INFRASTRUCTURAL COMPONENT OF INVESTMENT-INNOVATIVE DEVELOPMENT IN SMALL BUSINESS (BY THE EXAMPLE OF BELGOROD REGION’S AGRICULTURAL COMPLEX)

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Conducted an analysis of such possibility as establishment of infrastructure elements of small business’s investment-innovative development as regional centers of agricultural technologies transfer (RCATT) and venture funds. Basic strategic purposes and principles of RCATT in context of small entrepreneurship were formulated. Technological segments and possible instruments of interaction between small entrepreneurship and RCATT were stated. Practical experience of private public partnership implementation in Russia and abroad was analyzed. The role of venture fund in development of small entrepreneurship was determined and represented in form of investment declaration. The scheme of venture investment implementation with participation (based on materials of Belgorod region) of small business was presented. Individually the key steps of innovation process in small business were analyzed.

Key words: Belgorod region, Agricultural complex, Small business, Private public partnership, Venture fund, Innovative process, Regional center of agricultural technologies transfer, Technological segments, Economic mechanism, Innovations, Investment, Localisation, Licensing

INTRODUCTION

Level of Russia’s economic development in general and its small business depend on degree of investment activity of its structure units at macro-, meso- and micro levels. Innovation activity is a dominant area of investment in modern conditions of postindustrial economy [01 - 04]. Such tendency has a global scope and touches not only developed countries, but also countries with transitional economy and developing countries. Beginning of world innovative model is being observed. Inevitability of that process is dictated by activation of globalisation process and integration of leading countries economies. It is necessary for Russia, as fast as possible, to implement a transformation of its innovative potential in accordance with changing conditions of external environment in purposes of development activation of elements which compound it. The leading role in that process has to be taken by government through creation of favourable investment-innovative conditions for small and medium-sized businesses, investors and involvement of foreign investment into country’s economy. One of issues that have to be quickly solved is establishment of appropriate regulatory legal foundation for investment in innovative activity in small entrepreneurship area.

It is still an actual question of optimization of investment portfolio of small and medium business in country’s agricultural complex (AC), which can be explained by existing features and that role, which investment play for it.

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METHODOLOGY

Investment issues of innovative activity in small business have been being studying subject of leading scientists and specialists for a long time. A significant contribution in development of scientific approaches in investment area was made by many Russian and foreign researches: S.A. Agarkov, V.Z. Mazloev, I.S. Sandu, I.G. Ushachev, U.F. Sharp and others [05, 06, 07, 08, 09].

Questions of theory and methodology of investment in innovative activity, including amssl and medium business, found its reflection in scientific papers of economists: L.I. Abalkin, Y.A. Doroshenko, V.V. Kuznetsov, Y.S. Melkumov, V.I. Nechaev and others [10, 11, 12, 13, 14, and 15].

There is an essential necessity in forming of regional organization-economic mechanisms of investment in innovations, directed at solving the issues of agricultural technologies transfer and utilization of public private partnership mechanisms for implementation of venture investment in small entrepreneurship.

MAIN PART

By analyzing of innovative system as a one of components of economic mechanism, inside of it we should notice a specific set of structural elements of lower hierarchy, which are being interconnected, by other words, some sort of investment-innovative infrastructure, which provides creation of innovations in small and medium businesses, and, more importantly, their transfer. Such mechanism could find its reflection within forming of regional centers of agricultural technologies transfer (RCATT, with reference to AC), which have to become a part of existent regional innovative systems after the restructuring.

Model of RCATT presented in that paperwork consolidates functions of innovation promotion and, from scientific point of view, is a part of innovative subsystem of integrated economic mechanism. As initial strategic purposes of being-made regional center of agricultural technologies transfer (RCATT, with reference to AC), which have to become a part of existent regional innovative systems after the restructuring.

The process of localisation of domestic and foreign agricultural technologies was analyzed from point of view of core phases of investment projects life cycle (Table 1). Economic purpose of utilization of such instrument as localisation consists in decreasing of investment risk level, a significant decreasing of lag in final product outcome, growth in quantity of successful projects.

A certain attention must be paid too establishment of development center of high-agricultural technologies, which activity will be consisted from integration of efforts of technology owner, regional scientific institutions and investors. Licensing and transfer of patents are not functionally complex instruments and have a wide usage in Russia as much as in the world.

It can be the following action scheme:
- forcing for innovations at regional level (government’s initiative);
- establishment of new technological decisions by R&D organizations. Protection
of intellectual property in Regional center of agricultural technologies transfer;
- searching of potential contractors – consumers of agricultural technologies;
- implementation of agricultural technologies in agricultural sector of economy;
- gaining of royalty payment;
- payment of royalty to R&D organizations.

Table 1: Stages of agricultural technologies localisation process

<table>
<thead>
<tr>
<th>Stage</th>
<th>Preinvestment</th>
<th>Investment</th>
<th>Exploitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Works content</td>
<td>Observation</td>
<td>Adaptation</td>
<td>Integration</td>
</tr>
<tr>
<td>1. Evaluation of exist agricultural technologies.</td>
<td>1. Modification of technological decision for preparadness to implement with support of RCATT</td>
<td>1. Practical implementation of approved technological solutions into production process.</td>
<td></td>
</tr>
<tr>
<td>2. Evaluation of tendencies in area of technological decisions implementation.</td>
<td>2. Continuation of interaction with potential contractor – consumer of agricultural technology.</td>
<td>2. Support of high-technologies development center</td>
<td></td>
</tr>
<tr>
<td>3. Identification and evaluation of target agricultural technologies.</td>
<td>3. Support of high-technologies development center.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Search of potential contractors.</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Preinvestment</th>
<th>Investment</th>
<th>Exploitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Identification of target agricultural technology.</td>
<td>1. Preparadness of technological solution for implementation.</td>
<td>1. Technology has been implemented.</td>
<td></td>
</tr>
<tr>
<td>2. Identification of potential contractor-consumer of agricultural technology.</td>
<td>2. Accordance of potential contractor-consumer for implementation of chosen technological decision.</td>
<td>2. Trial launching of agricultural technology with support of regional center of agricultural technologies transfer</td>
<td></td>
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</tbody>
</table>

Provision of professional informative-consulting services for small business consists in conduction of contract-based researches, education, consultancy and expert support. Activities of RCATT will also support a search of potential contractors and coordination of work within conducting of contract-based researches. In that case it is possible to use such instrument as outsourcing.
- identification of key instruments within frame of chosen technological segments (Figure 1);
- step by step development of selected technological segments;
- an effective organization of regional center of agricultural technologies transfer, which will promote an achievement of planned results in a process of implementation of strategic purposes and selected development destinations.

Characteristic of activity of proposed RCATT for purposes of small business represented in table 2. In this connection it is necessary to take into account that effective organization of regional center of agricultural technologies transfer will promote an achievement of planned results only through the process of strategic purposes and selected development directions.
Solving of task to follow the innovative way of development for Russia’s economy is been seen to be highly problematic without utilization of modern instruments and mechanisms, a special place among which belongs to public private partnership (PPP). RAS’s Institute of Economy defines PPP as «institutional and organizational alliance of state authority and private business with purpose of implementation of socially important projects in wide range of areas – from development of strategically significant economic industries to provision of social services within the country’s scope and separate territories».

OECD Scientific and Technological Policy Committee, defining the term of PPP, determines its following characteristics:

- partnership must represent alliance between governmental and private sectors of economy;
- partner relationships must have a documentary approvement;
- partner relationships have to be grounded on equal basis;
- it is necessary to have mutual purposes with marked governmental interest;
- accomplishment of stated purposes has to be based on unification of partnership’s participants’ inputs;
- members of partnership have not only to distribute investment expenses and project’s risks between themselves, but also to jointly participate in usage of achieved results.
Table 2: Instruments of interaction between RCATT and small entrepreneurship

<table>
<thead>
<tr>
<th>Instruments</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localisation</td>
<td>Practical implementation of localisation instruments, conduction of marketing researches.</td>
<td>Transfer to serial manufacturing based on certain technological solution, maximum integration of participants within support of projects of high-tech development center.</td>
<td>Development of export of technological solutions, broadening of activity beyond limits of RCATT.</td>
</tr>
<tr>
<td>Protection of IP and licencing</td>
<td>Concentration of efforts on coordination of operations with R&amp;D organizations, building up a reputation.</td>
<td>Expanding of activity scope, focusing on marketing, implementation of strategy of outcome at international market.</td>
<td>Key direction of professional activity of RCATT.</td>
</tr>
<tr>
<td>Informative-consulting services</td>
<td>Marketing, conducting of contract-based researches, creation of manager team</td>
<td>Broadening of activity scope, evaluation of possibility of not previously used instruments usage, i.e. technological audit, outsourcing.</td>
<td>Formation of commercial consulting structures is rather possible</td>
</tr>
</tbody>
</table>

V.G. Varnavsky determines PPP as «institutional and organizational alliance between government and business in purpose of implementation of significantly important social projects and programs in wide range of industries and R&D, including non-manufacturing business».

In general, definition of PPP reflects long-term, mutually settled relationships of state and private business, to which we can say yes.

The subject of specific discussions can be only an issue of definition of industrial structure for practical utilization of current mechanism. In this way, if RAS’S Institute of Economy does not identify a specific list of industries for possible application of PPP, then in definition of V.G. Varnavsky among such industries has been analyzed, firstly, manufacturing and services, which, in our point of view, not fully acceptable.

The mechanisms of PPP have to possess a first-priority possibility to be implemented in accordance with prior directions of Russia’s economic development, among which agriculture holds not the last place.

From countries with significant results of PPP implementation, including small business area, we can mark out Great Britain, USA, Germany, France, Italy, Japan, Israel;
- energy: China, France, Japan;
- healthcare: Belgium, Great Britain, Israel, Spain, France;
- education: Great Britain, Ireland;
- culture: Great Britain, Japan;
- penal system: Great Britain, Canada, USA, Japan;
- innovative activity: Great Britain, Germany, Netherlands, Israel, China, USA, France, Sweden.

Innovative activity, as a subject of interest for PPP programs, is typical for absolute majority of developed countries. Basic principles of PPP typical for most countries are being taken down to role of state, which lays in promotion of fundamental science development, establishment of necessary infrastructure and favourable investment climate, which is essentially important. Small and medium-sized businesses in such situation take functions of creation of innovative technologies, their transfer and commercialization.

The key problems of implementation of innovative projects based on PPP approach in small and medium business in our country connect with underdevelopment of PPP instruments, including:
- low efficiency of current institutional system of PPP support and authority bodies;
- lack of development of concessions practice for implementation of innovative projects within PPP;
- non-systematical approach to financial-economic interaction between state and small business in a process of implementation of
innovative projects with utilization of PPP mechanism;
- underdevelopment of regulatory-legal basis of risks and responsibilities distribution within PPP in innovative sphere of small business;
- support of manufactured export;
- stimulating and development of venture financing and processes of technologies commercialization;

In agricultural complex the relations between state and small and medium business are fixed in shape of joint ventures, agricultural holdings, clusters (innovative and territorial-manufacturing), indutrsial unions, agricultural technical parks, R&D centers, scientifically-productive systems and etc.

At regional level (on example of Belgorod region) mechanisms of PPP can be implemented within creation of venture fund in AC, which is explainable, considering the level of its development and presence of competitive producers of agricultural products. Such actions have become possible after JSC «Russian venture company» (JSC «RVC») was established in our country, which is a guide between state (represented by established JSC), regional venture funds, in-
novative structures (decree of Government of Russian Federation from the 7th of June 2006 № 838-p). Establishment of venture fund in agricultural sector of Belgorod region, in our opinion, might become a catalyst of innovative activity of the whole entrepreneurship. We proposed to establish a venture fund in a form of ended mutual fund. Basic purposes and functions of fund are represented at Figure 2. Investment declaration of venture funds in part of small entrepreneurship development has to be based upon the following statements:
- a special-purpose character of investment (investment only into innovative company of small business);
- dependance of investment amounts on stage of innovative company's development (minimum of 80% assets have to be invested into small business innovative companies at early stage of development);
- principle of investment diversification (per 5 years at least 8 innovative companies from small business have to be objects of investment);
- limitations of investment areas (investment prohibition for traditional economic industries and the ones which do not meet regulatory-legal requirements);
- limitation of aggregate compensation to members of venture fund (management company, specialized depositary, registrar of investment share owners, auditor, appraiser in aggregate can pretend for compensation within 2.5% of fund's assets cost).
Possible scheme of venture investment implementation with participation of small business represented at Figure 3.
The forecast average level of fund's revenue will be from 30 to 40% annually. Management company's (MC) concernment in functioning of establishing funds will be stipulated by, firstly, annually sum of compensation, calculated on basis of fund’s assets cost (but not more than 2.5%), and secondly, by fund’s net profit (approximately 20%, which is acceptable in world practice). Comment: SBRFM – Sberbank of Russia's service of Financial Market, MC – management company, JSC «RVC» - JSC «Russian venture company». Possible structural representation of core phases of innovative processes with utilization of public private partnership in small entrepreneurship during implementation of venture investment (according to classification of European association of venture investment) is represented in Table 3.

Table 3: Characteristic of core stages of innovative process in small entrepreneurship

<table>
<thead>
<tr>
<th>STAGE OF INNOVATIVE PROCESS</th>
<th>Characteristic</th>
<th>Source of financing</th>
<th>Number of projects successfully passed the stage, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed – stage</td>
<td>CREATION OF BUSINESS IDEA</td>
<td>STATE, BUSINESS – INCUBATORS, BUSINESS-ANGELS, SEED-FUNDS</td>
<td>100</td>
</tr>
<tr>
<td>Start - up stage</td>
<td>MAKING OF PRODUCT, CONDUCTION OF R&amp;D WORKS, PRE-SALE MARKETING, PREPARATION OF MANUFACTURING</td>
<td>Venture funds</td>
<td>30-40</td>
</tr>
<tr>
<td>Expansionstage</td>
<td>EXPANSION OF MANUFACTURING, COMPREHENSIVE MARKETING, RECEIVING OF PROFIT</td>
<td>TRADITIONAL SOURCES OF PROJECTS FINANCING</td>
<td>10-20</td>
</tr>
<tr>
<td>CAPITAL SUBSTITUTION</td>
<td>TRANSFORMATION OF INVESTMENT ASSETS (CHANGE OF STRUCTURE, PROPERTY RIGHT)</td>
<td>ASSETS OF SIDE INVESTORS, PRIVATE FUNDS</td>
<td>1-2</td>
</tr>
<tr>
<td>Ransom</td>
<td>Application of forms: management buy – in(side investors), management buy – out (private funds)</td>
<td>ASSETS OF SIDE INVESTORS, PRIVATE FUNDS</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Within the frames of construction of venture investment's financial mechanism a special attention must be paid to seed-stage. At this stage there is an absolute majority of developments conducted by scientific institutes, and from their support will be depended not only perspective of venture business itself, but also perspective of establishment of economically effective innovative system in the country. Stages of capital substitution and ransom in Russian practice can be united into restructurization stage. Within that stage shares of others investors and funds can be obtained, non-specialized departments can be saled, manufacturing assets can be enlarged and other activities referred to capitalization growth can be conducted. Withing financing of seed-stage during implementation of venture investment it will be actual to use assets of business-incubators, within, creation of regional agricultural technopolises.

**CONCLUSION**

At the modern stage of development of production forces and manufacturing relations it is necessary to say about their quality transformation within formation of model for country’s innovative...
development. There are few evidences to this: firstly, development of Russia’s economy at various hierarchical levels is located in dependance of investment attractiveness of its structural units. Innovative activity, as a predominant investment type, does not provoke any doubts. We can to observe a formation of world innovative model, and globalization and integration were preconditions to it.

Secondly, activization of small entrepreneurship development in our country, in various industries, including agricultural complex, is possible only through making of adequate regulatory-legal field with simultaneous removal of current obstacles and foramtion of necessary infrastructural elements at a regional level.

Thirdly, we have to solve an issue of accumulation of sufficiency for sources of investment resources purposed for small entrepreneurship, which in most cases are being sent to innovations.

Fourthly, creation of such infrastructural elements of investment-innovative support of small entrepreneurship as regional centers of transfer and regional venture funds will promote more fast pace of its development.

Summary

1. Results of anallitical research let us conclude, that at modern stage of small entrepreneurship development there is a necessity to activate its investment-innovative activity in purposes of achievement of competitive advantages in comparison with other countries – members of WTO. We can claim the fact, that amount of investment, including the one directed in small entrepreneurship innovations, is at low level, which create a threat for its further functioning.

2. By analyzing innovatioonal subsystem as one of the most important components of economic system, we will register the presence of specific set of structural elements of low hierarchical level, which are interconnected. By other words, we register the presence of some investment-innovative infrastructure, which maintain producting of innovation and, which is especially actual, their transfer. Within this research a special interest was presented by such elements of investment-innovative infrastructure, which are able to activate the development of small entrepre-

3. Centers of agricultural technologies transfer have to become a part of current innovative systems exist in regions by its restructuring. The main goal of regional center of agricultural technologies transfer is promotion of domestic and foreign innovative technologies with assistance of governmental structure. Other important element of investment-innovative infrastructure of economic mechanism has to be venture funds.

4. Innovative development of small entrepreneurship is highly difficult without support of public private partnership. At regional level principles of public private partnership can be implemented through establishment of venture funds in form of ended investment fund.

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