre, plans for 2019, and cooperation between the UNIDO Centre and the Permanent Mission were discussed.

MOSCOW, FEB 13 | RESULTS OF THE ENVIRONMENTAL PROGRAMME “TIRE-2018” ANNOUNCED

The House of Moscow oblast Government hosted an event dedicated to taking stock of the environmental programme "Tire-2018", as well as an award ceremony for the most active participants of the programme among municipalities and volunteers. Director of the UNIDO CIIC Russia, Sergey Korotkov, was invited to

take part in the event as a guest of honor.



The largest programme for collection of waste tires in the Moscow region continues the work initiated under the UNIDO project "BAT/BEP Centre for Environmentally Safe Disposal of Potentially Hazardous Consumer Products and Industrial Wastes" implemented by the UNIDO Centre in 2010-2015. In 2018, the

programme was named the most powerful environmental campaign in Russia by the award "Face of the Nation".

Over the past year, the programme has allowed to collect and dispose 7,900 tons of waste tires. This means that every eleventh car owner in the Moscow oblast has contributed to safeguarding the environment of the region by handing over scrap tires for recycling.

MOSCOW, MAR 18 | MEETING WITH THE DELEGATION OF THE FEDERAL STATE OF AMAPÁ

Within the framework of the visit to Moscow, the delegation of the Brazilian federal state of Amapá, headed by the Governor, Waldez Góes, met with representatives of the UNIDO CIIC Russia.

THE LARGEST PROGRAMME FOR COLLECTION OF WASTE TIRES IN THE MOSCOW REGION CONTINUES THE WORK INITIATED UNDER THE UNIDO PROJECT "BAT/BEP CENTRE FOR ENVIRONMENTALLY SAFE DISPOSAL OF POTENTIALLY HAZARDOUS CONSUMER PRODUCTS AND INDUSTRIAL WASTES"

During the meeting, the parties discussed prospects for cooperation in the framework of projects in the field of environmental protection, as well as possibilities of technology transfer and exchange of innovative practices in energy efficiency and safe disposal of industrial waste.

The federal state of Amapá is located in the northern region of Brazil. Almost 90% of its area is occupied by the Amazon rainforests, an environmental protection area of Brazil. One of the key initiatives of the government of Amapá is the creation of the Green Treasure Programme (Tesouro Verde). The Programme provides a transparent and secure mechanism for financing environmental services and is based on a new approach to regulation, integration and stimulation of the environmental assets market. Similar to the carbon market, individuals and legal entities can purchase "forest credits" through the Green Treasure electronic platform. Proceeds from sales are intended to be used to finance



employment at environmentally safe enterprises.

In this connection, one of the issues discussed at the meeting was the possibility of attracting foreign investors to the state in order to foster sustainable industrial development of Amapá.

ST. PETERSBURG, MAR 20 | 19TH INTERNATIONAL FORUM “ECOLOGY OF BIG CITY”

The 19th International Forum "Ecology of Big City" took place in St. Petersburg. The Forum is the largest event in the region in the field of environment protection and sustainable environmental practices. The Forum is aimed at promoting and fostering the implementation of innovative environmental technologies in Russia, which contribute to the conservation of natural resources, the enhancement of environmental security, and the improvement of the quality of life in big cities.

Within the framework of the Forum, with the participation of the delegation of UNIDO experts headed by Carlos Chanduvi-Suarez, Senior Coordinator of the Climate and Innovation Technologies

Division, Energy Department, a panel session entitled “Disposal of municipal waste: the search for conceptual solutions” was held.

Sergey Korotkov, Director of the UNIDO CIIC Russia, delivered a welcoming address, noting that in a situation where global consumption is steadily growing, proper waste management is the basis for sustainable development and environmental security both in Russia and in the world. “As part of its activities to ensure the transition to rational consumption and responsible production models, the UNIDO Centre actively supports the efforts of Russian organizations and companies aimed at fostering the transition to a circular economy through processing of waste-to-energy and recycling”, Sergey Korotkov added.

On the margins of the Forum, a meeting of UNIDO experts with representatives of St. Petersburg Development Committee and Committee for External Relations, with the participation of the Vice-Governor of St. Petersburg, Nikolay Bondarenko, was held. The participants discussed possible involvement of UNIDO in the ongoing waste management reform of the city.

MOSCOW, MAR 25-26 | 10TH INTERNATIONAL FORUM “ECOLOGY”

The programme of the 10th anniversary Forum was built around key issues of environmental agenda and covered all thematic areas of the national Ecology project.



During the two-day conference leading experts discussed issues such as the creation of new waste management infrastructure, the financing and government support measures for projects, the introduction of environmentally friendly technologies in the country's water and utilities sector, the transition to renewable energy, the effects of global climate change, the forest protection and biodiversity conservation on the planet.

Director of the UNIDO CIIC Russia,

Sergey Korotkov, made a presentation at the work session “Green Light for Green Economy” stressing the need to develop mechanisms for the advancement of a circular economy in Russia, including the creation of a streamlined and transparent system for financing environmental projects. Sergey Korotkov also invited the participants to take part in the upcoming Global Manufacturing and Industrialization Summit, which will be held in July 2019 in Yekaterinburg.

HANNOVER, 1 APRIL 2019 PARTICIPATION IN THE EVENTS AT HANNOVER MESSE

Director of the UNIDO CIIC Russia, Sergey Korotkov, took part in a gala dinner organized by the Global Manufacturing Organization (GMOL) on the margins of the international trade fair Hannover Messe. GMOL is one of the organizers of the Global Manufacturing and Industrialization Summit (GMIS).

The event included a fireside chat on the topic of collaboration and cooperation in the new industrial era with the participation of UNIDO Director General, Li Yong, Head of GMIS Organizing Committee, Badr Al-Olama, and UAE



Minister of Energy and Industry, Suhail Al Mazroui.

Director of the UNIDO Centre in the Russian Federation visited the UNIDO collective booth at Hannover Messe and met with colleagues from UNIDO Investment and Technology Promotion Office based in Bonn.

MOSCOW, APR 23 | MEETING OF THE STEERING COMMITTEE OF UNIDO/GEF PROJECT

The International Centre for Scientific and Technical Information hosted a meeting of the Steering Committee of the UNIDO / GEF project “Environmentally sound management and final disposal of PCBs at the Russian Railways network and other PCBs owners”. The event was attended by representatives of Russian Railways

JSC, Ministry of Natural Resources and Environment, Ministry of Foreign Affairs, Russian Energy Agency, and Rusatom Greenway LLC.

During the meeting issues related to the implementation of the project, in particular the possibility of cooperation between Russian Railways JSC and project partners were discussed. In his opening remarks the Director of the UNIDO CIIC Russia and project

operation of "Melioform-PCBP-5000".

Sergey Korotkov noted that Rusatom Greenway is engaged in the implementation of the National Ecology Project as one of the executors of the federal project for safe handling of 1 and 2 class hazard waste, including PCBs. Preliminary negotiations resulted in the willingness of the company to participate in the project and to act as a licensed

THE DECONTAMINATION UNIT FOR TREATMENT OF TRANSFORMER OILS FROM PCB IS SUPPLIED BY UNIDO TO RUSSIAN RAILWAYS. THE FACILITY ALLOWS NOT ONLY TO DECONTAMINATE ELECTRICAL INSULATING LIQUIDS FROM PCBS TO VALUES BELOW THE ESTABLISHED LIMITS, BUT ALSO TO PROVIDE ADDITIONAL TREATMENT OF OIL FROM MECHANICAL IMPURITIES AND WATER RESIDUES FOR REUSE IN ELECTRICAL EQUIPMENT.

manager Sergey Korotkov informed the participants of the progress of the project. Following the removal of administrative barriers to the import into Russia of analytical standards and chemical reagents containing polychlorinated biphenyls (PCBs) for chemical analysis in accordance with the provisions of the Stockholm Convention on Persistent Organic Pollutants, one of the priorities of the project is to ensure the earliest start of

beneficiary organization of the UNIDO decontamination unit.

In this respect, the UNIDO Centre submitted the issue of the possibility of transferring "Melioform-PCB-5000" to Rusatom Greenway as part of a partnership with Russian Railways for discussion by the members of the Steering Committee. The participants supported the proposal, noting the positive impact of the

partnership on the project's objectives and the fulfillment of the Russian Federation's obligations under the Stockholm Convention.

economic independence and contribute to the global economic growth and prosperity," Galina Karellova emphasized.

MOSCOW/ST.PETERSBURG, 3-8 JUN 3-8 | UNIDO DIRECTOR GENERAL'S VISIT TO RUSSIA

Director General Li Yong held a number of bilateral meetings in Moscow to discuss ongoing technical cooperation projects and potential areas for new joint activities.

During the meeting with the Deputy Minister of Industry and Trade of the Russian Federation, Gulnaz Kadyrova, Li Yong highlighted productive partnership between UNIDO and the Ministry.

The UNIDO delegation was then welcomed in the Federation Council of the Federal Assembly of the Russian Federation by Deputy Chairperson of the Federation Council, Galina Karellova. "We highly value our partnership with UNIDO, as it creates a unique networking, knowledge-sharing and capacity-building platform for women, who are willing to develop their

The meeting was followed by the signing by Li Yong and Galina Karellova of a Joint Declaration, reaffirming the intention to upscale the mutually-reinforcing collaboration.

The meeting between the Director General and the Deputy Minister of Foreign Affairs of Russia, Sergey Vershinin, was dedicated to cooperation in multilateral formats and further enhancement of activities aimed at promoting inclusive and sustainable industrial development.

During the meeting with Timur Maksimov, Deputy Minister of Economic Development, Li Yong highlighted the role of Russia as one of the UNIDO's principal technical cooperation partners and major donors. Increased cooperation between UNIDO and Russia in the field of international technology exchange was also discussed.

Modalities of the UNIDO's engagement with multilateral international financial institutions were discussed during the

meeting with Sergey Storchak, Deputy Minister of Finance of the Russian Federation.

as well as to share knowledge and experience in this area.

"THE RUSSIAN FEDERATION IS READY TO FURTHER CONTRIBUTE IN UNIDO'S TECHNICAL ASSISTANCE ACTIVITIES, AS IT ALSO ACTIVELY CONTRIBUTES TO A NUMBER OF INTERNATIONAL DEVELOPMENT ASSISTANCE FUNDS," DEPUTY MINISTER OF FINANCE OF THE RUSSIAN FEDERATION SERGEY STORCHAK

Potential avenues for enhanced cooperation were also discussed with Sergey Katyrin, President of the Board of the Chamber of Commerce and Industry of the Russian Federation. Li Yong underscored the importance of close cooperation with the private sector to support inclusive and sustainable industrial development and the Sustainable Development Goals.

At the St. Petersburg International Economic Forum (SPIEF), Li Yong delivered a welcoming address at the UNIDO panel session 'Women executives in building successful business models'. The session was attended by more than 70 representatives of federal and regional authorities, business and expert community. Participants proposed the establishment of an international advisory council under the auspices of UNIDO to promote innovative models of support for women's entrepreneurship,

On the margins of SPIEF, Li Yong held a bilateral meeting with Denis Manturov, Minister of Industry and Trade of Russia, where issues related to the cooperation within the framework of preparation and holding of the second Global Manufacturing and Industrialization Summit were discussed. The broad portfolio of projects and joint initiatives developed by UNIDO and the Russian Federation successfully implemented in BRICS, Central Asia, and Central Europe, was also emphasized.

As part of bilateral meetings with the Minister of Foreign Affairs of Turkmenistan, Rashid Meredov, and Minister of Trade and Industry of Egypt, Amr Nassar, the Director General discussed enhanced cooperation within the framework of joint efforts aimed at ensuring sustainable industrial development.

In Moscow, UNIDO delegation paid a

visit to Technopark "Kalibr", where it was introduced to the creative industries cluster. A study tour to "Izhora Plants" – one of the oldest industrial enterprises on Russia – was organized for the delegation in St. Petersburg. Innovative

production technologies of the enterprise implementing projects in the fields of nuclear power engineering, oil and gas processing, mining operations on the shelf, were showcased to the guests.

YEKATERINBURG, 9-11 JULY 2019 | II GLOBAL MANUFACTURING AND INDUSTRIALIZATION SUMMIT (GMIS)

The second Global Summit of Production and Industrialization (GMIS) was held at the Yekaterinburg-Expo International Exhibition Center in parallel with the 10th anniversary industrial exhibition INNOPROM. The second GMIS was organized by the Ministry of Energy and Industry of the United Arab Emirates, UNIDO, the Ministry of Industry and Trade of the Russian Federation, the Government of the Sverdlovsk Region and the Roscongress Foundation.



The Summit is intended to serve as a multilateral platform that will help predict future production, initiate technological change, foster strong partnerships and inspire the next generation of leaders to advance the Sustainable Development Goals.

Over 3,700 delegates from 64 countries attended GMIS, including 120 heads of foreign companies, 250 heads of Russian companies, 10 ministers from 9 countries

and 5 heads of representative offices of foreign countries in Russia. As part of the GMIS business program, 27 panel discussions were held on topics such as the future of production, digitalization and green technologies, industrial safety, artificial intelligence.

The UNIDO Center in the Russian Federation took an active part in the formation of the GMIS program and supported the organizers in selecting and inviting Russian and foreign experts to participate in the events of the business program.

"SUCH ULTRA-EFFICIENT SCIENTIFIC, ENGINEERING, AND PRODUCTION SOLUTIONS (NATURE-BASED) WILL ALLOW US TO STRIKE A BALANCE BETWEEN THE BIO- AND TECHNOSPHERE, AND REDUCE AND EFFECTIVELY CONTROL THE ANTHROPOGENIC IMPACT ON NATURE AND THE ENVIRONMENT," - VLADIMIR PUTIN

"THE HUGE GROWTH POTENTIAL OF THE FOURTH INDUSTRIAL REVOLUTION MUST BE BALANCED WITH THE CORRESPONDING CHALLENGES SUCH AS THE POTENTIAL WIDENING OF THE TECHNOLOGY GAP BETWEEN HIGH-INCOME COUNTRIES AND DEVELOPING COUNTRIES," - Li Yong

One of the main topics of the second GMIS was nature-friendly technology. During the official opening of the event, Russian President **Vladimir Putin** noted the importance of nature-based technologies that reproduce natural processes and systems in the modern era. emphasized.

During the main panel discussion at the Summit, "A New Era of Production: Manufacturing, Nature-Like Technologies and Their Role in the 2030 Agenda for Sustainable Development," UNIDO Director General Li Yong said, "The huge growth potential of the Fourth Industrial Revolution must be balanced with the corresponding challenges such as the potential widening of the technology gap between high-income countries and developing countries. GMIS



is essential to our discussion and will help us promote global and sustainable industrial development around the world and thus achieve the Sustainable Development Goals."



Promoting a more active introduction of nature-like technologies in industry was discussed during a bilateral meeting between Li Yong and Mikhail Kovalchuk, President of the Kurchatov Institute. The parties agreed to develop cooperation in the framework of the organization of the next international forum

dedicated to this topic, based on the successful experience of jointly hosting the Global Forum of Converged and Nature-Like Technologies in Sochi in September 2018.

Director of the UNIDO Center in the Russian Federation Sergey Korotkov took part in a session organized by the German Society for International Cooperation (GIZ), "BAT and digitalization: examples of best practices in improving environmental and economic efficiency". At the session, Sergey Korotkov presented successful experience in optimizing processes and increasing productivity and competitiveness, including through digitalization, as part of the project "Development of market mechanisms to improve energy efficiency of energy-intensive industries of Russia", which was carried out by the UNIDO Center in 2011-2017.

Sergey Korotkov was invited as an honored guest to the United Youth Discussion "A New Way of Life (Forming an Idea)", organized by the From the Screw Foundation! with the support of the Ministry of Industry and Trade of the Russian Federation. The discussion brought together young professionals, representatives of public

organizations, universities and industrial enterprises to discuss the global challenges facing humanity in the era of digitalization and the fourth industrial revolution.

YEKATERINBURG, 10 JULY 2019 | UNIDO INVESTMENT AND TECHNOLOGY PROMOTION OFFICE HEADS' MEETING

The regular meeting of the heads of UNIDO Investment and Technology Promotion Offices (ITPO) organized by UNIDO Centre took place on the margins of GMIS. The event was attended by the Director of the UNIDO Department of Trade, Investment and Innovation, Bernardo Calzadilla-Sarmiento, and the chief of the Investment Promotion Division and Coordinator of ITPO Network, Weixi Gong.

The participants discussed the strategy



of the ITPO network for the coming year, as well as opportunities for collaboration and cooperation between ITPOs and with other UNIDO departments.

The participants were also welcomed by UNIDO Director General Li Yong, who noted the positive contribution of ITPOs to the Organization's work both as a network and individually. In the framework of UNIDO special event "Investment Promotion 4.0: What Role for AI?", a new concept of "Investment Promotion 4.0" was discussed by the participants of the ITPO Heads' meeting.

RIO DE JANEIRO, JUL 30 – 3 AUG 3 | MISSION OF THE CHINA-RUSSIA INVESTMENT FUND OF REGIONAL DEVELOPMENT TO BRAZIL

A delegation from the China-Russia Investment Fund of Regional Development undertook a visit to Rio de Janeiro with the support of the UNIDO Centre. The purpose of the visit was to reach specific agreements on trilateral cooperation in the field of energy and

agro-industries. As foreseen by the mission's program, representatives of the Fund and of the UNIDO Centre met with Bento Albuquerque, Minister of Mines and Energy of Brazil. The meeting focused on the creation of additional energy capacities in Brazil with financial support of the Fund and involving Russian innovative technologies and cutting-edge equipment. During the meeting with senior management of Brazilian State company Electronuclear, possibilities of developing such project in the form of a public private partnership were considered. The delegation also met with Governor of state of Bahia, Rui Costa, to discuss in detail a project proposal on the creation of a joint trilateral enterprise in the field of agribusiness. The meetings resulted in the agreement of all parties to convey the outcomes of discussions to relevant government agencies to ensure support at the political level and further development of the projects with the participation of the UNIDO Centre.

VIENNA, SEPT 3-4 | BRIDGE FOR CITIES 4.0 – CONNECTING CITIES THROUGH THE NEW INDUSTRIAL REVOLUTION

Organized jointly by UNIDO and the

Finance Centre for South-South Cooperation (FCSSC), "BRIDGE for Cities 4.0 – Connecting Cities through the New Industrial Revolution" took place in Vienna on 3-4 September.

The annual event is devoted to encouraging knowledge sharing and connectivity among cities, and this year's edition of the event explored the impact of the 4th Industrial Revolution



(4IR) and how technology-driven innovation can facilitate the transition towards smart city development. The event attracted around 800 participants from over 100 countries.

The UNIDO CIIC Russia provided support in organizing the mission of Sverdlovsk region's delegation, attending the event, to Vienna. Besides high-level plenaries on particular aspects of the 4IR (urban innovation hubs, circular economy, smart mobility), a Mayors Roundtable led to the adoption of a Declaration of Intent by 15 Cities expressing strong interest to work with

UNIDO. A Business Roundtable resulted in the formulation of a Resilience Framework for Projects along the Belt and Road.

ST. PETERSBURG, OCT 1-4 |
 PROJECT ON ENERGY EFFICIENCY
 WAS DISCUSSED AT IX ST.
 PETERSBURG INTERNATIONAL GAS
 FORUM

In the framework of the session “Energy Efficiency of Industrial Facilities: New Technologies and Standards”, organized by Gazprom with the support of the UNIDO CIIC Russia, participants discussed the cost-effectiveness of energy efficiency measures and the implementation of energy management standards at oil and gas facilities. Sergey Korotkov and Andrei Berezin, Development Director of the International Center for Emerging Market Research, moderated the discussion.

Sergey told that more than 50 small, medium and large enterprises in Russia have implemented EMS in accordance with the ISO 50001 standard according to the UNIDO methodology. As a result, enterprises reduced emissions and energy consumption, including the consumption of electricity, gas, heat, water, and achieved an economic effect.

UNIDO national expert Alexander Antamoshkin cited “BALTIKA” brewing company as a successful example of the introduction of an energy management system, where the annual savings from the rational use of energy resources **reach 170 million rubles**, the Ural Mining and Metallurgical Company (UMMC) and the Magnitogorsk Iron and Steel Works, where **savings are more than 1 billion a year**.

Another successful project in the field of energy efficiency, panelists called the initiative of PJSC Gazprom on the utilization of heat-containing gases. The pilot project at the Oktyabrskaya compressor station is being

“THE OVERALL EFFECT OF THE IMPLEMENTATION OF ENERGY EFFICIENCY PROGRAMS ACCORDING TO UNIDO METHODOLOGY IN RUSSIAN INDUSTRY EXCEEDED 2.5 BILLION RUBLES, ENTERPRISES AND ORGANIZATIONS SAVED MORE THAN 3.5 MILLION MW OF ELECTRICITY,” SERGEI KOROTKOV

implemented by Gazprom Transgaz Yugorsk with the participation of TurbodenRus (the Russian subsidiary of the Italian supplier of generating equipment for renewable energy Turboden S.p.A.). The implemented solution will **save up to 11 million m³ of natural gas per year and reduce CO₂ emissions by 17 thousand tons.**

"This solution has great potential," said Andrei Kozlov, Turboden RUS CEO. By scaling it to the entire gas transmission system of Russia, including 254 compressor stations with a **total capacity of 47.1 thousand MW**, the savings will amount to 11 billion m³ of natural gas per year, CO₂ emissions will decrease by 21 million tons per year, which is 43% of the target, stipulated by the Concept of PJSC Gazprom, and the economic benefit of the gas concern will exceed 113 billion rubles a year.

Reference: The Gas Forum is the leading platform for discussing current industry issues. The decisions made by industry leaders following the discussions directly affect the formation of the global gas market. The Forum participants are top managers of the largest oil and gas companies, representatives of innovation centers and design institutes of the country,

experts, academics, heads of specialized universities and research institutes. The project is officially supported by federal and regional authorities: the Ministry of Energy of the Russian Federation, the Ministry of Industry and Trade of the Russian Federation, the Ministry of Transport of the Russian Federation, the Government of St. Petersburg, as well as foreign and Russian industry associations. This year, more than 90 congress events were organized at the SPGF-2019, at which more than 500 speakers spoke. Participants of the event discussed such topical issues as increasing export potential, expanding the use of high-tech domestic equipment in the gas industry, upgrading the skills of oil and gas specialists, innovative technologies, new developments, investments in the Russian fuel and energy complex, and much more.

CHELYABINSK, OCT 23 |
COORDINATION COUNCIL ON
ECOLOGY IN THE GOVERNOR OF
THE CHELYABINSK REGION, RUSSIA

The Environmental Council was created by the Russian Ecological Society in accordance with the order of the Governor of the Chelyabinsk Region.

Sergey Korotkov accepted the invitation to become a member of the Council and to develop UNIDO initiatives on sustainable development in the Chelyabinsk region.

MOSCOW, OCT 24 | UN DAY AND 30TH ANNIVERSARY OF UNIDO CIIC RUSSIA CELEBRATION

The UN House in Moscow hosted a gala reception on the occasion of UN Day together with the 30th Anniversary of the UNIDO CIIC Russia. Among the guests invited by the UNIDO Centre were the President of the National Research Center «Kurchatov Institute» Mikhail Kovalchuk, the Director of the RUDN University Engineering Academy Yuri Razumny, the Deputy chairman of the Board of Otkritie FC Bank Nadia Cherkasova, the Adviser to the plenipotentiary representative of the Republic of Bashkortostan Rishat Khalikov, the General director of Interstate Development Corporation OJSC Ivan Polyakov.

On the eve of the 75th anniversary of the organization next year, a large-scale and open to all global discussion will be held on the role of international cooperation in building the future we want. The

UN-75 initiative is designed to stimulate dialogue on how we can build a better world, despite the many challenges we face, and to facilitate the adoption of appropriate measures.

As part of the celebration of UN Day, the **30th anniversary of the UNIDO CIIC Russia** was celebrated. Over the years, the UNIDO CIIC has carried out many successful events and projects: in the



beginning, these were activities aimed at promoting the development of market mechanisms in the Russian economy, subsequently, technical assistance programs were implemented and intercountry cooperation developed.

In recent years, the main focus is on education, energy efficiency, ecology, new directions, such as the fourth industrial revolution, the so-called "Industry 4.0", the promotion of the development of nature-friendly

technologies, as well as support for the implementation of the Ecology national project of the Russian Federation that began in 2018, are of particular relevance.

ABU DHABI, NOV 3-7 | 18TH UNIDO GENERAL CONFERENCE

The UNIDO Centre organized a visit of delegation from the NRC Kurchatov Institute to the 18th session of the General Conference of the UN Industrial Development Organization (UNIDO) in Abu Dhabi, United Arab Emirates (UAE).

environmentally friendly technologies in Russia.

Sergey Korotkov discussed the prospects of horizontal cooperation with the head of the ITPO in Tokyo. This initiative was also supported by the NRC "Kurchatov Institute". Sergey Korotkov also held talks with the deputy head of Rostekhnadzor (Federal Agency for Ecological, Industrial and Nuclear Supervision) of Russia on cooperation and activities within the frameworks of international cooperation in the field of industrial safety under the auspices of UNIDO.



Within the framework of the Conference, Sergey Korotkov participated in the presentation of the Kurchatov Institute, one of the important points of which was the development of cooperation between NRC "Kurchatov Institute" and UNIDO on the implementation of

MOSCOW, NOV 25 | FORUM FOR SUSTAINABLE DEVELOPMENT "COMMON FUTURE"

A large-scale Forum was held in the Congress Center of the Ukraine Hotel,



Moscow. Forum was organized by the General Future LLC together with the University of Synergy, the People's Expertise Foundation and in partnership with the Russian Union of Industrialists and Entrepreneurs.

The main topics for discussion were **the 17 SDGs and prospects for their implementation in Russia**. In particular, possible strategies for transitioning to a low-carbon economy and obstacles to this path, both at the legislative and technological levels were discussed. Sergey Korotkov made a report on the projects of the Center for International Industrial Cooperation in the Russian Federation on low-carbon technologies and improving the energy efficiency of SMEs.

In his speech, Sergey noted that UNIDO, as an international organization, is ready

to actively assist in the transfer of technologies and techniques for companies in order to fulfill **Russia's obligations under the Paris Agreement and the Stockholm Convention**.

MOSCOW, DEC 13 | UNIDO/GEF PROJECT STEERING COMMITTEE MEETING

The annual meeting of the Steering Committee of the UNIDO/GEF project "ENVIRONMENTALLY SOUND MANAGEMENT AND FINAL DISPOSAL OF PCBS AT THE RUSSIAN RAILROAD NETWORK AND OTHER PCBS OWNERS" was held at the Center for Scientific and Technical Information and Libraries of JSC Russian Railways.

Representatives of the Ministry of Natural Resources and Ecology of the Russian Federation, the Federal Service for Supervision of Natural Resources (Rosprirodnazdor), the Ministry of Energy of the Russian Federation, and

the Ministry of Foreign Affairs of the Russian Federation attended the meeting. Representatives of JSC Russian Railways, Federal State Budgetary Organization "Russian Energy Agency", Stockholm Convention National Focal Point of the Russian Federation, SUE «Vodokanal of St. Petersburg», NEFCO, Rusatom Greenway LLC, NPO Decanter LLC.

During the meeting Korotkov Sergey handed over to the Research and Production Center for Environmental Protection of JSC Russian Railways methodological materials that were accumulated during the implementation of the project to ensure further work on the management of PCBs in Russia. The Center carries out research and development work in the field of environmental protection and also provides the structural units of the branches of JSC Russian Railways with practical and methodological assistance in ensuring environmental safety.

The meeting was attended by representatives of Rusatom Greenway LLC, a company that, on behalf of the Government of the Russian Federation, became a national integrator for the disposal of hazardous waste class I. The creation of such a company is an

important step in the development of the UNIDO-Russian Railways project, since this company has the financial and



administrative resources to continue the work already done. Development Director of Rusatom Greenway LLC, Mrs. Ekaterina Demicheva, spoke about company's upcoming plans to create a solid infrastructure for the destruction of hazardous waste class I and class II in the Russian Federation.

Director of the Department of International Cooperation of the Ministry of Natural Resources of the Russian Federation, Mr. Nuritdin Inamov noted that the UNIDO-Russian Railways project is the largest project to fulfill the obligations of the Stockholm Convention on POPs in the Russian Federation, and today the project remains in the focus of the Ministry and receives full support from it. Mr. Inamov also noted that at the

meeting of the Conferences of the Parties to the Basel, Rotterdam and Stockholm conventions, the UNIDO-Russian Railways project was marked as a landmark.

Deputy General Director of Federal State Budgetary Organization "Russian Energy Agency" Mrs. Zukhra Halperina in her speech noted that at the beginning the project was focused exclusively on Russian Railways, but the activities and enthusiasm of the project team allowed them to extend its results to other industries. She mentioned that the level of awareness about PCBs has been grown significantly during the training and the target audience was broad enough to suggest the national importance of the UNIDO-Russian Railways project.

At the end of the event, the floor was given to the representative of the Ministry of Foreign Affairs of the Russian Federation Mr. Boris Meshchanov, who

joined all the positive words addressed to the project and the project team. He emphasized the educational component of the project, which is global in scope and is an important component in achieving sustainable and stable results. Mr. Meshchanov on behalf of the Ministry expressed the hope that the results of the project will have an accumulative effect and will become an impulse for continuing efficient work in this direction.

03

PROJECTS IN RUSSIA

UNIDO CIIC ACTIVE PROJECTS IN 2019:

- ENVIRONMENTALLY SOUND MANAGEMENT AND FINAL DISPOSAL OF PCBs AT THE RUSSIAN RAILROAD NETWORK AND OTHER PCBs OWNERS
- PROMOTION OF TECHNOLOGIES AND BEST PRACTICES FOR INULIN PRODUCTION BY SMES IN THE RUSSIAN FEDERATION
- INDUSTRIAL INNOVATION CLUB

Russian Federation

Russian Federation contributed \$472,029 to 3 ongoing projects in Russian Federation.

	Contribution to Budget	Contribution to Expenditures
2012 and before	\$2,897,532	\$2,897,532
2013	\$52,021	\$52,021
2014	\$436,809	\$436,809
2015	\$138,031	\$138,031
2016	\$-8,643	\$-8,643
2017	\$-17,901	\$-17,901
2018	\$242,821	\$242,821
2019	\$288,966	\$288,966
2020	\$254,124	\$72,234
Future	\$29,362	\$0
Total	\$4,313,122	\$4,101,870



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

DEADLINES: FEBRUARY 2014 – DECEMBER 2020

OVERALL BUDGET: \$ 7,400,000

SPONSOR: GLOBAL ENVIRONMENTAL FACILITY

WEB SITE: WWW.STOPPCB.RU

GOAL: ESTABLISHMENT OF THE SYSTEM FOR PCBs MANAGEMENT IN THE RUSSIAN FEDERATION WITHIN
IMPLEMENTATION OF THE STOCKHOLM CONVENTION ON PERSISTENT ORGANIC POLLUTANTS (POPS) PROVISIONS

ABOUT

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.

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.

PARTNERS

- 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).



PROJECT ACHIEVEMENTS IN 2019

In 2019 UNIDO CIIC Russia handed to the Scientific and Production Centre for the environmental control of "Russian Railways" JSC the methodological materials in order to provide the sustainable operation of PCB Training Centre.

The tender procedures were completed and nowadays the final stage of the manufacturing of **two mobile laboratories for PCBs analysis** in electrical insulating liquids, environmental components and materials is being completed. Mobile laboratories will be used to conduct an inventory of oil-filled electrical equipment in remote regions of countries with laboratory capacity deficiencies. Now putting up the laboratories into operation is being held. The commissioning of the laboratories is being expected in 2020.

PCB analytical standards necessary for laboratory analysis of transformer oil were delivered. It is planned to introduce the methodology "GOST IEC 61619-2014 Insulating liquids. Determination of contamination with polychlorinated biphenyls by gas chromatography on a capillary column" in the laboratory, as well as preparation for the accreditation procedure is being expected.

In 2019 PCBs decontamination facility "**Melioform-PCB-5000**" has been putting into operation. The facility allows not only to decontaminate electrical insulating liquids from PCBs to values below the established limits (50 ppm), but also to provide additional treatment of oil from mechanical impurities and water residues for reuse in electrical equipment. In April 2019 the emergent Steering Committee was held in order to discuss the possibility of transferring "Melioform-PCB-5000" to Rusatom Greenway as part of a partnership with Russian Railways.

In 2019 the **manufacturing of a PCBs disposal facility** based on high-temperature oxidation was started. At the moment the manufacturing works are being implemented, the commissioning of the facility is expected to start at the middle of 2020.

The supply of decontamination facilities for PCB-containing transformer oils with subsequent disposal and thermal neutralization of PCBs within the framework of the project will provide a **comprehensive approach** to the management of PCB-containing waste with different concentrations of pollutants and will accelerate the pace of fulfillment of obligations under the Stockholm Convention on POPs by the Russian Federation.



PROJECT HIGHLIGHTS 2019

MOSCOW, APRIL 23 | THE
STEERING COMMITTEE

The International Centre for Scientific and Technical Information hosted a meeting of the Steering Committee of the UNIDO / GEF project "Environmentally sound management and final disposal of PCBs at the Russian Railways network and other PCBs owners". The event was attended by representatives of Russian Railways JSC, Ministry of Natural Resources and Environment, Ministry of Foreign Affairs, Russian Energy Agency, and Rusatom Greenway LLC. The UNIDO Centre submitted the issue of the possibility of transferring "Melioform-PCB-5000" to Rusatom Greenway as part of a partnership with Russian Railways for discussion by the members of the Steering Committee. The participants supported the proposal, noting the positive impact of the partnership on the project's objectives and the fulfillment of the Russian Federation's obligations under the Stockholm Convention

трех химических конвенций —
Базельской, Роттердамской и
Стокгольмской

GENEVE, APRIL 28 – MAY 4 | 14
MEETING OF THE CONFERENCE OF
THE PARTIES TO THE BASEL
C O N V E N T I O N

From April 28 to May 4, national consultant Ivan Seregin participated as an observer in the 14th meeting of the Conference of the Parties to the Basel Convention, the 9th meeting of the Conference of the Parties to the Rotterdam Convention and the 9th meeting of the Conference of the Parties to the Stockholm Convention (COP-2019) in Geneva, Switzerland.

Ivan took part in plenary sessions and sessions of the Stockholm Convention (COP-9), as well as in joint sessions of the COP, the information fair and a number of side events, including:

- Implementation of GEF-7 in the context of the Stockholm Convention;
- A global governance structure for the sound management of chemicals and waste beyond 2020;
- PCBs in open applications and country support for PCB elimination activities.

In the framework of the UNIDO / GEF project "Environmentally sound regulation and the final destruction of

PCBs at the enterprises of Russian Railways and other owners", the project consultant held a number of meetings to establish contacts with relevant international bodies / institutions working in the field of elimination of POPs and PCBs. Negotiations under the UNIDO Project "Capacity Building" component were held with several organizations, including: Environmental Toxic Compounds Research Center (RECETOX), International POPs Elimination Network (IPEN), national / regional cleaner production centers and NGOs.

OCTOBER 31 | IV INTERNATIONAL COOPERATION COUNCIL

Ivan Seregin, UNIDO national consultant, took part in the panel session "Participation of SMEs in the procurement of certain types of legal entities under Federal Law No. 223-FZ", which took place as part of the IV International Council for Cooperation. In the framework of the session, which was attended by representatives of the Ministry of Economy and Development of the Russian Federation, the Government of the Vologda Oblast, Russian Railways, Promsvyazbank, MSP Corporation, Rostelecom, as well

as a number of large companies and institutions, the prospects of export development, cooperation relations between business entities, resource consolidation and a systems approach aimed at developing cooperation were discussed. In particular, Ivan Seregin spoke about the experience of the participation of Russian companies in UNIDO procurement using the example of the UNIDO / GEF project implemented for Russian Railways in the Russian Federation. In his speech,



he especially noted the potential for SMEs participation in the implementation of UNIDO project activities to improve the environmental situation and increase the economic competitiveness of the regions

NOVEMBER 27-28 | YENISEI
ENVIRONMENTAL FORUM

On November 27 and 28 one of the largest environmental forums in Russia was held. UNIDO national consultant Ivan Seregin took part in a round table discussion on the theme "Partnership and openness as a guarantee of success in solving environmental problems in Russia". Ivan spoke about the position of UNIDO in the field of interaction between international organizations, business and government agencies in order to solve environmental problems. Ivan spoke about the project of the UNIDO CIIC Russia "Environmentally sound management and final disposal of PCBs at the Russian Railways network and other PCBs owners" and presented it as an example of successful interaction of business and government agencies for environment management. The environment experts, the members of legislative assembly, the government officials, businessmen and scientists took part in the event.

DECEMBER 13 | STEERING
COMMITTEE

On December 13, 2019, the annual Steering Committee of the UNIDO / GEF project "Environmentally sound management and final disposal of PCBs at the Russian Railroad Network and other PCBs owners" (hereinafter UNIDO-RZD project) was held at the Center for Scientific and Technical Information of Russian Railways. Representatives of the Ministry of Natural Resources and Ecology of the Russian Federation, the Federal Service for Supervision of Natural Resources (Rosprirodnazdor), the Ministry of Energy of the Russian Federation, and the Ministry of Foreign Affairs of the Russian Federation attended the meeting. Representatives of Russian Railways JSC, FSBI "Russian Energy Agency", National



Coordination Centre of Stockholm Convention on POPs, SUE "Vodokanal of St. Petersburg", NEFCO, "Rusatom Greenway" LLC, "NPO Decanter LLC" took part in the event as well. During the event accomplished work for 2019 as well as plans for 2020 were discussed.

MAIN ACHIEVEMENTS BY COMPONENTS

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

During the Steering Committee UNIDO CIIC Russia handed to the Scientific and Production Centre for the environmental control of "Russian Railways" JSC the methodological materials in order to provide the sustainable operation of PCB Training Centre. PCB Training Centre is required for educational, informational, consulting activities in the field of PCB management. The activities and responsibilities of the Center include:

- Development of programs and methodological materials aimed at raising public awareness on the management of PCBs;
- Conducting information seminars, conferences, lectures, etc.
- Consulting services regarding the creation of an environmentally sound management system for PCBs;
- Work with local authorities to disseminate and develop the Center's programs.

COMPONENT 2.1. ADOPTION OF METHODS FOR PCBS ANALYSIS AND ACCREDITATION OF 3-4 LABORATORIES FOR PCB ANALYSIS

The manufacturing of 2 (two) mobile laboratories has been completed. Given the shortage of laboratory capacity for PCBs analysis on the territory of the Russian Federation, the introduction of mobile laboratories will contribute for large-scale inventory of electrical equipment, waste and materials for the presence of PCBs. The introduction of methodology to the laboratory, procurement of consumable materials, training employees to work with a sample preparation system and chromatographic equipment are planned to be implemented.

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. Rusatom Greenway has the financial and administrative resources and expresses its readiness to co-finance the project and disseminate its results in order to ensure the sustainability of its achievements. At the current stage, the process of commissioning of the equipment at the site in Manikhino and its preparation for transportation are underway, and LLC "Rusatom Greenway" is making license procedures on the territory of the production and technological complex in the city of Krasnoyarsk where the decontamination equipment will be placed. The design capacity of the installation will make it possible to neutralize up to 1200 tons of waste of 1-2 hazard class.

COMPONENT 3.3. ENVIRONMENTALLY SAFE DISPOSAL OF 3800 TONS OF PCBs

A contract for provision of facility for high-temperature disposal of highly PCB-contaminated waste and materials was concluded. The technology is based on thermal neutralization of hazardous waste followed by afterburning in a plasma furnace and gas cleaning. This process ensures a more complete combustion of waste, prevents the formation of dioxins and furans. Procurement of facilities for PCBs decontamination and disposal will allow creating an integrated system for management of PCB-containing wastes with different concentration of pollutants and will speed up fulfillment obligations under the Stockholm Convention on POPs by the Russian Federation.

FURTHER PROJECT PLAN

In the framework of the project for 2019-2020 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;

- Inventory of 35,000 transformers of Russian Railways for the presence of PCBs;
- Analysis of transformer oils for the presence of PCBs;
- Commissioning of two mobile laboratories for the analysis of PCBs in transformer oil, environmental components and materials, their accreditation;
- Creation 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.

EVENTS CARRIED OUT AS PART OF THE PROJECT WERE COVERED IN THE FOLLOWING MEDIA:

1. Brochure "Safe operation of PCB equipment, its cleaning and destruction"

<http://stoppcb.ru/ru/news/42>

2. The Yenisei Ecological Forum was held in Krasnoyarsk

<http://stoppcb.ru/ru/news/43>

3. Coverage of the Steering Committee Meeting

<http://www.dekanter.ru/newsd.php?id=85>

Project activities were also covered on the official website of the UNIDO Center for International Industrial Cooperation in the Russian Federation:

<http://www.unido.ru>

As well as on the official Facebook page

<https://www.facebook.com/pg/UNIDO.ITPO.Russia>



PROMOTION OF TECHNOLOGIES AND BEST PRACTICES FOR INULIN PRODUCTION BY SMES IN THE RUSSIAN FEDERATION

DEADLINES :

A P R I L 2 0 1 8 - J U N E 2 0 1 9

OVERALL BUDGET:

\$ 73,449

SPONSOR:

INTERSTATE CORPORATION FOR DEVELOPMENT (ICD)

WEB SITE:

WWW.UNIDO.ORG

GOAL: TO FOSTER IMPLEMENTATION OF NEW TECHNOLOGIES AND BEST PRACTICES FOR PRODUCTION OF INULIN

F R O M J E R U S A L E M A R T I C H O K E B Y S M E S

ABOUT

The objective of this project is to foster implementation of new technologies and best practices for production of inulin from Jerusalem artichoke by SMEs through cooperation between Interstate Corporation for Development (ICD) and the UNIDO CIIC Russia. The project will strengthen technical cooperation between Industrial enterprises, government and private business institutions by making available appropriate advanced technologies that allow for a faster rate of innovation and an effective technology transfer.

The project will enhance cooperation within the ITPO Global Network through information-sharing, exchange of experience and provision of technical assistance to help strengthen its investment and technology capacities.

GOALS

- **to develop a mechanism** for implementation of selected best available technologies and facilitate industrial cooperation between Russia and EAEU countries
- **to increase capacities** of public institutions in Russia and EAEU on inulin production technologies implementation as well as issues, approaches and successful initiatives

The project will have a positive social and environmental impact, encouraging farmers to treat derelict lands and create the infrastructure around them, as well as to switch to the production of crops that do not require large amounts of chemicals, which creates health problems and water pollution. The project will help SMEs to transform the use of marginal and degraded arable and pasture land.

PARTNERS

Interstate Corporation for Development (ICD) with:

close cooperation with Food Systems and Nutrition Division under UNIDO Department of Agri-Business.

The support will be provided to the Ministry of Education and Science of Russia and other policy-makers in Russia and EAEU in developing institutional capacities to design, manage, monitor and evaluate industrial strategies and policies, as well as to integrate ISID in their national and inter-regional innovation policies.

MAIN ACHIEVEMENTS BY COMPONENTS

PROJECT MANAGEMENT AND COORDINATION SET-UP

UNIDO CIIC Russia has appointed the Project coordinator which together with relevant ICD expert composed the Management Committee. The Management Committee was set up and functions on a basis of regular meetings.

The Project Manager has designed the Work Programme in accordance with the projects objectives and allocated resources, and submitted the draft for approval to ICD Management. The Work Programme was approved by UNIDO and the Donor. Its implementation and strategic orientation of the project were ensured.

The Project Manager formed a team of experts who each received their own task in accordance with the project objectives. The project coordinator and experts reported to the PM on regular basis in conformity with their JD's. Close coordination of the work within the Project was ensured.

MONITORING AND REPORTING

The Project Coordinator has prepared an Operational Work Plan based on the approved Work Programme and original Project Document. The Operational Work Plan was reviewed by the PM and submitted for approval to the Management Committee. The Operational Work Plan was approved and disseminated between Projects' experts and partners in order to use it as a basis for their personal work plans.

OUTPUT 1. TRAINING OF POTENTIAL RECIPIENTS OF TECHNICAL SUPPORT AND TECHNOLOGY TRANSFER AND OTHER INSTITUTIONS INTERESTED IN COOPERATION

A series of meetings were held with representatives of farms and farmers' associations in Russia and several EAEU countries in order to reach agreements on the participation of farmers in the implementation of the project.

In Moscow in cooperation with Lorch Potato research Institute lessons were organized for trainers who will lead training courses on cultivation of Jerusalem artichoke and implementation of new technologies and best practices for production of inulin from Jerusalem artichoke by SMEs. 12 trainers were trained in Jerusalem artichoke cultivation technologies and are ready to travel to the EAEU countries to organize courses for farmers.

Negotiations were held with representatives of the Administrations of Moscow, Kostroma and Kaluga regions of the Russian Federation, as well as local authorities of Kazakhstan, Kyrgyzstan, Tajikistan and Armenia for their assistance in concluding agreements on the purchase of the Jerusalem artichoke crop in certain volumes and at market prices. The development of draft agreements on guaranteed purchases of Jerusalem artichoke harvest from small farms has begun with the local authorities of the countries mentioned.

OUTPUT 2. ESTABLISHMENT OF DEMONSTRATIVE MANUFACTURING CAPACITY AND THE CREATION OF MARKET AND FINANCIAL RELATIONS

Two meetings were held with representatives of the Kostroma region Administration in order to agree on establishment of the manufacturing capacity. An agreement has been reached on the readiness of local authorities to allocate the territory for production (4,5 hectares in the Gorchuha rural settlement) and to assist in finding an investor for the construction of an enterprise for processing the Jerusalem artichoke. The technical conditions, requirements of manufacturing capacity design developed.

In September 2018 the UNIDO CIIC Russia signed a Memorandum on Cooperation with the Kostroma business support centre and held negotiations about Centre's participation in the project activities. The Kostroma Business Support Centre agreed to work out a financing scheme for poor farmers and submit it to consideration of Kostroma oblast' agencies that run government support measures for entities operating in the agro-industrial sector.

OUTPUT 3. PUBLIC AWARENESS ACTIVITIES

On September 3, 2018, the first meeting of representatives of organizations uniting agricultural business, including producers, developers of scientific methods of

agriculture, as well as representatives of executive authorities responsible for supporting agriculture of the Russian Federation, was held at the premises of the International Center for Scientific and Technical Information. About 40 participants representing SMEs business associations, government bodies and policy makers took part in the in-depth presentation (made by UNIDO CIIC Russia) on the perspectives of the inulin production in the Russian Federation. Interviews with participants after the meeting showed interest and willingness to take into account the needs of the Jerusalem artichoke producers in the state's agricultural policy.

On October 23, 2018 Moscow hosted the Southern African Development Community Investment Forum (SADC), during which participants discussed areas of economic cooperation of Community members with Russia. The main goal of the forum was to attract Russian investments in developing industries and agriculture, and level up the opportunities to promote business cooperation between SADC countries and Russia. The director of the UNIDO Center in the Russian Federation, Sergei Korotkov who acted as moderator of the panel discussion "Regional industry value chains and the mining industry" made a presentation of the current Inulin project and held some talks in order to attract attention of the foreign producers of the inulin processing equipment.

Agreement on cooperation with All-Russian Research Institute of Agricultural Economics was concluded. The task of preparing a manual for processing artichokes into inulin is placed on a competitive basis. The manual with recommendations on how to use Jerusalem artichoke in inulin production is under preparation by the experts of All-Russian Research Institute of Agricultural Economics.

OUTPUT 4. KNOWLEDGE MANAGEMENT AND CAPACITY BUILDING

3 case studies were carried out in collaboration with the German partner DRZT e.V. :

- "Market overview of Inulin in Europe"
- "Overview of main players in the Inulin Industry"
- "Indication of applications and main potential buyers"

Case studies were printed out and ready for dissemination within scheduled training courses for SMEs representatives. The issue of sending copies of research to partner organizations in the EAEU countries is being considered for their study and introduction of inulin production experience.

COOPERATION WITH OTHER PROJECTS AND DISCUSSIONS HELD WITH LOCAL STAKEHOLDERS

The project management led by the UNIDO CIIC Russia maintained close coordination with Food Systems and Nutrition Division under UNIDO Department of Agri-Business. The experts from the Investment Promotion Division of UNIDO Department of Trade, Investment and Innovation have been actively involved in implementation of the project.

The Project's main actions are in line with goals and objectives defined in the National Economic Security Strategy of the Russian Federation until 2030 and the Scientific and Technological Development Strategy of the Russian Federation.

UNIDO CIIC Russia in the implementation of all components of the project provides the opportunity to use the tools and methodologies of UNIDO for project management and its further promotion, as well as forging partnerships with other companies and institutions.

MAIN PROBLEMS ENCOUNTERED AND MEASURES TO BE TAKEN

The main problem hindering the spread of Jerusalem artichoke is that the demand for this valuable culture, which is a source of inulin, fructose and pectin, is not formed. Currently, there is an investment in the construction of Jerusalem artichoke processing plants for inulin, but the lack of commercially available raw materials and the lack of a complex of machines for the mechanized Jerusalem artichoke cultivation technology jeopardizes the implementation of these investment projects.

The development of the production of Jerusalem artichoke is an important strategic objective, as a culture with the highest food, energy and feed output per unit area.

To solve this problem it is necessary to highlight the following goals:

- develop the technology of industrial production and processing of Jerusalem artichoke, form a market for the production of healthy food, feed and bioethanol from Jerusalem artichoke.

To achieve these goals it is necessary to solve the following main tasks:

- to develop and introduce scientifically based seed production schemes and modern technological procedures for the rapid reproduction of original, elite and reproduction seed Jerusalem artichoke;

- to develop and implement a modern system of quality assurance and certification of Jerusalem artichoke seed;

- to develop and implement effective technologies for the cultivation and storage of Jerusalem artichoke;

To develop and introduce an innovative complex of agricultural machinery for the cultivation and harvesting of Jerusalem artichoke, effective in various climatic conditions;

- To develop highly efficient waste-free resource-saving technologies for obtaining food and inulin using the latest advances in nanoindustry (nanographite bactericidal filters and media concentrators and using membrane filtration);

- to develop a recipe and industrial technology for the production of functional-ecological multicomponent healthy nutrition products of the new generation of Jerusalem artichoke;

- to develop technology and organize the production of food inulin,

- To develop industrial technology and equipment for the production of bioethanol and Jerusalem artichoke feed.

The management of the Project realizes that the above mentioned problems can not be completely resolved within the current project due to its time and money limitations. Nevertheless, all these considerations and technological developments will be carefully selected and transferred to the consideration of the producers of the Jerusalem artichoke and the state bodies responsible for agricultural policy in the EAEU countries.

Separately, it should be noted that the Project Steering Committee, taking into account the need for multi-replication of the project's positive effect in other areas of the Russian Federation and the Eurasian Economic Union, recommended to the main Donor to consider the possibility of allocating additional funds for the second phase of the project.

MEDIA COVERAGE AND AWARENESS

1. BRICS and UNIDO - common ground, International Life Magazine, <https://interaffairs.ru/jauthor/material/2200>

2. Project overview: <https://open.unido.org/projects/RU/projects/180036>



INDUSTRIAL INNOVATION CLUB

DEADLINES (RENEWED) :

2017 – 2025

WEB SITE:

WWW.UNIDO.RU

GOAL: PROMOTION OF SCIENTIFIC AND TECHNOLOGICAL DEVELOPMENT OF INDUSTRIAL SECTORS FOR THE DEVELOPMENT OF THE REAL INDUSTRIAL SECTOR OF SUSTAINABLE ECONOMY BASED ON THE REGIONAL EXPERIENCE OF THE BRICS COUNTRIES IN COOPERATION WITH THE SCO AND THE EAEU

ABOUT

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.

PARTNERS

Ministry of Economic Development of the Russian Federation;
The Russian Academy of Sciences.

PROJECT HIGHLIGHTS 2019

UPDATING THE PROGRAM

1. The Technological platform of the Industrial Innovation Club and the Roadmap of the Comprehensive Program 2017 - 2025 were updated, which made it possible to create a Technological Atlas for the development of BRICS regional cooperation with the SCO and EAEU countries.

2. The updated version of the Comprehensive Program was based on the experience of Russian enterprises in 2019-2020 in implementing the National Programs of Russia, i.e.:

- In the field of production - the National Program "Small and Medium-Sized Enterprises and Support for Individual Entrepreneurship Initiatives";
- In the field of science - the National Science Program;
- In the field of education - the National Education Program.

3. A Comprehensive program of projects for 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 is consistent with key socio-economic areas that determine long-term scientific, technical, industrial development and international cooperation of Russia.

The project proposals for industrial development of the Comprehensive Program 2017-2025 includes 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 funding security for development projects;
- Formation and implementation of regional industry projects.

Currently, 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 this period, project proposals were formulated for the following industry areas, including the participation of medium-sized enterprises and related small enterprises and entrepreneurs:

- Small metallurgy and foundry,
- small energy and renewable resources,
- agro-industrial production,
- construction of affordable housing,
- textile production

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 designing investment projects within the framework of National Programs, a working draft of a pilot project of a prototype of the Industrial Development Center for interaction in the practical implementation of projects of a complete innovation cycle was prepared and a working version of a sample passport of projects of a full innovation cycle for the Roadmap of the Comprehensive Program was developed.

COOPERATION AND TECHNOLOGICAL DEVELOPMENT

The basis of the updated and extended Comprehensive Program 2017 - 2025 and the Roadmap for projects of the full innovation cycle are Comprehensive industry projects for the period until 2020 were developed and conceptually approved by the Ministry of Economic Development of the Russian Federation and the Russian Academy of Sciences, namely:

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

BRICS FOUNDRY ASSOCIATION (BRICS FA)

The Association was founded at the BRICS Foundry Forum in Nizhny Novgorod on September 10, 2015. The initiative was developed by the Industrial Innovation Club in collaboration with the Russian Foundry Association, which organized the participation of Russian foundries in subsequent forums in China (2016), South Africa (2017), India (2018), Brazil (2019).

This is the first BRICS industry association on the proposal of the UNIDO RF Center, the creation of which was included in the BRICS Trade and Economic and Investment Cooperation Roadmap for the Period Until 2020, prepared by the RF Ministry of Economic Development for the BRICS Business Council.

PROJECT EVENTS 2019

April 9-10, 2019, Magnitogorsk - participation in events dedicated to the 85th anniversary of the establishment of MSTU. G.I. Nosova

May 15-16, 2019, Moscow, RAS - participation in the first International Economic Forum, "Prospects for socio-economic development and the role of science", organized by the Russian Academy of Sciences, the Free Economic Society of Russia, and the International Union of Economists.

May 14-17, 2019, Moscow, Expocenter - participation in the international exhibition "Litmash 2019" as part of the Foundry Forums in Russia and in the international exhibition "Metallurgy".

July 8 - 11, 2019, Yekaterinburg - the participation of partners of the Industrial Innovation Club at the INNOPROM 2019 site with the topic "New Technologies in Traditional Industries and Industrial Development IV", which was held as part of the second UNIDO Global Summit "Production and Industrialization" in Yekaterinburg.

September 17-20, 2019, Brazil, Sao Paulo - participation in the organization of the Russian delegation at the Foundry Forum of the BRICS Foundry Association, which defines international cooperation in small metallurgy and foundry.

September 27-29, 2019, Novosibirsk - participation of partners of the Industrial Innovation Club at the site of the International Forum for Technological Development (TECHNOPROM 2019) in Novosibirsk based on the proposals of the Novosibirsk Investment Development Agency for the Comprehensive Program 2017 - 2025

November 12-15, 2019, Moscow, VDNH - Metal Week in Moscow, MetalExpo-2020.

December 12, 2019, Moscow, All-Russian Public Organization "Business Russia" - International Award "Small Energy - Great Achievements".

Source: <http://forumtechnoprom.com/>



PROJECT FUTURE STEPS

1. Completion of the Roadmap for the Comprehensive Program 2017 - 2025 and the Technological Atlas of the Industrial Innovation Club, taking into account the long-term recommendations of the National Programs "SMEs", "Science", "Education" and based on the results of the elaboration of project proposals of Russian enterprises with departments of the Ministry of Economic Development of the Russian Federation and departments of the Russian Academy of Sciences.

2. Development of the algorithm for the full innovation cycle of the Comprehensive Program 2017-2025 in order to bring the research and development sector closer to the real economy. 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.

3. Finalization of the proposal of the pilot project "Creation and Maintenance of the Center for Industrial Development" and the working sample of the passport of investment projects for project proposals of the Comprehensive Program 2017 - 2025. The Center is planned as a tool for the practical implementation of industrial projects of the full innovation cycle.

4. Carrying out activities within the framework of the Comprehensive Program 2017-2025, 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. Events will be carried out taking into account the results and further development in the most relevant areas:

- The UNIDO / BRICS project with expanded interregional tasks "Russia-Brazil: Partnership in the field of technologies and innovations for the development of medium and small enterprises with expansion to other BRICS countries".
- Annual Small Business Forums of the regions of the SCO and BRICS member countries aimed at stimulating cooperation in the field of small and medium-sized enterprises (Ufa).
- Outputs of the BRICS Summit 2018, South Africa "BRICS and Africa: cooperation for comprehensive growth and common welfare during the 4th Industrial Revolution".
- Recommendations of the Russia-Africa Economic Forum at the Russia-Africa Summit, Sochi, Russia, October 2019.
- Recommendations of the Eurasian Analytical Forum, organized by the Eurasian Information and Analytical Consortium (Russia, Moscow), with the participation of the

Russian Union of Scientific and Engineering Associations and the Free Economic Society (VEO of Russia).

- Experience in implementing the UNIDO project on supporting industrial integration processes in the EURASES member states (UNIDO Center of the Russian Federation, Moscow) and the results of the conference “New Horizons for Strategic Partnership and Integration” March 27-28, 2019, Bishkek, organized by the Ministry of Economic Development of the Russian Federation and the Ministry of Economy of Kyrgyzstan.
- Annual International Technological Development Forum TECHNOPROM, Novosibirsk.
- Annual International Industrial Exhibition INNOPROM, Ekaterinburg.
- The UNIDO Global Summits “Production and Industrialization” aimed at developing new technologies in traditional and new industries.
- BRICS Foundry Forum (Secretariat in China), which defines international cooperation in the priority branch of small metallurgy and foundry.

MEDIA COVERAGE

- Foundry development in Russia, news:
http://www.unido.ru/news/prog_razvitiya_lit_proizvodstva/
- Technological development of agricultural production in Russia, news:
http://www.unido.ru/news/proekt_razvitiya_agroproma/
- The development of the textile industry in Russia, news:
http://www.unido.ru/news/proekt_otraslevogo_razvitiya/

04 MEDIA

WEB-SITES

WWW.UNIDO.RU
WWW.STOPPCB.RU

FACEBOOK

UNIDO.ITPO.RUSSIA

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PUBLICATIONS

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MEDIA AND PUBLICATIONS IN 2019:

1. UNIDO explores enhanced cooperation with Russian counterparts, press release, UNIDO official,
<https://www.unido.org/news/unido-explores-enhanced-cooperation-russia-n-counterparts>
2. About the 18th session of the United Nations General Conference on Industrial Development, press release, The Ministry of Foreign Affairs of the Russian Federation,
https://www.mid.ru/organizacia-ob-edinennyh-naci-j-po-promyslennomu-ravzitiu-unido/-/asset_publisher/6d07GTXYvNCG/content/id/3888927
3. The results of the Global Summit on Production and Industrialization (GMIS-2019), press releases from different sources,
<https://www.gazeta.ru/gazeta/adv/12495049.shtml>, <https://www.obltv.ru/news/society/v-ekaterinburge-zavershilis-sammit-gmis-2019-i-vystavka-innoprom/>, <https://www.oblgazeta.ru/economics/96017/>,
<https://www.pnp.ru/economics/na-otkrytii-gmis-2019-nazvana-novaya-tendenciya-razvitiya-promyshlennosti.html>
4. UNIDO Director General announces intention to visit Bashkortostan in Austria, press release, RBC:
<https://ufa.rbc.ru/ufa/21/11/2019/5dd6bdf49a7947a16f91da05>
5. BRICS and UNIDO - common ground, International Life Magazine,
<https://interaffairs.ru/jauthor/material/2200>
6. Brochure "Safe operation of PCB equipment, its cleaning and destruction"
<http://stoppcb.ru/ru/news/42>
7. The Yenisei Ecological Forum was held in Krasnoyarsk, press release,
<http://stoppcb.ru/ru/news/43>
8. Coverage of the Steering Committee Meeting, DEKANTER web site,
<http://www.dekanter.ru/newsd.php?id=85>





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