Andrei E. Shastitko, Vitali L.

Soft Budget Constraints: Political Artefact or Economic Phenomenon?
Andrei E. Shastitko, Vitali L. Tambovtsev

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*This paper is prepared on the basis of the project “Decision Making Centralization and Financial Discipline Influence on the Restructuring and Competitiveness of Russian Industrial Producers”, conducted by: Bureau of Economic Analysis, Moscow, 2000.
**Introduction**

Soft budget constraints (SBC) mean such conditions of the firm performance, interaction with rivals and partners under which firm’s survival doesn’t depend on efficiency of resources utilization. J. Kornai was the first one who has introduced SBC notion especially for centrally planned economies. It was revealed, however, that dynamics of SBC demonstrated weak dependency on government ideology and economic policy as it might be seen at first glance. It means that SBC has deeper raison d’etre. The problem to be resolved is the following: whether these phenomena are consequences of only political (subjective) reasons or it is conditioned by the general economic and organizational factors which determine current political decisions of federal and regional authorities massively bailing-out enterprises with financial losses and without necessary restructuring. This point is important to seek for answers on basic questions of political economy of reforms: its scope, speed, irreversibility, compensations from winners to losers and credibility of commitments on compensations.

Generalization of three basic models (Dewatripont-Maskin, Che and Mitchell), explaining SBC emergence and persistence in transitory and market economies is suggested. The basic idea is following: default of liabilities within short (simple) contract forgiving by suffered party is only the moment of wider contract implementation. Latter contract is more complex and long-term. Conditions of wider contract envisage reneging from terms of partial “sub-contracts” which might be compensated by future transactions involving interested parties as an implementation of embracing contract. For testing of hypothesis on SBC answers of Russian enterprises managers (Russian Economic Barometer panel) have been analyzed. Available data support the contractual model of SBC.

Section 1 is devoted to discussions of the available theoretical SBC models with some political implications, Section 2 gives a generalized definition of soft budget constraints in the context of the New Institutional Economics approach based on ideas of institutional market and more narrowly – political market. The SBC are interpreted as a relational contract concluded by agents under weak competitive environment when it’s infringement in some cases are economically sound as against to break the long-term contract or apply sanction to a violator. Following from this theoretical model the hypotheses are formulated and tested in the Section 3. And last but not least, some mostly important conclusions on political perspectives of SBC future are suggested.

**1. The Phenomenon of Soft Budget Constraints and it’s Explanation**

The concept of “soft budget constraints” (SBC) was introduced by J. Kornai over 20 years ago [Kornai, 1980]. In the initial definition he interpreted SBC as recurrent actions of subjects, peculiar rules of behavior.

Explicit formulation of this phenomenon as a set of behavioral rules for enterprises, the state in the person of the authorities, credit institutions and foreign investors
under the centrally planned economy may be treated as: to go on financing enterprise’s activity even in the cases when it violates the fixed parameters of budget and if these violations may be referred to desire (intention) to increase production output.

This rule was logically revealed on the base of observed behavioral actions of the mentioned subjects, and it’s of course informal by nature.1

It should be emphasized that under such conditions every agent was guided by “common” criteria of economic rationality acting as not to be subjected to informal (but on occasion to formal, for example, removal from the current position) sanctions from one of the parties for efforts to tighten budget constraints. Adherence to the SBC rules was encouraged in the different forms – from the premiums for disbursement of financial resources for investing to awards in promoting to new appointments. In other words, institutional environment, political constraints were in favor of SBC as existing everywhere phenomenon.

So the initial SBC definition by J.Kornai denotes one of the centrally planned economy institutions and has uneconomic (unless – ant economic) character. Nevertheless, it didn’t hinder the subjects to make rational decisions, but under irrational constraints. As analysis implemented in his book “Deficit” has shown the aim to “ideological” perfection was the base of growing deficit accompanied by ineffective allocation of resources that in it’s turn led to collapse of socialist economy. In terms of Economics of ideology consequences of SBC were price which has been paid for adherence of particular ideological principles.

Meanwhile, the literature survey of the last years shows that the issues of SBC are not subject the economic history only because this phenomenon is also widely spread in the market economy. For instance, in the number of countries the state supported major state-owned enterprises in the case of their insolvency [Maskin and Xu, 1999]; that the Asian crises of 1998 was interpreted as the consequence of SBC [Huang, Xu, 1999]; besides the prevalence of non-money settlements with negative impact on economic growth in the Russian transition economy was interpreted as well by SBC [Pinto, Drebentsov, Morozov, 2000], and so on.

The number of in-depth studies was carried out in the arena of SBC consequences research. So, from the point of SBC existence there were suggested explanations of firms’ boundaries impact on efficiency of R&D [Huang and Xu, 1998]; it was shown that SBC may appear owing to centralization of capital thereby adversely influencing selection of commercial projects [Bai and Wang, 1998]; it was demonstrated that under SBC information generated by free market aggravates decision-making process [Faure-Grimaud, 1996]; it was grounded negative impact of SBC on innovation processes [Quian and Xu, 1998] and etc. (see review of studies in [Maskin and Xu, 1999]).

Insofar ideological grounds for SBC existence under the centrally planned economy in all the above-mentioned cases were excluded then there have been set a task to explain SBC proceeding from other grounds. At the same time there are questions: do political reasons contribute to persistence of SBC in market and emerging market economies?; how political constraints influence on characteristics of budget constraints?.

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1 The official documents of the centrally planned economy period are full of slogans for strengthening financial discipline, overcoming “diffusion of investments” and etc.
The preliminary condition for explanation of the situation when the sufferers condone violations of some liabilities to violators is more precise definition of SBC in the terms of neoclassical economic theory. The fact is that the initial institutional definition of the SBC given by J. Kornai doesn’t to be in harmony with the theoretical paradigm of the mainstream economics [Ambrus-Lakatos, 1997, p.2].

Besides that if SBC exert negative influence on creation of value then their tightness is a common normative recommendation. Under such circumstances the questions of what SBC are, what is the cause of their appearance, what is the consequence and what is the form of manifestation. Appropriate recommendations will explicitly depend upon the answers on these questions. Ignoring of details leads to oversimplifications as regards conclusions and recommendations. In its turn oversimplifications means underestimation of transformation cost, in particular, and cost of reform, in general.

From this point of view we’ll consider the main wording in the SBC definition. Primarily SBC should be interpreted in the context of the problem financial commitment credibility: financial commitments reflect inability of a rational actor to protect original budget against alterations approved as a result of re-negotiations after it’s passed [Maskin and Xu, 1999, p.3]. The similar approach was realized under consideration and modeling the another phenomenon intrinsic in central planning – ratchet effect [Freixas, Gusnerie and Tirole, 1985]. As it’s known the essence of the last consists in that the planner isn’t able to credibly promise not to increase the plan output if he’s well aware of the real enterprise potential. For this reason enterprises enjoy incentives to conceal and distort information for the purpose of capacity underestatement that in the end leads to squandering resources [Milgrom, Roberts, 1992, pp. 233-236].

Such characteristic of the SBC phenomenon originally fixed in the form of verbal description of institution solved the problem associated with its inclusion in the modern economic theory though the definition of SBC isn’t formulated yet. To explain SBC from this point of view implies to give an answer on the question what are the reasons of such inability.

L. Ambrus-Lakatos put forward a proposition to interpret SBC as a firm’s ability to survive despite significant and regular losses [Ambrus-Lakatos, 1997, p.6]. In other words if a firm is involved in transactions and it is able, bearing significant and/or regular losses, to make environment act in its favor, i.e. environment (various types of actors with special interests) doesn’t want or cannot liquidate it then it might be said that this firm is surviving. Thereby the SBC problem comes to the answer on the question: Why don’t the firm-partners having claims interfere in its activity, strive to meet claims through liquidation of this firm or its sale? The general answer on this question is apparent: they both (1) cannot, or (2) don’t want to meet claims.

If the first situation is in place then it means that “injured” party is only in power to voluntarily reconcile conditions on base thereof it cooperate with the firm (despite default), and cooperation itself is business commercial relations by nature, i.e. bargaining transaction by J. Commons [Commons J.R., 1931, 1950]. To explain SBC in this case means to give an answer on the question why does the “suffered” party refrain from actions, which might be launched by the third party, on forcing to pay liabilities?

If the second situation is in place then it means that “suffered” party is in power to enforce the firm to meet its commitments, and cooperation between them is of partial submission, i.e. management transaction by J. Commons. To explain SBC in
this case means to answer on the question why does the “suffered” party refrain from actions on forcing to pay commitments, i.e. to legally employ violation capacity. For the purposes of L. Ambrus-Lakatos explanations in both cases are founded on firm’s management behavior in particular circumstances named *entrenchment* [Shleifer, Vishny, 1988].

The most well-known interpretation of the SBC phenomenon is a model of M. Dewatripont and E. Maskin (hereinafter – DM model), which treats the SBC phenomenon as a consequence of financing centralization inasmuch only in the frameworks of decentralized crediting financial commitments are made from the side of the banking system not to credit “slow” (ineffective) projects [Dewatripont, Maskin, 1995].

DM model interpreted SBC appearance through credit centralization (broader – any resource of crediting firms) is related to the second type of SBC interpretations indicating the reasons why are defaults *seldom* condoned. Such explanation is in compliance with J. Kornai opinion consisted in that there is a likelihood of *ex post* negotiation on subsidies, taxes, credits and the like [Kornai, 1998]. This model also expresses the idea that the SBC phenomenon springs up because of planner’s inability in the frameworks of the centralized system to truthfully promise not to interfere with firm’s activity since the plans are approved. The model reveals the reason of such inability – the centralized system of financing itself.

In the light of the above-said we’ll show the other description of the situation considered within DM model. Referred the above we mention the conception of cooperation between the centralized facilities and entrepreneur as a game. Let a bank examines two strategies – to finance the project (F) or not to finance (NF) on the one hand, and the entrepreneur on the other hand who can offer the bank to finance the “fast” project (F) given a probability $p$ or the “slow” one (S) with a probability $(1-p)$ (see Figure 1).

The pay-off matrix of the first variant of this game is a DM model simplification means that in the case of financing the “fast” project throughout one year the entrepreneur will gain a benefit $E_c$ while the bank a benefit equaled to 1. In the case when the project is “slow” one the benefits are equaled to $2E_c$ and 0, respectively, insofar the revenue derived from the “slow” project only compensate the bank costs (here we disengage from the discount issues of costs and revenues).

### Variant 1

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### Variant 2

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<td><strong>Entrepreneur</strong></td>
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<td>S $(1-p)$</td>
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**Figure. 1. Variants of cooperation between bank and entrepreneur.**
If the bank opts for a strategy F its expected average payoff for two periods will be equaled to \(1 \times p + 0 \times (1 - p) = p\) otherwise (in the case of the strategy NF) the payoff will be 0. Apparently if in the above situation there is at least one “fast” project it will be credited, i.e. \(p > 0\), the bank will always make a decision about crediting entrepreneur.

In the case of the “slow” project the bank’s payoff will be \(-1\) (the second variant), i.e. the bank bears net loss and expected average pay-off of the F-strategy \(1 \times p + (-1) \times (1 - p) = 2p - 1\), that exceeds 0 (guaranteed pay-off in the case of NF-strategy) only if \(p > 0.5\). Obviously if the loss of the bank will be over modulus 2, the bank will never adhere to the F-strategy so \(p\) cannot exceed 1.

So far our analysis in essence coincide with Dewatripont and Maskin one. Exactly as we fix a probability \(p\), which isn’t known to the bank, that the project will be “fast” (profitable). However the further course of reasoning may be fancied differently in respect to the considered model.

As it’s imagined the other line of reasoning may be constructed proceeding from whether the bank has a possibility not to play in the described game, where there are so many unknown variables. If there is such a possibility (for example, along with financing the proposed projects the bank may enter the currency market where the required information for making relevant decisions is available) then under unknown \(p\) it will be more reasonable not to credit the entrepreneur’s projects at all.\(^2\) It should be stressed that the given bank’s behavior is independent whether there is one bank in the economy (centralized financing) or some thereof (decentralized financing). It’s only important that a bank face the participation constraint on dealing with such entrepreneur.

If the bank – one or some of them – has no alternative ways to invest available resources except investing in projects of inadequate quality then in the decentralized situation action series appear mentioned by Dewatripont and Maskin (monitoring and the like), in the decentralized one there is crediting investment projects cause there are no other ways to use bank resources.

So SBC springs up in the DM model for the reason that bank has no other ways to use resources except investing them in submitted projects rather than crediting is centralized.

But if some banks have no other possibilities except investment ones then their behavior won’t be distinguishable from monopoly state-owned bank behavior exclusive of resources earmarked for monitoring with the purpose of estimation probability \(p\) for different types of the projects, revealing observable features typical for “fast” projects and the like, while a share of entrepreneurs’ funds will be spent on signaling to banks about high profitability of their projects.

In other words the reason of SBC appearance primarily relates not to centralized financing but unavailability of other alternative ways to command banks’ funds. It’s not difficult to note that such situation is typical for the centrally planned economy irrespective of quantity of banks: they are to perform their function not having a chance to mobilize resources at their disposal in different spheres (particularly, in the exchange market).

\(^2\) As it’s seen namely this phenomenon has been observable in the Russian economy throughout nineties.
Admitted advantages of the decentralized system in regard to crediting enterprises as a vehicle to provide for high efficiency of used resources via enhancement of reliability of promises in relation to penalize violators were challenged by J. Che [Che, 2000].

The core of his model may be presented as follows. The are two types of enterprises in the economy: “good” (profitable) and “bad” (unprofitable). The latter divides into two subclasses: “frankly bad” those not to be able to operate without loss for one or the other reason (for instance, technological ones), and “opportunistic” those having a chance to be lucrative after restructuring implementation (this incurs certain costs from their side), however they are remained of their own opinion – not to transform the working process. If all these classes are quite comparable within the number of enterprises and their shares then the similar structure may be reputed as characteristic for many countries with economy in transition and this premise is important for the further discussions.

Imagine that there is a sole bank centrally crediting all the enterprises. Its performance with profitable banks doesn’t bear any distinguished feature as compared with conditions in the decentralized system unlike cooperation with “frankly bad” and “opportunistic” enterprises. The author proves that in the given conditions the bank has to credit such enterprises, in other words to provide them for SBC, otherwise macroeconomic stability will be unbalanced, and it may do it so inasmuch owing its size the bank can internalize pecuniary externality arising as a result of activities produced by array of all the enterprises during supporting stability. Although such bank behavior undermines incentives associated with enhancement of efficiency of every enterprise, first of all “opportunistic” ones, it keeps these incentives for “good” firms, which would lose them under instability circumstances.

Creation of completely decentralized financial system in economy similar to described one will lead the situation when the “bad” enterprises will be liquidated thereby engendered macroeconomic as well as social-political instability taking the shape of economic collapse. In fact, continuation of “bad” enterprises financing is the price of macroeconomic stability as a precondition of widening of temporal horizon of decision-making which requires strong political power.

3 There is interesting observation of negative correlation between strength of executive authorities and progress of reforms [Roland J., 2001, p.22]

4 In the light of this it should be stressed that market entry and exit barriers are crucial when the conclusions of this model are applied to the real economy. As it’s well-known in Russia the both types of barriers are wide so the given prerequisite isn’t an impediment under its use to the explanation of domestic economy dynamics.
commitments at the expense of holding up prices for its product line. Besides that market competitive capacity may be appeared in other forms softening its budget constraints: primarily tractability of the partners in the context of sanction non-application against such a firm, great impact on local authorities in respect to granting different forms of privileges and the like. Thus, soft-budget constraints under weakly competitive environment is closely related to strong incentives for rent-seeking behavior of managers. And as its consequence – capture of the state. That is why weak competitive environment creates additional costs for hardening of budget constraints under process of transformation of the economic system as a whole and restructuring of particular enterprises. That is why one of most popular articles of the federal law “On competition and deterrence of monopolistic activity on commodity markets” in the sense of implementation is article number 7 devoted to the problem of combination of economic activity and functions of executive power.

2. Soft Budget Constraints as a Relational Contract

If we generalize the above interpretations then it might be noted that they are reduced to the one: SBC are the mode of behavior of actors cooperating within explicit or implicit contract when non-redeeming of promises from the one party doesn’t bring about sanction from the other party; on the contrary the latter party carry on to collaborate with violator, furnishing resources not payable on demand. Let’s consider this generalized definition of the SBC in details.

It should primarily paid attention to the fact that such way of behavior is of frequent occurrence among majority of private contractors not being centralized facilities of crediting for enterprises. For instance, a number of subsidies are in the Russian economy are granted not only from (1) federal and regional authorities (2) monopolies such as RAO EES (State Electricity Utilities Company) or Gazprom but also from (3) firms-contractors and (4) own employees resigning to wage loopholes as well [Pinto, Drebentsov, Morozov, 2000].

If the resources of crediting such as are reminiscences the centralized facilities, debt writing-off from the side of the third credit resource may be partly interpreted that they serve de facto as a link (transfer channel) of centralized subsidies [Vyplosh, Ivanova, 1998, p.8-9], while the grounds for such behavior from the forth crediting resource are not to be explained by the factor of centralization. Proceeding from DM model anyone can expect that an enterprises itself being a centralized financial resource for own employees will soft budget constraints for them however in practice the reverse is the case.

Hence the factor of centralization serving as the basis for SBC both in microeconomic DM model and macroeconomic model by J. Che is an attendant feature of others deepen reasons for condoning inappropriate behavior of one party by the other within contractual relations.

Generally the reasons why contracts aren’t stern enforced to be perform are considered in economic theory of contracts [Williamson, 1975], [Klein, Crawford and Alchian, 1978], [Grout, 1984]. From this point stringent enforcement provides of contract performance encourages sellers (producers) to make investment in specific assets within the contract. In question if producer isn’t sure that order
requiring extra resources, which might be assigned for others products, will be paid
then producer is keen to minimize this kind of costs unless repudiation to pay extra
costs is in place. As a result this output may be produced if it isn’t paid in advance.

Nevertheless, potential of contracts enforcement is constrained by its imperfection
(incompleteness). Incompleteness of the contracts may be distributed into four
reasons. Firstly, costs of imperfect language when sense comprised in the contract is
distorted and assumes different interpretations. Secondly, prohibitively high costs of
making a complete contract connected with high costs of search needed information
and bounded rationality of contracting subjects. Thirdly, it’s too costly to identify
terms of contract in court or another authority. In particular if one of the parties must
spare no efforts to perform a contract and this is stipulated in it then this term isn’t to
be seen except this part itself. As a result there is no force to perform this term.
Fourthly, the party can deliberately conclude incomplete contracts. In doing so they
expect that consequences of such incompleteness won’t seriously harm them.

Grounds for such expectations are primarily rested upon a possibility to revise a
contract, i.e. in fact signing of relational rather than classical or neoclassical
contracts [Williamson, 1985].

Owing to the above-mentioned reasons one can assert that weak enforcement of
contract performance isn’t exception quite the contrary it’s a common manifestation.
Accordingly SBC of a firm are typical as well and legal action in respect to contract
breaker is exception to the rule.

*De facto* in the frameworks of the Civil Law delay in payments within three months
is allowed. Data confirms that turnover of inter-firms overdue non-payments in the
countries with emerging markets are compareable with analogous figures in the
countries with free markets [Schaffer, 1998]. In other words existence of really soft
budget constraints may be only testified by the fact of condoning violation of
contract terms out of the bounds of delay related to their performance under the law.

Another conclusion of expounded contract treatment should be mentioned as well:
bail-out of one contract violation may be regarded as a decision made within
proceeding implementation of the overall and long-term contract covering the
broken one (in fact neoclassical) contract. In other words the fact itself that the
“suffered” party hasn’t recourse to the law and goes on to cooperate to the violator
means instead of external state controlling a contract the “suffered” party puts in
operation internal mechanism of such governance identical to the nature of relational
contracts.

Additionally, this kind of institutional arrangements might be considered as a
consequence of particular features of institutional environment both on federal and on
regional levels.

Insofar such relational contract characterizing long-term inter-firm relations is in
nature of informal or implicit one its precise performance may be regarded on the
part of neutral observer as a “unexplainable” bail-out sporadic violations of
contractual terms by the “suffered” party. Thereby realizing the nature of SBC on
the base of observance for occasional contracts are thought *limited*.

Others arguments in favor of relational nature of those contracts where bail-outs
some obligations by the “suffered” party is a common case are brought by another
phenomenon as industrial network.
As a matter of fact cooperation of enterprises inside of industrial network conditioned by recurrent cooperation of its members gives all the grounds to interpret occasional violations of terms as certain rules of game where the current losses are compensated at the expense of future interactions [Powell, 1990]. If these violations are systemic and not compensated then breaker isn’t only removed from network (informal sanction) but made be a bankrupt as well. At the same time during period of network membership it’s easy to see that budget constraints are soft. Inasmuch concept of industrial network doesn’t assume existence of the central element regulating behavior of the other members of this informal organization [Forsgren at al., 1995] then SBC phenomenon is in place though the central source of crediting is absent.

In particular, it was above-mentioned the study expounding that SBC adversely influence innovational activity of enterprises [Quian and Xu, 1998] so it’s expected deterioration of innovational process quality. However, in accordance with an alternative theory business-groups can be served as organization facilitating modernization processes when access to the financial market is limited [Kali, 2000]. Moreover, this concept is justified for empirical data inherent for economies in transition.

In connection with discussions and grounds of contractual nature of SBC attention should be drawn to one moment, namely, the nature of subjects of such a contract. Besides existence of this phenomenon in relations between firms all-round and permanent formal violation (and bailing-out of such violations) of budget constraints happens inside of a firm as well the structure of which includes centers of costs and centers of profits.

It’s important to emphasize for example that both centers of costs and centers of profits inside of holding structure may be incorporated. In this case the formers if we consider as incorporated enterprises (firms) will enjoy SBC bearing (because of certain intra-holding transfer prices) long-dated losses compensated by subsidies from either head company or centers of profit.

Important for our discussion the fact that incorporated centers of profit and costs one of them are formally ineffective “legal” firms positively influence use of resources and value creation within comprehensive firm on the whole. Thereby realization of requirements to harden budget constraints for formally independent enterprises, in essence acting as centers of costs in one formal or informal “big” firm will come to negative economic outcomes from the point of value creation.

Following strict logical definiton of SBC as specific relational contract its subjects are to be “real” or economic firms rather than firms – legal entities. Along with this such precise definition of SBC can make it non-operationalized. In question to determine the bounds of the firm is difficult theoretical (as well as practical) task. Distinguished features are appeared when mentioned phenomenon of industrial network, co-existence and over-lapping of formal and informal business-groups are introduced.

As it’s seen the definition of economic firm may be operationalized on the base of contract approach. In effect nowadays that’s publicly admitted that any (voluntarily established) organization has a contract nature: its grounds rest on long-term
agreement between participants about their cooperation (including use of a wide range of resources) in order to hit the aims [Cheng, 1970].

From our point of view the reversed is correct as well: “any contract under stage of its implementation forms concerned organization. Presence of parties or contractors and their assets in respect to proper use thereof and mutual obligations the contract is concluded, i.e. distribution of roles or functions between them in the course of joint activities then the full range of organizational signs is in place. There is only one thing not intrinsic in voluntary contract – quite significant length and stability of existence of different systems of subjects and their resources originated by it. Therefore we can insist that most of contracts beginning with those that concerns buying-selling cause appearance and liquidation of ‘virtual’ organizations” [Tambovtsev, 1996, c. 152].

In other words market is traditionally opposed organizations may be presented as aggregate of establishing and at the same moment liquidating – virtual – organizations acting as “links” or “channels” as perform exchange of resources between sustainable “bunches” of long-term contracts – i.e. firms. In this aspect Herbert Simon approach [Simon, 1991] suggested to talk about not market economy but organizational one doesn’t withdraw a contradistinction between market and firm. “Green spots” of firms and “red” market links between them are not only of different colors but also has another nature of functioning in his opinion.

So if we logically follow definitions of the contract concepts it’s too hard to draw a bright line between market and organization, market and firm: they are corner points on the rather long scale covering different forms of subject and resources cooperation in either event oriented to meet needs of one or another consumer. Along with this in practice the distinctions between market economies and economies so called “united factory”, firm and free market are clearly drawn. It implies that there are thresholds, which in combination with others features reveal called empirically identified phenomena.

In our opinion character (or structure) of a contract which performance impacts on interactions of economic agents may serve as such a threshold. If the similar contract provides for delegation of rights for signing of others contracts to one of the agents (the “central” agent) who can act as a representative of the others then we have grounds to talk about creation of organization. Such organizations where base contract performance oriented to value creation are economic firms. If the contract being under performance is enjoyed the status of legal entity in compliance with the rules of higher levels then a formal organization or “juridical” firm appears.

Thus the “suffered” party doesn’t use a penalty if future violator’s services will gain more benefits versus those derived in the case of immediate application of sanctions (for example, in the case of initiating proceedings about bankruptcy of non-payer). Under such circumstances it’s clear that the choice – to wait or have recourse to the law – depends upon economic environment encompassed the certain incident. Here there are possible two basic alternatives.

I. If the given economic environment is so that “suffered” party
(a) operates in the conditions of competitive market (another partner is simply found),
(b) the court system functions under low costs and without significant frictions (including enforceable judgment),
(c) assets of obligations’ breaker might be sold fast and under low costs, then most likely that the injured party will be inclined to break relations with violator and have recourse to the law. Thereby SBC are not in place under such environment.

I. If one of the above conditions isn’t observed then likelihood to go on cooperation (i.e. bailing-out of breaker) most likely will be higher than recourse to the law. Under such circumstances when trade assets are specific and transaction costs are high protection of originally occasional (neo)classical contracts will tend to transform in long-term relational contracts presuming regular re-negotiations and re-agreements of parties and internal mechanisms of conflicts resolution. As a result SBC are in place.

Conducted analysis allows construct a system of SBC definitions (or interpretations) every thereof stresses one or another component of the given complex phenomenon. In our view SBC are manifested at two levels of analysis:

(1) for interacting subjects as certain (time) integrity;
(2) for certain subject (one of interacting thereof).

Despite the level SBC can be submitted in the terms of contractual relations.

In the first case SBC may be treated as a way of behavior by way of (uncertainly) long-term relational contract performance process including the chain of occasional transactions, which prompt performance doesn’t lead to immediate sanctions to the breaker from the side of the sufferer. Such way of behavior can be explained by the fact that net present value in the case of this contract performance is higher for the parties than created one after contract cancellation foreseeing compensation.

In the second case for the party having obligations before the other one SBC may be presented as a way of behavior not envisaging measures needed these commitments are to be met which (measures, actions, decisions) would maximize created value; instead of them actions primarily oriented to value re-distribution at the expense of use of dominated position in the market are undertaken; for the party, which enjoys commitments to itself, SBC are readiness for bailing-out a potential breaker of prompt commitments performance proceeding from the expected benefits associated with going on cooperation with it; incidentally the mentioned benefits may have a status of merit good, newly created value or re-distributed one in favor of certain subject.

Summarizing reflections on SBC as relational contract it is necessary to point out self-enforcing nature of this type of contract. As is known self-enforcement doesn’t presuppose involvement in relations ordering third party. Consequently, it doesn’t presuppose direct access to the judicial system as a part and parcel of the state. Generalized form of explanation of this practice is high transaction cost of access and usage of judicial system as a way of conflict ordering mechanisms. Some additional explanations of SBC as regards Russian case will be suggested in the next part.
3. Soft Budget Constraints in Russian Economy

3.1. Forms of Soft Budget Constraints

Economic environment, in which the Russian firms operate is much closer to a case II, than to a case I. Actually, domestic commodity markets can be characterized as moderate competitive [Tsukhlo, 2000], therefore costs of searching business partners are quite considerable, not mentioning the losses of capital at informal relations with partners (social capital).

The work of judicial system is characterized by considerable periods of time and costs, the processes of executing the adjudications are also long. The comparative subjective estimations of Russian judicial system’s efficiency are given in [Hellman, Jones, Kaufmann, Schankerman, 2000, p.25-26]. Thus, there are significant costs of access to legal system. Obviously, economic agents seek for opportunities to order conflicts privately. The later provokes informal, ongoing relations, which might be considered in terms of relational contracts (as in previous paragraph).

Finally, the absence of an developed securities market and impossibility to estimate the cost of an enterprise, may lead to the situation when the sale of in ringer’s property will be held at price which does not compensate losses of injured party. Taking these circumstances under consideration, the decision of injured to continue the relationship with infringers of contract obligations seems to be quite rational.

SBC may take different forms of forgiving the infringers of obligations and their support when they are in a difficult situation. The most wide-spread and typical for Russian economy are the following forms of SBC:

- The direct government subsidies to enterprises;
- The indirect subsidies in the form of low fixed prices on output (first of all, the services of natural monopolies);
- Federal and regional tax discounts, and duty discounts;
- The subsidized loans, providing the guarantees for loans;
- Overdue payments which not lead to sanctions in the form of bringing a bankruptcy action, including the payments for federal budget, regional and local budgets, to the contractors, overdue payments on wages;

Obviously, mentioned wide spread forms is expression of political market performance where rules and its enforcement are exchanged for particular actions or non-actions.

In the following we will make an attempt to estimate the scale and the size SBC’ expressions both at the level of separate industrial enterprise (with the use of data collected during special survey conducted by Russian Economical Barometer in October, 2000) and at the level of the national economy (with use of Development Center’s database which contains monthly series for 1993 - 2000), and then to test the formulated hypotheses.
3.2. Analysis of Nonpayments’ Dynamics in Russian Economy

The characteristic of SBC as a form of relational contracts, provides the ground for their dynamics’ analysis on the basis of institutional market model [Tambovtsev, 2000]. According to this model, the choice of contractual form of exchange made by the users can be described as coordination between seller and buyer on the market of differentiated product, where economic goods taken together with all their transactional properties play the role of objects for sale and purchase. Therefore the distinctions in commodities caused by their transactional properties are very similar to distinctions of commodities by their trademarks.

Among the factors, which influence the choice of such goods (as in case of any market with differentiated product), there may be consumers’ preferences for various trademarks, prices of differentiated products, the size of budget constraint.

For enterprises signing relational contracts (“vertically” with the state and employees, and “horizontally” with suppliers and consumers) about rigidity of requirements concerning the terms of payment, obligatory use of sanctions etc., - in other words, all which is included into the concept of SBC - the appropriate choice is determined both by a combination of positive and negative consequences of using SBC and size of disposable monetary resources before concluding the deal.

Besides when analyzing SBC it is necessary to take into account the following: the process of learning to effectively use the appropriate contract forms does not happen too quickly and instantly. This process was carried out in the form of social learning that should explain its dynamics described by the graph, close to S-like curve.

In fact, if we consider such parameters as deflated volumes of overdue debt for creditors and overdue debt of debtor accumulated by enterprises during January 1992 - January 2000, we will find that the first of them is described by logistic equation:

\[
Y = \frac{768858.5}{1 + \exp(-0.094x + 5.88)}
\]

with \( R^2 = 0.99 \), and the second one is described by logistic equation:

\[
Y = \frac{436869.1}{1 + \exp(-0.083x + 5.13)}
\]

with \( R^2 \) also equal to 0.99 (here \( x \) is an ordinal number of month of examination).

This mentioned circumstance makes the econometric analysis of SBC in Russian economy more difficult, since the construction of nonlinear regress equations does not tend to be an easy matter. At the same time, as these nonlinearities are in essence caused by process of social learning, i.e. reproduction of their business partners’ experience, it is possible to include trends and/or autoregressive components instead of logistic curves in specifying equations.

Thus, the following system of equations can be written to explain the dynamics of various observable indicators of budget constraints’ softness, appropriate to their contract background: there should necessarily be included as the part of explaining variables the parameters characterizing the financial situation at enterprises, as well as time or value of the explained variable in the previous period of time. Besides it is possible to include some other variables, if there is any substantial basis for it.

Before providing the results of conducted calculations on the models created according to outlined logic, we will describe the characteristics of relationships between variables, which are to be treated as causal. For their analysis the Granger
test was used [Granger, 1967].

The calculations have shown that during January 1992 - April 2000 the overdue debts on wage with probability 0.97 created the overdue debt for creditors of the industrial enterprises, then the overdue debt for creditors with probability 0.99 created the overdue debt of debtors, which, in turn, with probability 0.97 led to overdue debt for creditor (in other words, there was a positive feedback between the overdue debt for creditor and overdue debt of debtor). During the mentioned period of time the similar positive feedback could be observed between overdue debts of debtors and overdue debt for budget: the first one created the second one with probability 0.97, which in turn caused the first one with probability 0.94 (all estimations are statistically significant with 90 % probability).

As the investigated period included two obviously non-uniform sub-period (from the beginning of market reforms till August 1998 crisis, and since September 1998 till April 2000), the similar calculations were made for each of these periods separately. The analysis has showed that before the crisis the overdue debtor debt caused both the overdue creditor debt (with probability 0.99986) and overdue debt for budget (with probability 0.99987). Concerning the time after crisis there are clearly be seen the positive feedback between the overdue accounts payable and overdue debt on wage: the first one cause the second with probability 0.96, which creates the first one with probability 0.98.

These described results, especially for a before crisis period, are of considerable interest, as they clearly illustrate the role of victims’ readiness to forgive the infringements of terms of payment according the signed agreements: this factor being one of the main for SBC was responsible for the overdue debts for creditors and nonpayment to budgets. At the same time, this observations does not seem to be the only one for explaining the dynamics of SBC’ indicators.

Now we provide the results of conducted analysis for one SBC’ indicator — the overdue debt on wages. The first step is to check a hypothesis concerning the existence of social learning effect, i.e. concerning the adequacy of describing the given dynamics by equations of auto regression.

The equation of a kind \( ODW_t = C_1 + C_2ODW_{t-1} + \epsilon_t \) (where \( ODW \) - overdue debt on wages), was evaluated for two sub-periods: 02.1994 - 08.1998, during which the process of social learning seemed to be the most intensive, and 08.1998 - 02.2000. For the equation describing first sub-period determination coefficient turned out to be rather high \( R^2=0.997 \), the F-statistics is equal to 15683,03, \( DW = 1,54, C_2 = 1,02 \) with \( error 0,008 \) and t-statistics 125,2. For the equation describing second sub-period \( R^2= 0,96, F-statistics = 396,8, DW = 1,73, C_2 = 1,0 \) with \( error 0,05 \) and t-statistics = 19,9.

Thereby, it is possible to consider the hypothesis about a role of social learning in constructing the dynamics of wage nonpayment quite confirmed.

Multifactor regression equation appropriate to above formulated principles can be constructed in several variants. One of most suitable forms was the following specification:

\[
ODW_t = C_1 + C_2NL_t + C_3NA_t + C_4ODW_{t-1} + C_5ODB_t + \epsilon_t,
\]

where NL – net liquidity ratio, NA – net assets of industrial enterprises, ODB - overdue debt for budget. All the coefficients (except for \( C_1 \)) are statistically significant, besides \( C_2 \) and \( C_3 \) are negative, and \( C_4 \) and \( C_5 \) are more zero. \( R^2 \) is equal 0,99, F-statistics = 4551,9, \( DW = 1,52 \). What is especially remarkable here is the sign
at ODW: it is the evidence of the fact that accumulation of debts on wages and for budget is not considered to be alternatives for enterprises. Generally according to the above equation, debts on wages as the measure of the given component of budget constraint’s softness is explained by deficit of own monetary resources (liquidity) of enterprises, and experience of “unisky” (imprudent) behavior accumulated by managers of enterprises.

All these results correspond with conclusions made in investigations by R.I.Kapelyushnikov [Kapelyushnikov, 2000], according to which managers consciously regulate the scale and duration of wage delays, keeping them on a sufficient distance from those borders, behind which they expect serious social conflicts at their enterprises to occur. From the managers’ point of view, actual credit from employees could be covered at the expense of bank credits only if that interest rate would be negative! Thereby, for enterprises wage delays and its nonpayment are the results of rational decisions which take into account managers’ expectations concerning the “bailing-out” behavior by managers’ “victims”. There is also another interesting fact stating that competition pressure does not effect managers’ behavior. This fact underlines the peculiarities of competition between enterprises, that is the availability of soft budget constraints in dimension «employer - employee».

The dynamics of SBC’ indicators as the overdue debts for creditors of industrial enterprises, overdue debt of debtors, overdue debt for budget is described by similar equations with close values of statistical criteria concerning the quality of received parameters.

3.3. Analysis of Soft Budget Constraints’ Factors at a Level of Industrial Enterprise

If taking into account the above mentioned facts about relationship between the degree of hardness (softness) of budget constraints, market competition, the degree of SBC’ influence on restructuring processes, it is possible to point out that if SBC contract model is correct and the model of institutional market is adequate to real situations of making the strategic decisions at enterprises, the main alternatives between which such choice is being made, are characterized as follows:

(1) competitive market – hard budget constraints - restructuring the enterprise - effective usage of resources

(2) noncompetitive market (domination on the market) - soft budget constraints - absence of restructuring - inefficient usage of resources

Let's now consider the outlined variants in more details. If the market where the enterprise operate is highly competitive, then it can not broadly and regularly use cost-plus pricing for softening its budget constraints (that is to compensate all actual costs by the price). The appropriate opportunities arise when the enterprise enters the market with new product range, becoming a (temporary) leader that allows it to make the price. It is possible to use this mode regularly only if such firm regularly makes restructuring (re-engineering), ensuring there will be a constant efficiency raise in using the resource potential of firm.
On the contrary, a stable dominant position enables firm to regularly apply cost-plus pricing to cover costs caused by the kinds of decisions about resources’ usage. Thereby, the incentives to making restructuring are becoming weaker. Hence, the steps creating the ground for dominant market position of some enterprises (which in turn helps such enterprises to survive) at the same time lead to efficiency decrease of resources usage in the economy.

The provided basis for the above mentioned forms of enterprises’ behavior are still the hypotheses, which we have examined on materials of the Russian industrial enterprises’ survey. The survey has covered 177 industrial enterprises, which distributed by industries as follows: machine-building - 27,1 % of the respondents, metallurgy - 4,5 %, electric power industry - 0,6 %, chemistry and oil-chemistry - 7,9 %, light industry 14,1 %, food-processing industry 14,1 %, industry of building materials 9,0 %, wood manufacturing and cellulose and paper industry 11,9 %, fuel industry 1,1 %, other industries 6,8 %.

We then describe general distributions of given answers to the questions. 18,6 % of the whole quantity of answered to the question about frequency of partners’ changing, answered that they changed their partners quite frequently, 48,6 % of the answered said they changed the partners occasionally, 32,2 % - almost did not change. In other words, a majority of respondents (more than 80 %) are the participants of more or less stable business groups.

4,5% of the answered regularly received some economic support from regional authorities, 22,6% received it from time to time, and 72,3% - nearly never. What is essential is that the produced figures are a bit lower than the mentioned above results of survey conducted by Russian Economic Barometer, according to which about 40% of enterprises received some kind of support from federal and regional authorities.

2,8% of the enterprises regularly received some economic support from partners, 29,4% received it from time to time, 66,7% - almost never.

29,4% of the enterprises are expecting tax authorities not to apply rigid sanctions for delays in paying federal taxes for the term of no more than month

\[
\begin{align*}
&37,3\% \text{ - for no more than 3 months} \\
&9,6\% \text{ - for no more half-year} \\
&6,8\% \text{ - for no more than 1 year} \\
&8,5\% \text{ - for up to 1,5 years.}
\end{align*}
\]

24,9% of the enterprises are expecting tax authorities not to apply rigid sanctions for delay of payment the regional taxes for the term of no more than a month

\[
\begin{align*}
&36,7\% \text{ - for no more than 3 months} \\
&14,7\% \text{ - for no more half year} \\
&7,9\% \text{ - for no more than 1 year} \\
&6,2\% \text{ - for up to 1,5 years.}
\end{align*}
\]

41,2% of the enterprises are expecting their bank not to apply rigid sanctions for delay with paying the back the credit for the term of no more than a month

\[
\begin{align*}
&37,3\% \text{ - for no more than 3 months} \\
&9,6\% \text{ - for no more half-year} \\
&6,8\% \text{ - for no more than 1 year} \\
&8,5\% \text{ - for up to 1,5 years.}
\end{align*}
\]
22,0% - for no more than 3 months
Total - 63,2 %
9,6% - for no more half-year
4,5% - for no more than 1 year
1,7% - for up to 1,5 years.
20,9% of the enterprises are expecting their supplier not to apply rigid sanctions for delay of paying for received materials, raw material, etc. for the term of no more than month
42,9% - for no more than 3 months
Total - 63,8 %
19,8% - for no more half-year
4,5% - for no more than 1 year
4,0% - up to 1,5 years.

The comparison of these distributions of expectations allows to make a conclusion of them being very close for all types of the contractors if we make an assumption that the delay of payment for no more than a month and for no more than 3 months (that is the allowable term for delay when fulfilling the obligation under the Civil Code of Russian Federation) are being within the same interval. If that assumption is accepted, then most “soft” partners will appear to be tax authorities on regional component of taxes, and most “rigid” - again tax authorities but on federal component of taxes. However if taking the structure of the mentioned three-month period of time into consideration, the most “rigid” partners will be the banks, as a share of enterprises expecting the sanctions come up already after 1 month of delay is higher than any other share. On the whole the received distributions are close to expected ones.

2,8% of the enterprises have estimated the domestic market of their production as the highest competitive, 5,15 – highly competitive, 42,9% - moderately competitive, 35,6% - low competitive, 8,55 - actually uncompetitive (5,1% - did not answer the question). Thus, the overwhelming majority of enterprises consider the markets of their products as average and low competitive; and such conclusion is correlated with the data published by S. Tsukhlo [Tsukhlo, 2000].

9,0% of participants have evaluated the world market of their products as the highest competitive, 8,5% - highly competitive, 14,1% - moderately competitive, 14,1% - low competitive, 14,7% - actually uncompetitive (39,5% did not answer the question).

On the question about a situation with restructuring of the enterprises the following answers were received:

The restructuring has recently been conducted or is being conducted now - 28,2%;
The restructuring will be conducted in the near future - 8,5%;
The restructuring is possible in the long term - 15,8%;
The restructuring is desirable, but there are no possibilities for it - 29,4%;
There is no need in restructuring - 15,8%;
In other words, about 30% of the enterprises have been restructured or are being restructured (we will call such undertakings as restructured ones), 25% consider the restructuring potentially possible, and for about 30% it is desirable, but impossible for one reason or another, 15% does not find it necessary.

Having provided the general characteristic of answers to the questionnaire we proceed with the analysis of relationships between them, i.e. try to check up the hypotheses formulated above.

First of all, we shall describe the pair relations in the form of correlation between distributions of the received answers. Since the majority of examined variables are measured in ordinal scale, there may be used Spearman and Pearson correlation coefficients which were calculated with the use of the data. It is necessary to note, that as a whole number of statistically significant coefficients (at level 0.01 or 0.05) is not considerable, and their absolute values, as a rule, are lower than 0.5. The rather high values of the mentioned coefficients (larger than 0.5) take place for those variables, which are close to them by sense.

The degree of belonging to business groups (Pearson coefficient is equal 0, 212 with significance 0,01) is negatively correlated with the frequency of using cash payments for supply that corresponds to the assumption about the informal character of such groups. At the same time the significant relationships between participation in business group and the level of support from business partners has no been revealed. There also has not been found any statistically significant correlation between variables measured in ordinal scales, and such parameters as support from regional authorities and support from business partners.

The statistically significant correlation has been revealed between level of market competition and the softness of budget constraints: Pearson correlation coefficient between level of budget constraints’ softness (on the federal taxes’ component) and the level of domestic competition was equal to 0,164 with significance 0,05; between budget constraints’ softness (on the regional taxes’ component) and the level of domestic competition was equal to 0,193 (with significance 0,01); between budget constraints’ softness (on supply payments) and the level of domestic competition was equal to 0,249 (with significance 0,01). The appropriate Spearman correlation coefficients are equal to 0,193, 0,182 and 0,154 with significance 0,05. In other words, if making conclusions from provided estimations, it will be correct to state that the enterprises operating in more competitive environment tend to expect softer attitude to them from business partners in the case of payments’ delays. Though the pointed relations are rather weak, they obviously do not correspond to the hypotheses formulated at the beginning of the section. Therefore it is necessary to examine the revealed situation in detail using others variables measured within the framework of analyzed data.

One of the possible explanations may be the fact that regional authorities which determine the rigidity of their attitude towards the tax non-payers, consider a higher level of competition as the cause of necessity to support and protect tax non-payer against “excessive” competition from “strangers”.

Similarly one can explain the softness of suppliers’ position, taking into account the fact that the majority of respondents are the participants of more or less stable business groups. In these conditions greater partners’ softness towards the

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5 The statistically significant correlation with world competition has not been revealed.
obligations’ violators which operate in highly competitive environment, can be the main form of support inside business groups which have been revealed as an answer to direct question about intensity of similar support (among the prompts to this question has not been mentioned such factor as the possibility of a partial forgiving the payment terms’ infringement; probably, this circumstance caused the appearance of the mentioned above paradox conclusion concerning absence of correlation between a degree of participation in business groups and level of support from business partners).

Concerning the relationship between softness of regional authorities’ attitude towards tax payment and rigidity of competition pressure on an enterprise, the formulated assumption and hypothesis are confirmed by the results of the special regional tax incentives examination made in [Kolomak, 2000, with. 33-34].

Thus, our hypothesis about correlation between level of competition and hard budget constraints has to be corrected for regional authorities’ position. The last one, if implementing a protectionist policy concerning the enterprises whose poor financial situation can be explained by competition pressure (and not at all, for example, by unwillingness to restructure) make the appropriate budget constraints softer. Hence, the initial hypothesis should be supplemented by the condition of regional authorities’ neutrality to financial situation at local enterprises, but this condition in practice does not often work [Desai, Goldberg, 2000].

We then proceed to analysis of pair relations between the factors measured in different, not only in ordinal scales. The correlation analysis here can not be used, therefore tables of cross distributions of examined variables will serve as the main toolkit for the analysis.

10% of the restructured enterprises estimate their product competitiveness on domestic market as high and very high, 62% - as average, 28% - as low, 0% - as very low. 8,6% of the no restructured enterprises evaluate their product competitiveness on domestic market as high and very high, 57% - as average, 26% - as low, 9% - as very low. 38% of the restructured enterprises evaluate their product competitiveness on world market as high and very high, 20% - as average, 8% - as low, 0% - as very low (34% did nor answer the question). 29% of the no restructured enterprises evaluate their product competitiveness on world market as high and very high, 21% - as average, 9% - as low, 4% - as very low (36% did nor answer the question). Therefore, there are some differences in estimations of product competitiveness given by restructured and no restructured enterprises. But the more positive answers to this question are given by restructured enterprises. At the same time, the mentioned differences can not be considered substantial.

4% of the restructured enterprises consider the domestic market as highly and highest competitive, 52% - as moderate competitive, 34% - as low competitive, 2% - as very low competitive. 9% of the no restructured enterprises evaluate the domestic market as highly and highest competitive, 39% - as moderate competitive, 36% - as low competitive, 11% - as very low competitive. In this case there are some significant differences: among no restructured enterprises the share of those which work in highly competitive environment, is twice higher than share for similar kind of restructured enterprises (average share on sample is 8,1 %). Hence, it is possible to assume, that the restructuring while increase product competitiveness, also improves competitive market position of enterprises and makes this enterprise one of leaders of
the appropriate market.

To examine this hypothesis we will make a comparison between the data on restructured enterprises and those enterprises which would like to restructure but have no opportunities. This choice of data for comparison is explained by the following: an incentive to restructuring may be provided by high competition (that is if these enterprises were in competitive environment). So, in the chosen group of enterprises 13% of the answered to the question consider domestic market as high and highest competitive, 46% - as moderate competitive, 25% - as low competitive, 10% - as very low competitive. It is easy to see that the indicated data confirm the formulated hypothesis.

Let's now consider the relationship between level of domestic market competition and degree of regional authorities’ support. 37.5% of the enterprises which regularly has had such support consider domestic market as low competitive, 50.0% say that this market is moderate competitive and 0% say that domestic market is highly competitive (12.5% did not answer this question). 50% of the enterprises which had the mentioned support only occasionally, consider domestic market as low competitive and very low competitive, 40% - moderate competitive and 7.5% - highly and highest competitive (2.5% did not answer). 43% of the enterprises which almost never had support from regional authorities have underlined that domestic market is low competitive, 43% said the it is moderate competitive, and 8.5% - highly competitive (5.5% of respondents did not answer the question).

Therefore we may conclude that the higher the regularity of support from regional authorities, the higher the probability of these enterprises having the dominant position on domestic (or local) market and the less competitive market is. When making a comparison between the provided data and the conclusions made on the basis of correlation analysis, one may find some formal discrepancy between them. However this discrepancy is only real as we analyze two different forms of support. Above we have mentioned a positive correlation between informal tax discounts (actual long term bailing-out tax nonpayers) and competition level for an enterprises, we now examine a direct support of enterprises positively correlated with the role of the enterprise for region and its dominant position.

Thereby, regional authorities tend to help both competition leaders and outsiders. It is quite possible that by the similar reason of such support (positive short and intermediate term externalities of regional level) the motives for support may be different. The dominant enterprises are supported by credits and investments which helps further to develop and strengthen their market position, but outsiders (functioning in the high competitive environment) are supported by informal tax discounts, since the refusal of their support will cause negative social consequences (growth of unemployment) and will not help to full the regional budget. It is quite obvious that the analysis of motives for regional authorities’ actions can not be conducted on data of this research and requires the data of another (sociological) character.

What is the relationship between competition level and enterprises’ support from business partners? 20% of the enterprises which regularly had such support from business partners point out to low competition, 60% say that domestic market is moderate competitive and 20% say that it is highly competitive. 42% of the enterprises which occasionally had support from business partners have underlined that domestic market is low competitive, 50% said the it is moderate competitive,
and 6% - highly competitive. 46% of the enterprises which almost never had support from business partners have considered domestic market as low competitive, 39% said the it is moderate competitive, and 8% - highly competitive. In other words, the enterprises which has constant support from business partners estimate their markets as highly competitive opposite to those which does not have any support: the lower the regularity of enterprises’ support from business partners, the higher the probability of them having dominant position on the market. Hence the relationships between the level of support from business partners and competition level are opposite to the relationships between competition level and the level of support from regional authorities.

The data allow to make an assumption that the estimation of competition level provided by sellers which belong to different groups (both which have and does not have any support) is asymmetric and depends on enterprise’s market position. But the latter turns out to be connected with softness of budget constraints caused by “bailing-out” behavior of authorities, employees and contractors.

What are the relationship between level of domestic competition and a quantity of employees at an enterprise? According to data in Table 1, the majority in each group of enterprises operates in average competitive environment, the high and low competitive markets are a matter of small, average and big enterprises in approximately equal degree, but only small enterprises operate in highest competitive environment.

On our opinion, such correlation provides enough explanations to low levels of correlation between all variables examined above: small enterprises in Russian Federation actually never get any preferences, subsidies etc., despite the variety of programs on their support. Some their business partners are able to soften budget constraints for small enterprises partners on (informal) business groups, as confirm above mentioned results of the analysis.

Table 1.

<table>
<thead>
<tr>
<th>Competition level</th>
<th>Staff number, person</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up to 200</td>
</tr>
<tr>
<td>No answer</td>
<td>2 / 3%</td>
</tr>
<tr>
<td>Very low</td>
<td>7 / 10,7%</td>
</tr>
<tr>
<td>Low</td>
<td>20 / 30,7%</td>
</tr>
<tr>
<td>Moderate</td>
<td>26 / 40%</td>
</tr>
<tr>
<td>High</td>
<td>5 / 7,6%</td>
</tr>
<tr>
<td>Highest</td>
<td>5 / 7,6%</td>
</tr>
<tr>
<td>Total</td>
<td>65 / 100%</td>
</tr>
</tbody>
</table>

* Number of respondents/part of respondents by column
Since the overwhelming majority of the enterprises are sure they operate in environment with moderate and low competition, the hypothesis formulated at the beginning of the section should be true, if it reflects the following logic chain:

Dominant market position - soft budget constraints - absence of restructuring - inefficient use of resources.

The given data confirm the existence of such logic chain in Russian economy.
4. Conclusions: Detailed policy implications

1. The soft budget constraints are the phenomenon typical not only for centralized but for transitional and even developed market economies as well. It is not connected to the particular features of purposes of organized (state) ideology. The comprehension of the matter and peculiarities of soft budget constraints in specific economy requires detailed analysis of contract relations functioning in it. The soft budget constraints greatly and systematically influence the stimulus structure of economic agents and their economic behavior and through stimulus and behavior. Further, soft budget constraints influence the effectiveness of scarce resources usage.

2. The conducted theoretical and empirical analysis of relation between the domination of the economic agents on the market and softness of the budget constraints grounds the discussion on its real presence in Russian economy and, finally, on its negative influence on general efficiency of resource usage, dragging the economic growth in Russia due to distortion of stimulus of economic agents. The prevalence of average and low evaluations of competition degree on most of domestic markets witnesses the wide opportunities for enterprises to use the possessed resources not effectively without facing the threat of bankruptcy or liquidation.

3. The mentioned evaluations of competition degree, confirmed by the data from the other sources, are associated with presence of high barriers to entry to and exit from market as well as with wide development of network forms of industry organization in Russian economy. The network forms of organization of any national economy influence the efficiency of resources use contradictorily. In Russian economy during the post-crisis period, when the participation of imported goods in creation of competitive environment decreased, the negative influence of network form of industry organization becomes more perceptible.

4. The soft budget constraints exist in different dimensions and are conditioned by various factors. The most important dimensions are the relations “enterprise-state”, “enterprise-enterprise”, “enterprise-employees”. The forms of soft budget constraints include the provision of non-repayable subsides, the repayment of debts of economic agents at the expense of state financial resources, delay or write-off of tax arrears, reduced tariffs, provision of real estate units on the preferential terms, refusal of the creditor (other enterprise) to initiate the bankruptcy procedure in the presence of bad debts. Simultaneously the mentioned factors are the basis for worsening the competition conditions on the markets. From this point of view, the creation of the conditions for effective competition is, finally, the hardening of budget constraints.

The long-term strategy of the government regarding the soft budget constraints should consecutively harden these constraints to such an extent as it forms incentives as well as actions of economic agents aimed on search for new technologies of production of well-known goods, new goods production, restructuring increasing the effectiveness of production, search for new markets and resources.

5. According to the model by J.Che and observations given above on positive influence of non-payments (as the form of soft budget constraints) on Russian economic dynamics, the simultaneous hardening of the competition conditions (which is equivalent to the hardening of budget constraints of the enterprises) can cause large scale negative consequences, obviously exceeding the positive effects from such measures in the form of increase of effectiveness of resource use by the enterprises survived after adoption of measures mentioned above.
Strictly speaking, the positive effects can exceed the negative ones only in case if in spite of preconditions of the model by J.Che the output of the “good” enterprises can be increased pro rata, thus compensating the reduction of the output caused by the liquidation of “bad” enterprises. Such redistribution of total output (and its farther growth) simply means “materialization” of the investments into successfully functioning enterprises, increase of workplaces on these enterprises, overflow of the employees to restructured, reconstructed and new built enterprises. The obstacles to such scenario in the domestic economy obviously are the mentioned above high entry and exit market barriers as well as low activity of investment process caused by both low level of savings and non-secured property rights, sharply decreasing stimulus for internal investments.

6. Choosing of the degree of softness of budget constraints one should take into consideration the necessity to find under certain conditions the compromise between negative externalities caused by use of sanctions (especially to large market agents) as the demonstration of simultaneous harshness of the budget constraints and moral hazard expressed in lack or absence of incentives as well as in elaboration and application of effective procedures of preliminary assessment of investment projects, reliability of trade contractors etc. as consequences of soft budget constraints. Thereupon the simultaneous equalization of competition conditions in view of harshness of the budget constraints can contradict the criteria of dynamic efficiency. The adoption of simultaneous large scale measures on hardening the budget constraints in all directions is not recommended. The basis is the real parity of forcing state power and ability of economic agents to support the existing economic practices, the essential of which is soft budget constraints.

Soft budget constraints possess the property of cumulativeness caused by the actions of the state as an ultimate enforcer of obligations. The attempt to harden the constraints in the relations between enterprises at the simultaneous preservation of the practice of state assurance of cover for losses has little chance of success.

7. Certain softening of the budget constraints of the enterprises causes not only negative but also positive effect on the development of economic processes and effectiveness of resource use. In this context the question is especially important which non-radical measures lead to the consecutive hardening of the budget constraints when the total positive consequences prevail over negative ones.

From our point of view, the condition distinguishing the “positive” and “negative” reflections of soft budget constraints, which require correspondingly the passive attitude and active counteraction from the side of public authorities, is the sign of balance of all accounted consequences of each reflection of this kind.

Conducting the assessment of this sign, it is necessary to proceed from the assumptions, which can be formulated in form of the principle of reasonable completeness of the accounting of consequences of each specific expression of soft budget constraints. The essence of this principle is in the fact that the expenses of the public authorities (or other assessment agent) on data collection and realization of conclusive calculations should be certainly lower then expected benefits for economy (and state budget) from preclusion (elimination) of the analyzed expression of soft budget constraints.

8. The consecutive application of the principle of reasonable completeness of consequences accounting is not identical to the situation when frequently public authorities on different levels virtually remit tax arrears selectively for certain enterprises (through “automatic” restructuring) etc, not extending such easies on other enterprises. Due to non-transparency of the reasons of such practices there are not enough arguments to judge on the sign of mentioned positive and negative consequences of softening of budget constraints.
Therefore it is necessary to supplement the formulation of the principle of reasonable completeness of the accounting of consequences of each specific reflection of soft budget constraints with the list of minimum set of factors, which should be taken into consideration while making the corresponding “softening” decision on standard situations of emerging of soft budget constraints.

8.1. Among such factors first of all is the situation at the local labor market as because of rather low mobility of the RF population (conditioned by low level of real income, undeveloped accommodation market, and even sometimes - by the direct institutional barriers for mobility), labor-saving restructuring, bankruptcy or liquidation as a result of disability of the enterprise, occupying monopoly position in this or that settlement, will bring to the more unfavorable consequences both for regional and federal organs of government. Even if the pay-out amounts for the temporary released employees will be lower than subventions and benefits amounts, needed for enterprise support, its liquidation could bring to liquidation of different fragments of social infrastructure in the settlement and, by that, to the significant negative social consequences at the regional level. As far as just these conclusions are the main factual basements for origination the soft budget constraints, it is important to take into consideration the existence of transparent rules, procedures, regulating state performance in frame of legislation on social security of population. Acting legislation contains rules, regulating ways of delineated problem solution. However, the practice of mass preventing of hardening of budget constraints from the side of regional and local government bodies clearly indicate the non-sufficient effectiveness of such rules. Consequently, its further development and improvement, from one side, and increase of efficiency of mechanisms, providing its validity, - from the other.

8.2. The next important issue is connected to the following: if the enterprise is a local monopolist on production of non-moving commodities and services, how large the transportation costs, which could arise in case its production will be replaced by the production of another suppliers. If the state of the enterprise is monopoly, the concrete subject of analyses is a comparison of the volumes of subsidizes and preferences, which should be provided for the potential bankrupt to perform, with the volume of subsidies to the new supplier to compensate its transport costs so as the price-level formed in this area not undergo a considerable shock.

8.3. A significant factor of decision-making on hardening of budget constraints is the strategic importance of goods produced by enterprises. If such a production is produced by non-state enterprise and there is unsatisfactory financial situation for rather long time, at first glance the rational strategy is nationalization of such enterprise in a way it is to be organizational-legal form of an official enterprise. However, such a scenario of events could be followed by the created by them opportunities for the unfair behavior of the enterprise management, hoping for maintaining its duty positions after the transformation mentioned above and being able consciously to work for deterioration of the financial conditions of the enterprise for solving personal problems. To prevent such situations it is necessarily to envisage obligatory change of management of such enterprises. If the strategically important production is produced by the state enterprise the changing its form to public one should be coupled by change of management too. Significant reserves of state-owed enterprise management improvement are connected as well with improvement of labor contacts, signed between the state and the government of an enterprise.

9. An important measure, which could (in case of its sequence performance) to withstand the creation of negative consequences of soft budget constraints, connected to managers'
behavior, not undertake measures of caution against danger of timely failure to perform its duties by the enterprise, will be more widely spread of the norm of full responsibility for the enterprises and substation hardening of registration rules of companies with limited liability. It is worth to mention the experience of Germany, where the newly created enterprises are getting the form of the company with full responsibility of its founders, and just after rather long successful functioning under such legal framework they could be transferred into the form of public corporation. On realization of such type of measures there is improve in owner responsibility on managers selection, and control on managers actions are shifting into the sphere of owners special concern.

10. Aiming non-admission of odd negative externalities it is critically important to tighten step by step enterprise functioning conditions, which could coordinate expectations of managers and owners of enterprises, from one side, and provide with time, needed for learning by doing or imitation or another form of adaptation, from the other. With this aim the formulation of measures, directed towards de-regulation of the economy, should take into account the necessity to search for compromise between costs of adaptation to changing conditions and reliability of promises concerning use of sanctions towards those who have chosen status-quo strategy.

11. The condition of negative effects minimization there are transparence of decisions making by state structures concerning all forms of support of enterprises as well as accurate definition of borders in frame of which such a support could be conducted. In other words, the so called "codification" of forms of budget constraints softening, that is formation and approval by the Government (or by the Federal Assembly in form of law), systems of rules, which will connect all the peculiarities of difficult financial situation, in which the enterprise is, and causes of such situation, with admissible forms and scales of support of the enterprise from the side of federal and regional bodies of power and management (Decree of the Government of Russian Federation "On improvement of forms of economic bodies" with sequential enactment of the federal law "On state support".

Introduction of such rules, from one side, will not lead to the sharp hardening of budget constraints and, consequently, to large-scale negative consequences, and, from the other side, by improving the level of certainty of future for enterprises, will let them use their resources more rational. Inclusion to the roles, mentioned above the time dimension (for instance in such form that within a year this or that support could be provided not more than 2-3 times or in a form of long-term, during which any preference and so on could be used) in connection with square changes of these rules as the economic situation will permit, from our point of view, to provide the necessarily step-by-step in hardening of budget constraints.

12. Selective support of some enterprises on non-transparent basis is not just one of the motive for creation the corruption relations, but it generates a special type of administrative barriers for enter the market and outlet from it.

As the support resources, which are at the dispose of the government bodies of different level, especially regional and local ones, are rather limited, the support, given to some enterprises could not be given to another. So compared to the first ones there is some barrier of administrative character in front of the last ones, preventing the admission to those markets, where the supported enterprises operate.

On the contrary for supported enterprises the barrier for step out the market is created as in exchange for support they have to necessitate to operate even in case it is economically unjustified.
13. The main problem is that in what way to incentive the enterprise to restructurization aiming to advance the efficiency of corporate management, under conservation at the moment the soft budget constraints. In this case it is useful to differ the system of assure of enterprises ad hoc and secular. The first case does not assume imminent building of expectations, provoking unfair behavior of managers, borrowers, if there is real threat to use sanctions in case the breach continues. Among the credible threats - is the limitation of opportunities of regional authorities selectively interfere to the enterprise performance, increase in transparency of the companies due to implementation of reporting system, applicable to modern standards, working out and use of the procedures of change of debts to stocks, development of market infrastructure of outer control (auditors' market, rating agencies services).

For prevention the relapse of softening the budget constraints it is necessarily to solve the problem of division of perspective economic organization from the not-perspective, liable to liquidation.

The choice of the regime of hardening of budget constraints is dependant on ways of overcoming by the initiators the counteraction from the groups of special interests and costs of realization and estimation of results of used measures, such as freezing of investment projects, dismissing of overabundant labor force, sale of affiliations, sale of company assets, cut and change of management staff.

14. Last but not least conclusion is connected with the International Financial Organizations (IFO) such as WB and IMF activity. These organizations are characterized, as it is easy to see, by all properties belonging to the “sufferers” in the SBC-contracting: valuability of social aspects (as in Che model), managers’ entrenchment (as in Mitchell model) and so on. Implementing model of SBC developed above to this subject one can maintain that practice of the countries debts bailing-out will be eliminated only under one of the following conditions:

- Introducing of competition among IFO via increase the amount of its;
- Introducing for IFO options to invest not only in state’s debts but and in other directions too.

At the same time, in the light of Che model, there are some doubts about the hardening of SBC existing in the relations between IFO and the developing countries. As it seems to as, the principles discussed in the points 7 – 13 given above are quite applicable mutatis mutandis to the IFO–countries interactions.
References


