12. Less markets: a critical analysis of market existence and functioning

Calixto Salomão Filho

INTRODUCTION

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subject can be well structured and organized without a thorough critical study of its sumptions and limitations. It is exactly this critical study of assumptions and mitations that always seems to have been left out of the branches of law dealing with the organization and discipline of private economic activity. Any critical study of this must therefore come from an analysis of the assumptions that have been used as fundamental basis of study in recent times: the existence of markets.

Since its modern origins, commercial law has been dedicated to the organization of markets. Leaving aside antiquity, there is no doubt that one of the most creative and tructured periods in commercial law was the Middle Ages. It was precisely then when the issue of strengthening markets arose. As elaborated by commentators such as the Bartolo and Baldo, negotiable instruments were fundamental to the surge in trade in the Baddle Ages. Basically a negotiable instrument is nothing more than a way to build the strength and provide assurance for business transactions (ie, to allow the formation of an exiptent market). And this is what was done very effectively in the Middle Ages through medieval fairs. The markets there were driven mainly by the trust created through negotiable instruments.

Since then, commercial law has been erecting increasingly complex and sophisticmed instruments to provide support to the market, from direct protection of transactions brough commercial agreements to more sophisticated forms of institutionalizing markets, such as the rules on capital markets and even competition law (as it is enterpreted and applied by mainstream thinking). Likewise, the discipline of business arganizations (corporate law) serves as the internal organization of business relations to msure transparency and some kind of market control over organizations. Finally, those expics traditionally related to market failures, such as the discipline of regulation, are Erected to improve the functioning of markets. Even the most progressive and critical news on regulation, aimed at operating inter-sector subsidies in the public interest, end trying to harmonize market rules with other relevant social interests. The same can be said in economic law, even with regard to developmental visions that tend to view state collaboration with private companies or the direct participation of the state as market engine for technological development. The state agent is then used as the propellant for enhanced market functioning coupled with an attempt to reconcile the operation of markets with the public interest.

See Francesco Calasso, Medioevo del diritto I (Giuffrè 1954) 572 et seq. with regard to school of Bartolo.

In none or almost none of these visions is the basis for the functioning of markets or even the possibility of the existence of markets discussed. Even when discussing its flaws, this is done only in order to fix it and bring it as close as possible to more liberal or more state-interventionist models for its operation, depending on the political ideological inclination of the interpreter. What is forgotten is that the market idea used originated with eighteenth-century classical liberals, and that after three centuries we must recognize that in many cases it cannot exist, and in others its goals should be profoundly different from that assumed as true.

It is easy to see that such an investigation can open numerous new lines of research in commercial law and even economic law. For now, it seems important, however, only to try to analyze and demonstrate two basic critical hypotheses, namely: that in which the market simply cannot function and that in which the objectives and purposes of the market must be radically transformed. This is what we will try to do next.

II. THE PROHIBITIONS ON OPERATION

A first group of situations that are of interest to law and should be studied are the situations in which the existence of markets is not possible. Note, and this is a important point to stress, these are situations where it is impossible not because opolitical and ideological convictions but simply because there are no minimum requirements for its operation. It is then necessary to identify the logical and functional reasons impeding the functioning of markets. This observation will allow us determine the legal consequences of this situation. Therefore, among the several possible, it seems reasonable to choose only those most enshrined in economic and social theory. As will be seen, although enshrined, they have not been generating consequences for the analysis of markets and the events of their dysfunction. These are the case of extreme information asymmetry, and the assumptions of the existence of common goods.

a. Information Asymmetries

The first stems from so-called information asymmetry. Identified over 40 years ago a now famous article of George Akerlof (which earned him decades later the Prize for Economics), they are far more common than is usually thought.² In reaching they are present in all markets. At the extreme, however, they make impossible existence or operation of markets.

At the time, he contended that the used car and health insurance markets tere either to disappear (used cars) or be state led (health insurance) due to lack of sufficient formation in the market and to adverse selection. The reasoning given is simple very innovative for his time. He imagined an elderly person holding health insurance company have information about her situation than the health insurance company. So the company

² George Akerlof, 'The Market for "Lemons": Quality Uncertainty and the Mechanism' (1970) 84 QJ Econ 488.

be at a loss. In a second stage, the company raises prices to cover these losses. Then it starts to attract only elderly persons with more serious health conditions, who have more information than the company about their health situation, thus speating the cycle of losses. Taken to infinity, this situation of asymmetry will cause sealth insurance to either cease to be offered to elderly people or be offered at areasonable prices, which precludes its acquisition. The result will be the complete asorganization or disappearance of the market, something that is fully supported by the ment health insurance reality. The solution would therefore be to replace private assurance with a public health insurance system for elderly people, which was in fact in the US through Medicare (which remains untouched and beyond ideological today).

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The issue is that the problem of absolute asymmetry of information does not exist in these markets. It has played out recently and dramatically in various other markets' of global significance. Accordingly, it is worth recalling what I wrote in a servious short notice on the topic, which I have included here at length to develop the pervasive character of this absolute asymmetry of information.3 The argument was this:

More than thirty years later, the prediction (of adverse selection and disorganization of markets) becomes true in infinitely more complex markets. U.S. mortgage derivatives were complex and 'well-structured' precisely because they are able to hide information about the actual risk incurred.

Contagion, a commonly used word at the time, if properly analyzed, is also a consequence of the same disparity or lack of information. The interconnection of economies via the market' is so great that it is impossible to predict or rely on effects that economic disasters nother countries may have on our economic relations. This explains much of the recent problems in Brazil with the futures markets (currency and others). The sudden oscillation was unpredictable event, information not available at the time of entering into the agreement and whose effects could not be avoided or prevented. The fact that the law allows compensation or refusal to comply with certain agreements on the grounds of force majeure does not prevent or hinder market disruption and its economic and social negative effects. Compensatory solutions therefore do not prevent or solve the structural problem generated by existence of these markets.

Indeed, the absence/disparity of information in markets reveals another more serious problem. There is a huge difference between the market as a clearing house for a small community or human group (this is the market in its original classical theory) and the market perceived as a global and virtual center for exchange and organization in the economic system. All presumptions (complete information, dilution of agents) that might be valid for first are non-existent in the second. The market in this last sphere only serves as a abstitute for the rhetorical organization of economic relations based on pure power relations and control of information.

Thus, regulating such 'markets' does not present many alternatives from a logical point of Regulating means simply prohibit the existence of certain 'markets'. This is the case of many derivatives and even many futures contracts. Economic theory - at least solid economic beory - says that lack from information tends to lead to the disappearance or to amiomalization of the sector involved. Actually the crisis of 2008 has shown that in the globalized and interconnected market', the disappearance and complete market disruption, is restricted to the problem's origin (the derivatives market), but tends to expand to much of

Calixto Salomão Filho, 'Menos Mercado' in Folha de São Paulo (São Paulo, 15 October 15.

the financial and productive systems, demanding nationalization or semi-nationalization on a planetary scale.

The solution seems, therefore, to be the existence of fewer markets. Discouraging the existence of trade in relation to certain goods or services is not something negative. Historically, periods of high trade flows, mainly of products of questionable utility, do not coincide with times of great inventions. Conversely, when this flow cools, the creation of wealth comes to depend on innovation, creation and invention. In economic history, the search for new markets and mercantilist reasoning has always been synonymous with domination, dependency and poverty. Underdeveloped and developing countries, of the colonial past, are the great witnesses and victims of this equation.

The disappearance of derivatives and delusional markets would therefore result in less risk of surprise and lasting misery. Rather, perhaps more incentives for new creations and inventions will arise – perhaps even in areas as lacking for human beings as human health and the environment. Less market then means fewer crises and more creation.

Therefore, the continuous legal and regulatory mismatch in regards to international financial speculation causes great astonishment. Nothing or almost nothing has been done in the field of international financial regulation. The idea of limiting speculative flows, a clear necessity since 2008, was dead on arrival with the capture of government leaders (particularly in North America and Europe, intensely affected by the crisis) with interests of the financial system.

Note, therefore, that no systemic effect in relation to the regulation of markets or more specifically prohibition of the existence of the markets has been carried out, despite known and pervasive information asymmetry.

b. Common Goods

The second group of circumstances excluding the notion of market occurs when common goods are present. That is, it is not the structure of relations but the type of good (and, as will be seen, the type of interest related thereto), which implies the impossibility of market functioning. Once again, the assumption here is enshrined in the academic world (and its principal formulator was also awarded the Nobel Prize in Economics) but with little practical diffusion and little regulatory recognition.

To fully understand the meaning of 'common goods' one must return to the definition of goods, especially in a critical return to the distinction between public goods and private goods. This classification, adopted by law, found support in classical and neoclassical economic theory, which sought to justify its existence based on certain specifics.

Thus, in classical economic theory, private goods have two basic characteristics: the are both exclusionary (that is, individual A can exclude individual B from use) are rivalrous (that is, consumption by individual A excludes consumption by another person). Public goods have the exact opposite characteristics. They are non-rivalrous and non-exclusionary. This classification, prima facie, has two serious problems. Firstly, it demonstrates an obvious mixture between characteristics of goods and legal discipline. While rivalry is a characteristic of a good, exclusivity is a feature of legal

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⁴ Paul Samuelson, 'The Pure Theory of Public Expenditure' (1954) 36 Rev of Econ and Stats 387.

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goods. The possibility of exclusion of use of the good as a characteristic of the good as a direct consequence, the lack of concern with the concentration of said coperty in private hands (economic power). Indeed if the exclusion is permitted, power set also be.

But that is not all. The classification also reveals a good degree of internal aconsistency. To understand why, it is enough to note the very enumeration of the characteristics of those goods. While the exclusion of use seems to refer to a consumable good, rivalry seems to refer to a consumable good.

Actually this difficulty reveals another, more profound difficulty. This classification does not exhaust the possible differences between goods in regard to their characterisms and therefore it is not a good parameter for legal discipline. This difficulty was evealed long ago by the importance acquired by the work of a well-meaning environmentalist, which was based on the distinction between public and private goods. It is the work of Garrett Hardin, who in 1968 identified the existence of a 'tragedy of the commons', exactly in the use of goods that did not exactly fit within the definition of private or public (and therefore could not be conveniently regulated in any of the disciplines). The classic tragedy is the use by private users of a common good pasture). Guided by self-interest, private interests would always be placed above group merests, which would result in destruction of the pasture. The absence of reflection on the possibility of a specific regulation for the sake of the common good is probably due to the difficulty at the time of admitting anything other than public or private regulation.

Thus consensus was formed on several bases. On one hand, traditional legal theory sestains the difference between public and private law and the resulting unitary stinction between private and public goods. On the other hand, traditional economic beary gives or seeks to give support to these convictions.

Hence the belief arises in the impossibility of regulation, with such goods and such impations relegated to the static discipline of private and public property. No wonder the growing concentration of economic power over common goods is nothing more than the result of a purely static discipline of private property. Left to their own accord, such goods end up doomed to concentration and scarcity. At the same time, public twenty, also static and often unable to take into account the needs of each locality and specific good, lacks special regulation.

There is, however, an alternative, a fundamental structuralist view of how economic sower reveals itself in regard to these goods and how they can be regulated in order to migate the effects. But first we must clarify the idea of common goods. In highly ecognized studies today, renowned social scientists carried out a major critical review the types of goods. First, they would replace the categories of rivalry for ecosumption with something that has the potential for subtractability of use. And

Garrett Hardin, 'The Tragedy of the Commons' (1968) 162 Science 1243.

See Vincent Ostrom and Elinor Ostrom, 'Public Goods and Public Choices' in Emanuel S. (ed), Alternatives for Delivering Public Services: Towards Improved Performance (West-Press 1977); Elinor Ostrom, Understanding Institutional Diversity (Princeton UP 2005) 24.

second, they would replace the answers 'yes' and 'no' to these categories by 'high' at 'low' gradations.

Finally they recognized a new type of good, called the Common Pool Resource (CPR) or in a shorter version, Common Good. The category of common good resolve the paradox created by the characteristics of public and private property. Commo goods are characterized by high subtraction of use and also high difficulty of exclusionate for instance, the use by one individual or group decreases the possibility of use another individual or group (imagine forests, grasslands, rivers) and also it is possible, given the common need involved, to exclude persons involved with the good (participants from the community) used. This is not the case of private goods (food consumer goods, etc.) where there is low difficulty of exclusion but high subtraction use. The use by one can cause shortage to another (imagine food) as a consequence the nature of the good (individual and belonging to only one person), excluding its by another.

On the other hand, typically public goods, such as education and health, characterized by low subtraction of use and high difficulty of exclusion. Such good cannot and should not be subject to market rules precisely because they can and be offered to all (exactly because of their low subtractibility of use and high difficulty of exclusion), both those that have and those that are unable to bear their costs.

Common goods by nature generate a greater problem of scarcity than public good precisely because they have a high rate of subtractibility. While education (public good for one does not prevent (in principle) the education of others, the subtraction of tree from a forest or animals from a reserve will prevent the economic and social use of forest or reserve by another. Thus, the problem of scarcity is more severe for common good than for the public good.

The same can be said in relation to the private good. Both have a high subtraction use, with the common good having a lower degree of rivalry (it is possible to pure use by many, provided that it is non-predatory). Even more than that, only the common good presents difficulties of appropriation (or exclusivity) – that is, the common by nature has more people that depend and should have access to it (a pen cannot used by many but a source of drinking water can and should be used by many). Same a characteristic makes it difficult for pure and simple submission of the common to the market, where direct appropriation is the rule.

But it is not only the difficulty of appropriation that makes discussion of the composed rather specific. The fact is that the difficulty of appropriation creates a function problem for the common good, which is the greater possibility of shortages. Note in a reality such as this, any such private ownership generates a monopoly on the use a good disputed by many. The power here comes from the possibility of appropriation of the necessary goods for many, not the primacy of production. For a community, access to a forest can be critical to its existence even if in that country there are huge amounts of forest. Its livelihood and customs are connected and cannot be dissociated from it.

Thus, the acquisition, via the market, by a private individual of property and the new to limit or prevent access to this community generates enormous power over

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emerates, in fact, a triple drain similar to traditional monopolies. The community will deprived of subsistence goods, depending on a single owner to obtain them. It will depend for its work on the sole owner of the scarce natural resource. And finally, constomed to the use of the forest for numerous activities, it will have few economic dematives for survival.

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Note that this description is valid for a range of goods connected to nature such as mests, seas and rivers and even properties with water sources. Its relationship with the motection of the environment is therefore direct and immediate. Economic power or monopoly on such activities generates very serious consequences. Its power to generate carcity and social hardship is huge. Regulation must take into account these issues.

But it must take into account not only these issues. As the production of most assumer goods depends on the availability of natural resources (ie, water, energy), a mential problem of scarcity in relation to these goods can be reflected – and seriously in consumer goods.

The final finding is that as the issue of market appropriation and scarcity is serious and delicate, it is a very poor tool to organize exchanges of common goods. And this is a simple reason. As the good is essential, price is a poor regulator of scarcity. It will be able to regulate the mode of appropriation – concentrated in a few agents with ever or dilute – but never reducing the scarcity as an essential characteristic of the mod. The result will be the concentration of natural goods in the hands of individuals and dominant firms, without changing consumption patterns.

It is necessary, therefore, to understand that it is not enough to structure a market to scalate such goods. Perhaps some of the bundles of rights that make up the discipline common goods may be subject to market rules. But others and perhaps most of them all be subject to associative rules of distribution and use. But this is a topic for the discussion on the subject of common goods that does not fit within this market. For now the possibility of conveying the belief that a traditional discipline of market is untenable is sufficient.

SUBSTANTIVE TRANSFORMATIONS

criticism of the market should not only be negative. In other words, a critical legal soon should not only identify sectors and situations in which the market simply does work, and therefore the response of the law should be an outright ban on its stence in certain circumstances (where information is asymmetric in essence) or as some types of property (common goods).

See Calixto Salomão Filho, Histoire critique dês monopoles: une perpective juridique et comique (French edn, LGDJ 2010) in respect of triple drainage.

See Calixto Salomão Filho, 'Regulação, desenvolvimento e meio ambiente' in Calixto Filho Regulação e desenvolvimento (Portuguese edn, Malheiros 2002) for some very reflections on a possible discipline.

a. The One-dimensional Market: Limitations of Price as the Main Market Index

There are other cases in which the motives and objectives of market functioning and fundamentally changed or are unsuited to their time. Here too there are several hypotheses that could be investigated. But it seems more interesting to focus attention on a specific hypothesis, namely the non-adaptability of price as the main criterion for targeting choices in the market.

Note that the price criterion was erected as a key element for transmittinformation and guiding choices on the market in a very specific historical moment the time when stimulus was needed to boost exchanges and expand trade). Nothing more natural, therefore, than to choose an element that was capable of directly relatindividual utility to individual wealth – that is, price. This is because (the class market is only an instrument for transmission of information (with all knoimperfections) so long as it simplifies absolutely the needs and objectives of individual upon participating in the market, reducing them to personal utility. And that is perhathe most unexplored failure of all economic constructions (classical and neoclass on the theory of markets: the absence of critical reflection on the price as a factor economic intermediation.

As an information intermediary, price is a rather poor element. It allows for hyper-simplification of information, basically restricting the information that exchanged in the market to availability of the transaction by the selling agent and need of the buyer agent. The reference to 'transaction availability' by the seller's age is intentional. Indeed, it is not correct to believe that price is a good transmitter information about relative scarcity. On one hand, this information is often concentration one or a few economic agents. Indeed, monopolization or oligopolization of man has long since ceased to be a failure or systemic exception, becoming its rule operation. Antitrust and regulatory systems have shown themselves completely sufficient to contain this capitalistic march towards monopoly and oligopoly. Thus price reflects much more the willingness to sell by the producer/sellers than a relative reflects much more the willingness to sell by the producer/sellers than a relative reflects much more the willingness to sell by the producer/sellers than a relative reflects much more the willingness to sell by the producer/sellers than a relative reflects much more the willingness to sell by the producer/sellers than a relative reflects much more the willingness to sell by the producer/sellers than a relative reflects much more the willingness to sell by the producer sellers than a relative scarcity. Consequently, it allows manipulations and abuses almost a rule of conduct derived from the free will of agents with dominant power.

Firstly, as seen above (Section II.b), many goods, due to their characteristics, elend themselves to an assessment of relative scarcity. Relative scarcity is not data can be taken into account, given the essentiality of the good in question need/possibility of sharing. Therefore, it is necessary to imagine another elementransmitting information that enables the buyer's choice to become more information that enables the same time avoid use/manipulation of information by the seller.

This indicates the need for creating and nurturing a new different kind of market that would allow evaluation of elements other than merely price and utility of products. The same way that price was instrumental to trade, the significant socio-economic objective since the end of the Middle Ages, it is necessity to determine what other dominant social and economic objectives the modern imposes. Or rather, to discover them, as they will not be pursued or produced name

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Just as it was necessary to introduce negotiable instruments in the Middle Ages to give impetus to trade, restrained and limited by medieval/geographical political restrictions, an institutional impulse is necessary to overcome the current fetish existing in the market (in liberal terms). To redo it, what is necessary is not economic creativity but legal institutions to structure exchanges and economic transactions based on a basket of economic goals and not only the binomial utility/price. Without this institutional momentum, there is not and will never be stand-alone stimulus for change goming from economic forces (where interests and power structures work together to maintain the market as it is).

Here, my aim is not to draft or suggest complex instruments for the restructuring of markets, but instead just to make some general observations that may perhaps stimulate ther reflection on the subject. In the first place, it is necessary to distinguish two sipes of situations: those in which it is possible to admit the coexistence of different indices to intermediate economic relations and those where this is not possible. In other words, situations where a user is given the choice of the index that will base its choice and situations where this is not possible.

Among the latter are those in which the choice and presence of price indices generate distortions that affect relevant objectives of social interest. Suppose, for example, the choice of education or health care institutions based only on price indices. Obviously, the essentiality of the good involved prevents this type of restriction. Simply Eliminating the price criteria and basing the choice on the quality criteria is, not samprisingly, often the most successful solution in these areas. That is why countries boast the best rates in the two areas base the provision of these services on public m non-profit institutions that do not charge for the service. The 'market' continues to exist. What happens is that it is no longer based on price but on quality indices. Note, moice and alternatives continue to exist. What disappears is the price/utility index, being replaced by a quality index.

The first situation is more delicate. The coexistence of various chosen indices is often difficult given the enormous power of attraction of the price criteria. The price emerion is not relevant only, nor principally, because it represents a utility index for a moduct. Its greatest importance is to represent, rather, an index of economic availability the individual. That is, the choice of price criteria is natural, not so much because it expresents a real utility index for the consumer, but rather because not spending too much (ie, choosing the product with better price) represents greater residual availability resources (and, therefore of economic well-being) to the consumer.

Thus, the use of the price criteria is natural (even if as a rule in the current economic sem, manipulated and dominated by a few sellers) just because of its importance as residual welfare index'. The central problem is, precisely because of its reduced as a criterion for verification of scarcity, that the price criteria already is and will acreasingly be of little use as an element capable of ensuring long-term economic BOWS.

Let me explain. Classical economics and its faith in the price as an intermediary is **be product** of an economy of abundance. The price is only a regulator of supply and and if these can vary over time. A persistent upward movement of the prices to demand is of no use if the good is of high importance to the consumer (highly essential), nor can it influence the supply if the sources of raw materials for their production are scarce. On the other hand, moves to lower the price are of no use. The cannot reduce supply or expand consumption if already at the maximum possible given the scarcity of the raw material. In this framework, price movements become increasingly the product of pure market domination or speculation (phenometric product) and not a rebalancing of supply and demand.

Two movements are then needed. Firstly, you need to ensure that the actual probability which will always continue to be an important benchmark for the consumer in 'marrelations' (given its importance as an index of residual well-being), is more representive of supply and demand and less determined by speculative movements exercise of power from those who hold a higher level of information than others need to imagine, therefore, creative institutional instruments, which eliminate dispersion resulting from concentration of information in the economy. This can done by, as discussed below, eliminating price dispersion of exchanges and institute alization of markets that concentrate the most possible transactions.

But that is not all. It is also imperative to create and foster new comparindicators for products capable of dealing with the issue of scarcity. This indicator must address two basic problems. First, an indicator must be able to data on the consumer's residual welfare, which as seen above, is one of the factors leading to the predominance of today's price criteria. That is, the consmust understand what welfare results from consumption of this product. Second indicator must be able to convey clear and simplified information to the consumption of the scarcity of the product and the natural resources necessary for its product. Only this way can it be a useful element for stimulating economic flows in the meand long term. Such long-term economic flows will never be sustainable if not consumer with other 'interests of the consumers' that must find expression in the regular market flows, as environmental protection and wealth distribution.

b. Instruments: Institutionalization and New Indicators

If it is true that price dispersion is a much more common phenomenon than one imagine, and if it is produced in all or practically all markets, then the 'free' operand non-institutionalization of the majority of the markets can generate great sions. Indeed, the phenomenon of price dispersion means that formation of price a product of the interaction between supply and demand, but rather the asymmetry or concentration of information that makes it so that in practice, economic agents or merchants can sell their products in different regions or at times for different prices. This pattern of price determination in practice only misinformation of the consumer and not the conditions of scarcity and abundance these products (with all the caveats outlined above for determination of scarcity 'marketplace' mechanisms).

In this case, the operation of a 'free and non-institutionalized' market only more concentration of power and uncertainty. If this is true, then most of the that exist today need to be somehow regulated or institutionalized. And this is the first important postulate of this important topic on transformation of markets necessary that the law enters the majority of markets, because without it, its generates increasing economic distortions.

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The first form for law to 'enter' these markets is through its institutionalization - for stance, through the (legal) construction of markets that concentrate the largest mussible number of transactions. The classic example for this is the stock and modities exchanges. With respect to commodities, the current functioning of exchanges is only a parallel, normally future market, capable of allowing the presence big players from one side or other parties interested in making a 'financial hedge' of positions.

This is not the type of institutionalization required. Markets in which there is Espersion of prices should, generally speaking (and as noted above this case is perhaps most common), necessarily have the most significant part of their transactions arried out through a special commodities exchange created for this purpose and which contrates most of the transactions. The presence of all sellers and buyers in the same regulated and institutionalized environment can help reduce the problem of dispersion reduce the effects of the exercise of economic power in the markets. Obviously, this to occur, it is necessary that speculators are excluded in favour of only those market.

It is a fact that, due to the complexity of their creation and operation, such estitutionalized markets could not be introduced in all sectors. It is also a fact that even bough this alternative is not always a practical possibility in direct sales to the consumer, in many markets it is quite feasible in relations between producers and memediaries (wholesalers and retailers). This introduction made through the law, and provided it is mandatory (ie, creating a stock exchange and having the legal obligation posed on the largest sellers and buyers to execute a significant portion of their mansactions on these markets), with its operation recognized and regulated under the would already be transformative in terms of its operation. This would mean at its simply an introduction of the law in the operation of markets, which today operate marily on the basis of power relations.

But the introduction of the law should not only be to institutionalize its operation, also to transform it. Markets need more than mere institutionalization; they need manuformation of their parameters and functioning,

As was already said above, a parameter that undoubtedly lacks transformation is the parameter as the main element of information transmission. There is a pressing to find other indicators able to convey more useful information to the consumer simply measuring the marginal utility. This one-dimensional perspective must be,

It is important to note that the Brazilian experience with the electricity sector in the 1990s semonstrates exactly the problems that may arise in a market that does not take into account the instrument to discipline economic flows. It is possible to see there many of the mobilems mentioned in this work in respect to markets. Firstly, because an artificial market was mented there, in a sector of essential commodities in which market operation would not be possible, precisely because the good has many of the characteristics of the common good, and be disciplined by market criteria. But that is not all. The model adopted, imported from mother reality of power generation was not adaptable to the Brazilian system, specifically because it is incapable of dealing with the problem of scarcity. See Calixto Salomão Filho, Tegulação da atividade econômica: princípios e fundamentos jurídicos (Portuguese 2nd edn, Malheiros 2008) 30.

as seen, surpassed in a world of absolute scarcity of resources. The futility of price as a measure of scarcity is clear (see Section III.a).

There are, on the other hand, various possible measures that may be useful to the consumer. One measure is something we can call social efficiency of the product which shall reflect its form of production (with respect to labour rules), compliance with environmental standards, etc. Transformed into one or more indices prepared and disseminated by qualified institutions they would help consumer choice immensely.

This is not the place to discuss the form and content of these indices, but only to suggest general terms. What can be said, however, is that they would be able to provide a positive screening of product qualities, highlighting greater 'social efficiency'. This screening or valuation of qualities has proven extremely useful when used in markets. In the case of goods, it would allow one to begin to create a culture in the consumer arena of respect for social and environmental values. It is clear that this is something that takes time, and it would not be possible to simply replace the price standard for a new criterion (precisely because of the importance of price as a measure of residual welfare – see Section III.a above). But experience in other markets shows, I repeat, that such kinds of instrument are quite effective to expand information and eliminate distortions, especially economic power and its exercise in the market. The index of social effectiveness undoubtedly helps to minimize these effects.

Allowing selection of social efficacy makes it possible to restrict the effect of economies of scale, which are reflected in price and always benefit large producers increasing their market power. But that is not all. It also allows tailoring market operation to the needs of current times. Better allocation of resources and respect for the environment directly affects the primary issue to be resolved by operation of the economic system: scarcity. As seen above (Section III.a), the criterion of price is practically useless for its treatment. The measure of social efficacy, precisely because it allows one to include the natural resource utilization rate in the production of goods allows one to create a movement towards relevant awareness. An index could even be included for relative scarcity of products used as inputs in the production of goods and to serve as a guide to restrict their consumption.

Obviously, for all this to be possible, it is necessary to face two major problems. In the first place, there is the question of how to provide sufficient clarity and transparency to this index or indices so that they can be understood by the consumer and

and allows us to believe that this alternative choice can be offered in other markets and other products in connection with socially more significant choices.

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The second pre As seen above, t influenced by its recent experimen moral attachmen attachment to the market when it c indices, which is residual utility (caused by the ma alistic and profitment, the most i individual behavi there is a compa impressive. That not all. This effection number of interac social economic i very high.

There are two and their fluctuat the result of econ The first effect of effective trade-off element (index or better environme publicized, an eff the use of such in creates incentives to create equally of the treates incentives the treates incentives the treates incentive the treates in treates in the treates in the treates in treates in the treates in treates in the treat

Exchange (Bovespa) in the 2000s was precisely to create differentiated standards for legal requirements and 'corporate governance' practices, which would allow investors to choose the most interesting combinations of financial soundness and legal guarantees, ie, another 'market was created or 'another possible choice' consisting precisely in the choice of companies with good 'corporate governance' (ethical) practices. The effect of creating this new market represented huge differentiation and valuing of component companies showing the potential and need for creating and institutionalizing other types of choices. See Calixto Salomão Filho 'Análise estruturalista do direito societário' in *Novo direito societário* (Portuguese 4th can Malheiros 2001) 68 et seq. Although created in a specific environment such as capital markets the central idea of creating a market based on a choice other than merely price is very important

Armin Falk a

ibid. 709.

selection criteria. The good news is that there are highly successful screening medents, or valuing of qualities, which suggests that the problem of clarity and to information can be overcome with institutional creativity and that it is to create or modify markets based on valuing of positive qualities and not on price (see note 11).

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the case of goods of mass consumption, such indices should be developed and eminated by a dedicated and recognized entity, regulated by the state, which would various indicators, developing an integrated index and the product value assessed in terms of each of the objectives pursued. It would be interesting to develop and an environmental index, which would express the value of the product and compare the various products respectively for the social index in terms of for labour and social values in production and marketing, and for the mental index in terms of respect for environmental values.

second problem, as serious as the first, is the willingness to use the indicators. seen above, the price criterion is natural and has an attractive historical viewpoint esced by its importance as a measure of residual utility. But that is not all. As experiments help demonstrate, market participation encourages greed, decreasing attachment of individuals.12 Thus, for instance, individual declarations of ment to the environment or revulsion at slave work are often overlooked in the when it comes to paying a lower price. This means that an alternative index or which intend to introduce moral elements other than merely effective and utility (price), run the risk of having limited use. In fact, interaction itself by the market helps disseminate information about behaviour patterns (individuand profit-oriented) prevalent in society. This is why in the mentioned experithe most restricted moral standards can be found in the comparison between behaviour seeking profit in the market, which leads one to believe that when is a comparison with non-individualistic patterns, the results will be even more ressive. That is, market interaction itself produces less moral attachment. But that is This effect of diffusion also leads to the empirical finding that the greater the ber of interactions, the lower the moral standards.13 Therefore, the probability that economic indices will simply not be considered in the functioning of markets is high.

were are two tools that can minimize this risk. First, it is necessary that the indices beir fluctuations are published and widely disseminated. It is also necessary that sult of economic flows (market) after the introduction of the indices be known. First effect of this publication is awareness - that is, understanding by users of the trade-off existing (or not) between the economic element (price) and the social (index or alternative indices). The fact that there are alternative products with environmental and social standards that are not consumed can be, if well an effective tool for awareness and moral pressure on people and users for of such indices as an instrument of choice. That is, if it is true that the market incentives for individualistic and economic patterns of behaviour, it is necessary equally widespread institutional elements to counteract this trend. An expected

Armin Falk and Nora Szech, 'Morals and Markets' (2013) 30 Sciences 707. mid. 709.

result is that in the medium term all, or at least many, of those able to replace a price for an index or relevant social index do so, with the criterion of low price being restricted to that type of consumer or user who simply is not in an economic situation to trade off price for social improvements (assuming of course that the indicators point in opposite directions, which is not necessarily true).

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On the other hand, the comparison between price indices and social indicators can also have an effect on the supply side. If it is observed that a particular company or product line has a consistently inverse relationship between price and social indicators, it is possible to imagine compensatory measures, such as a fiscal surcharge where the amount of the tax is calculated to create and allocate funds specifically for improvement of social and environmental indicators that have been targeted through the social indices. That is, knowledge of the discrepancy between indices can serve to stimulate measures for the decrease of that discrepancy.¹⁴ This effect on supply side can be particularly important in basic staple products where the effects on the demand side are smaller since a considerable part of the population, particularly in countries with high inequality, will not be able to pay a potentially higher price for products with high social or environmental value, no matter how great the moral concern with such issues.

IV. CONCLUSION

The conclusions reached by a chapter on the market in regard to the past are not very encouraging. They are, however, potentially promising for the future.

The reality is that the market and its assumptions are not and never were the subject of critical legal scrutiny. Although many of their assumptions are now known to be unreal and recognized as such, even in the most refined economic theory, 15 significant institutional modifications have been introduced in its operation.

It is the role of the law and economic theory to do it. The law, whether prohibiting the operation of certain markets or transforming their operation, must intervene in order to guarantee that new realities, such as scarcity, environmental concerns or redistributive needs of society, are reflected at the time of realizing economic flows.

¹⁴ The comparison with what occurred with Novo Mercado is useful. The creation Corporate Governance Indexes and its growing detachment from IBOVESPA (standard principles of shares) increases stimulus for companies to migrate to the new segment. Here, was a demand that led to changes in supply. In the case of markets for products of consumption contemplated here, this demand pressure may be slower due to the need products and the absence of consumers ready or able to substitute traditional price indexerged to the price side by the need to preserve residual utility), requiring a more intervention, even of a tax nature, by the state.

The most critical conclusions centre on the so-called economy of information whose exponents are acclaimed economists and Nobel Prize winners. The most influential starting of this economic line of thought is in Akerlof (n 2) 448. Also relevant are the latter, such Stiglitz and Spence, all converging towards demonstrating the unrealism of the assumption full and complete information and/or transmission of information made by neoclasses economics on the functioning of markets.

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This, in my opinion, is one of the major tasks to which the law must be directed in required major innovations, today human progress, both socially and economically, seems to on market deconstruction and reconstruction by law, which can often mean markets.