MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATIONS

AGENCY FOR INNOVATIVE DEVELOPMENT

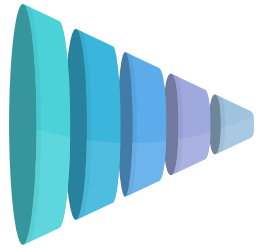
THE WORLD BANK GROUP
IBRD | IDA

MUNIS WORLD BANK PROJECT

MUNIS
Project Catalog

Research Commercialization Program (RCP)
Business Investments in R&D (BIRD)

Projects funnel



(million USD)

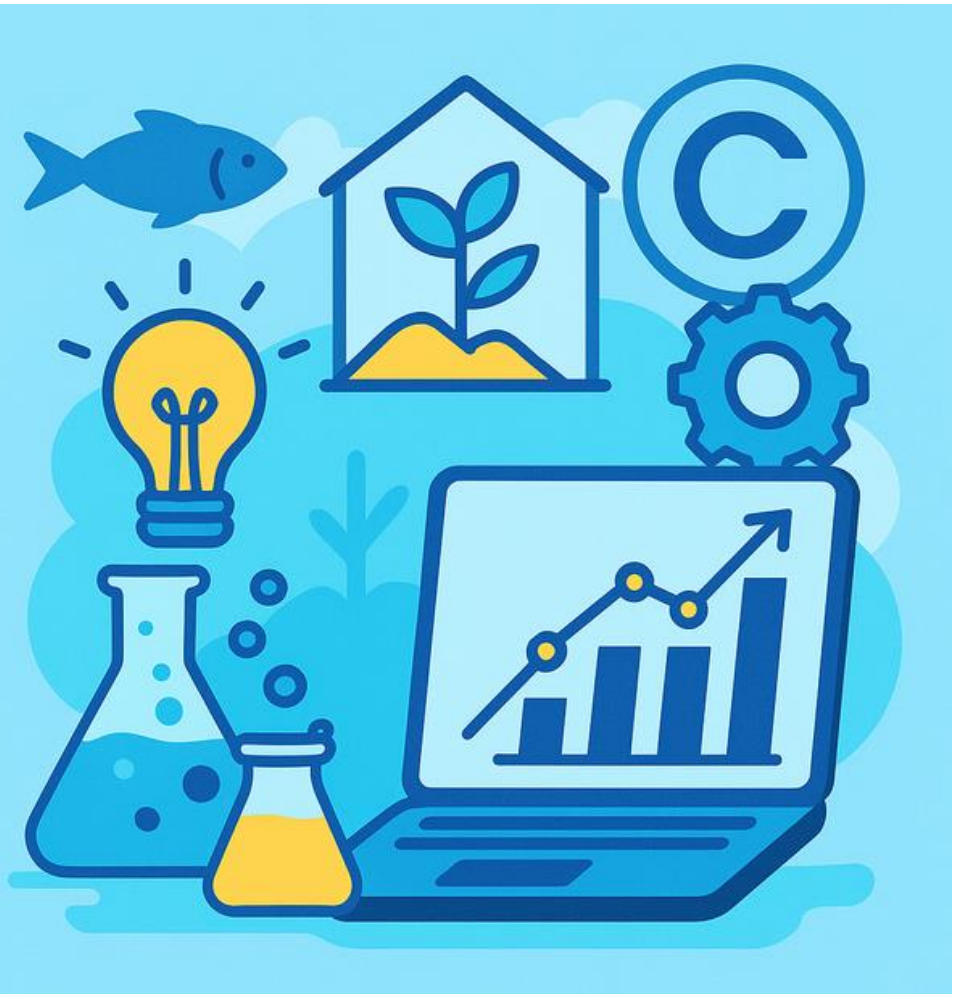
PROGRAM	FUNDS ALLOCATED	SUBMITTED APPLICATIONS			FUNDED SUB-PROJECTS		
		Quantity	Requested grant amount	Amount of co-financing	Quantity	Grant amount	Co-financing amount
REP	10	199	78,10	N/A	25	9,90	N/A
RCP	4	55	6,4	1,1	9	1,2	0,2
BIRD	10	156	69,7	28,9	18	9,4	2,7
PRIM	6	86	16,59	N/A	24	4,8	N/A
ICP	10	714	37,80	41,10	211	10,0	14,1
TOTAL	**40**	**1 210**	**209,2**	**71,1**	**287**	**35,3**	**17,0**

Research Commercialization Program

9 projects

Grant amount: 1,2 mln USD

Co-financing amount: 0,2 mln USD



Objective	Supporting the transformation of scientific developments into products
Recipients	Scientists, research institutes, universities
Grant amount	up to $150.000
Co-financing	≥ 15% of the grant amount
Focus	Proof-of-concept, licensing
Innovation stage	Middle stages: concept, prototype, IP

Digital twin based education platform for STEM

1. Basic information

Grant recipient organization

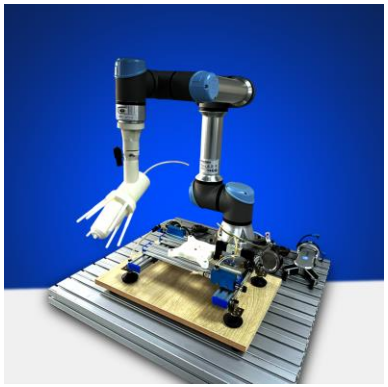
"Raqamli Innovatsion Sanoat Texnologiyalari" LLC

Project name

Digital twin based education platform for STEM

Project Manager

Kholkhujaev Jasurkhuja



Contacts:

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2. Project budget

Total project budget

$148.329

Grant amount

$122.990

Co-financing amount

$25.339 20,6% of the grant amount

Investors/partners

Turin Polytechnic University in Tashkent

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation of an educational platform using digital twins for distance learning in STEM disciplines and control of physical robotic systems.

Technological solution

Affordable training in industrial processes for secondary vocational, professional, and higher education institutions through cloud technologies.

Current status

- A prototype digital twin with remote control capabilities for real equipment has been created.
- A training course and 3D models of laboratory installations have been developed.
- Platform testing has been conducted with 13 companies to analyze market requirements.

4. Development plans

Research/Improvements

Expanding the platform's functionality by improving the digital twin and integrating new industrial scenarios

Commercialization

Sale of educational services, platform licensing. Focus on industrial enterprises to increase the scale of the project.

Expected result

Target market coverage at 5% or $2 million.

JobBro - Client acquisition platform for outsourcing agencies and freelancers using AI

1. Basic information

Grant recipient organization

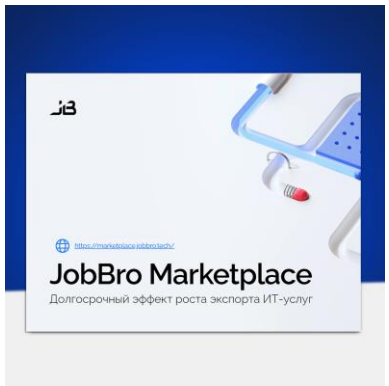
"B2B SaaS Solutions" LLC

Project name

JobBro - Client acquisition platform for outsourcing agencies and freelancers using AI

Project Manager

Kim Igor



Contacts:

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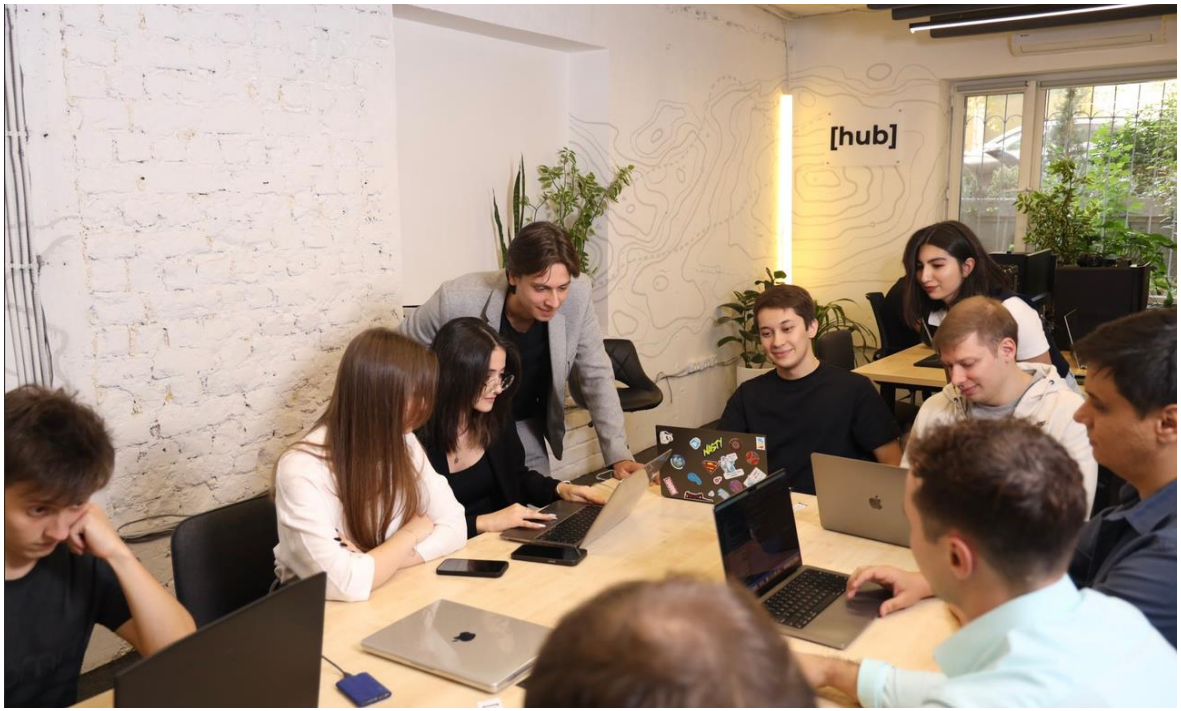

2. Project budget

Total project budget

$100.000

Grant amount

$80.000

Co-financing amount

$20.000 25% of the grant amount

Investors/partners

"FASTAGO" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation of an online platform for analyzing vacancies on UpWork and optimizing project selection for outsourcing agencies and freelancers using artificial intelligence technologies.

Technological solution

AI platform for ranking projects based on their relevance to an agency or freelancer's profile. Automatic generation of AI content for cover letters. Analysis of market trends for strategic adaptation of proposals.

Current status

- Developed an MVP platform with project search and response generation functionality.
- Conducted CustDev interviews with CherryPick, Synergy Labs, and other companies.
- Integrated an AI algorithm for relevant project selection based on user profiles.

4. Development plans

Research/Improvements

Integration of new data sources.
Development of our own lead marketplace for outsourcing agencies.

Commercialization

Scaling the platform by attracting freelancers and agencies on a large scale and developing our own lead base (an alternative strategy to integration with the UpWork API).

Expected result

Increase transaction conversion by 30–32% through new opportunities.

1. Basic information

Grant recipient organization

"X-Ray AI Expert" LLC

Project name

The use of artificial intelligence in screening radiological studies

Project Manager

Khamraev Atajan

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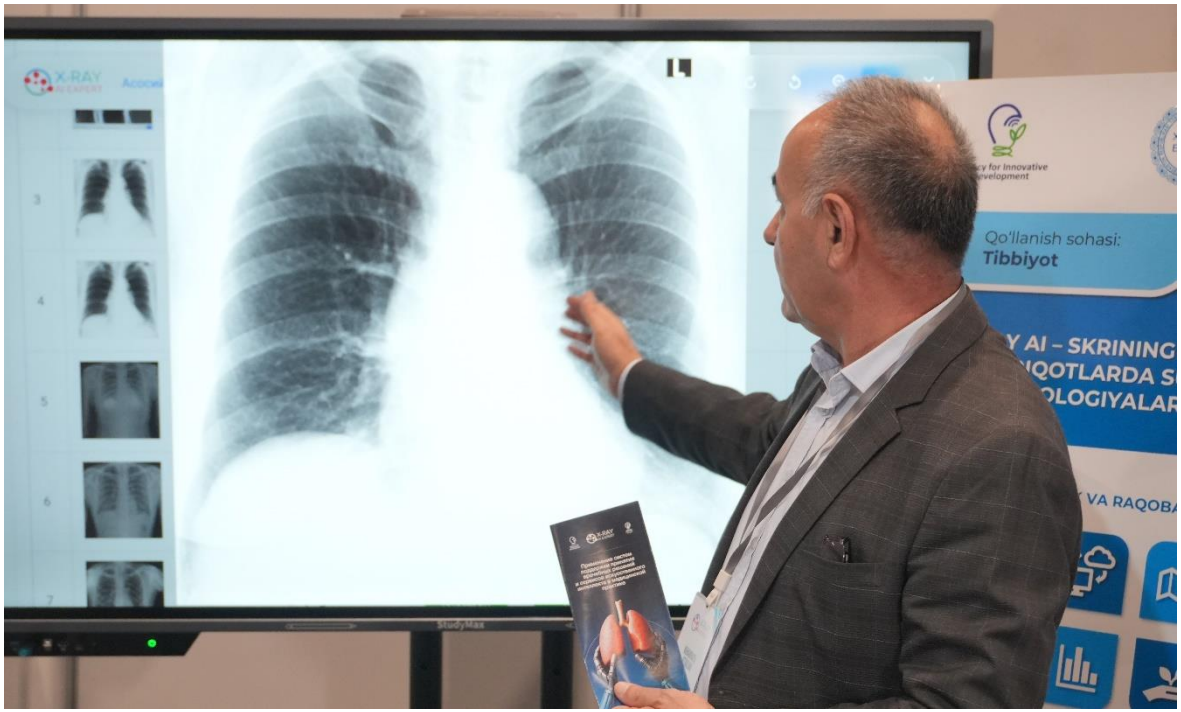

2. Project budget

Total project budget

$173.000

Grant amount

$150.000

Co-financing amount

$23.000 15% of the grant amount

Investors/partners

"INTERVENTION TEAM" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development of a web application based on artificial intelligence for preliminary analysis of chest X-ray images, especially for detecting tuberculosis and other respiratory diseases

Technological solution

An AI model for initial image analysis, providing doctors with a "second opinion." A web platform and mobile apps for accessing AI analysis. Integration with medical institutions for mass use.

Current status

- Four AI models with an accuracy of over 90% ROC AUC have been developed and tested.
- The X-RayAI.uz web portal has been created and the development of mobile applications for users has begun.
- Memoranda have been signed with medical associations to implement the platform in practice.

4. Development plans

Research/Improvements

Optimization of AI models for other types of medical images.

Commercialization

Selling X-ray analysis services to medical institutions ($10 per 100 images) or through a subscription model. Integration into government programs through a public-private partnership mechanism.

Expected result

Revenue of $100,000 in the first year of commercialization. Scaling up to 1 million analyzed images per year.

Industrial production and commercialization of the probiotic INNOPROVET in the field of veterinary

1. Basic information

Grant recipient organization

"COMPANY VETBIOVITO" LLC

Project name

Industrial production and commercialization of the probiotic INNOPROVET in the field of veterinary

Project Manager

Nasimov Shukhrat

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2. Project budget

Total project budget

$161.000

Grant amount

$140.000

Co-financing amount

$21.000 15% of the grant amount

Investors/partners

"BARKI MONTAJ-NALADKA" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation and organization of production of the biological product INNOPROVET using local probiotic bacterial strains for disease prevention and improvement of the quality of animal products (poultry, fish, cattle, small ruminants, bees, etc.).

Technological solution

Production of effective probiotics in the form of suspensions and powders. The products are intended for the prevention of fish diseases and improvement of feed conversion. Use of local strains adapted to the conditions of aquaculture in Uzbekistan.

Current status

- Laboratory tests have been conducted and trial batches of probiotics for aquaculture have been produced.
- Production equipment has been purchased and production facilities have been prepared for manufacturing.
- Contacts have been established with fish farms for testing and implementation of the product.

4. Development plans

Research/Improvements

Further optimization of probiotic formulas for different water conditions.

Commercialization

Production of probiotics for the local aquaculture market. Development of a product line for other types of aquatic animals.

Expected result

Achieving regular probiotic deliveries and profitability within two years after the launch of full production.

1. Basic information

Grant recipient organization

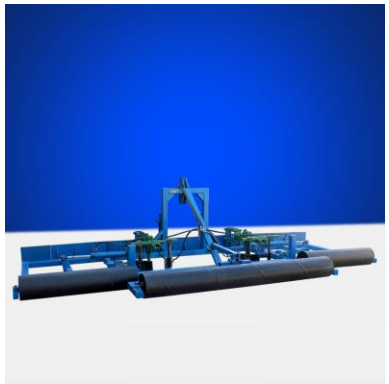
"INNOVATSION ILMIY GURUH" LLC

Project name

Preparation for commercialization of a wide-cut mounted small leveler with a roller

Project Manager

Khushvaktov Botir



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2. Project budget

Total project budget

$172.500

Grant amount

$150.000

Co-financing amount

$22.500 15% of the grant amount

Investors/partners

"CHIRCHIQSELMASH" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development and commercialization of an innovative wide-coverage mounted mini-leveler with a roller to improve the efficiency of soil preparation before sowing.

Technological solution

The machine provides simultaneous leveling and compaction of the soil in a single pass. Increased productivity, reduced fuel consumption by 20–30%. Reduced operating costs in agriculture.

Current status

- Design documentation has been developed and demonstration samples of the small leveler have been manufactured.
- Basic tests of the prototype have been conducted and presentation materials have been prepared.
- Negotiations are underway with ChirchiqSelmash LLC regarding the launch of serial production.

4. Development plans

Research/Improvements

Modification of the design for different soil types and farming conditions.

Commercialization

Establishing serial production of small levellers with rollers through manufacturing companies (e.g., ChirchiqSelmash LLC). Launching the product on the agricultural machinery market in Uzbekistan and Central Asia.

Expected result

Increase production to 100–150 units per year within 3 years. Achieve project profitability by the third year of serial production.

1. Basic information

Grant recipient organization

"CARBON NRG" LLC

Project name

High-quality waterproofing and anti-corrosion bitumen mastic

Project Manager

Shukurullaev Botir

Contacts:

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2. Project budget

Total project budget

$170.000

Grant amount

$150.000

Co-financing amount

$20.000 13% of the grant amount

Investors/partners

Self-financing and additional financing through production contracts

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development and production of high-quality bitumen mastic for waterproofing and corrosion protection of pipelines, buildings, and industrial structures based on refinery waste.

Technological solution

New bitumen mastic based on recycled petroleum products. Improved characteristics compared to traditional mastics (liquid consistency, no need to dissolve before use, higher resistance to weather conditions).

Current status

- A new bitumen mastic has been developed and tested in accordance with GOST 30693-2000.
- Technological equipment has been purchased and production facilities have been prepared for launch.
- Preliminary supply agreements have been concluded with more than 20 companies in the industry.

4. Development plans

Research/Improvements

Further optimization of the mastic composition for various climatic conditions.

Commercialization

Entry into the construction materials market in Uzbekistan and Central Asia. Sale of technology and serial production of mastic through a network of partners.

Expected result

Production output of more than 500 tons per year. Achievement of profitability within 2 years.

RCP-01/39 Development of technology for compacting cotton in the hopper of a cotton harvester and its pneumatic transportation to the hopper

1. Basic information

Grant recipient organization

"TECH INNO WAY" LLC

Project name

Development of technology for compacting cotton in the hopper of a cotton harvester and its pneumatic transportation to the hopper

Project Manager

Khamidov Rustam

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2. Project budget

Total project budget

$153.000

Grant amount

$133.000

Co-financing amount

$20.000 15% of the grant amount

Investors/partners

"TOSHKENT TRAKTOR ZAVODI" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation of a system for automatic cotton compaction in the hopper of a cotton harvester and efficient pneumatic transportation of cotton with a reduction in manual labor

Technological solution

Development of a new mechanical cotton compactor with a blade mechanism inside the hopper. Development of a new pneumatic transport system for feeding cotton from the harvesting machine to the hopper. Ensuring uniform compaction without stopping the machine and without compromising cotton quality.

Current status

- Preliminary designs for a cotton compactor and pneumatic transport system for the hopper have been developed.
- Patent research has been conducted and technical requirements for testing have been agreed upon.
- An agreement on industrial testing has been concluded with a manufacturer of cotton harvesting machines.

4. Development plans

Research/Improvements

Field testing of the modified machine in the fall of 2025. Refinement of cotton compaction processes.

Commercialization

Introduction of new technologies in the production of cotton harvesting machines by TTZ LLC. Possibility of licensing solutions to other manufacturers of agricultural machinery.

Expected result

Obtaining contracts for the supply and modernization of up to 100 units of equipment within 5 years.

HOMILA AI - the use of artificial intelligence methodologies to predict and reduce the likelihood of complications during pregnancy

1. Basic information

Grant recipient organization

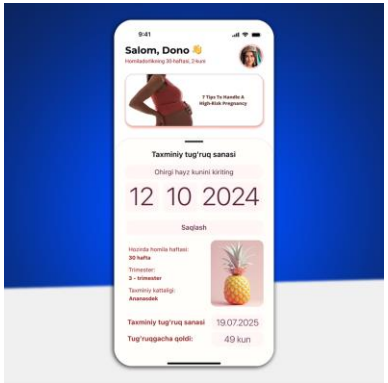
"HEAL" LLC

Project name

HOMILA AI - the use of AI methodologies to predict and reduce the likelihood of complications during pregnancy

Project Manager

Vikhrov Igor



Contacts:

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2. Project budget

Total project budget

$175.000

Grant amount

$150.000

Co-financing amount

$25.000 15% of the grant amount

Investors/partners

Self-financing and additional financing through production contracts

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development of the HOMILA AI mobile application for predicting and preventing complications during pregnancy using artificial intelligence technologies

Technological solution

A mobile app for pregnant women that provides:

- Personalized risk assessment.
- Monitoring of key health indicators (blood pressure, temperature, blood sugar, heart rate).
- Reminders and recommendations for medical visits.
- AI algorithms for risk level classification: low, medium, high.

Current status

- AI models have been developed to predict pregnancy risks with an accuracy of over 93%.
- Mobile applications and a web platform have been created to monitor the health of pregnant women.
- Partnerships have been established with the Ministry of Health and medical institutions in Uzbekistan.

4. Development plans

Research/Improvements

Expanding analysis capabilities to other aspects of women's health. Integrating telemedicine into the application.

Commercialization

Distribution of subscriptions to the HOMILA AI app through public and private medical institutions. Sale of B2B and B2G services (support for maternal health systems at the national level).

Expected result

Subscription distribution to 100,000+ users within the first 3 years.

1. Basic information

Grant recipient organization

"PURE CROP" LLC

Project name

Production of humic superphosphate based on brown coal and rock phosphate

Project Manager

Abdullaev Anvarjon

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Namangan Region, Chust District, Mustaqillik Street, 18
Tel.: +998 97 701 22 01
E-mail: ifodauzbek@gmail.com

2. Project budget

Total project budget

$172.200

Grant amount

$150.000

Co-financing amount

$22.500 15% of the grant amount

Investors/partners

"IFODA AGRO KIMYO HIMOYA" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development of technology for producing environmentally friendly fertilizer—humic superphosphate—from brown coal and phosphate ores.

Technological solution

Use of innovative technology to activate phosphate raw materials with sulfuric acid and enrich them with humic substances from oxidized brown coal. Improved phosphorus uptake by plants, restoration of soil structure, increased crop yields.

Current status

- Laboratory and pilot testing of the technology has been completed.
- Equipment has been purchased (ZHENGZHOU SHUNXIN ENGINEERING EQUIPMENT CO., LTD).
- Preparation of the production building and customs clearance of the equipment is underway.

4. Development plans

Research/Improvements

Modernization of equipment and expansion of product range

Commercialization

Production output of 13,500 tons in 2025 (50% capacity utilization) and 36,000 tons in 2026 (100% capacity utilization). Expansion of contracts for the supply of humic superphosphate.

Expected result

Local market — $181/ton, export — $220/ton, sales plan — up to 36,000 tons/year starting in 2026.

Business Investments in Research & Development

18 projects

Grant amount: 9,4 mln USD
Co-financing amount: 2,7 mln USD

Objective	Creating new market products and services based on R&D
Recipients	Private companies, startups, consortia with research institutes
Grant amount	up to $600.000
Co-financing	≥ 25% of the grant amount
Focus	Commercialization, production, prototypes
Innovation stage	Late stages: market-ready, scaling

1. Basic information

Grant recipient organization

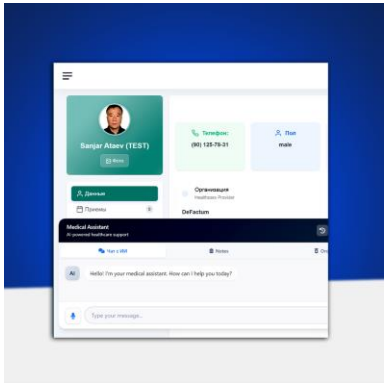
"SALOMATIC" LLC

Project name

AI-native Clinical Information System for better patient and doctor outcomes

Project Manager

Kim Anton



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2. Project budget

Total project budget

$750.000

Grant amount

$600.000

Co-financing amount

$150.000 25% of the grant amount

Investors/partners

Microsoft ($150K in tech credits), ADB ($150K grant, $2M plan)

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development and implementation of an AI-oriented clinical information system (CIS) that improves patient treatment outcomes and reduces the burden on doctors by automating document flow and preventive medicine recommendations.

Technological solution

New generation CIS with generative AI (evidence-based). Automatic filling of clinical documentation. Generation of personalized reports for patients. Web application compatible with tablets and smartphones. SaaS model with pricing tiers: Basic (low cost), Premium 1 ($50/doctor), Premium 2 ($100/doctor)

Current status

- MVP completed
- Pilot integration at De Factum clinic
- Patent No. DGU 32923 obtained
- Second patent application filed
- Negotiations underway with three new clinics

4. Development plans

Research/Improvements

Large-scale clinical study in collaboration with the ADB

Commercialization

5% SOM (≈200 organizations) in Uzbekistan by 2027. Entry into CIS markets from 2027, globally — from 2029.

Expected result

Attracting $1 million in investments

Technologies to produce lyophilized NAATs Kits for the NA-detection of current zoonotic infections

1. Basic information

Grant recipient organization

"PERSIMMON PARTNERS" LLC

Project name

Technologies to produce lyophilized NAATs Kits for the NA-detection of current zoonotic infections

Project Manager

Hegay Tatyana

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2. Project budget

Total project budget

$626.344

Grant amount

$498.835

Co-financing amount

$127.509 25% of the grant amount

Investors/partners

"ROSSA" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development of technology for the production of freeze-dried NAAT kits (nucleic acid amplification tests) for the diagnosis of zoonotic infections in granule form, with the possibility of subsequent scaling through licensing or export of OEM products.

Technological solution

Freeze-dried granules ("all-in-one") with a long shelf life (up to 24 months at +40°C), easy to use without the need for cold storage. The technology integrates WHO and FAO "One Health" standards for combating zoonoses.

Current status

- The R&D stage has been completed: prototypes of NAAT kits have been developed and the technologies have been validated.
- The IP registration process has begun, and a licensing agreement with ROSSA is expected to be concluded.
- Active negotiations are underway on scaling up through export sales (Kazakhstan, Kyrgyzstan, countries in Asia and Africa).

4. Development plans

Research/Improvements

Large-scale clinical study in collaboration with ADB

Commercialization

Automation of production and support for OEM products for export. Reduction of logistics costs by up to 70%, reduction in the proportion of damaged goods, and improvement in the stability of diagnostic quality.

Expected result

Entry into CIS markets from 2027, global markets from 2029.

1. Basic information

Grant recipient organization

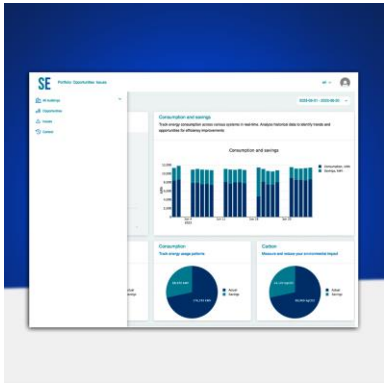
"SMART ENERGETICS" LLC

Project name

Smart Energy - Innovative energy efficiency solution for real estate property management

Project Manager

A'zam Bekhruz



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2. Project budget

Total project budget

$709.380

Grant amount

$560.690

Co-financing amount

$148.690 26% of the grant amount

Investors/partners

Bekhruz A'zam, Gleb Alshansky, Vladimir Frolov

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development of AI-based software to optimize HVAC (heating, ventilation, and air conditioning) systems in commercial real estate, with the aim of reducing energy consumption by up to 30% without capital expenditure.

Technological solution

Smart Energy software: cloud-based, machine learning-based, automatically optimizes HVAC settings in real time. Detects malfunctions, prioritizes energy overconsumption, reduces diagnostic and maintenance costs. SaaS model: no capital costs for customers, pay for savings achieved ("Try&Pay").

Current status

- MVP is ready, with 10 buildings connected, covering a total area of 200,000 square meters.
- Successful savings cases: 10–35% reduction in energy consumption, 7,900 tons reduction in CO_2 emissions.
- Active scaling to the markets of Uzbekistan and Kazakhstan.
- A partner network has been established to enter the European and MENA markets.

4. Development plans

Research/Improvements

Development of predictive analytics models to optimize the consumption of other building engineering systems.

Commercialization

Expansion through SaaS solution in European, MENA, and Central Asian markets. Raising $2,000,000 for international sales team and global marketing.

Expected result

Over 1,000 buildings by 2028.Sales: $200 million+ over 5–6 years.

BIRD-01/22 Revolutionizing Animal Feed Economy: Innovative technology harnessing rice industry waste for cost-effective feed component production.

1. Basic information

Grant recipient organization

"CBF ANIMAL NUTRITION" LLC

Project name

Revolutionizing Animal Feed Economy: Innovative technology harnessing rice industry waste for cost-effective feed component production.

Project Manager

Dadahodjaev Abror

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E-mail: info@cbfeed.uz

2. Project budget

Total project budget

$730.505

Grant amount

$579.505

Co-financing amount

$151.000 26% of the grant amount

Investors/partners

"ART MEBEL GROUP" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation of a natural feed supplement CBFeed based on biofermented rice husks to reduce the cost of feeding farm animals and reduce dependence on imported feed components.

Technological solution

Development and production of the CBFeed additive, which replaces up to 10–30% of compound feed. Rice husk biofermentation technology, patented in 2019 (patent No. IAP 05799). Reduction of feed costs by up to 20%, increase in animal weight by 7–15%, improvement in feed conversion by 10%.

Current status

- The technology has been fully developed and patented.
- Successful pilot tests have been conducted (85,000 broiler chickens).
- Trial production of 300 tons/month has been established in Tashkent.
- The first contracts have been signed with agricultural companies in Uzbekistan.

4. Development plans

Research/Improvements

Development of premium versions of the CBFeed Forte product. Optimization of fermentation processes.

Commercialization

Raising $1,500,000 for production expansion (second phase of investment). Commencement of CBFeed exports to Kazakhstan and countries where the patent is registered (30+ countries).

Expected result

Short term (until 2028): $720,000 in annual revenue

1. Basic information

Grant recipient organization

"PROTECT WILDLIFE" LLC

Project name

Full-system cage fish farm for warmwater fishes in Tuyabuguz Reservoir in Tashkent region

Project Manager

Sobirov Jobir

Contacts:

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E-mail: sobirov-jobir@mail.ru

2. Project budget

Total project budget

$755.700

Grant amount

$600.000

Co-financing amount

$155.700 26% of the grant amount

Investors/partners

Self-financing and additional financing through production contracts

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development of innovative sustainable cage farming technology for heat-loving fish (carp, etc.) in Uzbekistan's reservoirs with high fish productivity and expansion of the value chain.

Technological solution

Construction of a farm with floating cages and fish farming with a productivity of up to 30–40 kg/m³ instead of the existing 0.1–0.2 kg/m³. Fish farming for 8 months to a weight of 1.5 kg using specialized feed (40% protein). Establishing a line for processing fish into steaks and semi-finished products. Direct sales of fish and processed products to consumers.

Current status

- Technologies have been developed and two patents have been secured for feed production.
- A team of experts in aquaculture and marketing has been formed.
- Floating cages and feeding equipment have been designed.
- Agreements have been prepared with universities and research institutes (partnership).

4. Development plans

Research/Improvements

Development of new feed recipes.
Technological adaptation of cages for different types of water bodies.

Commercialization

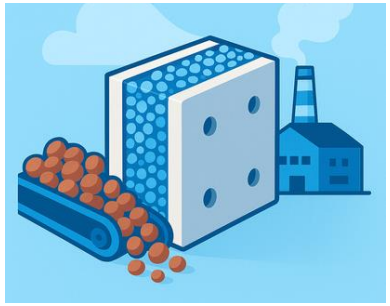
Attracting private investors to expand production and processing. Exporting products may be possible in the future, once the domestic market is saturated.

Expected result

Revenue of approximately $450,000 per year.
Profitability: approximately 45%.

BIRD-01/28 Introduction of effective technology of bentonite clay raw material processing of Navoi region deposits and organization of energy-saving expanded clay panel products for construction

1. Basic information



Grant recipient organization

"AZKAMAR" LLC

Project name

Introduction of effective technology of bentonite clay raw material processing of Navoi region deposits and organization of energy-saving expanded clay panel products for construction

Project Manager

Jumaev Orif

Contacts:

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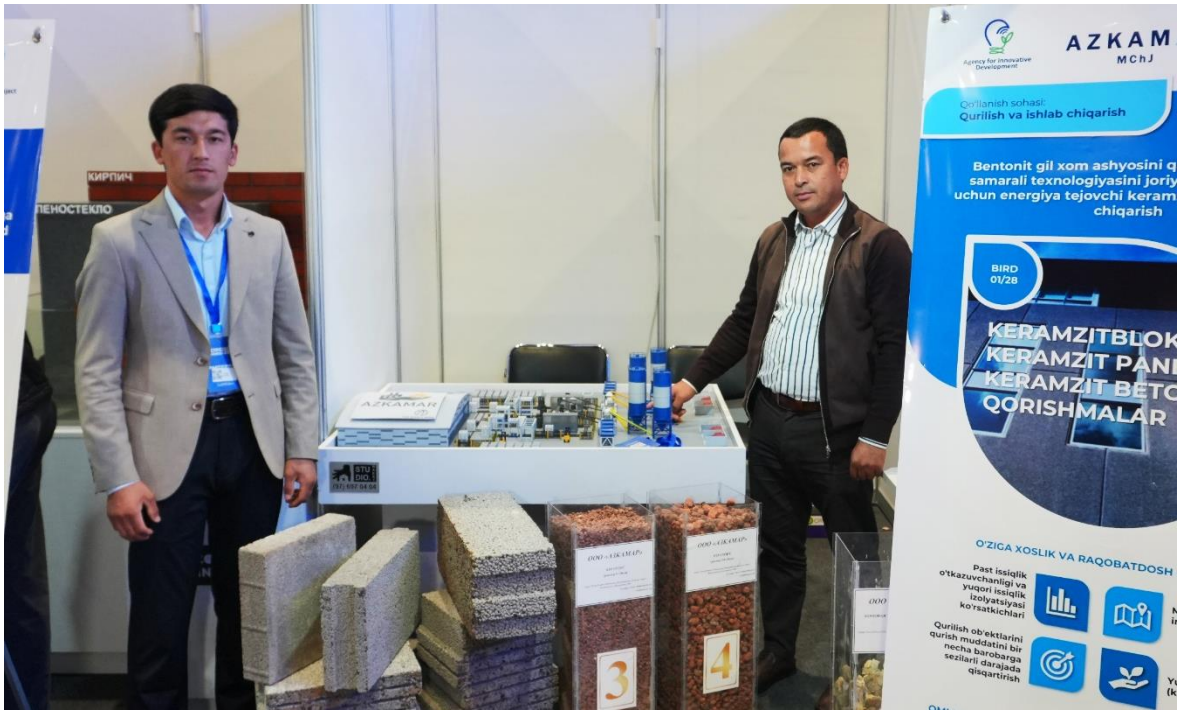
E-mail: shahriyorsattorov0770@gmail.com



2. Project budget

Total project budget

$828.200

Grant amount

$498.200

Co-financing amount

$330.000 66% of the grant amount

Investors/partners

AZKAMAR LLC and Navoi Branch of the Academy of Sciences of Uzbekistan (co-owner of IP with a 10% share of profits)

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation of a new production line for lightweight, durable, and energy-efficient expanded clay building panels based on bentonite raw materials for the construction of residential and industrial facilities.

Technological solution

Use of purified bentonite clay to produce high-quality expanded clay. Production of large-format building panels with improved thermal and strength characteristics (10–14% better than analogues). Development of unique compositions and technological processes with subsequent intellectual property protection (patents).

Current status

- Production of expanded clay gravel and crushed stone has been launched (up to 250 m³/day).
- Cadastral documents for the equipment installation site have been prepared.
- Electricity, gas, and water connections to the production site have been completed.
- Preparations are underway to launch the industrial line for panels.

4. Development plans

Research/Improvements

Optimization of recipes and development of new product formats (e.g., decorative and structural panels).

Commercialization

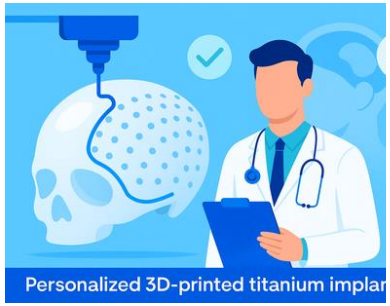
Attracting additional investments of $850,000 to increase capacity. In the future, entering the markets of Kazakhstan and Tajikistan (target date 2028–2029).

Expected result

2025 – 9 billion sums, 2026 – 25 billion sums. Net profit: approximately 17% of annual turnover.

BIRD-01/32 Cutting-edge print-to-order manufacturing of 3D titanium implants for patients with bone defects

1. Basic information



Grant recipient organization

"3D SGD SYSTEMS" LLC

Project name

Cutting-edge print-to-order manufacturing of 3D titanium implants for patients with bone defects

Project Manager

Nigmatjonov Abdurashid

Contacts:

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E-mail: info@sgd-implants.

2. Project budget

Total project budget

$749.760

Grant amount

$599.000

Co-financing amount

$150.760 25% of the grant amount

Investors/partners

Abdurashid Nigmatjonov, Institute of Ion-Plasma Technologies (share in IP)

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Organization of the production of personalized 3D-printed titanium implants for patients with bone defects, primarily of the skull, with subsequent expansion into other areas of reconstructive surgery.

Technological solution

Production of customized 3D-printed titanium implants with precise fit and high strength. Use of patented plasma particle control technologies to obtain high-quality titanium powder. Fast delivery of implants throughout the country via a network of medical representatives.

Current status

- Licenses for titanium powder production technology are available.
- Sales through the existing company Medical Manufacture Center: 162 individual implants sold in six months.
- Preparation for the launch of a new specialized company, 3D SGD Systems.

4. Development plans

Research/Improvements

Optimization of technological processes for printing and post-processing implants.

Commercialization

Attracting additional investment for marketing and R&D development. Plans to enter the Central Asian market (Kazakhstan, Kyrgyzstan), but with caution due to competition.

Expected result

Revenue: 2025 - $395,213, 2026 - $414,973Net profit for 5 years: $1,653,226

1. Basic information

Grant recipient organization

"PRINT" LLC

Project name

Production and commercialization of Biologically active fertilizer (BAF)

Project Manager

Pastukhov Dmitry

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2. Project budget

Total project budget

$150.000

Grant amount

$120.000

Co-financing amount

$30.000 25% of the grant amount

Investors/partners

"Elima" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Organization of production of high-quality biologically active fertilizer (BAF) based on the processing of plant waste and the use of local effective strains of microorganisms.

Technological solution

Production of environmentally friendly BAF, which: reduces the need for nitrogen and potash fertilizers by 40–50%, completely eliminates the need for phosphorus fertilizers, improves moisture retention in the soil, and has a long-lasting positive effect. The technology is protected by patent No. IAP 04377. Use of specially selected strains of microorganisms.

Current status

- The production of humates and compost is organized at the site of PRINT LLC.
- A license agreement for the right to use the patent has been signed.
- The premises are ready for the installation of equipment.

4. Development plans

Research/Improvements

Development of new strains of microorganisms for BAF optimization.

Commercialization

Sales: 2026: 1.120 million sum, 2027: 2.100 million sum.
Export of finished products to Central Asian countries.

Expected result

Production: up to 300,000 kg in 2027.

1. Basic information

Grant recipient organization

"SEEDMASTER" LLC

Project name

Creation of an enterprise for the production of cotton seeds in Uzbekistan

Project Manager

Egamberdieva Saida

Contacts:

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E-mail: saida-68@mail.ru

2. Project budget

Total project budget

$750.000

Grant amount

$600.000

Co-financing amount

$150.000 25% of the grant amount

Investors/partners

Research Institute for Cotton Breeding, Seed Production, and Agricultural Technologies

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Organization of the full cycle of cultivation, harvesting, processing, and packaging of cotton seeds that are resistant to extreme climatic conditions and diseases to meet the demand of Uzbekistan's agriculture.

Technological solution

- Production of cotton seeds based on 100 years of experience of NISSAVH breeders.
- Creation of a complex for growing, processing, and packaging seeds.
- Building a market for high-quality certified seed material.

Current status

- All intellectual property has been registered.
- A range of seeds has been developed.
- The first orders have been received from large farmers.

4. Development plans

Research/Improvements

Development of new seed varieties with improved resistance.

Commercialization

Attracting additional investment when scaling up abroad. The possibility of exporting to neighboring countries (Kazakhstan, Tajikistan) is being considered.

Expected result

Revenue: Year 1 - $400,000, Year 5 - up to $5,000,000.Profit over 5 years: $3,920,000.

Contribution to the reduction of eco-migration due to climate change by introducing new varieties of perennial and annual wheat, that are highly resistant to heat and drought stresses

1. Basic information

Grant recipient organization

"Innovatsiya va texnologiyalarni joriy qilish markazi" LLC

Project name

Contribution to the reduction of eco-migration due to climate change by introducing new varieties of perennial and annual wheat, that are highly resistant to heat and drought stresses

Project Manager

Amanov Amir

Contacts:

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2. Project budget

Total project budget

$581.997

Grant amount

$423.366

Co-financing amount

$158.631 37% of the grant amount

Investors/partners

Research Institute for Cotton Breeding, Seed Production, and Agricultural Technologies

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development and introduction of new wheat varieties (annual and perennial) that are resistant to extreme climatic conditions, in order to improve food security and reduce eco-migration.

Technological solution

Creation of interspecific hybrids using new crossing technologies. Introduction of varieties with deep root systems (up to 270 cm) to increase drought resistance. Development of a new accelerated primary seed production system to produce super-elite seeds in 3 years instead of the traditional 6 years.

Current status

- Selection completed: the varieties "Hayot" (perennial) and "Obod" (annual) have been submitted for state testing.
- A new accelerated system for primary seed production has been developed.
- Cooperation agreements have been signed with agricultural clusters and farmers in the Tashkent region.

4. Development plans

Research/Improvements

Expansion of work on the creation of perennial barley, triticale, and hybrid corn.

Commercialization

Expansion into the Fergana, Jizzakh, and Kashkadarya regions. Growth of market share to 80% in the Tashkent region. Long-term prospects — export of seeds to Central Asia.

Expected result

Profit in 2026 – 3.9 billion sums.

1. Basic information

Grant recipient organization

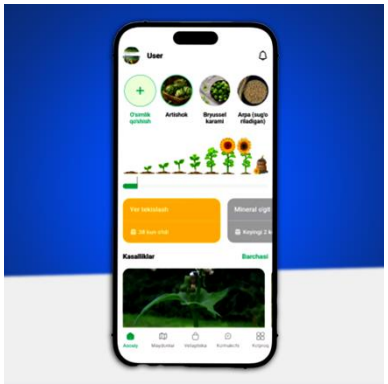
"CONSORT GROUP" LLC

Project name

Growz – Data-driven smart farming support platform

Project Manager

Khusanov Murod



Contacts:

Address:
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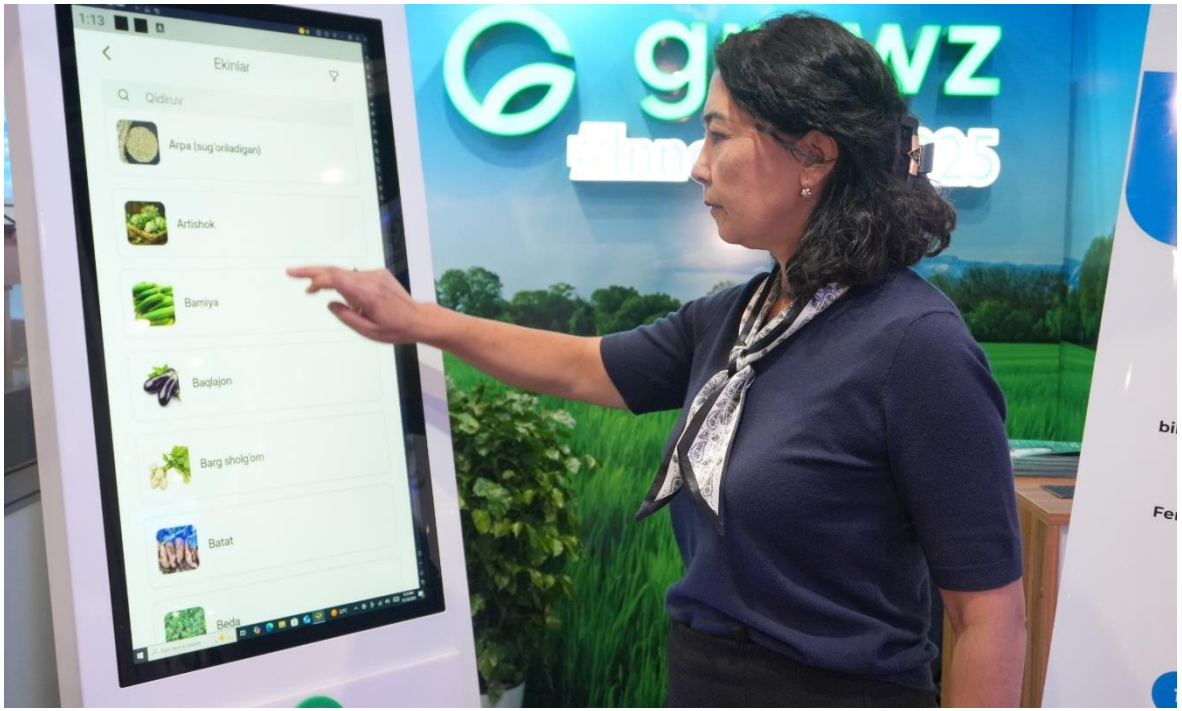
Tel.: +998 90 370 57 20
E-mail: info@growz.io



2. Project budget

Total project budget

$719.010

Grant amount

$571.010

Co-financing amount

$148.000 26% of the grant amount

Investors/partners

Private investment in the pre-seed round: $718,000. TBC Bank

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creating a digital platform for small farmers in Uzbekistan that provides smart farming advice, AI-based plant disease diagnostics, access to an agrochemical marketplace, and microfinance services.

Technological solution

AI agent for diagnosing diseases based on plant images. Personalized recommendations on agricultural techniques and plant protection. Integration with the agrochemicals and fertilizers marketplace. Access to microloans and financial services through partners (e.g., TBC Bank).

Current status

- The MVP version of Growz will be ready by December 2025.
- An agreement has been reached to connect the first 100 merchants.
- Negotiations are underway for a strategic partnership with the Ministry of Agriculture, farming cooperatives, and the FAO.

4. Development plans

Research/Improvements

Improvement of AI algorithms for diagnosis and recommendations.

Commercialization

Raising $1,500,000 in a pre-seed round in 2025. Implementing a strategy to enter Central Asian markets.

Expected result

Platform revenue of $1,200,000 by December 2026. Project NPV — $5,200,000, IRR ~ 40–50%.

1. Basic information

Grant recipient organization

"BIM SCANNER" LLC

Project name

AI-powered construction progress control system («BIM Scanner CDE»)

Project Manager

Nasyrov Rinat

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2. Project budget

Total project budget

$765.500

Grant amount

$588.360

Co-financing amount

$177.140 30% of the grant amount

Investors/partners

Private investment in pre-seed round of $2.5 million, Sapsan LLP (Kazakhstan)

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation of a cloud-based data environment and portable device for real-time construction quality control using mixed reality (MR/AMR) and artificial intelligence technologies

Technological solution

BIM Scanner CDE platform with the ability to upload BIM models to the construction site and overlay them on the real environment. Innovative augmented mixed reality (AMR) technology that allows you to see hidden engineering elements behind walls. Integration with external construction management systems (CRM, PlanRadar, Procore). Offline mode and real-time calculations.

Current status

- The prototype of the BIM Scanner device has been developed.
- The prototype of the BIM Scanner CDE cloud system is in its final stages.
- Negotiations are underway with the first customers and partners in Uzbekistan, Kazakhstan, and other Central Asian countries.
- Pilot projects have been carried out with the registration of deviations and defects.

4. Development plans

Research/Improvements

Development of new CDE functions and an AI-based defect analysis module.

Commercialization

Raising $3 million for a 40% stake in the company. Using funds for R&D and marketing. Implementing a strategy to enter the markets of Kazakhstan, Kyrgyzstan, and MENA countries.

Expected result

Capture 3% of the regional SAM market by 2030 (~$300 million in revenue).Company valuation after the round: $7.5 million.

Production of advanced, eco-friendly granulated construction material of the new generation with energy-saving functions for the sustainable development of the construction industry in Uzbekistan

1. Basic information

Grant recipient organization

"ECONSTRUCT INNOVATIONS" LLC

Project name

Production of advanced, eco-friendly granulated construction material of the new generation with energy-saving functions

Project Manager

Aripjanov Oybek

Contacts:

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Tashkent city, Jangokh street, 37
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E-mail: zebo.babakhanova@gmail.com

2. Project budget

Total project budget

$725.000

Grant amount

$580.000

Co-financing amount

$145.000 25% of the grant amount

Investors/partners

"WHITE HOUSE BUILDING" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Organization of production of energy-efficient, environmentally friendly granular building material — foam glass ceramics — for use in construction, landscaping, and infrastructure.

Technological solution

Development of a single-stage production technology for foam glass ceramics. Production of material with a density of 160–500 kg m³, low thermal conductivity (0.05–0.08 W/mK), fire resistance, and water absorption of less than 7%. Resistance to chemical exposure, temperature fluctuations, and long service life (50 years or more). Possibility of recycling and reusing the material.

Current status

- A pilot line has been developed and tested.
- Tests have been conducted on local raw materials.
- Two intellectual property items (methodology and equipment) have been registered.
- Preparations are underway for serial production and active commercialization.

4. Development plans

Research/Improvements

Further optimization of the composition for various climatic conditions.

Commercialization

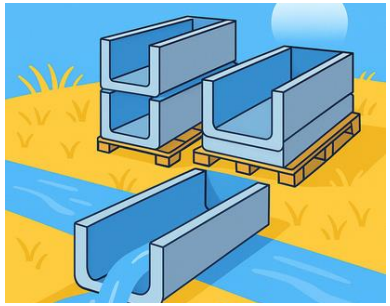
Possible attraction of additional investments for scaling. Sales in Kazakhstan, Uzbekistan, prospects for expansion into the MENA region.

Expected result

Sales volume: Year 1 - $1,345,000, Year 2 - $2,017,500, Year 3 - $2,690,000. Net profit: $782,485 - $1,564,969 in years 2-4 of operation.

Development of automated technology for the production and industrial implementation of irrigation trays LK-60, LK-80 and LK-100 made by the composite materials

1. Basic information



Grant recipient organization

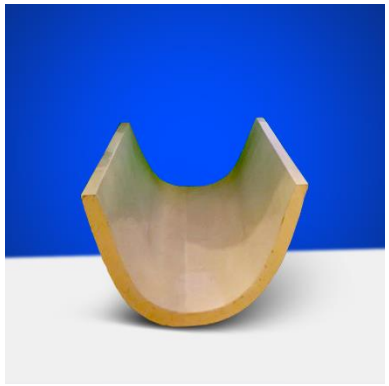
"COMPOSITE LOTOK ISHLAB CHIQARISH" LLC

Project name

Development of automated technology for the production and industrial implementation of irrigation trays LK-60, LK-80 and LK-100 made by the composite materials

Project Manager

Paluanov Daniyar



Contacts:

Address:
Syrdarya region, Syrdarya district, Gulistan street, 99
Tel.: +99897 411 38 44
E-mail: compositelotok@gmail.com

2. Project budget

Total project budget

$187.500

Grant amount

$150.000

Co-financing amount

$37.500 25% of the grant amount

Investors/partners

Self-financing and additional financing through production contracts

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development and industrial implementation of an automated production system for composite irrigation trays to improve water use efficiency in agriculture

Technological solution

Production of fiberglass trays based on polyester resin (IK-131). Improved properties: high strength, low water absorption (0.88%), resistance to temperatures from -45°C to +200°C, service life of 45–50 years. Significant reduction in water loss and operating costs.

Current status

- Composite material technology developed.
- Composition of 8 components optimized.
- Patent obtained for industrial prototype of trays of types LK-60, LK-80, LK-100.
- Creation of prototypes completed.

4. Development plans

Research/Improvements

Further optimization of strength and reduction in the cost of composite materials

Commercialization

Required production capacity: 3,000 trays per month (~9 km of network). Deliveries to Central Asian countries (potential turnover of up to $5 million over 3–4 years).

Expected result

Revenue: $440,000 per year profit at full capacity. Potential market worth ~ $289 million.

1. Basic information

Structural steel hotaluminizng

Grant recipient organization

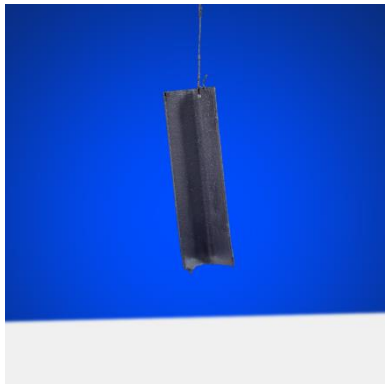
"ALUMINICO INNOVATION GROUP" LLC

Project name

Structural steel hot aluminizing by the horizontal pass method

Project Manager

Turaxodjaev Saidanvar



Contacts:

Address:
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Tel.: +998 90 046 16 44
E-mail: aluminico.ig@gmail.com

2. Project budget

Total project budget

$749.920

Grant amount

$599.920

Co-financing amount

$150.000 25% of the grant amount

Investors/partners

Self-financing and additional financing through production contracts

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Development and implementation of innovative technology for protecting structural steel from corrosion through hot aluminizing using a horizontal pass method with magnetohydrodynamic systems.

Technological solution

Horizontal passage of the product through molten aluminum with melt retention using magnetohydrodynamic (MHD) systems. Reduction of melt volume in the chamber, reduction of energy consumption. Possibility of coating complex profiles with aluminum without deformation..

Current status

- Experimental MHD valves have been developed and successfully tested.
- Technical documentation for the main elements of the installation has been prepared.
- A database for patenting intellectual property has been created.

4. Development plans

Research/Improvements

Improving coating adhesion for various steel profiles.

Commercialization

Construction of a pilot production facility for aluminum products with a capacity of 5,000 tons per year. Licensing of technology for markets in Europe, North America, and Asia.

Expected result

Up to $1 million in annual revenue. Technology licensing — up to $2.4 million in annual royalty income (~4% of a $60 million base).

BIRD-01/140 Solar windows with luminescent quantum dots for building integration and smart greenhouses

1. Basic information

Grant recipient organization

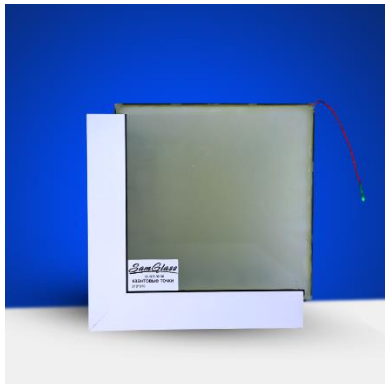
"SOLQD" LLC

Project name

Solar windows with luminescent quantum dots for building integration and smart greenhouses

Project Manager

Ataxodjayev Alisher



Contacts:

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Tel.: +998 90 983 51 50
E-mail: muratbek.rasulov@mail.ru

2. Project budget

Total project budget

$750.000

Grant amount

$600.000

Co-financing amount

$150.000 25% of the grant amount

Investors/partners

"STEKLOPLASTIK" LLC
"AGROMIR BUILDING" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Scaling up quantum dot synthesis to create polymer triplexes (solar windows) and films to increase greenhouse yields by filtering sunlight

Technological solution

Transparent solar windows based on quantum dots that generate electricity and cool rooms at the same time. Special film for greenhouses that increases plant yield by optimizing the spectrum of sunlight.

Current status

- The first prototypes of solar windows and films have been developed.
- Preparations for scaling up quantum dot synthesis have begun.
- Cooperation with industrial partners has been established: SamGlass, Hilton Brend, OGP.

4. Development plans

Research/Improvements

Development of solar windows for cars.

Commercialization

Market entry with 60,480 m² of installed solar windows and 7,400 hectares of greenhouse films. Export of finished products to Central Asian countries.

Expected result

Sales by 2029: over $4.5 million per year.

BIRD-01/148 Ecofriendly biochar based and liquid microbial fertilizers (ECOBIOME): Biofertilizer Production Line

1. Basic information

Grant recipient organization

"ECOBIOME" LLC

Project name

Ecofriendly biochar based and liquid microbial fertilizers (ECOBIOME): Biofertilizer Production Line

Project Manager

Egamberdieva Dilfuza

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Tel.: +998 94 860 09 55
E-mail: ecobiomeuz@gmail.com

2. Project budget

Total project budget

$750.000

Grant amount

$600.000

Co-financing amount

$150.000 25% of the grant amount

Investors/partners

"BIODRIP" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Establishment of Uzbekistan's first production line for biofertilizers based on microbiological cultures and bio-coal to increase crop yields and sustainability

Technological solution

Production of liquid microbial biofertilizers and biochar compositions. Use of rhizobia and other effective bacteria to stimulate plant growth and combat diseases. Environmentally friendly solutions for farmers and agricultural complexes.

Current status

- Formulas for fertilizers based on microbes and biochar have been developed.
- Laboratory and greenhouse tests have been completed.
- A plan for the construction of a production line is ready.

4. Development plans

Research/Improvements

Development of new products for different crops and climatic conditions.

Commercialization

Achieving a production volume of up to 100,000 tons of biofertilizers per year. Deliveries of microbial fertilizers to Central Asian countries.

Expected result

Sales target: $960,000 in the first year. Expected net profit: $653,000 in the first year.

BIRD-01/155 Production of a biological product for the destruction of pesticides in the soil and increasing soil fertility

1. Basic information

Grant recipient organization

"BIOFIELD" LLC

Project name

Production of a biological product for the destruction of pesticides in the soil and increasing soil fertility

Project Manager

Uljabaev Jakhongir

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Namangan region, Chust district,
Mustaqillik street, 74
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E-mail: jahongir.ifoda@gmail.com

2. Project budget

Total project budget

$750.000

Grant amount

$600.000

Co-financing amount

$150.000 25% of the grant amount

Investors/partners

"IFODA AGRO KIMYO HIMOYA" LLC

3. Project description and stages

TRL 1 | TRL 2 | TRL 3 | TRL 4 | TRL 5 | TRL 6 | TRL 7 | TRL 8 | TRL 9

Project objective

Creation of a biological product for cleaning soil from pesticide residues (chlorpyrifos and cypermethrin), increasing nitrogen, phosphorus, and potassium levels in the soil, and increasing crop yields.

Technological solution

A microbiological liquid product based on a unique strain of Ochrobactrum intermedium bacteria. Destruction of pesticide residues in the soil. Improvement of soil structure, restoration of beneficial microflora, and increased fertility.

Current status

- The technology for producing the bioproduct has been developed.
- Laboratory and field trials have been completed.
- The premises for launching industrial production are ready.

4. Development plans

Research/Improvements

Development of new strains and products for various types of contaminated soils.

Commercialization

Attracting additional investment to increase capacity. Entering Central Asian markets from 2027.

Expected result

Revenue: $2.46 million in the first year of sales (at $4.5 per liter). Net profit: $723,639 in the first year.

Navigating RCP & BIRD projects

Technology Readiness Levels

CATEGORY	TRL LEVEL	DESCRIPTION	SPECIFICATIONS
Fundamental research	TRL 1	Observation of basic principles	Initial scientific research; confirmation of basic phenomena without practical application.
	TRL 2	Formulation of the concept and/or application	Generation of ideas and concepts, beginning of theoretical developments.
	TRL 3	Experimental verification of the concept	Laboratory verification of concepts; initial testing of key components.
Engineering development and testing	TRL 4	Laboratory testing of components or systems	Development of a laboratory prototype; testing of basic component integration.
	TRL 5	Testing components under conditions close to real-life conditions	An engineering prototype with basic functions in a limited environment.
	TRL 6	Demonstration of the system/subsystem under simulated conditions	A semi-functional prototype tested under conditions close to real-life conditions.
Commercialization and actual use	TRL 7	Demonstration of the prototype in real conditions	The prototype is ready for operation; practical testing is underway.
	TRL 8	Completion of the system and its qualification tests	The system has passed all tests and is ready for operation in real-world conditions.
	TRL 9	Actual product use	The technology is fully ready and is being used in real-world conditions.

Project classification

Program	Number of projects	Full name	Objective	Recipients	Grant amount	Co-financing	Focus	Innovation stage
REP	**25**	Research Excellence Program	Improving the quality of scientific research	Scientists, research teams	up to $100,000 (on average)	n/a	Publications, international partnerships	Fundamental and applied research
RCP	**9**	Research Commercialization Program	Supporting the transformation of scientific developments into products	Scientists, research institutes, universities	up to $150,000	at least 25%	Proof-of-concept, licensing, support	Middle stages: concept, prototype, IP
BIRD	**18**	Business Investments in Research & Development	Support for applied R&D, technology implementation	Private companies, startups, consortia with research institutes	up to $600,000	≥ 25% of the grant amount	Commercialization, production, prototypes	Late stages: market-ready, scaling
PRIM	**24**	Public Research Institutes Modernization	Modernization of scientific institutes and strengthening their capacity	State research institutes and research organizations	up to $200,000	possibly, not necessarily	Infrastructure, training, management	Fundamental transformation, capacity building
ICP	**211**	Innovation Capabilities Program	Enhancing the innovative potential of SMEs	Small and medium-sized enterprises	up to $50,000	= 100% (mandatory co-financing)	Quality, certification, standards	Early adoption of technologies, "incremental innovations"