



SPIEF'16

**ST. PETERSBURG
INTERNATIONAL
ECONOMIC
FORUM**

PROMOTION OF INVESTMENT PROJECTS AT THE ST. PETERSBURG INTERNATIONAL ECONOMIC FORUM

**CATALOGUE OF
PROPOSED PROJECTS**

FORUMSPB.COM

ABOUT THE CATALOGUE

Over the last two decades, the St. Petersburg International Economic Forum (SPIEF) has grown into one of the leading global platforms for the discussion of key economic issues currently facing Russia and the world.

A major event on the calendar for the business community, SPIEF welcomes the opportunity to work together with its partners to shape the ideal networking conditions for major market players seeking to expand their business and improve Russia's economic competitiveness.

We are looking for exceptional projects. We are seeking entrepreneurs who have what it takes to succeed not only in a resource-based economy, but in the high-tech industry; who can take Russia's private sector to the next level and give it a competitive edge on the global economic stage.

That is why the Roscongress Foundation has launched what we hope will become a permanent platform for working on projects to help them move forward and meet the demands of professional investors.

Russia has always been a nation of great size and great opportunity. Brilliant ideas and breakthrough projects can be found throughout the country. Giving each and every one of them an opportunity to find investors and become a reality: this is the approach that lies at the heart of a new service offered by the Roscongress Foundation.

Promotion of Investment Projects at SPIEF is a new format for promoting investment projects using the mechanisms and opportunities offered by forums organized by the Roscongress Foundation.

We are confident that the investment promotion service will help to make the SPIEF networking platform more effective, create a better environment for matching projects to potential investors, and help project initiators and entrepreneurs from various regions and economic sectors to present their companies and business forecasts to investors and secure their support.

The Promotion of Investment Projects service will consist of three phases: application processing (phase 1), project analysis (phase 2), and investor outreach (phase 3).

During the application processing phase, the Foundation will develop a database of project proposals, including all submitted and processed applications which have undergone a quick review and progressed to phase 2.

The project proposal catalogue is an additional chance to present Russia's investment potential as well as that of specific projects.

The information provided in the catalogue is based on that provided by applicants to the promotion service, who bear full liability for all consequences of use of the given materials.

We wish all SPIEF 2016 participants a productive and successful time at the Forum!

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FOOD AND AGRICULTURAL PRODUCTS

PROJECT PROPOSAL

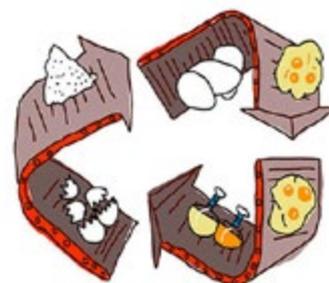
PROJECT: SMALL-SCALE EGG PROCESSING PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-6	6 months	Food production	Kemerovo Region

PROJECT DESCRIPTION

Egg processing project, including the construction of a small-scale plant for the production of liquid egg products: pasteurized liquid yolk, melange, and egg whites.

The project will aim to meet the demands of the B2B and growing B2C markets for egg products designed for household and commercial use. The plant will utilize non-standard eggs collected from poultry farms.



PROJECT AIMS

- To create a financially sustainable and economically viable company with a main focus on liquid egg products

PROJECTED OUTCOME

A small-scale plant designed for the processing of fresh eggs, with a minimum production capacity of 5,400 tonnes of liquid egg products per year

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
- Pasteurized liquid yolk	Total budget:	RUB 164 million
- Pasteurized liquid yolk with up to 10–11% added salt or 50% added sugar	Total investment from the project initiator:	0
- Pasteurized liquid melange	Financing:	RUB 164 million
- Pasteurized liquid melange with up to 10–11% added salt or 50% added sugar	Payback period (PP):	1.2 years
- Pasteurized liquid egg white	Net present value (NPV):	RUB 170.8 million
- Fermented liquid yolk (at a subsequent stage)	Internal rate of return (IRR):	25%
	Average rate of return (ARR):	18%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 13 million	Collateral	Project assets
Equipment	RUB 151 million		

APPLICANT: Kuzbass Construction Company

PROJECT PROPOSAL

PROJECT: DEEP WHEAT PROCESSING ENTERPRISE

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-9	3 years	Food production	Orenburg Region

PROJECT DESCRIPTION

Creation of an enterprise for the production and sale to the market of in-demand processed wheat products (gluten, starch, high-fructose corn syrup, citric and ascorbic acids), with a production capacity of up to 500,000 tonnes per year.

The project involves construction of buildings and facilities, equipment purchase and installation, and production of derivative products.

It is estimated that the enterprise will lead to the creation of 185 jobs. Ten-year earnings forecast: RUB 184,724 million; project owner's net profit: RUB 94,250 million.



PROJECT AIMS

- To create (build) a processing plant and generate a return on the market sale of in-demand processed wheat products

PROJECTED OUTCOME

A wheat processing plant with a processing capacity of up to 500,000 tonnes per year

END PRODUCTS		FINANCIAL INDICATORS	
<ul style="list-style-type: none"> - Bran - Gluten - Refined starch - Feed additives - High-fructose corn syrup - Citric and ascorbic acids - Lysine - Rectified spirit 		INDICATOR	VALUE
		Total budget:	RUB 19,600 million
		Total investment from the project initiator:	0
		Financing:	RUB 19,600 million
		Payback period (PP):	5.25 years
		Net present value (NPV):	RUB 52,432 million
		Internal rate of return (IRR):	43.8%
		Average rate of return (ARR):	50.9%
COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 3,854 million	Collateral	Project assets
Equipment	RUB 14,430 million		
Other expenses	RUB 1,316 million		
APPLICANT: Orskmelprom			

PROJECT PROPOSAL

PROJECT: VECTOR AGRIBUSINESS: AGRO-INDUSTRIAL COMPLEX

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-11	2016–2018	Agriculture	Moscow Region

PROJECT DESCRIPTION

Construction of a warehousing complex on the territory of Vector agribusiness (10,372 hectares). The complex will include associated infrastructure, including primary processing, weighing, sorting, and drying stations, and a transportation hub.

The project will include the construction of three new storage hangars, as well as the reconstruction of three existing warehouses and one service building.

The new complex will help cut the costs of technological aspects of food harvesting and storage, making use of existing infrastructure designed to minimize the industry's reliance on weather, and significantly lowering agricultural waste.



PROJECT AIMS

- To maintain the quality of agricultural products for longer periods of time (from six to 36 months)
- To allow companies to avoid having to sell products at the lowest market rates during harvest
- To significantly increase profitability

PROJECTED OUTCOME

An agricultural warehousing complex with a storage capacity of over 20,000 tonnes

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
<ul style="list-style-type: none"> – Wheat, barley, oats, and triticale grain – Rapeseed, winter cress, and mustard seed – Peas 	Total budget:	RUB 170 million
	Total investment from the project initiator:	RUB 50 million
	Financing:	RUB 120 million
	Payback period (PP):	4.25 years
	Net present value (NPV):	RUB 12.629 million
	Internal rate of return (IRR):	26.3%
	Average rate of return (ARR):	23.5%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Equipment	RUB 74 million	Collateral	Real estate (after start of operations)
Other expenses	RUB 96 million		

APPLICANT: VECTOR

PROJECT PROPOSAL

PROJECT: RECONSTRUCTION OF THE NOVOCHERKASSK FISH FACTORY

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-12	3 years	Agriculture	Rostov Region

PROJECT DESCRIPTION

Reconstruction of the Novocherkassk Fish Factory's productive capacity, construction of a new fish processing facility and warehouses for end product storage with a capacity of up to 20,000 tonnes per year.

The project's business model calls for an increase in seafood production and distribution driven by modernization of the factory's production.



PROJECT AIMS

- To supply Russian consumers with environmentally clean, affordable seafood
- To increase seafood production and distribution throughout the region

PROJECTED OUTCOME

A fish processing and warehousing complex

END PRODUCTS

- Live fish: up to 7,000 tonnes per year
- Refrigerated fish products: 6,000 tonnes per year
- Frozen fish products: 6,000 tonnes per year

FINANCIAL INDICATORS

INDICATOR VALUE	VALUE
Total budget:	RUB 1,902 million
Total investment from the project initiator:	RUB 300 million
Financing:	RUB 1,602 million
Payback period (PP):	5.7 years
Net present value (NPV):	RUB 1,165 million
Internal rate of return (IRR):	24.5%
Average rate of return (ARR):	26.2%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 595 million
Equipment	RUB 757 million
Other expenses	RUB 550 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Property and equipment

APPLICANT: NOVOCHERKASSK FISH FACTORY

PROJECT PROPOSAL

PROJECT: ORSK PASTA FACTORY

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-13	6 months	Food production	Orenburg Region

PROJECT DESCRIPTION

New financing for an existing company (pasta factory) designed to tap its full pasta and durum pasta flour manufacturing capacities.

The project's business model relies on sales of popular processed wheat products to improve the company's profitability. Expected monthly revenue: RUB 15 million.



PROJECT AIMS

To increase profits through optimized utilization of the existing company's manufacturing potential and future expansion of its commercial activities

PROJECTED OUTCOME

A significant increase in production output and greatly improved profitability

END PRODUCTS	FINANCIAL INDICATORS	
<ul style="list-style-type: none"> - Durum wheat flour: 8,500 tonnes per year - Pasta products: 18,000 tonnes per year 	INDICATOR	VALUE
	Total budget:	RUB 608 million
	Total investment from the project initiator:	RUB 208 million
	Financing:	RUB 200 million
	Payback period (PP):	1.24 years
	Net present value (NPV):	RUB 3,157 million
	Internal rate of return (IRR):	28.1%
	Average rate of return (ARR):	22%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 200 million		
Equipment	RUB 208 million	Collateral	Project assets
Other expenses	RUB 200 million		

APPLICANT: Orsk Pasta Factory

PROJECT PROPOSAL

PROJECT: RECONSTRUCTION OF THE SIRIUS FISH FACTORY

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-018-1	2016–2020	Agriculture	Republic of Adygea

PROJECT DESCRIPTION

The project involves the reconstruction of existing facilities aimed at increasing production capacity and organizing sales through the company's own retail chain.

In 2000, the fish farm earned official breeding farm status.

In 2005, it received silver, bighead, and grass carp breeding licences.

Main project objectives:

- plant reconstruction: a new hatchery, new processing floor and warehouse, new indoor incubators for winter commercial fish production, reconstruction of existing open-air ponds and primary water intake points
- seafood retail chain creation: the purchase of specialized seafood transport planes
- setup of sales points



PROJECT AIMS

To increase seafood production and sales through the company's own seafood retail chain in southern Russia

PROJECTED OUTCOME

- Reconstructed fish factory
- New seafood retail chain in southern Russia (Krasnodar and Stavropol territories, Republic of Adygea, Rostov Region)

END PRODUCTS

- Silver carp
- Bighead carp
- Grass carp

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 1,024 million
Total investment from the project initiator:	RUB 209 million
Financing:	RUB 815 million
Payback period (PP):	2.3 years
Net present value (NPV):	RUB 296 million
Internal rate of return (IRR):	11%
Average rate of return (ARR):	82.1%

COST STRUCTURE

ITEM	VALUE
Capital expenditure	RUB 600 million
Other expenses	RUB 424 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Company assets (facilities and land plots)

APPLICANT: Orion Management Company

PROJECT PROPOSAL

PROJECT: ANDROPOVSKY INDUSTRIAL GREENHOUSE

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-02-1	2016–2020	Agriculture	Stavropol Territory

PROJECT DESCRIPTION

Construction of a ten-hectare greenhouse complex (later expanding to 50 hectares) in the village of Soluno-Dmitriyevskoye, Andropovskiy District, Stavropol Territory.

The project will involve the creation of a cutting-edge, earth-sheltered fresh produce production facility using the world's most innovative technologies.



PROJECT AIMS

As part of the import substitution effort, to supply domestic markets in Stavropol Territory and other regions with fresh, top-quality produce

PROJECTED OUTCOME

- Production of 6,000 tonnes of top-quality greenhouse vegetables per year
- Creation of 194 jobs

END PRODUCTS

- Tomato: the main crop on the basis of demand. Several dozen tomato hybrids can be cultivated as part of the project
- Cucumber: second product. Thanks to its shorter growth cycle and earlier harvests compared to the tomato, cucumber will be used at the initial development stage of the first completed greenhouse

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 1,587 million
Total investment from the project initiator:	RUB 317 million
Financing:	RUB 1,270 million
Payback period (PP):	5 years
Net present value (NPV):	RUB 861 million
Internal rate of return (IRR):	27.8%
Average rate of return (ARR):	58%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 538 million
Equipment	RUB 987 million
Other expenses	RUB 62 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Land plots, project assets

APPLICANT: Andropovskiy Greenhouse Complex

PROJECT PROPOSAL

PROJECT: TURKEY FARM

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-031-4	2 years	Agriculture	Altai Territory

PROJECT DESCRIPTION

Construction of a turkey farm housing 200,000 young birds and a meat processing plant.

The project involves construction of facilities and engineering infrastructure (prefabricated barn, aviary for keeping birds with hatchery, feed warehouse, gas boiler room) and acquisition of equipment and technologies, including flooring and cages, incubator and abattoir equipment, refrigeration unit, and vehicles.



PROJECT AIMS

– To meet the demand for turkey meat in the Siberian Federal District

PROJECTED OUTCOME

Annual sales projections: 6,800 tonnes of turkey meat

END PRODUCTS	FINANCIAL INDICATORS	
Turkey meat (refrigerated, frozen)	INDICATOR	VALUE
	Total budget:	RUB 928.9 million
	Total investment from the project initiator:	RUB 278.7 million
	Financing:	RUB 650.2 million
	Payback period (PP):	3.5 years
	Net present value (NPV):	RUB 151.9 million
	Internal rate of return (IRR):	22.7%
	Average rate of return (ARR):	34.4%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 383.5 million	Collateral	Confirmed
Equipment	RUB 187 million	Bank guarantee	Confirmed
Other expenses	RUB 358.4 million	Security	Confirmed

APPLICANT: Central Administrative Board of Economy and Investment of Altai Territory

PROJECT PROPOSAL

PROJECT: GREENHOUSE FARM

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-031-5	1 year	Agriculture	Altai Territory

PROJECT DESCRIPTION

Construction of 10 hectares of industrial-grade hothouses designed to produce vegetables, herbs, and salad leaves (tomatoes, cucumbers, celery, onions, spinach, rocket, parsley, dill, etc.).

The project involves construction of:

- 94,000 m² of cultivated land
- 3,200 m² of seedling production facilities
- 4,800 m² of service buildings



PROJECT AIMS

- To meet the growing demand for environmentally friendly vegetables in the Siberian Federal District during the off-season period
- To promote import substitution

PROJECTED OUTCOME

Annual production output: tomatoes – 1,625 tonnes, cucumbers – 2,183 tonnes, assorted greens – 806 tonnes

END PRODUCTS	FINANCIAL INDICATORS	
<ul style="list-style-type: none"> - Fresh vegetables - Assorted greens 	INDICATOR	VALUE
	Total budget:	RUB 964.4 million
	Total investment from the project initiator:	RUB 192.9 million
	Financing:	RUB 771.5 million
	Payback period (PP):	4.6 years
	Net present value (NPV):	RUB 53.1 million
	Internal rate of return (IRR):	12.7%
	Average rate of return (ARR):	15.7%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 421.9 million	Collateral	Confirmed
Equipment	RUB 471 million	Bank guarantee	Confirmed
Other expenses	RUB 71.5 million	Security	Confirmed

APPLICANT: Central Administrative Board of Economy and Investment of Altai Territory

PROJECT PROPOSAL

PROJECT: SUGAR BEET PROCESSING AND SUGAR PRODUCTION PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-031-7	2 years	Food production	Altai Territory

PROJECT DESCRIPTION

The project will involve construction of a sugar beet processing and sugar production facility.

Altai Territory is one of a number of regions which holds great promise in terms of sugar production. Today, it is the only region to the east of the Ural Mountains that produces its own granulated sugar.

One distinguishing feature of this project is the processing plant's full reliance on locally grown sugar beets, which will help lower production costs by minimizing the transport component compared to the plant's competitors. To fully capitalize on this advantage, the project initiator plans to convert the plant into a full complex, growing sugar beets and grain crops in-house.



PROJECT AIMS

- To process sugar beets and produce sugar in Altai Territory
- To supply residents of Siberia and the Russian Far East with sugar

PROJECTED OUTCOME

A sugar beet processing plant, with a production capacity of 10,000 tonnes per day

END PRODUCTS		FINANCIAL INDICATORS	
- Granulated sugar		INDICATOR	VALUE
- Pulp		Total budget:	RUB 8,609.5 million
- Syrup		Total investment from the project initiator:	RUB 1,721.9 million
		Financing:	RUB 6,887.6 million
		Payback period (PP):	6.6 years
		Net present value (NPV):	RUB 204.7 million
		Internal rate of return (IRR):	11.3%
		Average rate of return (ARR):	12.9%
COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 635.3 million	Collateral	Confirmed
Equipment	RUB 390.3 million	Bank guarantee	Confirmed
Other expenses	RUB 583.9 million	Security	Confirmed

APPLICANT: Central Administrative Board of Economy and Investment of Altai Territory

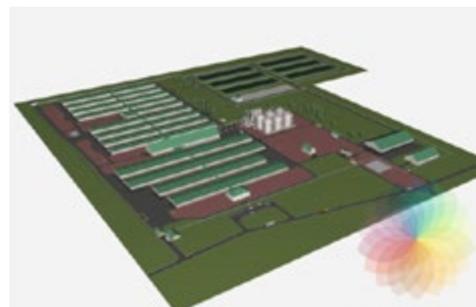
PROJECT PROPOSAL

PROJECT: FRESH REFRIGERATED PORK PRODUCTION

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-038	3 years	Food production	Ivanovo Region

PROJECT DESCRIPTION

The pig farming complex has a construction budget of RUB 9.1 billion. Sberbank of Russia has committed to financing 70% of the project, and will contribute RUB 6.2 billion. The project will be financed and built as a series of units, and each unit will be operated as an independent, autonomous business entity. Consequently, the project requires RUB 1.8 billion in funding. The budget for construction of the first unit is RUB 3 billion, RUB 2.1 billion of which will be provided by Sberbank in the form of a credit line, and RUB 650 million will have to come from other sources. Investors are invited to finance 20% of the budget, contributing RUB 650 million for construction of the first unit or RUB 1.8 billion for the entire project. The project initiator will cover 10% of the budget.



One of the project's investors, Canada-based Genesus, is one of the world's leading pig breeders and pork product suppliers.

All design documentation has been completed, and construction permits have been obtained. The company has already signed purchase contracts with clients.

PROJECT AIMS

To build a cutting-edge, high-yield pork production and processing facility

PROJECTED OUTCOME

The company will produce approximately 29,000 tonnes of fresh refrigerated pork products per year. The first module will have a production capacity of 9,000 tonnes

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
<ul style="list-style-type: none"> – Fresh refrigerated meat cuts in packages of up to two kilograms – The facility can supply half carcasses and by-products (lungs, heart, liver) 	Total budget:	RUB 9,108 million
	Total investment from the project initiator:	RUB 258 million
	Financing:	RUB 2,474 million
	Payback period (PP):	5 years
	Net present value (NPV):	RUB 8,276 million
	Internal rate of return (IRR):	32%
	Average rate of return (ARR):	36%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 4,730 million	Collateral	Project assets
Equipment	RUB 2,333 million		
Other expenses	RUB 2,045 million		

APPLICANT: Magnat

PROJECT PROPOSAL

PROJECT: EXPANDED SHEEP FARMING OPERATION AT MAYAK MUNICIPAL FARM

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-045-10	2015–2020	Agriculture	Republic of Bashkortostan

PROJECT DESCRIPTION

Mayak Municipal Farm initiated this project in 2013. Using financing from the municipal budget (RUB 13.2 million), the budget of the Republic of Bashkortostan (RUB 24.6 million), and the company's own funds (RUB 13.7 million), Mayak purchased 2,429 head of pedigree Volgograd sheep, built new facilities to house the sheep, and performed capital repairs on three existing buildings. The company began construction of a fully equipped slaughterhouse for large and small cattle.

Agricultural equipment and inventory have been purchased, and security cameras have been installed. The farm currently keeps 4,173 head of Volgograd sheep. The company has created 45 jobs and has been awarded the status of pedigree breeder.



PROJECT AIMS

- To expand the existing operation and provide employment
- To reclaim the tradition of sheep farming
- To use the district's natural resources and unused livestock breeding facilities

PROJECTED OUTCOME

- Formation of a sheep farming cluster and creation of a breeding operation at Mayak Municipal Farm
- Increase in the district's sheep count to 60,000 head by 2020
- Increase lamb and mutton production to 3,333 tonnes by 2020, increase wool production to 150 tonnes, and sales of breeding stock to 4,000 head

END PRODUCTS	FINANCIAL INDICATORS	
<ul style="list-style-type: none"> – Lamb and mutton – Wool – Young breeding stock 	INDICATOR	VALUE
	Total budget:	RUB 356.5 million
	Total investment from the project initiator:	RUB 195.7 million
	Financing:	RUB 160.8 million
	Payback period (PP):	5.10 years
	Net present value (NPV):	RUB 445 million
	Internal rate of return (IRR):	57.4%
	Average rate of return (ARR):	64%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 134 million	Collateral	Project assets
Equipment	RUB 222.5 million		

APPLICANT: Mayak Municipal Farm



**CHEMICAL
AND PHARMACEUTICAL
PRODUCTS**

PROJECT PROPOSAL

PROJECT: MECONS COMPOSITES

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-032-1	5 years	Chemical industry	Moscow, Moscow Region

PROJECT DESCRIPTION

Acquisition of pultrusion equipment designed to expand the company's market share using this innovative technology. Various forecasts have indicated that demand for composite material products in Russia will grow by 20% a year for the foreseeable future.

The company plans to produce fencing, troughs, and noise barriers, among other items. Prospective clients: Federal Road Agency (Rosavtodor), Avtodor Russian Highways, Rosseti, Russian Railways, Transneft, Gazprom, and municipal governments. Potential export markets: construction markets in Europe and Asia.



PROJECT AIMS

- To become a leading manufacturer of composite construction materials
- To lower costs by 19%
- To shorten the production cycle by 14–28 days
- To increase the output from RUB 52 million (2015) to RUB 1.5 billion over a period of five years

PROJECTED OUTCOME

- Expanded and diversified product line
- Expanded project team
- Stronger presence on existing markets and expansion to new markets

END PRODUCTS

Fibreglass construction materials produced using the pultrusion process

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 175.257 million
Total investment from the project initiator:	0
Financing:	RUB 175.257 million
Payback period (PP):	4.5 years
Net present value (NPV):	RUB 224.31 million
Internal rate of return (IRR):	50%
Average rate of return (ARR):	52.9%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	0
Equipment	RUB 128.452 million
Other expenses	RUB 46.805 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets (equipment, intellectual property)

APPLICANT: Mecons

PROJECT PROPOSAL

PROJECT: FULL-CYCLE CHROMIUM AND MAGNESIUM ENRICHMENT FACILITY

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-039	2017–2021	Chemical industry	Republic of Bashkortostan

PROJECT DESCRIPTION

The project calls for the creation of a modern facility for the enrichment of chromium and magnesium ore as part of the existing Khrom Ore Mining Plant.

The factory will process naturally formed serpentinites and magnesites using a unique, highly efficient technology which produces zero waste, in order to manufacture end products that meet the highest quality standards demanded by European manufacturers. This technology will allow the plant to tap into virtually unlimited, low-cost sources of natural and artificial raw materials.



PROJECT AIMS

- To build a modern chromium and magnesium ore enrichment facility in the Republic of Bashkortostan, designed to produce a range of products as part of the import substitution effort, including in the military and defence sectors, and which are also used in Russia's metallurgy, machine-building, chemical, and rubber industries
- To offer a large selection of end products for the chemical and construction markets; to use the project's competitive advantages to acquire and maintain a stable market share

PROJECTED OUTCOME

- Start of operations in the third quarter of 2017
- Entry into mass production in the final quarter of 2017
- Production expected to reach target indicators by the third quarter of 2018
- 250,000 tonne annual enrichment capacity of chromium and magnesium ore once the plant enters into mass production
- Annual revenue to reach approximately RUB 6.5 billion by 2018 based on future prices, with EBITDA of around 25%

END PRODUCTS

- Reactive magnesia powder
- Synthetic olivine
- Soluble glass
- Magnesium sulphate heptahydrate
- Iron oxide pigments
- Chromic trioxide
- Silicate kieserite
- Sorel cement
- Construction gravel

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 2,000 million
Total investment from the project initiator:	RUB 400 million
Financing:	RUB 1,600 million
Payback period (PP):	2.6 years
Net present value (NPV):	RUB 4,634 million
Internal rate of return (IRR):	57.7%
Average rate of return (ARR):	15.3%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 740 million
Equipment	RUB 920 million
Other expenses	RUB 340 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Credit secured by existing and new fixed assets

APPLICANT: Khrom Ore Mining Plant

PROJECT PROPOSAL

PROJECT: TITANIUM VALLEY COMPOSITE PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-047	2016–2020	Chemical industry	Sverdlovsk Region

PROJECT DESCRIPTION

The project is scheduled to be built in the Titanium Valley Special Economic Zone (Sverdlovsk Region). The site was chosen for the following reasons:

- proximity to basalt resources located in Perm and Chelyabinsk regions
- the region's top engineering academies specializing in material sciences and construction materials
- preferential economic conditions in the Titanium Valley Special Economic Zone, which greatly improve the project's financial indicators
- proximity to primary consumers of the end product: machine building, defence, and construction companies located in Sverdlovsk Region and the Urals



PROJECT AIMS

- To build a continuous basalt fibre (CBF) production plant with manufacturing capacity of 5,000 tonnes per year
- To establish a basalt technology R&D and testing centre within the new facility

PROJECTED OUTCOME

- Creation of a new global research, development, and production hub in the rapidly growing composite industry
- Construction of facilities that will bring in RUB 1 billion in annual revenue (including VAT, based on 2014 prices), 50% of which will be net profit

END PRODUCTS

Continuous basalt fibre.

Basalt fibre manufacturing equipment is environmentally clean and compact, and releases only the by-products of complete natural gas combustion after they have gone through cooling recuperators and filtration systems.

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 1,100 million
Total investment from the project initiator:	RUB 94 million
Financing:	RUB 1,006 million
Payback period (PP):	4.5 years
Net present value (NPV):	RUB 1,192 million
Internal rate of return (IRR):	26.5%
Average rate of return (ARR):	34.4%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 141.7 million
Equipment	RUB 871 million
Other expenses	RUB 87.3 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets

APPLICANT: NordBasalt

PROJECT PROPOSAL

PROJECT: MECHNIKOV BIOTECH ENTERPRISE

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-049	2015–2017	Chemical industry	St. Petersburg

PROJECT DESCRIPTION

The project involves the construction of a Russian–Nicaraguan plant designed to manufacture immunobiological pharmaceuticals, in particular the flu vaccine. The jointly run facility will fully comply with current global standards, including Good Manufacturing Practice, Good Clinical Practice, and Good Laboratory Practice.

The project is part of the work undertaken by the Russian–Nicaraguan Intergovernmental Commission by order of the Russian President Vladimir Putin No. PR-2212 issued on September 18, 2014, as well as orders No. IS-P2-7142 dated September 22, 2014, No. SP-P2-978 dated February 18, 2015, and No. AD-P12-P-160s dated May 19, 2015, issued by the Russian Government.



PROJECT AIMS

To build a plant in Nicaragua for the joint manufacture and subsequent sale of innovative immunobiological pharmaceuticals on the Latin American market, in order to turn a profit while meeting the region's demand for modern medicine at competitive prices

PROJECTED OUTCOME

A high-tech facility capable of producing immunobiological pharmaceuticals in compliance with international GMPs. The company is expected to become the leading manufacturer and supplier of immunobiological pharmaceuticals in Latin America

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
- Flu vaccine	Total budget:	RUB 1,950 million
- Tuberculin	Total investment from the project initiator:	RUB 1,586 million
	Financing:	RUB 364 million
	Payback period (PP):	6 years
	Net present value (NPV):	RUB 273 million
	Internal rate of return (IRR):	11.9%
	Average rate of return (ARR):	18%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 650 million		
Equipment	RUB 910 million	Collateral	Project assets
Other expenses	RUB 390 million		

APPLICANT: St. Petersburg Scientific Research Institute of Vaccines and Serums of the Federal Medical and Biological Agency of Russia



**MACHINERY, EQUIPMENT,
AND TRANSPORTATION**

PROJECT PROPOSAL

PROJECT: HARVESTER

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-022-9	2016	Mechanical engineering	Republic of Bashkortostan

PROJECT DESCRIPTION

The company will produce harvesters, as well as well as spare parts. It will also offer the service of retooling older harvesters to replace traditional blades with the Schumacher blade system.

Main prospective clients: transport companies, road services, small and factory farms, municipal organizations, and construction companies.

Potential markets for the company's harvesters and spare parts: Bashkortostan, Kazakhstan, Orenburg, Chelyabinsk, Tatarstan.



PROJECT AIMS

To promote import substitution in the sphere of agricultural equipment and parts

PROJECTED OUTCOME

- Stage one: production of spare parts and assembly units for harvester KS-F-2.1
- Stage two: prototype release of KS-F-2.1 and testing; release of a full technical report on the testing process; batch release of the final model; official certification
- Stage three: development of technical report for harvester KS-F-4.0; batch release; official certification

END PRODUCTS	FINANCIAL INDICATORS	
KS-F-2.1 and KS-F-4.0 harvesters	INDICATOR	VALUE
	Total budget:	RUB 15 million
	Total investment from the project initiator:	RUB 5 million
	Financing:	RUB 10 million
	Payback period (PP):	4 years
	Net present value (NPV):	RUB 3.1 million
	Internal rate of return (IRR):	40%
	Average rate of return (ARR):	30%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	0		
Equipment	RUB 12 million	Collateral	Company's reported assets, equipment, transport
Other expenses	RUB 3 million		

APPLICANT: Kumertau Development Agency

PROJECT PROPOSAL

PROJECT: MODERNIZATION OF DAENERGOMASH

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-023-2	2015–2018	Mechanical engineering	Khabarovsk Territory

PROJECT DESCRIPTION

The project is designed to lower production overheads and product cost, and to increase manufacturing output in order to satisfy growing demand within the relevant industries and expand the company's market share.

The company was established in 1933. Currently, it manufactures three brands of industrial equipment:

- Dalenergomash – centrifugal air blowers and gas process turbines; fans
- Amurlitmask – cast iron and steel works; wheelblast and blast cleaning equipment used for moulding, press forms, rolled metal, piping, and springs
- Komsomolsk-on-Amur Carrying and Lifting Equipment Plant – bridge and gantry cranes, including special purpose cranes



PROJECT AIMS

- To modernize the existing facilities
- To drive business development
- To promote exports and import substitution

PROJECTED OUTCOME

- Creation of a cutting-edge, export-oriented facility in the Russian Far East
- Growth of export volumes to reach 40% of the company's total sales
- Reduced environmental footprint

END PRODUCTS

- GTT-9 gas process turbine, designed as part of the mineral nitrogen fertilizer production line; can be fully integrated into an existing production line with minimal capital costs; best in its class based on technical and financial characteristics gas process turbine blades
- made using nano-coating technology that doubles performance; the blades are scheduled for mass production starting in 2017
- Avangard turbocompressors, scheduled for mass production starting in 2016

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 1,260.3 million
Total investment from the project initiator:	RUB 260.3 million
Financing:	RUB 1,000 million
Payback period (PP):	6 years
Net present value (NPV):	RUB 283.2 million
Internal rate of return (IRR):	24.9%
Average rate of return (ARR):	10.5%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 211.6 million
Equipment	RUB 1,028.7 million
Other expenses	RUB 20 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Shares in the applicant company

APPLICANT: Dalenergomash

PROJECT PROPOSAL

PROJECT: MOBILE OBSERVATION UNIT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-024-1	3 years	Instrument engineering	Samara Region

PROJECT DESCRIPTION

Development and production of a mobile observation unit.

An automated observation tower is an unmanned, remote-controlled, multirotor, payload-bearing aircraft launched from an automated carrier vehicle (off-road vehicle or motorboat). Also known as a drone, this unmanned aircraft can cover distances limited only by the fuel capacity of its carrier vehicle. The aircraft runs on a 220V charge and recharges from the carrier vehicle's 50 Hz generator using a cable.

The mobile observation unit can greatly expand the ability to survey hard-to-reach territories while also giving more reliable results. This solution provides an alternative to telescopic masts equipped with video cameras and other observation methods.



PROJECT AIMS

- To develop and introduce a new land surveying and monitoring device for use by oil and gas companies, the Ministry of Emergency Situations (EMERCOM), Russian Railways, and the Ministry of Internal Affairs of Russia
- To provide information to individuals in order to promote public safety and law and order, and to protect any given territory

PROJECTED OUTCOME

A technological solution for monitoring and protecting land and water-based territories, as well as specific locations. The unmanned aircraft can send information over any distance in real time directly to a data collection and processing centre

END PRODUCTS	FINANCIAL INDICATORS	
Robot-assisted, autonomous observation unit	INDICATOR	VALUE
	Total budget:	RUB 80 million
	Total investment from the project initiator:	RUB 10 million
	Financing:	RUB 70 million
	Payback period (PP):	1.67 years
	Net present value (NPV):	RUB 41.3 million
	Internal rate of return (IRR):	47.15%
	Average rate of return (ARR):	75%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 35 million		
Equipment	RUB 20 million	Collateral	Project assets
Other expenses	RUB 25 million		

APPLICANT: Aviatechnokon

PROJECT PROPOSAL

PROJECT: UNMANNED AIRCRAFT CENTRE

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-024-2	5 years	Instrument engineering	Samara Region

PROJECT DESCRIPTION

The project involves the creation of an industrial facility for designing and producing the following types of drones with a wide range of potential uses:

- Hexagon multirotor tactical range system for daytime and night-time surveying with dual visible and thermal imaging
- Stratim unmanned aircraft unit for mid-range, real-time video surveying capability with visible and infrared imaging
- Patrol-R long-range unmanned aircraft unit for prolonged photo and real-time video surveying capability with visible and infrared imaging



PROJECT AIMS

To monitor objects and territories using unmanned aircraft

PROJECTED OUTCOME

- Technology to produce unmanned aircraft units
- Unmanned aircraft production facility
- Sale of unmanned aircraft to consumers for use in the oil and gas industry, agriculture, and logistics

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
<ul style="list-style-type: none"> – Hexagon multirotor tactical range system – Stratim mid-range unmanned aircraft unit – Patrol-R long-range unmanned aircraft unit 	Total budget:	RUB 800 million
	Total investment from the project initiator:	RUB 39 million
	Financing:	RUB 761 million
	Payback period (PP):	3.27 years
	Net present value (NPV):	RUB 328.9 million
	Internal rate of return (IRR):	53.7%
	Average rate of return (ARR):	43.58%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 84 million	Collateral	Project assets
Equipment	RUB 590 million		
Other expenses	RUB 126 million		

APPLICANT: Aviatechnokon

PROJECT PROPOSAL

PROJECT: MECHANICAL ENGINEERING PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-026-3	3 years	Mechanical engineering	Kurgan Region

PROJECT DESCRIPTION

Construction of a cutting-edge, multipurpose manufacturing complex that utilizes upgraded core engineering machinery capable of producing a large assortment of items in high volumes, and resistant to high and low temperatures. The setup will feature a wide range of mounted equipment to suit the client's needs. All units and assemblies are fine-tuned for the current needs of domestic production methods.

The project calls for modernization of existing plants operating in the heavy mechanical engineering industry.



PROJECT AIMS

To modernize and expand the domestic heavy mechanical engineering industry to serve the needs of the Ministry of Defence, the Ministry of Emergency Situations (EMERCOM), and the oil and gas extraction industry

PROJECTED OUTCOME

A mechanical engineering company producing versatile engineering units and installations that utilize a wide range of moveable equipment for specific operations involved in preventing and combating the effects of military action and emergency situations, fighting forest fires, and exploring Russia's northern territories and the Arctic

END PRODUCTS		FINANCIAL INDICATORS	
Wheeled truck with a wide range of mounted equipment	INDICATOR	VALUE	
	Total budget:	RUB 5,200 million	
	Total investment from the project initiator:	0	
	Financing:	RUB 5,200 million	
	Payback period (PP):	5 years	
	Net present value (NPV):	RUB 432.5 million	
	Internal rate of return (IRR):	25%	
	Average rate of return (ARR):	38%	
COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 981 million		
Equipment	RUB 4,009 million	Collateral	Project assets
Other expenses	RUB 210 million		

APPLICANT: Element Consult

PROJECT PROPOSAL

PROJECT: COMPUTER WITH BUILT-IN VIRUS PROTECTION

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-036-1	2020	Information technology	Moscow

PROJECT DESCRIPTION

Trusted Cloud Computers (TCC) is an innovative company that produces unique, secure PCs, designed for integration with cloud servers and other centralized platforms.

Secure access relies on 'new Harvard' computer architecture developed by the company.

This new architecture boasts dynamic variability,

which keeps it secure and effective without impeding the use of adapted standard operating systems and the full range of related software.



PROJECT AIMS

To occupy 8% of the Russian specialized PC market by 2020

PROJECTED OUTCOME

- Sales forecast: 100,000 units
- A growing network of regional dealers
- A line of products equipped with eMCC-type memory; transition to 8-core processors; transition - to Sailfish OS; link-up with the Parallels cloud interface

END PRODUCTS

- Secure PCs

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 419 million
Total investment from the project initiator:	RUB 180 million
Financing:	RUB 239 million
Payback period (PP):	2.5 years
Net present value (NPV):	RUB 2,451 million
Internal rate of return (IRR):	41.8%
Average rate of return (ARR):	33.6%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 27.1 million
Equipment	RUB 391.9 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets, intellectual property

APPLICANT: Trusted Cloud Computers (TCC)

PROJECT PROPOSAL

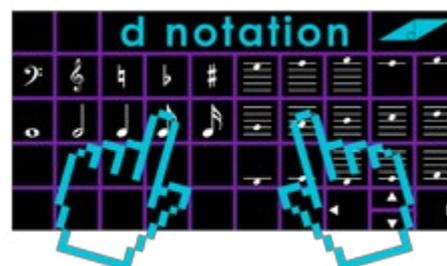
PROJECT: COMPUTER KEYBOARD FOR SHEET MUSIC

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-050	3 years	Instrument engineering	St. Petersburg

PROJECT DESCRIPTION

The project outlines the design and marketing of a computer keyboard for sheet music, allowing users to type musical notes and symbols. Using keys designed specifically for sheet music is easier, more convenient, and faster than writing it by hand and all existing sheet music software.

With the sheet music keyboard, users can type musical compositions of any difficulty level without requiring any additional special skills. This is the only existing digital sheet music input tool equivalent to a linguistic tool like QWERTY in terms of its convenience and intuitiveness.



PROJECT AIMS

- To create an advanced digital sheet music input tool
- To ensure that this tool becomes the accepted industry standard

PROJECTED OUTCOME

- Majority of Russian target market reached within three years
- Introduction of sheet music keyboards into the Russian education system
- Product release for foreign markets

END PRODUCTS

- Keyboard and special software

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 220.3 million
Total investment from the project initiator:	RUB 0.3 million
Financing:	RUB 220 million
Payback period (PP):	2.54 years
Net present value (NPV):	RUB 63.3 million
Internal rate of return (IRR):	118.34%
Average rate of return (ARR):	15.13%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	0
Equipment	RUB 6 million
Other expenses	RUB 214 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets

APPLICANT: Peter the Great St. Petersburg Polytechnic University



METALS AND METAL PRODUCTS

PROJECT PROPOSAL

PROJECT: NON-FERROUS

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-001-1	8 years	Mechanical engineering	Kurgan Region

PROJECT DESCRIPTION

The sale of an operational manufacturing complex making products from non-ferrous metals for import substitution.

The plant meets all applicable international standards, and is ISO 9001 certified. Its products carry the Russian GOST certification of state standards.

The company's partners include two of the world's largest hardware retail chains, Leroy-Merlin and Castorama; Gard Trading (Apecs), the largest hardware seller in the CIS; and Russia's largest door manufacturers, Torex and Buldoors.



PROJECT AIMS

- To expand the industry's supply market by way of import substitution, occupying 20% of the hardware, fencing, and barrier market
- To expand product lines, with a long-term plan to produce car parts and defence industry equipment in addition to door fittings

PROJECTED OUTCOME

Sale of the manufacturing complex.

The proposed complex is among Russia's leading manufacturers in terms of its technical capabilities in production using non-ferrous alloys. The company has the ability to quickly change its product line in order to adjust to changing market demands and client needs

END PRODUCTS

The company's full-cycle production model uses domestically sourced raw materials.

By using cutting-edge equipment, the company handles the full production cycle, from the concept stage to the retail shelves, building a wide range of mass consumer products from scratch (from a 3D model to a packaged end product):

- Hardware
- Door fittings
- Fencing and barriers
- Other decorative items

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 2,417 million
Total investment from the project initiator:	RUB 604 million
Financing:	RUB 1,813 million
Payback period (PP):	4.6 years
Net present value (NPV):	RUB 3,951 million
Internal rate of return (IRR):	76.7%
Average rate of return (ARR):	28.7%

COST STRUCTURE

ITEM	VALUE
Acquisition of the manufacturing complex	RUB 2,417 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Company assets

APPLICANT: Non-Ferrous Metal Works

PROJECT PROPOSAL

PROJECT: EPSILON 2

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-015-1	2014–2017	Metalworking	Khabarovsk Territory

PROJECT DESCRIPTION

A new mechanical metalworking facility that manufactures aluminium alloy, titanium, and steel products.

The first stage of the project is to fulfil the order placed by Sukhoi under a contract that stipulates a fixed number of standard mechanical metalworking hours.

This facility serves as the anchor resident of the Komsomolsk-on-Amur Advanced Special Socio-Economic Zone. Up to 20% of this project may be financed by the Far East Development Fund.



PROJECT AIMS

- To support the aircraft, ship, and mechanical tool construction industries by providing top-quality aluminium alloy, titanium, and steel products
- To fill the current gap in aluminium alloy, titanium, and steel mechanical metalworking capacities in order to boost Russia's aviation industry

PROJECTED OUTCOME

New production facilities

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
Mechanical metal cutting facilities that use lathes and milling equipment	Total budget:	RUB 1,150 million
Milling products: metal bodies, fittings, stringers, frame segments, flanges, spar webs, panels. Product size: from 300 mm to 14,000 mm	Total investment from the project initiator:	RUB 650 million
Lathing products: tips, bolts, plugs, sleeves, shanks, rollers, rods, pipe fittings. Product size: from 10 mm to 250 mm	Financing:	RUB 500 million
Target market: the aerospace industry, precision instrument manufacturing	Payback period (PP):	3.6 years
	Net present value (NPV):	RUB 590 million
	Internal rate of return (IRR):	35%
	Average rate of return (ARR):	26.5%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 416.9 million	Collateral	Technologies, equipment, and other tangible assets acquired as part of the project
Equipment	RUB 495 million		
Other expenses	RUB 238.1 million		

APPLICANT: Epsilon 2

PROJECT PROPOSAL

PROJECT: KHABAROVSK ADVANCED SPECIAL SOCIO-ECONOMIC ZONE STEELWORKS

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-023-4	2014–2018	Metallurgy	Khabarovsk Territory

PROJECT DESCRIPTION

A new steelworks plant currently under construction in the Khabarovsk Advanced Special Socio-Economic Zone is set to produce 305,000 tonnes of steel products per year using ferrous scrap metal.

The company has a number of competitive advantages, including its own source of raw material producing 350,000 tonnes of scrap metal per year, proximity and transport links to the shipping ports, a rapidly growing sales market, fast order fulfilments, unique technological solutions designed to reduce production costs by 15% compared to competitors, a special tax environment, and favourable customs regulations available to residents of the Khabarovsk Advanced Special Socio-Economic Zone.

The project initiator has already obtained all the required permits and is ready to begin construction. All design and planning documentation has been completed and approved by the State Expert Review Board (Glavgosexpertiza). A construction permit has been obtained, conditions have been agreed on for connecting the plant to utilities (electricity, gas, and water), the rezoning process has been completed, and a contract has been signed with an advance paid on the delivery of factory equipment.



PROJECT AIMS

To build a compact, environmentally friendly steelworks producing a range of construction-grade metal products (primarily high-performance steel)

PROJECTED OUTCOME

A new cutting-edge, profitable, financially stable metallurgy plant that is attractive to investors

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
<ul style="list-style-type: none"> – Metal products: steel bars with square cross-section for manufacturing steel armatures, wire rods, angle bars, and channels – The plant will use the most advanced steelworks technologies to significantly lower manufacturing costs and ensure a high quality end product – The plant will distribute its end product for export 	Total budget:	RUB 4,526 million
	Total investment from the project initiator:	RUB 826 million
	Financing:	RUB 3,700 million
	Payback period (PP):	6 years
	Net present value (NPV):	RUB 2,196 million
	Internal rate of return (IRR):	29.6%
	Average rate of return (ARR):	16.2%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 1,339 million	Collateral	Project assets
Equipment	RUB 2,773 million		
Other expenses	RUB 414 million		

APPLICANT: Torex

PROJECT PROPOSAL

PROJECT: METALWORK MICROFACTORY

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-023-5	2 years	Metalworking	Khabarovsk Territory

PROJECT DESCRIPTION

The project calls for the establishment of a cutting-edge, highly economical, compact microfactory designed to manufacture metal products for industrial and residential construction, as well as for other sectors of the economy.

Key advantages of the project: highly in-demand products; modern design and equipment; scalability, flexibility, and ability to fine-tune the manufacturing process; local product delivery area; excellent profitability; growing markets; low risks.



PROJECT AIMS

To manufacture metal products for strategically important economic sectors (residential and industrial construction, energy, heavy industry, aircraft construction, transport infrastructure) to meet the needs of construction companies and industrial facilities across the region

PROJECTED OUTCOME

- A cutting-edge, high-tech plant with excellent growth potential
- Rapidly expanding production volumes and product line

END PRODUCTS

- Extensive line of metalwork products with improved wear, stress, and temperature resistance, durability, and weldability characteristics, for construction companies and industrial facilities across the region

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 600 million
Total investment from the project initiator:	RUB 50 million
Financing:	RUB 550 million
Payback period (PP):	4.03 years
Net present value (NPV):	RUB 532.9 million
Internal rate of return (IRR):	44.6%
Average rate of return (ARR):	53%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 239.2 million
Equipment	RUB 324 million
Other expenses	RUB 36.8 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Factory equipment and other tangible assets acquired as part of the project

APPLICANT: TransMonolitServis



MINERAL EXTRACTION

PROJECT PROPOSAL

PROJECT: VERKHNE-KIEMBAEVSKY GRANIT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-1	4 years	Mineral extraction	Orenburg Region

PROJECT DESCRIPTION

Construction of a mining and processing plant at a granite deposit site in Orenburg Region.

As part of the project, the company will conduct a geological survey to find and analyse construction-grade rock at the Verkhne-Kiembaevsky deposit site, take steps to secure the deposits, have the site included in the national register of mineral reserves, obtain mining rights without an auction as the legal entity which discovered the deposits, and use these mining rights to build Verkhne-Kiembaevsky Granit, a mining and processing plant designed to produce top-quality construction materials.



PROJECT AIMS

Mining of natural mineral resources to produce top-quality products which enjoy steady market demand in Russia and Kazakhstan

PROJECTED OUTCOME

Construction of a full-cycle mining and processing facility consisting of three components:

- Granite quarry, with a production capacity of 1.2 million m³ of raw granite per year
- Granite processing plant, with a production capacity of 1.0 million m³ of granite per year
- Manufacturing of construction materials

END PRODUCTS	FINANCIAL INDICATORS	
<ul style="list-style-type: none"> – First cycle: crushed granite and granite slabs produced at the quarry – Second cycle: an assortment of crushed granite designed to be used in concrete structures, roads, and railway beds – Third cycle: decorative granite tiles and surfaces, and paving stones 	INDICATOR	VALUE
	Total budget:	RUB 553 million
	Total investment from the project initiator:	0
	Financing:	RUB 553 million
	Payback period (PP):	4 years
	Net present value (NPV):	RUB 390.7 million
	Internal rate of return (IRR):	34%
Average rate of return (ARR):	49.5%	

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 153 million		
Equipment	RUB 321 million	Collateral	Project assets
Other expenses	RUB 79 million		

APPLICANT: Magma

PROJECT PROPOSAL

PROJECT: YASNENSKY KAOLIN

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-2	9 years	Mineral extraction	Orenburg Region

PROJECT DESCRIPTION

Construction of a mining and enrichment plant at the china clay deposit site in Orenburg Region.

The project calls for the company to conduct a geological survey and analysis of eluvial kaolin deposits in Yasnensky District, take steps to secure the deposits, have the site included in the national register of mineral reserves, obtain mining rights without an auction as the legal entity which discovered the deposits, and use these mining rights to build a kaolin enrichment plant designed to manufacture innovative products as part of the import substitution effort.



PROJECT AIMS

Mining of natural mineral resources to produce top-quality products which enjoy steady market demand in Russia and Kazakhstan

PROJECTED OUTCOME

Construction of a full-cycle mining and enrichment facility consisting of three components:

- kaolin mine, with a production capacity of 950,000 tonnes of raw kaolin per year
- kaolin enrichment plant, with a production capacity of 650,000 tonnes of enriched kaolin per year
- factory manufacturing ceramic and clinker bricks, ceramic facade panelling, and roofing tiles

END PRODUCTS

- First cycle: raw kaolin
- Second cycle: enriched china clay of various grades
- Third cycle: ceramic and clinker bricks, ceramic facade panelling, and roofing tiles

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 811 million
Total investment from the project initiator:	0
Financing:	RUB 811 million
Payback period (PP):	9 years
Net present value (NPV):	RUB 419 million
Internal rate of return (IRR):	17%
Average rate of return (ARR):	22.6%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 287 million
Equipment	RUB 440 million
Other expenses	RUB 84 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets

APPLICANT: Magma

PROJECT PROPOSAL

PROJECT: TITANIUM MINING AND PROCESSING PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-3	4 years	Mineral extraction	Orenburg Region

PROJECT DESCRIPTION

Construction of a mining and smelting complex which uses titanium, zirconium, and quartz sourced from the Karagach alluvial deposit in Orenburg Region.

The project calls for the company to conduct a geological survey and analysis of titanium and rare earth ore concentrations in the Bukabay and Karagach deposits, take steps to secure the deposits, have the site included in the national register of mineral reserves, obtain mining rights without an auction as the legal entity which discovered the deposits, and use these mining rights to build a mining and smelting plant that will utilize the deposits.



PROJECT AIMS

To mine mineral ore and associated non-metallic rock; to produce titanium concentrate, rare earth metals, and ferrotitanium alloys; and to sell top-quality products which enjoy high demand in Russia and steady demand on global markets

PROJECTED OUTCOME

Construction of a full-cycle mining and smelting facility consisting of three components:

- ore mine, with a production capacity of 1.1 million m³ of ore-bearing sand deposits per year
- processing plant, with a production capacity of 121 tonnes of gravity concentrate per year
- ferrotitanium manufacturing plant designed to produce the FTi70C1 alloy, with a production capacity of 31 tonnes per year

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
– First cycle: quartz sand, construction sand, construction clay	Total budget:	RUB 873 million
– Second cycle: ilmenite, rutile, and zirconium concentrates and rare earth metals	Total investment from the project initiator:	0
– Third cycle: FTi70C1 ferrotitanium alloy	Financing:	RUB 873 million
	Payback period (PP):	4 years
	Net present value (NPV):	RUB 451.7 million
	Internal rate of return (IRR):	25%
	Average rate of return (ARR):	44%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 197 million		
Equipment	RUB 517 million	Collateral	Project assets
Other expenses	RUB 159 million		

APPLICANT: Magma

PROJECT PROPOSAL

PROJECT: COAL MINING AND DEEP PROCESSING

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-7	3 years	Mineral extraction	Kemerovo Region

PROJECT DESCRIPTION

A coal mining operation sourcing the Kolmogorovskoye coal deposits in the Belovsky District of Kemerovo Region.

As part of this project, the open-pit mine will be equipped with high-performance mining haulage equipment and cutting-edge cyclic and line production technologies designed for the mining industry. The company will expand into coal beneficiation and will supply beneficiated coal to industrial and individual clients.



PROJECT AIMS

To build a financially sustainable and economically viable coal mining company with a major focus on maintaining workplace safety and environmental standards

PROJECTED OUTCOME

Construction of an open-pit mine to tap into 168 million tonnes of coal deposits, with a mining capacity of 6–8 million tonnes of coal per year

END PRODUCTS	FINANCIAL INDICATORS	
Long flame coal and coal beneficiation by-products	INDICATOR	VALUE
	Total budget:	RUB 8,182 million
	Total investment from the project initiator:	0
	Financing:	RUB 8,182 million
	Payback period (PP):	5.4 years
	Net present value (NPV):	RUB 38,510 million
	Internal rate of return (IRR):	23%
	Average rate of return (ARR):	18%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 5,398 million	Collateral	Project assets
Equipment	RUB 2,784 million		

APPLICANT: Kuzbass Construction Company

PROJECT PROPOSAL

PROJECT: YAREGA MINING AND CHEMICAL PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-033	5 years	Mineral extraction	Komi Republic

PROJECT DESCRIPTION

The project calls for industrial development of the large-scale Yarega titanium deposits and construction of a titanium ore mining and smelting plant, the Yarega Mining and Chemical Plant, which is set to possess an ore mining and smelting capacity of 650,000 tonnes per year.

The company has access to industrial ore mining, oil and titanium refining, and end product manufacturing technologies. The project has already been evaluated by the relevant state bodies.



PROJECT AIMS

- To build an integrated oil and titanium mining and refining facility
- To transition the Yarega oil and titanium deposits from a commodities-based to a consumer-based market
- To shape the domestic oil and titanium refining market and to establish the company on foreign markets
- To support import substitution of a wide range of titanium and flint products

PROJECTED OUTCOME

- A cutting-edge, environmentally safe high-tech mining and chemical plant
- Refined titanium ore sold according to the highest market standards
- Use of the latest refining technologies to manufacture innovative products

END PRODUCTS

- Titanium dioxide pigment: 41,000 tonnes per year
- Non-pigmentary titanium dioxide: 700 tonnes per year
- Colloidal silicon dioxide (Aerosil): 13,000 tonnes per year
- Organic silicon dioxide: 2,000 tonnes per year
- Titanium dioxide nanoparticles: 2,000 tonnes per year
- Coagulant: 15,000 tonnes per year
- Titanium pigment in various colours: 5,000 tonnes per year
- Sodium metasilicate: 57,900 tonnes per year
- Oil produced using thermal-enhanced and regular extraction methods: 175,700 tonnes per year

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 38,227 million
Total investment from the project initiator:	RUB 8,895 million
Financing:	RUB 29,332 million
Payback period (PP):	7.7 years
Net present value (NPV):	RUB 48,308 million
Internal rate of return (IRR):	31%
Average rate of return (ARR):	34.6%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 20,588 million
Equipment	RUB 12,154 million
Other expenses	RUB 5,485 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Fixed assets constructed as part of the project (project financing)

APPLICANT: Yarega Ore



REFINED PETROLEUM PRODUCTION

PROJECT PROPOSAL

PROJECT: OIL REFINERY

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-14	12 months	Oil refining	Omsk Region

PROJECT DESCRIPTION

The project utilizes cutting-edge technologies for virtually zero-waste deep refinement of heavy crude oil. The process relies on successive heavy oil ozonation followed by low-temperature thermal decomposition of the ozonation products, the fractional distillation of the resulting hydrocarbon mixture to remove light fractions, and finally the carbonization of residue from the thermal decomposition process.

These technological processes will allow the company to produce top-quality petrol, diesel fuel, and coke components with high added value.

One important advantage of diesel fuels produced using ozonated heavy oil is their significantly lower sulphur content. The process can even be used to refine high-sulphur crude oil residue sourced in Idel-Ural, reducing its 5–6% sulphur mass to no more than 0.36%.



PROJECT AIMS

To build a deep heavy oil processing facility in Western Siberia, designed to produce high-octane petrols, top-quality motor fuels, and coke

PROJECTED OUTCOME

Construction of a deep heavy oil processing facility that manufactures high-octane petrols, top-quality motor fuels, and coke, with a target processing capacity of 80,000 tonnes of heavy oil per year

END PRODUCTS

- Petrols: 10,700 tonnes per year
- Diesel fuel: 25,400 tonnes per year
- Coke: 10,700 tonnes per year

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 592 million
Total investment from the project initiator:	RUB 60 million
Financing:	RUB 532 million
Payback period (PP):	2.8 years
Net present value (NPV):	RUB 620.12 million
Internal rate of return (IRR):	54.72%
Average rate of return (ARR):	54.08%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 77 million
Equipment	RUB 455 million
Other expenses	RUB 60 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets

APPLICANT: Kuzbass Construction Company



WOOD, PULP, AND PAPER PRODUCTION

PROJECT PROPOSAL

PROJECT: FUEL GRANULE (PELLET) MANUFACTURING PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-8	6 months	Energy	Kemerovo Region

PROJECT DESCRIPTION

Fuel pellets (granules, mini briquettes, and wood pellets) consist of raw ground wood cast under pressure into cylindrical shapes. The pellets look like cylindrical granules between 10 x 6 mm and 30 x 12 mm in diameter. They contain 0.2% sulphur and 0% carbon dioxide, and produce 14.5 MJ/kg of combustion heat. Produced under intense pressure, the pellets have a density of up to 1.25 t/m³ and 10–12% moisture content (by comparison, moisture accounts for half the weight of raw timber).

In short, fuel pellets are a concentrated energy source and an environmentally friendly fuel, with a thermal value 5–7 times higher than that of the same volume of raw timber, on par with that of coal.



PROJECT AIMS

To help meet the growing global demand for renewable, environmentally friendly thermal energy sources

PROJECTED OUTCOME

A recycling plant designed to process timber and agricultural waste, with a target production capacity of 50,000 tonnes of pellets per year

END PRODUCTS		FINANCIAL INDICATORS	
Fuel briquettes made from sawdust and sunflower seed husks: <ul style="list-style-type: none"> – Pellets – RUF briquettes: 150 mm long, 100 mm wide, 60 mm high; 8–10% moisture; 10 kg per pack of 12 briquettes packed in clear plastic – NESTRO briquettes: 100 mm long, 80 mm in diameter; 10 kg per pack of 15 briquettes; available in plastic packs of 10 and 25 kg – Piki Kay briquettes: 250 mm long, 65 mm in diameter (octahedral); weight: 890 g 		INDICATOR	VALUE
		Total budget:	RUB 403 million
		Total investment from the project initiator:	RUB 20 million
		Financing:	RUB 383 million
		Payback period (PP):	1.6 years
		Net present value (NPV):	RUB 133.2 million
		Internal rate of return (IRR):	71.5%
		Average rate of return (ARR):	73.9%
COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 108 million	Collateral	Project assets
Equipment	RUB 295 million		

APPLICANT: Kuzbass Construction Company

PROJECT PROPOSAL

PROJECT: MOULDED PULP AND PAPER PRODUCTS

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-019-1	2016–2017	Pulp and paper industry	Moscow Region

PROJECT DESCRIPTION

Solnechnogorsk Mechanical Research and Development Plant (SMRDP) manufactures environmentally friendly products and packaging using carton pulp (moulded pulp). In terms of the variety of its products and applications, the SMRDP has no competitors in Russia.

The second stage of construction for the SMRDP calls for an increase in the plant's production capacities by 150%, with a corresponding increase in the volume of environmentally friendly packaging on the Russian market.



PROJECT AIMS

- To claim the largest presence on Russia's carton pulp products market
- To expand the environmentally friendly packaging market
- To replace products and packaging made from polymers and other materials with carton pulp alternatives

PROJECTED OUTCOME

Fully operational, cutting-edge production facilities designed to manufacture products using carton pulp, with a production capacity of 5,000 tonnes per year

END PRODUCTS	FINANCIAL INDICATORS	
A wide range of environmentally friendly products and packaging made from carton pulp	INDICATOR	VALUE
	Total budget:	RUB 240 million
	Total investment from the project initiator:	RUB 40 million
	Financing:	RUB 200 million
	Payback period (PP):	4 years
	Net present value (NPV):	RUB 504 million
	Internal rate of return (IRR):	23%
	Average rate of return (ARR):	54%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 43.5 million	Collateral	Project assets
Equipment	RUB 148.5 million		
Other expenses	RUB 48 million		

APPLICANT: Solnechnogorsk Mechanical Research and Development Plant

PROJECT PROPOSAL

PROJECT: FUEL GRANULE (PELLET) MANUFACTURING

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-030	2016–2017	Energy	Vologda Region

PROJECT DESCRIPTION

As demand for biofuels on the domestic and global markets continues to expand and the cost of foreign currency continues to grow, increasing Russia's export potential, the Northern Wood Industry Company intends to fulfil its existing export obligations by building a new wood pellet manufacturing plant.

The plant will be based at the company's fully operational logging and timber processing complex. About a dozen major timber processing facilities and over 30 sawmills are located within a 30 km radius of the factory, and will be supplying raw materials for the company's pellet production. The end product will be exported via St. Petersburg's sea ports.



PROJECT AIMS

The main goal of the investment project is to build a competitive alternative fuel company that handles the entire production cycle from logging and timber waste to environmentally friendly biofuels manufactured to fill the high Russian and European market demand

PROJECTED OUTCOME

A cutting-edge, competitive plant designed to manufacture wood pellets, with a total production capacity of 24,000 tonnes of pellets per year (8,000 tonnes of light fuel pellets and 16,000 tonnes of industrial pellets). In the future, the company plans to build an entire network of plants throughout Russia

END PRODUCTS

- Pellets (fuel granules):
- ENPlus A1-certified light fuel granules (granulating production line capacity: 1.5 tonnes per hour)
 - ENPlus A2-certified heavy fuel granules (granulating production line capacity: 2.5 tonnes per hour)

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 86 million
Total investment from the project initiator:	RUB 10 million
Financing:	RUB 76 million
Payback period (PP):	1.79 years
Net present value (NPV):	RUB 35.13 million
Internal rate of return (IRR):	35%
Average rate of return (ARR):	38%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 11.3 million
Equipment	RUB 68 million
Other expenses	RUB 6.7 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Company assets, purchased equipment, long-term contract

APPLICANT: Northern Wood Industry Company

PROJECT PROPOSAL

PROJECT: KOMMUNAR PAPER MILL

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-044-1	4 years	Pulp and paper industry	Leningrad Region

PROJECT DESCRIPTION

Kommunar Paper Mill is known in Russia and abroad as a manufacturer of packing and industrial paper and cardboard with density ranging from 25 to 150 g/m², widely used in the confectionery, healthcare, food, metalworking, printing, and other industries. Approximately 20% of the mill's products are exported. In 2013, the company earned RUB 1,532.5 million.

The mill is located in the town of Kommunar in Leningrad Region, 40 km from St. Petersburg. Land parcel size – 9 hectares, accessible by road and a railway terminus.



PROJECT AIMS

- To increase production volumes and improve product quality
- To consolidate and expand the company's market share

PROJECTED OUTCOME

- Increased sales volumes and improved profitability of the mill

END PRODUCTS	FINANCIAL INDICATORS	
<ul style="list-style-type: none"> – Cardboard products – Craft paper – Packing paper – Glassine paper – Corrugated cardboard 	INDICATOR	VALUE
	Total budget:	RUB 18,525 million
	Total investment from the project initiator:	RUB 3,712 million
	Financing:	RUB 14,813 million
	Payback period (PP):	12.7 years
	Net present value (NPV):	RUB 95.6 million
	Internal rate of return (IRR):	15%
Average rate of return (ARR):	31%	

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 7,875 million		
Equipment	RUB 10,500 million	Collateral	Project assets
Other expenses	RUB 150 million		

APPLICANT: Kommunar Paper Mill



CONSTRUCTION MATERIALS

PROJECT PROPOSAL

PROJECT: CONSTRUCTION MATERIALS

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-5	7 years	Construction materials	Orenburg Region

PROJECT DESCRIPTION

Industrial production of cutting-edge construction supplies using the Wehrhahn (Germany) and HESS AAC System (Netherlands) technologies on the premises of a plant producing autoclaved aerated concrete products.

The project's business model calls for the creation of a full-cycle manufacturing cluster focused on construction supplies and dry mix mortars produced using regionally sourced materials. The project relies on locally sourced raw materials and is designed to fill the market deficit of advanced high-quality aerated concrete products in Orenburg Region and neighbouring territories.



PROJECT AIMS

To build a manufacturing cluster focused on the deep processing of non-metallic minerals sourced in the region to produce construction supplies and dry mix mortars that meet international certification standards

PROJECTED OUTCOME

- An autoclaved aerated concrete plant, with a production capacity of 1,250 m³ of concrete per day achieved through the use of Wehrhahn technology (projected earnings: up to EUR 55 million per year)
- A lime and dry mix mortar production floor, with a production capacity of 150 tonnes per day achieved through the use of Wehrhahn technology
- Raw material, dry mix, and end product warehousing facilities

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
Autoclaved aerated concrete products designed for individual and commercial construction:	Total budget:	RUB 5,716 million
- an assortment of concrete blocks	Total investment from the project initiator:	0
- an assortment of reinforced plates	Financing:	RUB 5,716 million
- lintels	Payback period (PP):	7 years
Dry mix mortar:	Net present value (NPV):	RUB 3,865 million
- concrete block mortar	Internal rate of return (IRR):	21%
- external plaster	Average rate of return (ARR):	31.8%
- internal plaster		

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 1,902 million		
Equipment	RUB 3,410 million	Collateral	Project assets
Other expenses	RUB 404 million		

APPLICANT: Magma



LIGHT INDUSTRY PRODUCTION

PROJECT PROPOSAL

PROJECT: LEATHER FOOTWEAR FACTORY

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-031-6	up to 7 years	Transport	Altai Territory

PROJECT DESCRIPTION

Construction of a leather footwear factory as part of the leather tanning cluster located in Zarinsk, Altai Territory.

The location of the leather tanning cluster, which will be home to the footwear factory, was chosen for the ready availability of raw materials in the area. The Russian Leather Altai plant, owned by Russian Leather and scheduled to enter into operation as part of the cluster in 2017, will source all its materials (cattle, hog, and sheep hides) from Altai's agricultural industry.

The tannery will supply the factory with a full range of leather designed for footwear production (wet-blue, regular leather, and trimmings).



PROJECT AIMS

- To supply Russia's domestic markets with unbranded, mid-market footwear for mass consumption as part of the import substitution effort

PROJECTED OUTCOME

- 500,000 pairs of leather footwear per year, with the option of expanding production to one million pairs
- Creation of 220 new jobs

END PRODUCTS	FINANCIAL INDICATORS	
Women's, men's, children's, and specialized leather upper footwear	INDICATOR	VALUE
	Total budget:	RUB 624 million
	Total investment from the project initiator:	RUB 156 million
	Financing:	RUB 468 million
	Payback period (PP):	5.6 years
	Net present value (NPV):	RUB 70.6 million
	Internal rate of return (IRR):	13.5%
	Average rate of return (ARR):	20.2%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 295.5 million		
Equipment	RUB 250 million	Collateral	Project assets
Other expenses	RUB 78.5 million		

APPLICANT: Central Administrative Board of Economy and Investment of Altai Territory

PROJECT PROPOSAL

PROJECT: PLASTIC TOYS AND PRODUCTS

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-036-2	2020	Light industry	Moscow

PROJECT DESCRIPTION

A line of plastic consumer products and children's toys.



PROJECT AIMS

To build Ya Sam (By Myself), the No. 1 brand of interactive children's toys designed to develop self-reliance

PROJECTED OUTCOME

- To increase production volumes of children's toys to 50 product lines
- To build a dealer network in cities with a population of over 500,000

END PRODUCTS

A line of children's toys under the AqvaNyanya and Ya Sam brands

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 150 million
Total investment from the project initiator:	RUB 50 million
Financing:	RUB 100 million
Payback period (PP):	3 years
Net present value (NPV):	RUB 600 million
Internal rate of return (IRR):	60%
Average rate of return (ARR):	70%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 15 million
Equipment	RUB 70 million
Other expenses	RUB 15 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Equipment

APPLICANT: SK Plastica



SERVICES INDUSTRY

PROJECT PROPOSAL

PROJECT: REFINED OIL FREIGHT SERVICES

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-001-2	up to 7 years	Transport	Tomsk Region

PROJECT DESCRIPTION

Railroad freight tanker services for the oil refining industry.

Investors are invited to acquire shares in the project with the option of buying out at any stage during the project.

The project's business model involves a transition from basic freight services to comprehensive integrated freight solutions, with future plans to augment the company's 2PL services with 3PL and 4PL options.



PROJECT AIMS

To build an optimal freight network for transporting refined oil and by-products by rail

PROJECTED OUTCOME

A more effective logistics solution linking producers and consumers

END PRODUCTS	FINANCIAL INDICATORS	
A wide range of tankers and well wagons customized for the transportation of oil	INDICATOR	VALUE
	Total budget:	RUB 1,220 million
	Total investment from the project initiator:	RUB 20 million
	Financing:	RUB 1,200 million
	Payback period (PP):	5 years
	Net present value (NPV):	RUB 144.4 million
	Internal rate of return (IRR):	17%
	Average rate of return (ARR):	29%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Equipment	RUB 1,220 million	Collateral	Vehicles and equipment

APPLICANT: Region-Trans

PROJECT PROPOSAL

PROJECT: TOMSK REGION PUBLIC TRANSIT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-001-3	2016–2022	Transport	Tomsk Region

PROJECT DESCRIPTION

A comprehensive solution for regional transit shortages, namely:

- a framework for regional transport and tariff policies, including implementation strategies and plans for the adoption of municipal and regional transit models
- buses, communication equipment, and accessories supplied by leading Russian manufacturers
- transition from petrol- to natural gas-powered vehicles, along with the construction of a network of petrol stations supplying natural gas, maintenance infrastructure, and personnel training
- introduction of a cashless public transit payment system, including installation of automated pay stations



PROJECT AIMS

- To increase municipal public transit profits
- To make the municipal transit system more efficient and increase the population's mobility
- To improve the regulatory and legal environment on the municipal public transit market
- To streamline the management and supervision of public transit systems by creating a unified dispatch network and by equipping vehicles with GLONASS GPS systems, security cameras, and alarm buttons
- To improve the quality of public transit and expand accessibility for all social groups
- To update transport fleets with the latest models that meet current safety, comfort, and environmental standards

PROJECTED OUTCOME

The project will ensure the proper quality of urban and suburban public transport services, in line with the swift expansion of Tomsk Region's transport infrastructure using the example of Tomskavtotrans

END PRODUCTS	FINANCIAL INDICATORS	
Public services (passenger transport)	INDICATOR	VALUE
	Total budget:	RUB 364 million
	Total investment from the project initiator:	RUB 54.6 million
	Financing:	RUB 309.4 million
	Payback period (PP):	3.7 years
	Net present value (NPV):	RUB 86.8 million
	Internal rate of return (IRR):	23.2%
	Average rate of return (ARR):	36.3%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Equipment	RUB 309.4 million	Collateral	Equipment acquired through a leasing agreement as part of project implementation
Other expenses	RUB 54.6 million		

APPLICANT: **Region-Trans**

PROJECT PROPOSAL

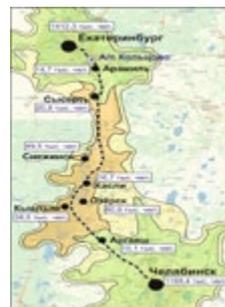
PROJECT: HIGH-SPEED RAILWAY LINE

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-009-1	2017–2023	Transport	Chelyabinsk Region

PROJECT DESCRIPTION

Construction of a high-speed railway line between Yekaterinburg and Chelyabinsk as part of a high-speed Moscow–Beijing transport corridor scheduled to be built under Russia’s rapid and high-speed railway transport programme.

The line is expected to link the following five stations: Yekaterinburg, Koltsovo Airport, Kasli, Chelyabinsk, and Chelyabinsk International Airport, with a brand new multimodal transfer station located in Kasli. Travel time between Yekaterinburg and Chelyabinsk will be one hour.



PROJECT AIMS

To establish a project headquarters involving the private partner and Chelyabinsk and Sverdlovsk regional governments. This will subsequently be reorganized as a joint stock company on a concession basis

PROJECTED OUTCOME

A high-speed railway link between Chelyabinsk and Sverdlovsk regions

END PRODUCTS

Railway transport services

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 165,000 million
Total investment from the project initiator:	RUB 33 million
Financing:	RUB 132 million
Payback period (PP):	9 years
Net present value (NPV):	RUB 5,039 million
Internal rate of return (IRR):	18.8%
Average rate of return (ARR):	11%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 165,000 million
Equipment	0
Other expenses	0

TYPE OF PROJECT FINANCING

The type and amount of financing will be determined as part of drawing up the project implementation agreement

APPLICANT: Ural High-Speed Transport Partnership

PROJECT PROPOSAL

PROJECT: INFINITY SHOW

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-026-5	2016–2017	Tourism	Moscow

PROJECT DESCRIPTION

Infinity is a unique synthesis of ballet and circus that uses cutting-edge, twenty-first century stage equipment. Another unique feature of the project is that it uses a modular, mobile travelling format, presenting an artistic vision that far outstrips the quality of a traditional circus big top, yet remains easy to assemble and perfect for touring. Exclusive technological solutions used in the project include a suspension system designed to give the audience a sense of levitation (soaring under the big top). But the central feature of the project is its artistic capital: a troupe of Russian performers, including internationally renowned stars and promising young talents. In effect, the Infinity project embodies the global leadership of Russian circus and ballet.



PROJECT AIMS

The project seeks to revive the highly successful tradition of international State Circus tours, which declined in the 1990s as a result of the mass exodus of leading Russian performers to foreign troupes

PROJECTED OUTCOME

Launch of an international tour by a highly mobile and extremely profitable show with a long life cycle (over 10 years) supported by periodic programme rotation and constant technological modernization

END PRODUCTS

Infinity's modular performance space is designed to contain adjustable audience stands with capacities from 1,500 to 3,000 seats, allowing the show to tailor the performance space to cities with varying potential audience sizes. The stage area, meanwhile, retains its maximal dimensions regardless of adjustments to audience seating, allowing the show to present the same top-quality entertainment to audiences of all sizes.

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 700 million
Total investment from the project initiator:	RUB 150 million
Financing:	RUB 550 million
Payback period (PP):	3.5 years
Net present value (NPV):	RUB 1,700 million
Internal rate of return (IRR):	35%
Average rate of return (ARR):	45%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 40 million
Equipment	RUB 360 million
Other expenses	RUB 300 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Controlling shares in the project backed by venture capital

APPLICANT: ECOPROMPROEKT

PROJECT PROPOSAL

PROJECT: CAR SHARING

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-028-4	September 2018	Transport	Moscow

PROJECT DESCRIPTION

An environmentally friendly car share service using electric and natural gas-powered vehicles, which lets the client pick up and drop off the car at any given location.

The service is a step towards solving transport and environmental problems in Moscow and other metropolitan areas. Geared towards daily trips by city residents, employees, and visitors, the service is halfway between a taxi and a public transit system. A smartphone app allows clients to find and book a car 24/7.



PROJECT AIMS

To provide an alternative to family cars and public transit, offering individual city travel at rates comparable to those of public transit

PROJECTED OUTCOME

Immediate development strategy: to offer a fleet of 5,000–15,000 electric cars in Moscow

Long-term: 30% of the services market, with a franchise option for expanding into other metropolitan centres

END PRODUCTS	FINANCIAL INDICATORS	
A comfortable, reasonably priced, fast, and environmentally friendly city transport option	INDICATOR	VALUE
	Total budget:	RUB 500 million
	Total investment from the project initiator:	RUB 15 million
	Financing:	RUB 485 million
	Payback period (PP):	3.5 years
	Net present value (NPV):	RUB 115 million
	Internal rate of return (IRR):	23%
	Average rate of return (ARR):	20%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Equipment	RUB 425 million	Collateral	Equipment
Other expenses	RUB 75 million		

APPLICANT: CarsharingRu



INFRASTRUCTURAL PROJECTS

PROJECT PROPOSAL

PROJECT: MUNICIPAL SOLID WASTE DEEP TREATMENT PLANT

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-10	8–10 years	Infrastructure	Nizhny Novgorod Region

PROJECT DESCRIPTION

The project calls for the creation of infrastructure for municipal solid waste treatment and construction of a plant designed to manufacture consumer products from recycled materials, including paving stones, construction and finishing materials, environmentally friendly insulation materials, and packing crates.

The plant will use waste treatment technologies to put valuable recycled materials (paper, ferrous and nonferrous metals, cardboard, plastics, and glass) back into circulation, reducing waste that ends up in landfills and scrapyards, thereby tackling the problem of waste disposal.



PROJECT AIMS

- To extract usable materials from municipal solid waste
- To manufacture products from recycled materials
- To reduce the number of scrapyards housing everyday items
- To improve the environment and hygiene of municipal areas

PROJECTED OUTCOME

Construction of a solid waste treatment plant, with a processing capacity of up to 2,500,000 m³ per year

END PRODUCTS		FINANCIAL INDICATORS	
<ul style="list-style-type: none"> – Usable materials extracted from solid waste – Construction materials – Rubber paving stones – Cardboard – Glass 	INDICATOR		VALUE
	Total budget:		RUB 2,031 million
	Total investment from the project initiator:		0
	Financing:		RUB 2,031 million
	Payback period (PP):		1.4 years
	Net present value (NPV):		RUB 1,129 million
	Internal rate of return (IRR):		36.34%
Average rate of return (ARR):		43.59%	
COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 23 million	Collateral	Company assets
Equipment	RUB 216 million		
Other expenses	RUB 1,792 million		

APPLICANT: Kuzbass Construction Company

PROJECT PROPOSAL

PROJECT: MANHATTAN PARK NEIGHBOURHOOD CONSTRUCTION

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-014-15	8–10 years	Infrastructure	Nizhny Novgorod Region

PROJECT DESCRIPTION

This investment and development project outlines the comprehensive development of a 27.27-hectare area of Nizhny Novgorod, bordered by Kolomenskaya, Leskova, and Yanki Kupaly streets and Yuzhnoye Shosse. The project will involve the construction of 27 residential buildings totalling over 260,000 m², along with two shopping centres, infrastructure facilities, and utilities.



PROJECT AIMS

To earn revenue on the sale of residential and commercial real estate

PROJECTED OUTCOME

A modern residential neighbourhood

END PRODUCTS	FINANCIAL INDICATORS	
Housing and commercial facilities	INDICATOR	VALUE
	Total budget:	RUB 13,073 million
	Total investment from the project initiator:	RUB 15 million
	Financing:	RUB 13,058 million
	Payback period (PP):	3 years
	Net present value (NPV):	RUB 3,713 million
	Internal rate of return (IRR):	58%
	Average rate of return (ARR):	108%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 12,419 million	Collateral	A share in the ownership of the legal entity, mortgage
Equipment	0		
Other expenses	RUB 654 million		

APPLICANT: RAO Invest

PROJECT PROPOSAL

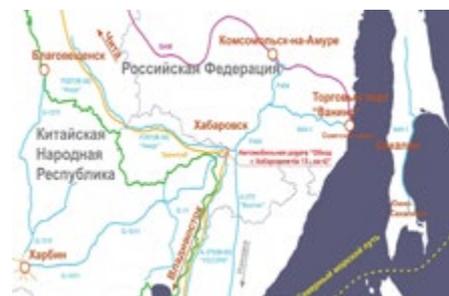
PROJECT: KHABAROVSK BYPASS

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-023-11	2017–2032	Infrastructure	Khabarovsk Territory

PROJECT DESCRIPTION

The project involves the construction, financing, and operation of a major infrastructure facility, the Khabarovsk Bypass Road, from kilometre 13 to kilometre 42. The new highway will be a public-private partnership financed through federal and regional budgets, plus private investment.

The project is designed to improve Khabarovsk's transport accessibility and the technical state of its transport infrastructure by moving through traffic outside the city limits. It will serve as a link between federal highways and will attract private investment to help expand municipal and regional transport infrastructure.



PROJECT AIMS

- To implement new technologies
- To drive business development
- To promote development in Khabarovsk and Khabarovsk Territory

PROJECTED OUTCOME

- Traffic capacity of the region's meridional highways will increase by 4,000 vehicles per hour
- The link between the Russia–China customs and border crossing on Bolshoy Ussuriysky Island and the federal highway network will lead to a significant increase in the region's export of transport services
- Safety of through traffic will improve by 250%
- Dramatically improved transport accessibility of investment projects located in Khabarovsk Territory will ensure their success

END PRODUCTS

The project includes services to operate part of the highway as a toll road

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 37,963 million
Total investment from the project initiator:	RUB 25,270 million
Financing:	RUB 12,693 million
Payback period (PP):	9 years
Net present value (NPV):	RUB 1,670 million
Internal rate of return (IRR):	10.7%
Average rate of return (ARR):	1.6%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 37,963 million

TYPE OF PROJECT FINANCING

The project will be financed based on a concession agreement (which outlines the rights and responsibilities of the signatories) and conditions defined in the lenders' direct agreement

APPLICANT: Government of Khabarovsk Territory

PROJECT PROPOSAL

PROJECT: MODULAR WASTE TREATMENT COMPLEX

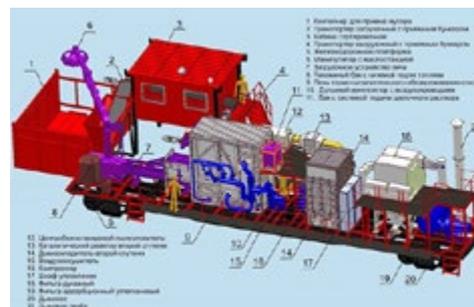
PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-026-1	9 months	Housing and utilities	Moscow Region

PROJECT DESCRIPTION

A modular waste treatment complex (MWTC-20), equipped with sorting lines, with a processing capacity of 20 tonnes per hour (for a total of 168,000 tonnes per year) and designed to fully repurpose solid waste to create environmentally safe products based on current tariff rates (without special grants, subsidies, or preferential rates).

The complex will remove the need to store waste in landfills. It will recycle ferrous and non-ferrous scrap metal to produce inert-waste roadbed materials, manufacturing water, and several types of alternative fuels. It will also produce thermal energy in excess of that used in the manufacturing process.

The facility is self-contained and requires no capital construction, no additional structures, and no access to external utilities. It is equipped with closed-circuit treatment units. Each industrial unit is constructed to fit inside a standard cargo shipping container.



PROJECT AIMS

- To help establish a new sector of the national economy focused on fully repurposing solid waste to create environmentally safe and profitable products
- To consolidate intellectual assets with a focus on finding the most effective solutions in the sector

PROJECTED OUTCOME

- A modular waste treatment complex (MWT-20) located in the Domodedovo industrial park
- Utilization of solid waste normally transported to landfills (at rates acceptable to waste transport companies)
- Extraction of by-products from solid waste

END PRODUCTS

- Utilization of solid waste
- Extraction of by-products:
 - roadbed materials
 - manufacturing water
 - ferrous and non-ferrous scrap metal
 - environmentally safe fuel pellets (granules), emulsified fuel with environmental characteristics on a par with M100 fuel oil
 - low-potential heat

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 282.4 million
Total investment from the project initiator:	0
Financing:	RUB 282.4 million
Payback period (PP):	3.5 years
Net present value (NPV):	RUB 292 million
Internal rate of return (IRR):	44.6%
Average rate of return (ARR):	43.9%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 126.1 million
Equipment	RUB 134.9 million
Other expenses	RUB 21.4 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets

APPLICANT: Element Consult

PROJECT PROPOSAL

PROJECT: WASTE TREATMENT COMPLEX

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-026-2	18 months	Housing and utilities	Moscow Region

PROJECT DESCRIPTION

A landfill-replacing waste treatment complex (LWTC-60) equipped with sorting lines, with a processing capacity of 60 tonnes per hour (for a total of 500,000 tonnes per year) and designed to fully repurpose solid waste to create environmentally safe products based on current tariff rates (without special grants, subsidies, or preferential rates).

The complex will remove the need to store waste in landfills. It will recycle ferrous and non-ferrous scrap metal to produce inert-waste roadbed materials, manufacturing water, and several types of alternative fuels. It will also produce thermal energy in excess of that used in the manufacturing process.

The facility requires capital construction and additional structures. It will be built inside Mosenergo Thermal Power Plant No. 17 and equipped with closed-circuit treatment modules. The processing lines are located in the industrial buildings, spanning five hectares.



PROJECT AIMS

- To help establish a new sector of the national economy focused on fully repurposing solid waste to create environmentally safe and profitable products
- To consolidate intellectual assets with a focus on the most effective solutions in the sector

PROJECTED OUTCOME

- A landfill-replacing waste treatment complex (LWTC-60) located inside Mosenergo Thermal Power Plant No. 17
- Utilization of solid waste normally transported to landfills (at rates acceptable to waste transport companies)
- Extraction of by-products from solid waste

END PRODUCTS

- Utilization of solid waste
- Extraction of by-products:
 - roadbed materials
 - manufacturing water
 - ferrous and non-ferrous scrap metal
 - environmentally safe fuel pellets (granules), emulsified fuel with environmental characteristics on a par with M100 fuel oil
 - low-potential heat

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 1,218.1 million
Total investment from the project initiator:	0
Financing:	RUB 1,218.1 million
Payback period (PP):	5.25 years
Net present value (NPV):	RUB 634.8 million
Internal rate of return (IRR):	29.9%
Average rate of return (ARR):	32.3 %

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 685.1 million
Equipment	RUB 467.5 million
Other expenses	RUB 65.5 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets

APPLICANT: Element Consult

PROJECT PROPOSAL

PROJECT: MIXED USE HIGH-RISE BUILDING

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-029	2016–2018	Infrastructure	Khabarovsk Territory

PROJECT DESCRIPTION

This top-priority investment project in Khabarovsk Territory involves the construction of a 202-metre mixed use high-rise building (consisting of 52 floors and five underground levels):

- underground levels: parking, shopping centre, supermarket, and personal and public transport access zone
- entrances, lifts, cafés, and shops (floors 1–3); food court (floors 4–6); Class A office space (floors 8–26); apartments (floors 28–33); a five-star hotel (floors 34–46); premium class office space (floors 48–49); sky bar with observation platforms and banquet halls (floors 50–52). Floors 7, 27, and 47 are reserved for maintenance

Auxiliary industrial infrastructure designed to service the investment project will be created. This includes a state-of-the-art concrete plant, a specialized formwork facility, an assembly floor for complex armatures, a ship unloading yard, and a cutting-edge glass facade production facility.



PROJECT AIMS

- To promote the image of Khabarovsk as the regional centre for investment opportunities
- To improve the city's transport infrastructure

PROJECTED OUTCOME

- The first mixed use skyscraper in Siberia and the Far East
- Auxiliary industrial infrastructure
- Improved hotel and business services in the region to meet international standards

END PRODUCTS

A mixed use high-rise building equipped with a tunnel, underground crossings, and a parking area at the intersection of Lenina Ulitsa and Kalinina Ulitsa in the city centre of Khabarovsk. The building is known as the Flawless Diamond.

FINANCIAL INDICATORS

INDICATOR	VALUE
Total budget:	RUB 8,700 million
Total investment from the project initiator:	RUB 1,305 million
Financing:	RUB 7,395 million
Payback period (PP):	9 years
Net present value (NPV):	RUB 1,025 million
Internal rate of return (IRR):	13.8%
Average rate of return (ARR):	9.33%

COST STRUCTURE

ITEM	VALUE
Surveying and construction	RUB 7,743 million
Equipment	RUB 522 million
Other expenses	RUB 435 million

TYPE OF PROJECT FINANCING

FINANCING TYPE	DESCRIPTION
Collateral	Project assets

APPLICANT: Ofis Tsentr

PROJECT PROPOSAL

PROJECT: BELOKURIKHA-2 SUBCLUSTER

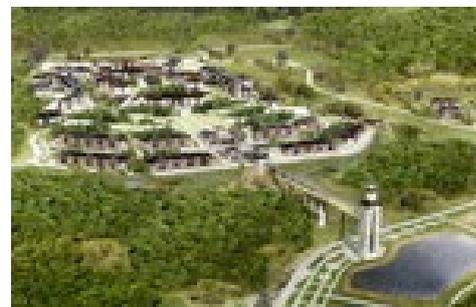
PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-031-1	2011–2018	Tourism	Altai Territory

PROJECT DESCRIPTION

Construction of tourist infrastructure: hotels, resorts, mini-hotels, restaurants, health and fitness facilities, recreation and commercial areas, and service points.

The Belokurikha-2 project is unique in Russia: for the first time in the last 25 years, the country will see the construction of a new health resort from scratch. This offers a great opportunity to invest in a brand new resort.

The project will follow the public–private partnership model. The federal budget will contribute RUB 1,812.3 million; combined contributions from Altai Territory will total RUB 391.1 million; and other financing sources will provide RUB 7,796.6 million.



PROJECT AIMS

To expand Russia's health resort potential and offer a new generation of health, fitness, tourism, and recreation services

PROJECTED OUTCOME

- Over 3,000 modern tourist lodging spaces and more than 1,400 additional jobs
- Expansion of the tourism industry by 120,000 visitors per year

END PRODUCTS	FINANCIAL INDICATORS	
Health, fitness, tourism, and recreation services	INDICATOR	VALUE
	Total budget:	RUB 10,000 million
	Total investment from the project initiator:	RUB 391.1 million
	Financing:	RUB 7,796.6 million
	Payback period (PP):	10 years
	Net present value (NPV):	RUB 4,372 million
	Internal rate of return (IRR):	16.1%
	Average rate of return (ARR):	18.7%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 10,000 million	Collateral	Project assets

APPLICANT: Altai Territorial Tourism, Resort, National, and International Relations Administration

PROJECT PROPOSAL

PROJECT: TURQUOISE KATUN SPECIAL ECONOMIC ZONE

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-031-2	2008–2055	Tourism	Altai Territory

PROJECT DESCRIPTION

The project seeks to expand the only existing tourist zone of its type in Russia, open all year.

Resident companies at the Turquoise Katun Special Economic Zone will receive the following benefits:

- 10-year exemption from property taxes
- 15.5% corporation tax
- land leasing rates capped at 2% of the property price listed in the cadastre registry for the given year
- the possibility of purchasing land parcels

The project will follow the public–private partnership model. The federal budget will contribute RUB 9,529 million, combined contributions from Altai Territory will total RUB 1,725 million, and other financing sources will provide RUB 18,746 million.



PROJECT AIMS

To create one of the largest recreation centres in Russia that meets global standards and is aimed at visitors with an interest in environmentally friendly, active, and extreme tourism

PROJECTED OUTCOME

- Expansion of tourist flows to 1.1 million visitors per year
- Accommodation for at least 3,500 people and at least 7,000 jobs (including in associated sectors)
- At least RUB 7.5 billion in private tourism investments into Altai Territory

END PRODUCTS	FINANCIAL INDICATORS	
Services	INDICATOR	VALUE
Major forms of tourism offered in the Special Economic Zone, including:	Total budget:	RUB 30,000 million
– extreme	Total investment from the project initiator:	RUB 1,725 million
– health and wellness	Financing:	RUB 18,746 million
– cave exploration	Payback period (PP):	16 years
– day trips	Net present value (NPV):	RUB 5,597 million
– ecotourism	Internal rate of return (IRR):	12%
	Average rate of return (ARR):	13.5%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 30,000 million	Collateral	Project assets

APPLICANT: Altai Territorial Tourism, Resort, National, and International Relations Administration

PROJECT PROPOSAL

PROJECT: SIBERIAN COIN GAMBLING ZONE

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-031-3	2008–2028	Tourism	Altai Territory

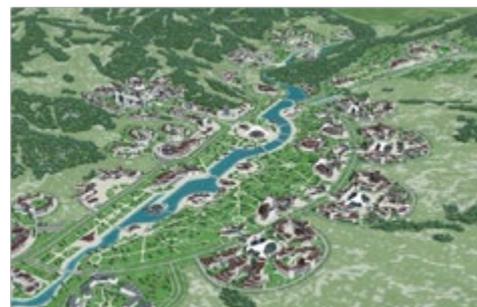
PROJECT DESCRIPTION

The gambling zone is located in the Altaysky District of Altai Territory, 288 km from Barnaul.

It covers 2,304.2 ha, divided into land parcels ranging from 2.3 to 8.5 ha, ready to be leased to investors and used for construction. Investors have the option of buying the land parcel once the real estate object is fully operational.

The three easternmost parcels of the gambling zone border an active Special Economic Zone focused on tourism and recreation, the Turquoise Katun.

The project will follow the public–private partnership model.



PROJECT AIMS

To build the only recreation complex in Siberia that offers legal gambling and includes exclusive casinos, hotels and villas constructed as an organic part of the mountainous terrain, amusement parks, cultural and entertainment venues, and fitness centres

PROJECTED OUTCOME

Construction of 45 licensed casinos, 57 hotel complexes of various types, ski slopes, film and live music sites, cultural centres, entertainment venues, shops and fitness centres

END PRODUCTS	FINANCIAL INDICATORS	
Gaming, tourism, and recreation services	INDICATOR	VALUE
	Total budget:	RUB 28,900 million
	Total investment from the project initiator:	RUB 5,000 million
	Financing:	RUB 23,900 million
	Payback period (PP):	4.5 years
	Net present value (NPV):	RUB 4,950 million
	Internal rate of return (IRR):	34.2%
	Average rate of return (ARR):	15%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 23,900 million	Collateral	Project assets
Equipment	0		
Other expenses	RUB 5,000 million		

APPLICANT: Altai Territorial Tourism, Resort, National, and International Relations Administration

PROJECT PROPOSAL

PROJECT: HOTEL COMPLEX CONSTRUCTION

PROJECT ID	ESTIMATED COMPLETION TIME	PROJECT SECTOR	FEDERAL SUBJECT
P-035-1	2016–2018	Infrastructure	Pskov Region

PROJECT DESCRIPTION

The project calls for the construction of a 114-suite hotel inside the Mikhailovskoye Pushkin State Museum, which combines literary history with a nature reserve.



PROJECT AIMS

To construct a facility providing comfortable lodgings and catering for tourists visiting the historical sites of Pushkinogorsky District

PROJECTED OUTCOME

Projected annual revenue: RUB 65.3 million

END PRODUCTS	FINANCIAL INDICATORS	
	INDICATOR	VALUE
– 114-suite hotel	Total budget:	RUB 263.6 million
– 100-seat restaurant	Total investment from the project initiator:	RUB 70 million
	Financing:	RUB 193.6 million
	Payback period (PP):	4.5 years
	Net present value (NPV):	RUB 134.3 million
	Internal rate of return (IRR):	46.5%
	Average rate of return (ARR):	91%

COST STRUCTURE		TYPE OF PROJECT FINANCING	
ITEM	VALUE	FINANCING TYPE	DESCRIPTION
Surveying and construction	RUB 205.4 million		
Equipment	RUB 4.9 million	Collateral	Land, project assets
Other expenses	RUB 53.3 million		

APPLICANT: Nordtorgerud

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