

GOVERNMENT OF
THE SVERDLOVSK
REGION



MINISTRY
INVESTMENT AND
DEVELOPMENT



АГЕНТСТВО
ПО ПРИВЛЕЧЕНИЮ
ИНВЕСТИЦИЙ
Свердловской области

INVESTMENT
PROMOTION
AGENCY
of the Sverdlovsk region

INDUSTRY DIGITALIZATION POTENTIAL IN THE SVERDLOVSK REGION



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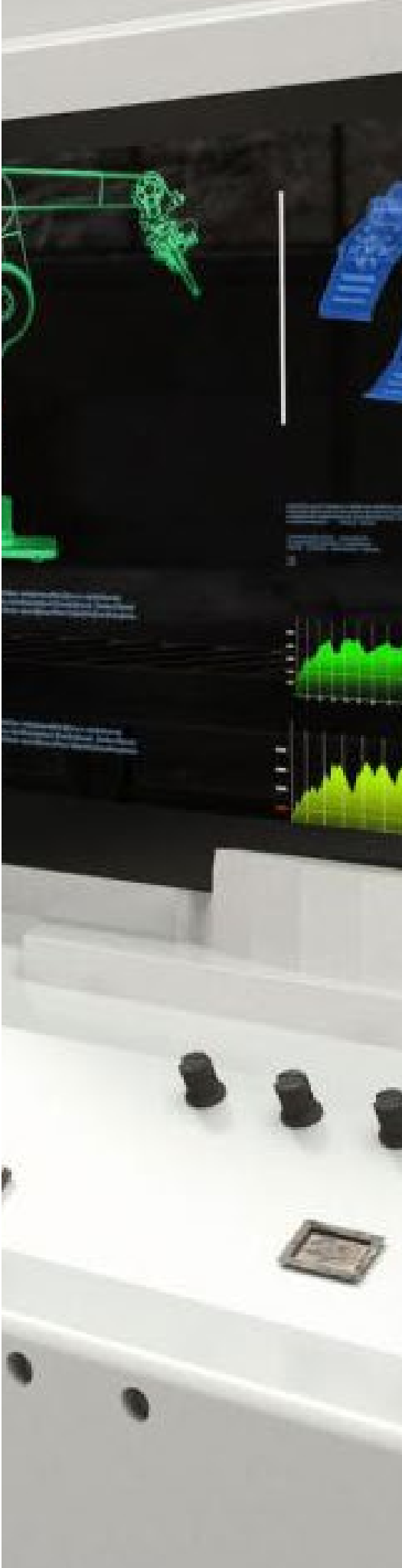
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GENERAL ENTERPRISES' INDICATORS OF THE SVERDLOVSK REGION

around 11 000 industrial enterprises

are allocated in the Sverdlovsk region

According to the data of the Ministry of Industry, Science and Technology of the Sverdlovsk region:

- 1** By digitalization level, the Sverdlovsk region is only inferior to Moscow, Saint-Petersburg, Moscow and Leningrad regions and can be compared with such regions as the Novosibirsk region and Tatarstan
- 2** Consumers of the Sverdlovsk region (both in corporate and mass sectors) are ready for digital solutions' implementation

in 2019:

over 2 trillion rubles

in shipped products

over 334 billion rubles

obtained revenue

450,4 billion rubles

investments



02 LEVEL OF DIGITALIZATION AND COMPUTERIZATION OF ENTERPRISES IN THE SVERDLOVSK REGION

Use of information and communication technologies by the enterprises of the Sverdlovsk region
(according to Rosstat excluding small business enterprises)

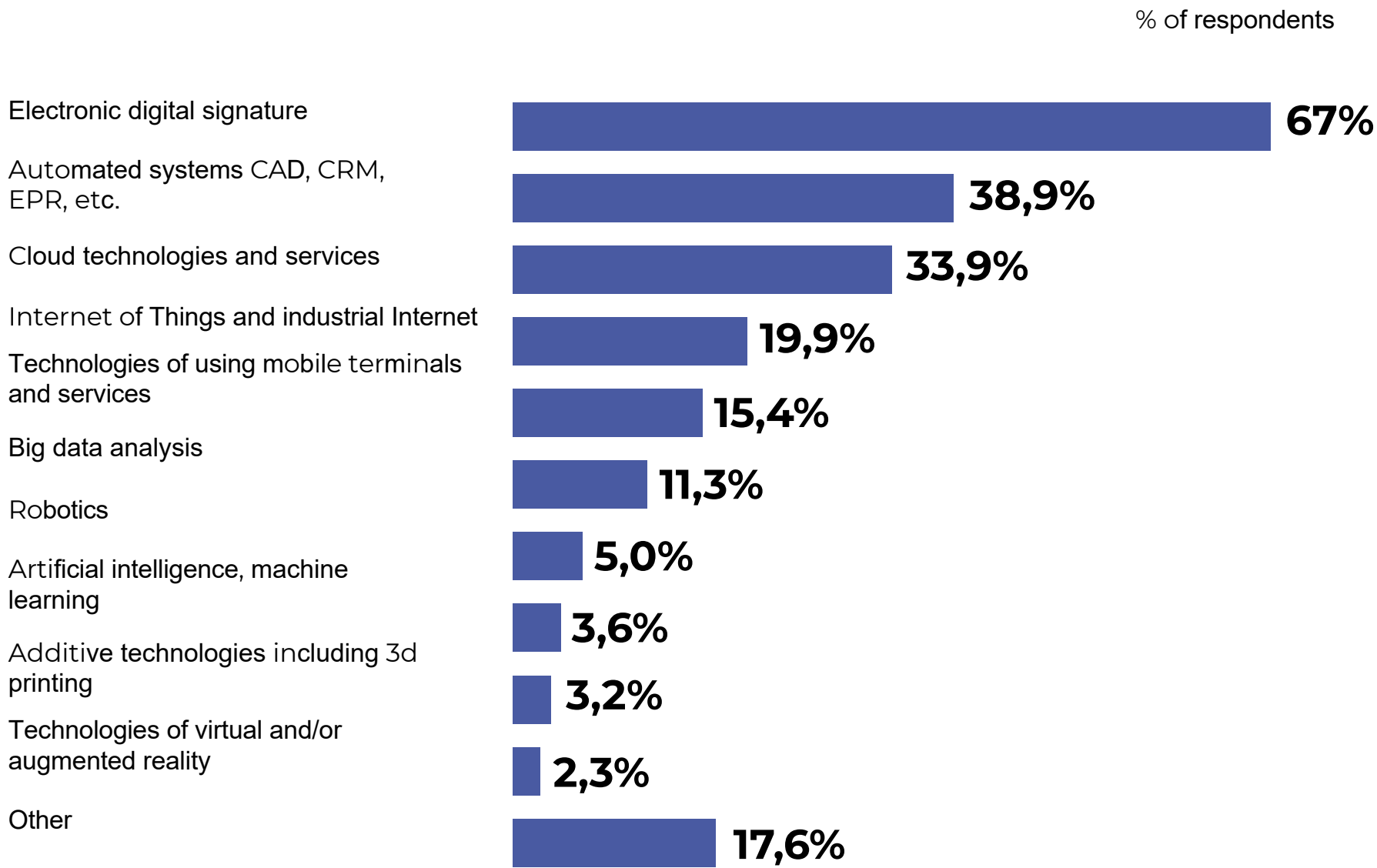
	2015	2016	2017	2018	2019
Number of surveyed enterprises	5606	6590	6873	7675	6961
Including enterprises which used information and communication technologies (ICT)	5445	6354	6587	7397	6753
Specific weight of enterprises which used ICT in the total number of surveyed enterprises, %	97,1	96,4	95,8	96,4	97,0
Enterprises' expenses on information and communication technologies, million rubles	31902,5	23152,3	29051,6	30711,3	33326,7
Shipped own-produced products (services) connected with information and communication technologies, million rubles	69034,9	65104,9	60777,6	66085,3	77134,0
Number of enterprises owning an Internet website	2647	3313	3547	4069	3796
Percentage out of the total number of surveyed enterprises	47,2	50,3	51,6	53,0	54,5

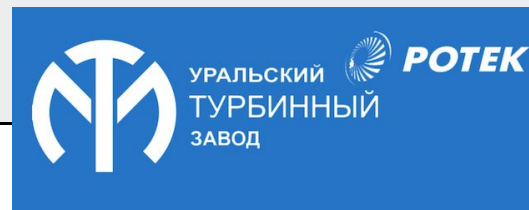
ACCORDING TO “BUSINESS-
BAROMETER – 2019” SURVEY
RESULTS

Specific weight of companies investing in
automation of business processes and use
of digital technologies



DIGITAL TECHNOLOGIES THAT
RECEIVED INVESTMENT ON
AUTOMATION AND
DIGITALIZATION OF BUSINESS
PROCESSES





"Rotek" (Ural turbine plant)

implementation of product's DMU, 3D modeling,
automatic control system of equipment stocks



"Sartorial manufactory SHISHKIN"

introduction of digital enclosure ecosystem of
enterprise management at all design and
production stages



"ТЕКHPROM" group of companies

introduction of enterprise's single information space with a
uniform base, including information complex of lifecycle
management



"Ural locomotives"

digitalization of the enterprise and its products
including electric trains' lifecycle management



"VMP" NPKh

document workflow automation and
digitalization of all stages of
production life-cycle

From the Strategy of industrial and innovative development of the Sverdlovsk region until 2035:

Section 3. Chapter 16. Aim of the Strategy:
... priority should be given to those directions that will allow to obtain scientific and scientific&technical results and create technologies, which are the basis for innovative development of internal market of products and services, sustainable position of the Sverdlovsk region on the external market and will provide STI development: switch to cutting-edge digital, intellectual production technologies, robotized systems, new materials and design methods, creating systems for Big Data processing, machine learning, artificial intelligence (NeuroNet)

Line number	Indicator number	Indicator	Measurement units	2016	2017 (actual)	Planned indicator's value by the Strategy's implementation years													
						2018 (actual)	2019		2020		2021		2024		2030		goal 2035		
								min. value	target value	min. value	target value	min. value	target value	min. value	target value	min. value	target value	min. value	target value
42.	13	Level of innovative activity of processing industry enterprises	%	12,7	13 <*>	15	16	18	18	22	20	27	29	40	30	41	35	42	
70.	27	Number of industrial complex organizations realizing projects aimed at implementation of best available technologies into industrial production	units	5	15	25	25	30	27	35	30	40	45	55	75	85	100	110	

НИЦ «НИР БСМ»
УрО РАН

ERC "RaR LSM"
Ural Branch of the
Russian Academy of
Sciences



FSBSI Engineering Research Centre "Reliability and resource of large systems and machines" of the Ural Branch of the Russian Academy of Sciences

- Evaluation, monitoring, and management of the survivability and safety of inter-dependent critical infrastructures systems
- Stochastic methods for monitoring, diagnostics, and probability assessment of failure, residual resource and the risk of operating potentially hazardous facilities
- Computer modeling of scenarios for the development of industrial and man-made accidents and disasters
- Non-linear mechanics and and statistical fracture (disaster) dynamics

Institute of Mechanical Engineering of the Ural branch of the Russian AS

- Mechanics of deformable bodies, promising materials and technologies, structures and buildings
- Basics creation of algorithmic, programming, hardware support of complex objects' automatic control systems
- Automated systems of measurement, nondestructive materials testing and machine lifetime diagnostics
- Mechanics and control processes of transport and traction machines

EDUCATIONAL AND SCIENTIFIC INSTITUTIONS OF THE SVERDLOVSK REGION DEVELOPING TECHNOLOGIES IN THE FIELD OF AUTOMATION AND DIGITALIZATION



Institute of Mathematics and Mechanics named after N.N. Krasovskiy



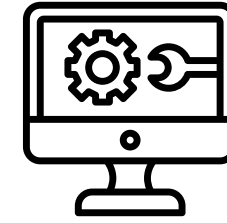
Ural Federal University
named after the first
President of Russia
B.N. Yeltsin

Institute of Mathematics and Mechanics named after N.N. Krasovskiy

- Development of management processes' mathematical theory
- Development of high-performance computing base
- Development of task solution methods on a computer including economic, technical, mathematical physics tasks
- Development of non-linear mechanics methods with application to the tasks of variations and control stability
- Development of continuum mechanics' mathematical methods

Ural Federal University named after the first President of Russia B.N. Yeltsin

- Institute of Radioelectronics and Information Technologies RtF:
 - machine learning
 - AR/ VR, MR
 - robotics
 - electronics/Arduino basics
- Innovation Implementation Center "Engineering center of machine-building digital technologies"
- Ural Inter-regional international-level Scientific and Educational Center "Cutting-edge manufacturing technologies and materials"



KONTUR-PARK IN SHIROKAYA RECHKA

THE AREA OF **16,8 HA** WILL
ALLOCATE OFFICES FOR IT-
COMPANIES, AN EDUCATIONAL
CENTER, AN OPEN PARK AND AN
INTERNATIONAL-LEVEL ROCK
CLIMBING WALL IN THE SOUTHWEST
OF YEKATERINBURG

KONTUR-PARK
in Shirokaya Rechka

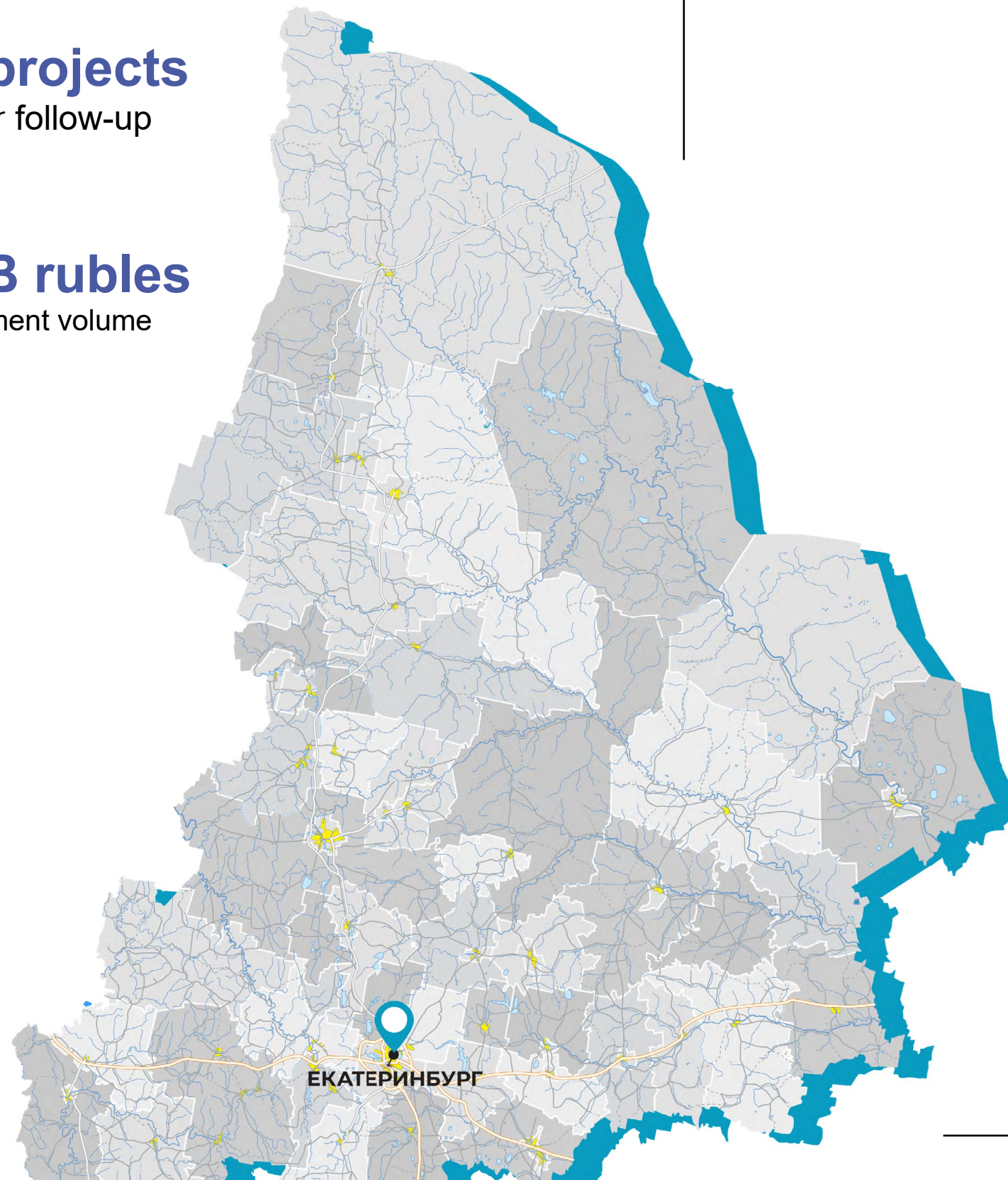
YEKATERINBURG



INVESTMENT ATTRACTION AGENCY OF THE SVERDLOVSK REGION

43 projects
under follow-up

over
37 B rubles
investment volume



UNIFORM WINDOW FOR INVESTORS ON QUESTIONS REGARDING PROJECT REALIZATION

- 1** We will select optimal means of support for your project
- 2** We will provide full descriptive, analytical information on the market and business-niches of interest
- 3** We will give detailed explanation on how to go through the formal procedures
- 4** We will provide complex follow-up for your project
- 5** We will establish required contacts with the representatives of the local business community





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