

Root crop, soil, digging out, working body, wedge bar, resistance, vibration.

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**Features Formation ЭФФЕКТИВНОГО ВТОРЫЧНОГО market
PODERZHANNYOY SELSKOHOZYAYSTVENNOY techno complex in
AHROPROMЫSHLENNOM**

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In Article pryvedeny Basic principles and motivation creation and the formative vtorychnoho market poderzhannoy technics in ahropromыshlennom complex.

Motivation, Update, respondenty, modernization, poderzhannaya technics, MONITORING, hospodderzhka, portals, information.

Production problems STATUS tractor fleet (ICC) AIC Russia and Republic of Belarus vydyhaet vazhneyshuyu task of development and bystreysheho Almost Using vtorychnoho market poderzhannoy selskohozyaystvennoy technology. So in Russia AIC Volume tractor fleet sostavljaet prymerno 50% of technological and normatyvnoy the needs, yznos

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Technics ripened 70-75% from deystvuyuscheho park. Obespechennost AIC country on tractors snyzylas 2.9 times over-harvesting zernouborochnym 3.5 times, on kormouborochnym 4 times [1].

Reduction park selskohozyaystvennoy technics, growth fyzycheskoho yznosa and moral conduct for abuse tehnolohycheskyh processes, production Reduction объемов selskohozyaystvennoy production Increase ee sebestoymosty Reduction and competitiveness. For Improvement Measures pervoocherednye situation neobhodymy Manual for Protection Against otechestvennoho market selskohozyaystvennoy technology. But This process us one year.

OUTPUT FROM POSITION slozhivshehosya javljaetsja task creation vtorychnoho market poderzhannoy technics serve something vazhным Saving reserve of technical BUILDING selskohozyaystvennyh tovaroproizvodyteley. This javljaetsja aktualnoy development tasks selskohozyaystvennoho production.

Level otmechaetsja also a number of reliability and quality, vyпускаемой Patriotic technics, so for tractors narabotka refusal to sostavljajet 200-250 hours (Specifications - 600 hours), and imported tractors Significantly Above this and the figure is equal to 800-1000 hours. Analohychnaya situation with naděžhnostyu and the second group slozhnoy selskohozyaystvennoy technology. Continues moralnoe and Physical aging tractor fleet. Rosсыyskye producer of technics selskohozyaystvennoy not mogut konkuryrovat on tsenam with byvshey in upotreblenyy tehnykoj zarubezhnoho production, something Significantly oslablyajet pozytsyj of domestic enterprises selskohozyaystvennoho mashinostroeniya.

Results of research. Mirovaya practice dokazyvaet: vtorychnyy Marketplace selskohozyaystvennoy technics along with market Novaya technics - Method эффеkтыvныj solutions klyuchевыh voprosov Provision of technical material and agricultural sector. Marketplace poderzhannoy technics allows us uluchshyt tehnycheskuyu osnaschennost village tovaroproizvodyteley, and First Total nyzkorentabelnyh and ubytochnyy enterprises, kotoryya not ymeyut fynansovyh of opportunities bu new technician Or ee Having got in terms of leasing. Vaud vtorychnom market also zajnteresovаны agricultural holdings and rentabelnyye sector, kotoryya mogut quickly vystavlyat on vtorychnyy Marketplace poderzhannuyu rabotosposobnuyu technician, zamenyaya Her new, otvechayushey современым technology selskohozyaystvennoho production.

Razvytyh countries in economy, machine park otraslevoho production of products for formyuetsya schët two ryнков technics - novyyh machines and machines vtorychnoho use. For units Quantity turnover ñè primerno ravnoveľyky. In Russia and Belarus for Most mashynnyh and sektorov, First Total for the agricultural sector is not yet zakonovernost Such characteristic: razvytoho market vtorychnoy technics except automobile, unfortunately, not sformirovano. In avtoryteyle poderzhannyh machines realizuetsya 15-20% more, than novyyh.

Experience Using vtorychnoho technics market in razvytyh zarubezhnyh country confirms эkономическую выhодnost repeatedly Changed vladeltsa machines in the process s (machines) zhyznennoho cycle. As pokazывajut raschëты, development vtorychnoho technics market in the agricultural sector allows us to:

- Uskorenno naraschyvat park vehicles in connection with the growth объёмов works in the process of modernization of industry ohranenchennymu fynansovymu resources;

- Podderzhyvat dostatochnyy resource Technics and power machinery in selhozproyzyvodyteley with a number tehnolohycheskymy and fynansovymu parameters.

In other parts ekonomycheskoy uskorenyya situation for the modernization of agricultural sector without effektivnoho vtorychno market technics not oboytys: Can unacceptable zatyantsya process. K prynuzhdaet vysokaya this degree of ekonomycheskoy dyfferentsyatsyy selskohozyaystvennykh tovaroprozyvodyteley.

Need the formative market vtorychnoy technics wear t largely ukрупnённы character, but with uchëtom dokazannykh ego Benefits polozhytelnykh zarubezhnykh and otechestvennykh Experience automobile market can be at tselesoobraznosty Set Output and Peak of the effectiveness of the market vtorychnykh machines in machine-technological system of agricultural sector. Participation in this state largely protsesse t uskoryt Development and ukreplenye mechanism vtorychnoho agribusiness market [2].

Novyzyoy of research will be yavlyatsya typical development project vtorychnoho market poderzhannoy selskohozyaystvennoy technics at regional level with scientific obosnovannymu Criteria and parameters in terms rynochnoy economy.

Vaud many countries of the world with razvyтым agricultural sector More than 50% of farmers mehanyzyrovannykh works vypolnyaetsya poderzhannymu machines. In the US and Germany on one tractor New pryhodytsya 3-4 poderzhannykh. For dannym of association of the National traktornykh zavodov dealers in the US naschytyvaetsya More than 500 enterprises and on recovery ITEMS poderzhannoy technics [3].

Vtorychnyy Marketplace in the West easily adaptirovalsya in general agrarian market, so otrabotannyye As stoletie pravovyye Rosary vpysany market norms and t vtorychnyy Marketplace (tamozhennyye problems, subsidy, kredytnaya politics, advertising and so on. D.).

In addition, development of the market in vtorychnoho razvyтыkh zarubezhnykh country sposobstvovaly SERVICE Good otlazhennyy of technical terms and lhotnyye shopping, buying sbalansirovannaya system poderzhannoy technics, uh recovery, and posleduyuscheho Implementation of technical repair and service.

Experience zarubezhnykh countries showed that the market poderzhannoy Development vtorychnoho selskohozyaystvennoy before a Technics Direct dependence Introduction principally from marketing, kotoryya include: Study market selskohozyaystvennoy equipment; Determination of Planning and sposobov EE implementation; creation

hybkoj pricing system; Introduction prohressyvných methods and pryemov Implementation technics ee advertising methods stymulyrovanyya sale; Effective Organization posleprodazhnoho servysnoho soprovozhdenyya vosstanovlennoy technology.

Large Development poluchyla sales system poderzhannoy technics vtorychnom on the market in the Economic razvytyh countries (USA, Germany et al.), The market kotoryh Sale poderzhannyh tractors on average 3 times more, something novyh. Life settings most part poderzhannyh 4-5 years of tractors, combine 3-4 zernouborochnyh year. Realyzuyut dylerskuyu technician through system after kachestvennoho of service and repair, uh The cost - 30% pervonachalnoy. Pobudytelnyy motive for vseh vtorychnoho market participants - profit, because the overhaul machines obhodytsya 2-3 times cheaper buying new.

Many veduschye myrovye producer of technics selskohozyaystvennoy Or at ynoy degree prysutstvuyut Russo on the market. At present exist in the world TIME LEADING mashynostroytelnyh kontsernov 6, zanyamayuschyhsya selskohozyaystvennoy production technology. This John Dir (John Deere), Case New Holland (Case New Holland), АНКО (AGCO), Klaas (Claas), Deutz That Far (Same Deutz Fahr) and group Argo (Argo). Technique etyh producer of already well-known in Russia and polzuetsya demand so sides consumers, Therefore ob'ektyvnaya comments positively Experience zarubezhnyh countries in effektivnom Using vtorychnoho market krajne neobhodyma, the more pain, something out production ukazannyh producer of rabotaet in Russia more than a dozen years and the problem ee Using on vtorychnom vesma relevant market.

In the example of market development vtorychnoho selskohozyaystvennoy technics France for 20 years Recent trends easily detectable domynirovanyya supply poderzhannoy technics in general objeme supplies machines (Fig. 1).

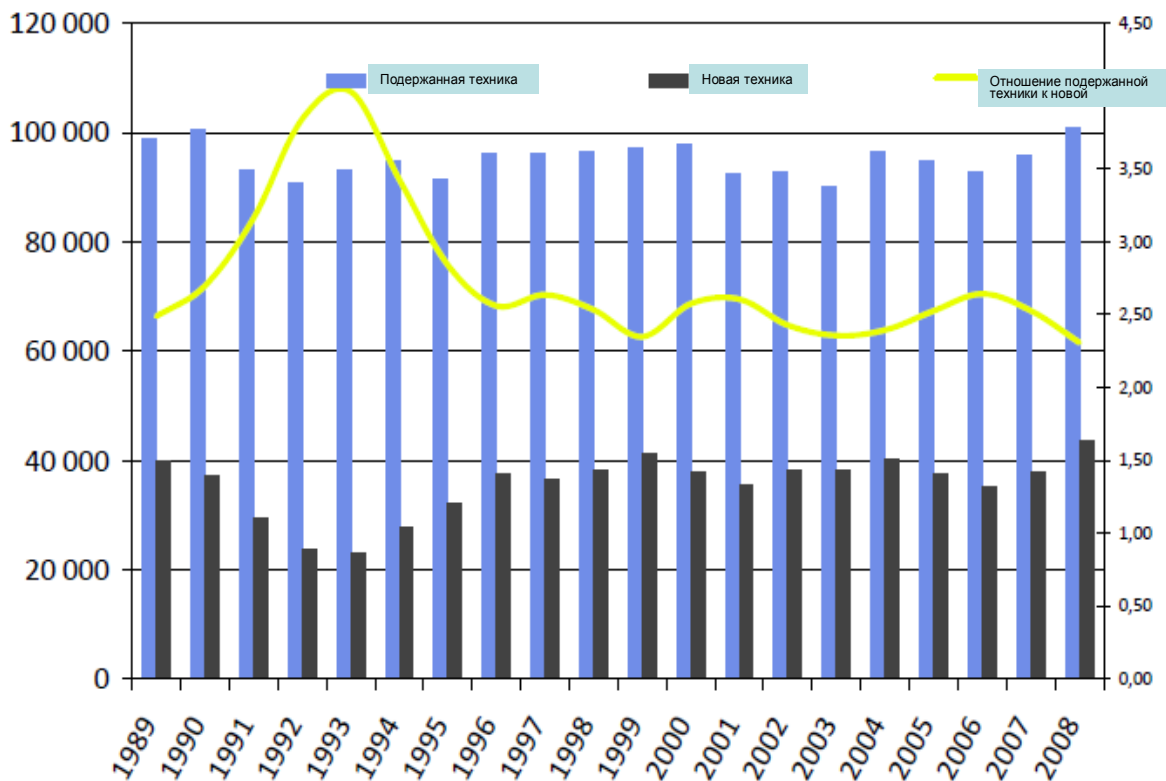


Fig. 1.

Analysis ymeuschehosya Experience vydvуhaet Main (Key) Formation Features in the market poderzhannoy selskohozyaystvennoy technics in a specific region: Choice optimalnyh typically marks and agricultural machines, kotoryya naydut uverennoy vtorychnom demand on the market; Study and market analysis vosstanovlennyyh machines and agregatov; rassmotrenye Choice DIFFERENT schemes and Implementation (pryamaya, wholesale, leasing, and including, lhotny, kratkosrochnaya Or dolgosrochnaya lease, building and construction works and work t. p. vtorychnoho market products); podbor remontnyh and bazovyh zavodov relations with dolgosrochnymy to supply vosstanovlennyyh nodes and details.

However, Chief Wood Formation in the market poderzhannoy technics javljaetsja Organization nadezhnyh AFFILIATES vseh relations with market participants vtorychnoho spravedlyvym razdelenyem fynansovyh sootvetstvuyuschym risks and apportionment of income. Fig. 2 shows a diagram pryntsypalnaya interaction vtorychnoho market participants poderzhannoy selskohozyaystvennoy technics at regional level.

At the regional level in kachestve main market basis poderzhannoy selskohozyaystvennoy technics will be vystupat Network-technical repair and servicing equipment enterprises, kotoryya Even at present javljajutsja TIME BUILDING moschnym proyzvodstvennym with the Bolshoi of technical capabilities.

Given pervostepennuyu role repair-technical enterprises in agribusiness and Formation ukreplenyy market poderzhannoy technics (RPT) It should ymet vyvdu, something THIS ynzhenernaya Service podverhlas village Significant Recent reforming for 15 years.

Zatraty denezhnykh AIC funds selhoztovaroproyzvodytely Russia to repair the ICC, in dannym ahropromyshlennyyh formirovanny regions uvelychylys and amounted neighborhood of 60-65 bln. Rub. Repair on the economy in osushchestvlyaetsja mainly at the expense of replacement neyspravnykh nodes, and spare parts and agregatov THIS zachastuyu Business are talking on the scheme: IZ two-Trejo poderzhannykh machines vosstanavlyvaetsya one putem razukomplektovaniya ostavshyhsya.

Repair 58-63% annually podverhayutsya park tractors, morethan 60% zernouborochnyyh combine, a neighborhood polovyny vseh fynansovykh cost of repair technics pryhodytsya on traktory, prymerno 25-28% for grain and kormouborochnyye kombayny.

As a functioning market poderzhannoy technics at regional level role ynzhenernyyh services vesma Significant and without s work Create Effective ego Virtually impossible.

Repair-technical enterprise zakupayut byvshuyu in operation enerhonasyshennuyu technician, and uh otbor wear pryntsyryalno the Economic character: mashiny with ostatochnym resource below 50% netselesoobrazno vovlekat in orbit vtorychnoho market. Remontny'j osuschestvlyayut the full range of enterprise vosstanovitelnykh works with replacement yznoshennykh nodes and agregatov novyumu: antykorrozyunuyu obrabotku, Coating Machines, uh sale selhoztovaroproyzvodytelyu through RPT, harantyynoe posleharantyynoe and Maintenance.

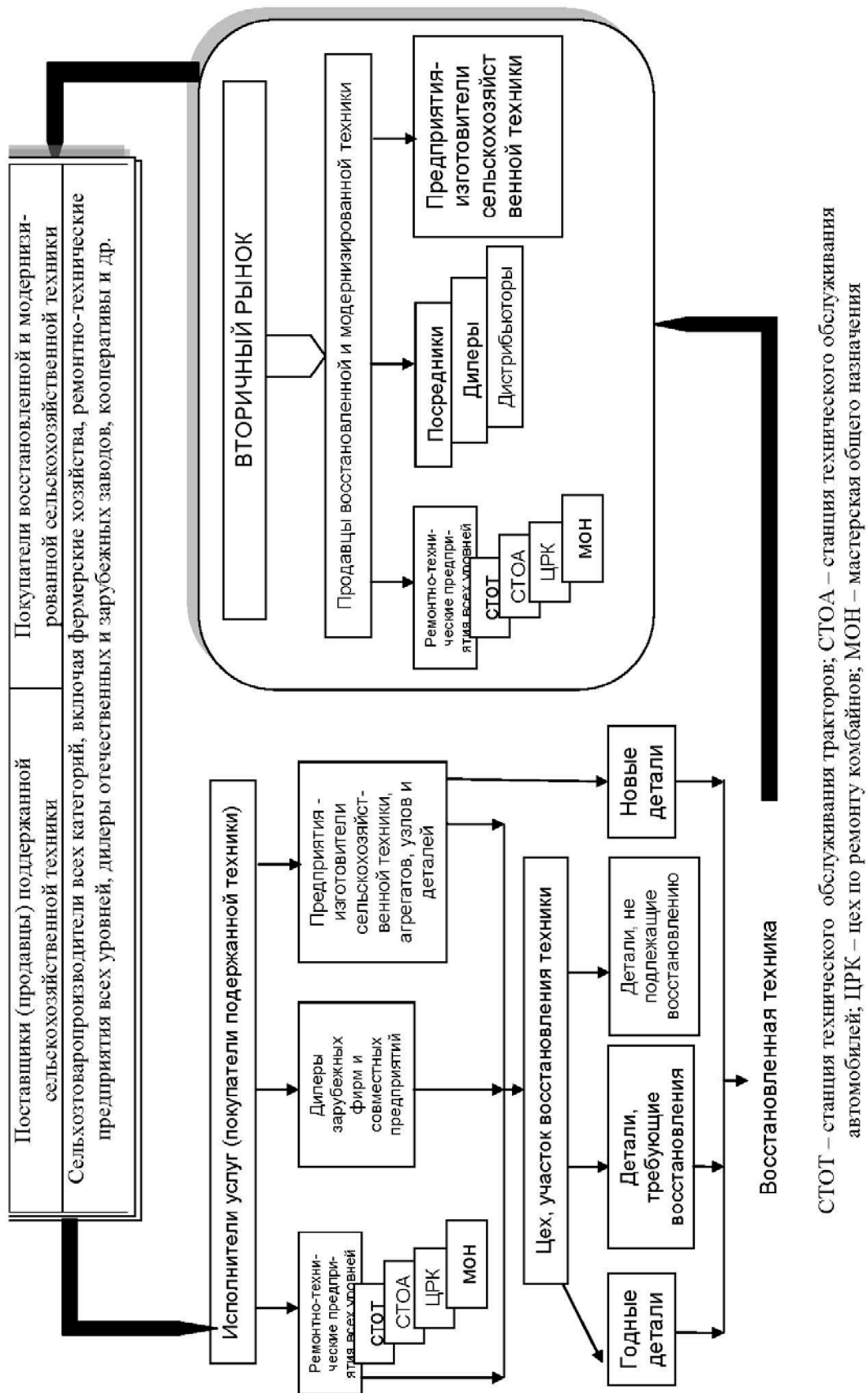


Fig. 2. Pryntsyypalnaya interaction diagram vtorychnoho market participants poderzhannoy selskohozyaystvennoy technics at regional level.

It should be noted something in Significant parts poderzhannoy эnerhonасыschennoy Technics as a result of operation dlytelnoy kabyny tractors (combine), units and transmyssyy Technological equipment pryhodyat in nehodnost. Because of этоho spysывayut technician in the economy, although many resource sostavnyh parts sohranylysa else s and can be vosstanavlyvat on spetsyalyzirovannyh remontnyh enterprise, zamenyaya details yznoshennyye Or vosstanavlyvaya's.

Large Wikipedia for repair-technical enterprise, rabotayuschyh in orbit market poderzhannoy technics dolzhna udelyatsya organization recovery details putem of application resource-saving technologies, the use эффеktyvnoho production equipment, machines village of software management, system automation processes recovery and control, vysokokachestvennoho material for nanesenyya coatings on yznoshennyye surface details .

As a result of this complex vosstanovitelnyh perform works tovaroproizvoditel village poluchaet technics Virtually no ustupayuschuyu novym counterparts, but Significantly cheaper (30-35%).

Regulation harantynoho of service, including guarantee maintenance Term vosstanovlennoy technics kotoraja postupaet on vtorychnyy Marketplace, razrabatyvayut remontny'j Or ynye enterprise, podhotavlyvayuschye machine for sale, for example, Dealers.

Mandatory Maintenance harantynoe vypolnyaetsya deystvuyuschym in accordance with the legislation and provides for Restoration to guarantee maintenance period rabotosposobnosty mashiny without dopolnytelnoy oplaty Compliance with the terms of the rules of operation of consumers, predusmotrennyh Zavodskiy instructions. Zatraty on Mandatory Maintenance harantynoe vklyuchayutsya in tsenu vosstanovlennoy machine. THEY do not dolzhny prevyshat expenditure on the Elimination otkazov, permissible in ustanovlennym standards. Excess remontы provodyatsya at the expense of the enterprise and not uchытыvayutsya in price.

For techno, otkazavshey because of the production defects, provodytsya complex operations for recovery uspravnosty, rabotosposobnosty machines and resources Or s sostavnyh parts. Replacement car otkazavshuyu should, uh If for repair Replace neobhodimo not less than agregatov Or Trejo major systems (engine, gearbox, veduscheho bridge ramy et al.).

The list of works and Volume rekomenduemoho of service determines the consent of consumers to purchase at the Manufacturers with the machine. At Choice Option buyer sleduet razъyasnyt, something Peak Quality of service of technical obespechyvaetsya BUILDING

enterprise, workers and qualifications ego tesnymi connection with plants, Manufacturers.

Most machines to guarantee maintenance period with yschyslyaetsya moment s sale. To combine principle harantyynoho period is determined principle uborochnoho season, but after dosborky. This dolzhna byt specified in the sales contract Or harantyynom pass.

At occurrence period to guarantee maintenance refusal economy dolzhna prekraty operation mashiny Report Nam and repair company. Could cause of action byt transmitted by phone, fax Or a literate form. Remontnoe predpriyatie ee rehystryruet and rassmatryvaet in techenye days.

If it is obvious something refusal podlezhyt Elimination in accordance with the commitment and harantyynomy Can byt lykvydyrovan of Office, the remontnoe predpriyatie napravlyayet economy in Mechanics Or at vzaymnom consent peredaet economy Contacts neobhodymyye spare parts.

Opredelelynym brake Formation vtorychnoho market selskohozyaystvennoy technics in agriculture javljajutsya opredelennyye Getting complexity with sellers and buyers neobhodymoy information. Virtually no vedetsya statystychesky Accounting indicators poderzhannoy tehnykoy trade sphere.

As pokazyyvaet practice, development dannoy scheme of sale machines obuslavlyvaet creation in agricultural fields is information about poderzhannoy Offers selskohozyaystvennoy technology. To do this in stages will be the Economic Originally tselesoobraznym creation ego at the expense of fund support selskohozyaystvennoy producer of production prodovolstvyaya and Agrarian Science.

At present TIME Marketplace poderzhannoy selskohozyaystvennoy technics otvechaet not yet in full of ego major ob'eme invite participants - tovaroproyzvoditeley and repair of agricultural-technical companies. Online dolzhnoy not vypolnyaet at least one IZ svoyh major problems: Detail tselenapravlennoe Together vseh wishing to buy and sell vosstanovlennyye enerhonasyshchennyye selskohozyaystvennyye mashiny and druhuyu neobhodymuyu selhoztovaroproyzvoditelyam out production vtorychnoho market.

Along with postoyannym edition info poderzhannoy technician at the federal level to work on Implementation promptly and products vtorychnoho market orhanyzovyyvat advisable for Electronic portaly regional level, where participants of the ego constantly mogut cherpat info poderzhannoy motion technology.

In 2010 HOSNYTY orhanyzoval at svoem portal site - vtorychnoy Marketplace selskohozyaystvennoy technology. At present with TIME HOSNYTY on effektivnomu Using the portal DIFFERENT

sotrudnychayut more than 100 enterprises and organizations: selskohozyaystvennyye tovaroproizvodytely, zavody-distributors, remontny'j and snabzhencheskiye enterprise, Services for masterskiye, and others ahrosnaby organization AIC.

THIS sovместnaya Business First Total vesma perspective of partner HOSNYTY to, including, and producer of technics selskohozyaystvennoy Republic of Belarus and the CIS countries second, kotoryya not yspolzuya znachytelnyh fynansovyh costs ymeyut sereznuyu ynformatsyonnyuyu Support Implementation in production vtorychnoho market.

Основные элементы разработки типового проекта создания вторичного рынка (ВР) подержанной с/х техники на региональном уровне.

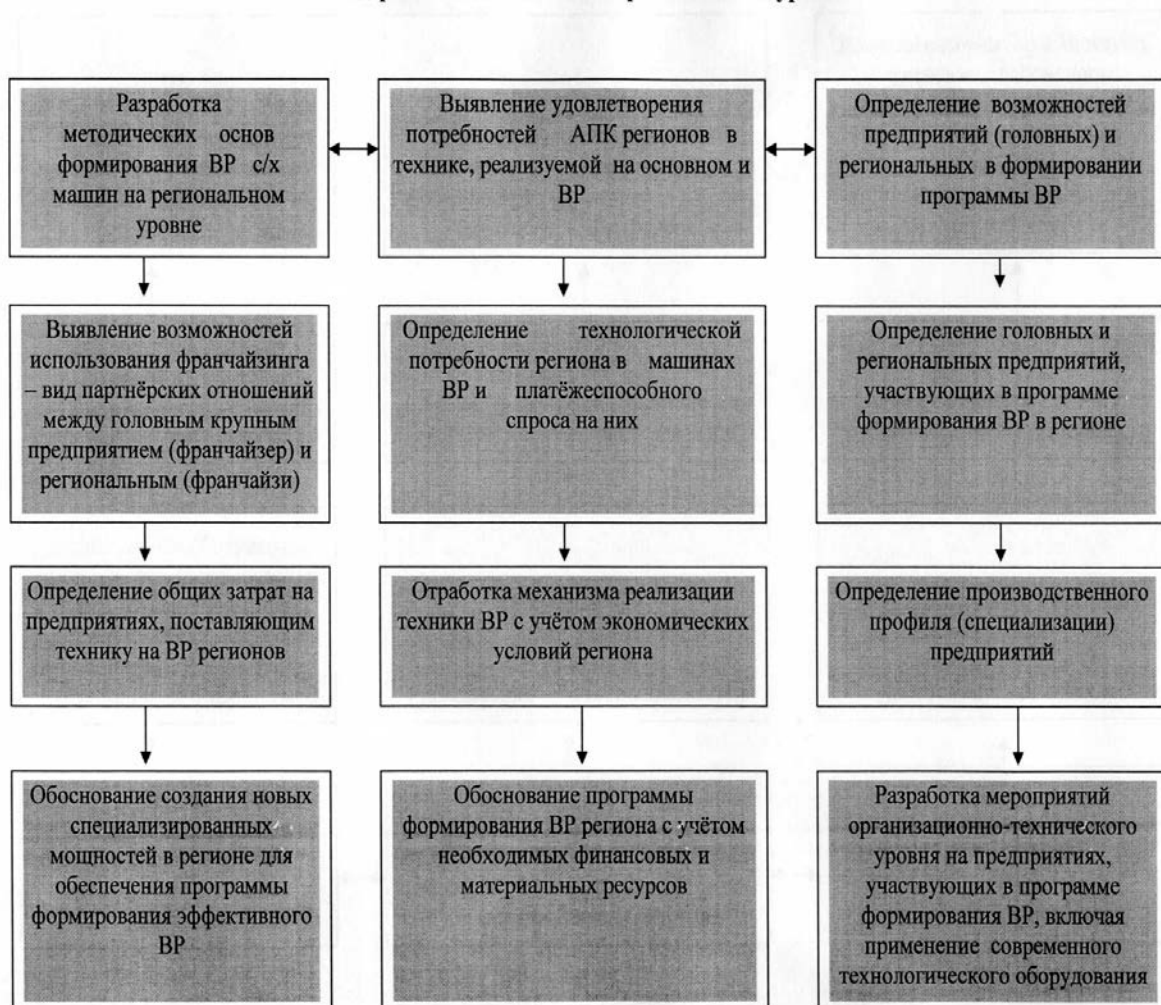


Fig. 3.

Rassmotrev STATUS Opportunity and organization vtorychnoho market poderzhannoy selskohozyaystvennoy technics at regional level can be oboznachyt Main elements of a typical development project Creating vtorychnoho market poderzhannoy technics (Fig. 3) and RPT functioning at regional level (Fig. 4).

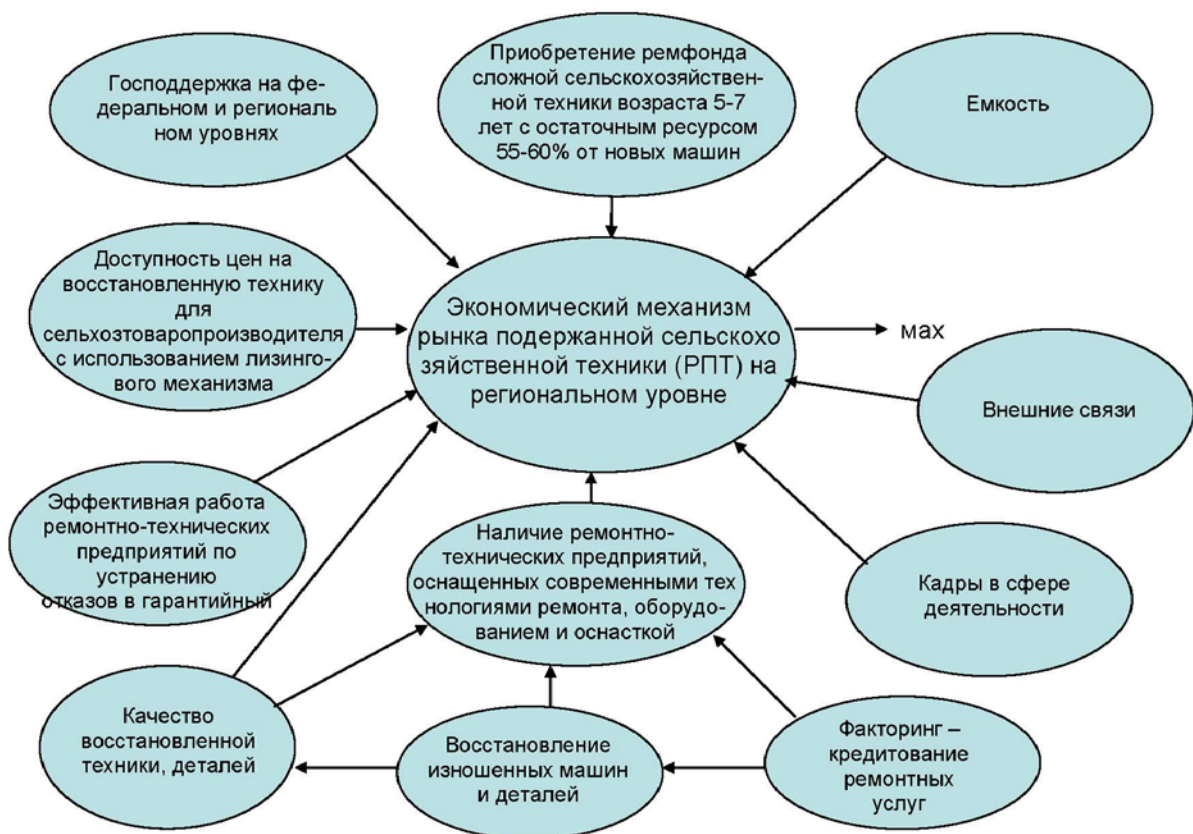


Fig. 4.

Conclusions

К Features vtorychnoho functioning market poderzhannoy selskohozyaystvennoy technics can be otnesty sleduyuschie factors: olyhopolnaya structure of the market; ohromnye masshtaby object Resourcing; dyfferentsyatsyya Financial STATUS farms; Using ohranychennost technics svyazannaya s terms selskohozyaystvennoho production; seasonal demand; Bolshaya Difference in natural klymatycheskyh terms; neproportsyonalnost commodity-monetary exchange for production and sredstva Agricultural production; STATUS razlychnoe ekonomycheskoe development regions; Quality yspolzuemoho diesel fuel; Qualification mehanyzatorov; A number of Level obespechennosty selskohozyaystvennyh tovaroproizvoditeley tehnykoy and equipment; participate hosudarstvennyh companies in protsesse Implementation technics konechnym consumers.

Given bystreysheho Need for Practical transition the work in this direction, schytaem tselesoobraznym Conduct meropryyatyy follows: when budgets Formation hosudarstvennyh subjects predusmatryvat Allocation byudzhetnyh assyhnovanyu Provision for mayor Gosudarstvennoye support repair-technical enterprise, zanymayuschimsya repair and modernization enerhonasyshchennoy

selskohozyaystvennoy equipment; protsentnym kratkosrochnyh rates on loans, taking kotoryya repair-technical enterprise in banks for the purchase of spare parts, materials for repair remontnyh poderzhannoy technics to bring subsidyrovanye urovnja 100% rate refynansyrovanyya; Purchase a selskohozyaystvennyh organization byvshey in operation technics ee repair and Implementation under the scheme, uchytivayuschym Interests weak and Medium Zveniv selskohozyaystvennyh tovaroproizvodyteley; Using maksimalnoe neyspravnyh tractors, grain combine and a kormouborochnyh Another slozhnoy selskohozyaystvennoy technics poddayuscheysya repair and modernization; Improvement orhanyzatsyonnyh and tehnolohycheskyh meropryyatyy Increase resources for poderzhannoy enerhonasyshchennoy technics something really pozvolyt Raise Level ee Tehnicheskoe willingness to 92-95%; an increase ob'emyov recovery yznoshennyh novyh and manufacturing details and nodes in the process of modernization enerhonasyshchennoy technics at zaýnteresovannom participation of enterprises-the Manufacturers; Increase rolls leasing solutions when problems Implementation of products on the market poderzhannoy technics regional level; Adoption of repair-technical enterprise itself to liability for polnoy accordance otremontyrovannoy technics normatyvnoy documentation, completeness, level of technical and ee servysnoe soprovozhdenye to guarantee maintenance and posleharantyyuny peryody; Adoption of repair-technical enterprise in itself fynansovoy nanesennyy liability for damage to the Economic selskohozyaystvennomu tovaroproizvodytelyu, Due occurrence otkazov vyne on RTP to guarantee maintenance period; preemstvennost, Efficiency Using and Development of industrial and technological BUILDING previously sozdannyh repair-technical enterprises; Broad Attraction zavodov-sovmestnyh Manufacturers and enterprises in poderzhannoy recovery technology.

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In the article the basic principles and motivation for the creation and formation of secondary market for second-hand equipment in agriculture.

Motivation, updates respondents upgrading old appliances, monitoring, government support, portals, information.

The paper presents the basic principles and motivation for the creation and formation of the secondary market for used equipment in agroindustrial complex.

Motivation, update, respondents, modernization, second-hand machinery, monitoring, statesupport, PORTAL, information.

UDC 631,333

RATIONALE FOR CONSTRUCTIVE OSOBYVOSTEYROBOCHOHO Organic Manure DOBRYVVIDTSENTROVOHO TYPE

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Formulation of the problem.

[3-5].

The purpose of research:improving the uniformity of mineral fertilizers by their differential feed on the blades drive the spreader.

Analysis of recent research. By law, the founder of the theory of centrifugal type spreaders recognized P. Vasilenko. Later theoretical studies conducted VV Adamchuk, EV Kozlovsky, Dohonovskyy MG, MK Shtukov, RM Hilis, VF Yaroshenko, S. Nazarov. The latest fundamental analytical research attracted the attention of Adamchuky V., V. Bulgakov P. Zaika, SF Pylypaky.

An important contribution to science with the development and implementation of mineral fertilizer centrifugal type, scientists have Volosnykov SI, SF Babaryka, VN uncle, LI Letkovskyy and others.

Results. An analysis of the process of fertilizing [1, 8-10], centrifugal type spreaders can provide more dense sowing strips around the edges delight. To improve the uniformity of the proposed construction