Cyclical Effects of a Common Response to Financial Crises

Amitai Aviram*

Abstract: In the wake of financial crises, public authorities frequently respond with retroactive public modification of private contracts (“RPMPC”), to transfer value from those who fare better in the crisis to those who fare worse. Recent examples include staying foreclosures, authorizing bankruptcy courts to modify mortgage terms, or threatening criminal prosecution to induce banks to undo transactions made with their clients.

RPMPCs have greater political appeal than other forms of redistributive government action (e.g., increased government spending and taxation). RPMPCs are expected to reduce future investment, as investors fear similar actions in future crises. But how harmful is that? Market-skeptics question that the market correctly determines the optimal amount of investment, and are thus untroubled by government’s manipulation of it. And to appease those who do trust market allocation of investment, government can offset the investment reduction by subsidizing investment (e.g., making mortgage interest tax-deductable to encourage lending and offset the effects of staying foreclosures or of court-modified mortgage terms).

This essay argues that RPMPCs are significantly harmful from both market-trusting and market-skeptic perspectives. Rather than a permanent reduction in future investment, RPMPCs reduce investment cyclically – significantly when RPMPCs are imposed, but declining gradually as cognitive biases cause managers to underestimate the risk of future contract modifications and agency costs incentivize the managers to increase investment regardless of future RPMPC risk.

Cyclical fluctuation in investment deterrence may seem less harmful than permanent deterrence, but the opposite is true. As this essay explains, cyclical fluctuation of investment makes RPMPCs harmful from the perspectives of both market-skeptics and market-trusters, and exacerbates the magnitude of future business cycles.

* Professor of Law, University of Illinois.
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I. Introduction

Though the future occurrence of financial crises is all but guaranteed, when a crisis occurs those who suffer from it are usually seen as having unexpectedly bad fortune and those who benefit from it are seen as being beneficiaries of a windfall. To correct these perceived imbalances (or perhaps simply due to political calculus), a common public response to financial crises involves retroactively modifying existing commercial investments in a way that aids the crisis’ victims (e.g., stays on home foreclosures). This article will refer to such responses as retroactive public modifications of private contracts (“RPMPCs”).

The prevalent view among economists is that RPMPCs, which have the effect of retroactively reducing the return on investments that were already made, are harmful to social welfare because they produce a constant future reduction in investment. For example, a lender would reduce the amount of credit offered in the future, knowing that come crisis she could not rely on the ability to foreclose collateral.

In this essay I argue that RPMPCs are in fact harmful, but not because they cause a permanent reduction in investment. Scholarship on cognitive
biases has highlighted the impact of availability bias on assessing the probability of a given event: thus, we tend to over-estimate the likelihood that law affecting our commercial investments would be retroactively modified when we observe other instances of such modification of others’ investments (such as at a time of financial crisis), and we under-estimate the same risk when we do not observe such modifications (such as at a time of prosperity).

Furthermore, even an unbiased manager is likely not to factor the expected harm from future RPMPCs in her investment decisions as long as a financial crisis does not seem imminent, because of an agency problem: a manager’s tenure is often shorter than a full business cycle, and so the loss caused by RPMPCs that follow in the wake of a financial crisis will likely occur during the tenure of another manager. Meanwhile, if she were cautious and factored in the cost of future RPMPCs in the investment decision, the manager would forego what to the market at that time seem to be profitable investment opportunities, possibly costing the manager her job. This was captured by Citibank’s former CEO, Chuck Prince, who said (very shortly before the recent financial crisis erupted) that “[w]hen the music stops, in terms of liquidity, things will be complicated. But as long as the music is playing, you’ve got to get up and dance.”.

Thus, the actual affect of RPMPCs on investment is cyclical: investment is reduced around the time RPMPCs are created, but this effect dissipates as the business cycle turns and the economy is booming again. At first glance, a cyclical fluctuation in investment may seem better than a constant reduction in investment, but in fact it is typically significantly worse for social welfare. RPMPCs deepen the shortage in investment during the crisis without dampening excessive investment during booms; it makes the economy more cyclical than it otherwise would be.

There are several reasons why this cyclical effect is worse than a constant reduction in investment. For those who believe investment was

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excessive and should be curtailed (e.g., a judge who denies foreclosure to deter future lending by a firm she believes was “pushing” its loans on people it knew were likely to default on the loans), a constant reduction in investment is a good thing, but a reduction in investment occurring during busts (when investment is already scarce) but not during booms (when excessive investment tends to occur) is harmful. Conversely, those who believe government should not curtail investment can offset a constant reduction in investment by subsidizing the same investment (e.g., offset the stay of foreclosures with a subsidy to mortgage lending, such as allowing individuals to deduct their interest payments). However, such subsidies would not offset a cyclical effect on investment; rather, they would simply replace insufficient investment during a bust with excessive investment during a boom phase of the business cycle.

This article proceeds as follows: Part II presents a few examples of RPMPCs to demonstrate both the variety of areas in which they are used and the wide range of government actors that use them. Part III explains the political appeal of RPMPCs and the reasons that market-skeptics often find RPMPCs desirable and market-trusters find them tolerable. The heart of this essay, in Part IV, describes why contrary to common assumptions the effect on RPMPCs on investment is likely to be cyclical, and why this requires market-skeptics to reassess their support to such measures and market-trusters to be more concerned about these measures. Part V concludes that a correct assessment of the effect of RPMPCs is particularly important because of the inevitability of future financial crises, and because of the prevalent use of RPMPCs in such crises.

II. Examples of retroactive public modifications of private contracts

1. Foreclosure relief

RPMPCs are used by all branches of government, though their political appeal makes their use more attractive to elected officials. In the case of foreclosure relief, all three branches have at times attempted retroactive modification of mortgage terms.
(a) Legislative RPMPCs: An early example of American legislative RPMPC is a wave of debtor relief legislation prompted by the Panic of 1819. Much of this legislation took two forms:

“[Stay laws] postponed execution of property when the debtor signed a pledge to make the payment at a certain date in the future. Minimum appraisal laws provided that no property could be sold for execution below a certain minimum price, the appraised value being generally set by a board of the debtors’ neighbors.”

Foreclosure relief diminishes the value of the lender’s investment by curtailing the ability to access the collateral (the real-estate property) when the debtor defaults. Stay laws delay foreclosure, while minimum appraisal laws reduce the probability that a sale could take place by setting a floor price that may be above the market price of the property.

Several states passed foreclosure relief statutes following the Panic of 1819. For example, Maryland passed a stay law, while Pennsylvania passed a minimum appraisal law.

Foreclosure relief legislation was not a new phenomenon in 1819. Ohio, for example, had a minimum appraisal law since its inception as a state in 1803, and one scholar presented both stay laws and minimum appraisal laws.

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4 The appraisers, who are the debtor’s neighbors, are likely to appraise the house at above its market value for three reasons. First, they are likely to have social ties to the debtor and thus may want to set a price that would either thwart the foreclosure sale or would leave a surplus for the debtor after satisfying the loan. Second, the sale price of neighboring properties could affect the market value of the appraisers’ own property, and thus the appraisers have an incentive to set a high price for the property to boost (or at least prevent a decline in) their own property’s value. Third, even if the appraisers do not act strategically, they are likely to be affected by an endowment effect that makes them value their neighborhood at a price higher than they would value it had they not already lived there. If the marginal buyer is an outsider, the market price would not include the value added by the endowment effect, and thus even good faith appraisers may price a neighboring property above its market value.
5 Rothbard, supra note 3, at 50.
6 Id., at 57.
7 Id., at 58.
appraisal laws as “an intermittent feature of American governance since early colonial Virginia.”

Nor is foreclosure relief legislation a relic of the past, or unique to American law. The recent financial crisis has prompted legislatures worldwide to consider such measures. Latvia’s prime minister, for example, has proposed legislation that would limit Latvian homeowners’ mortgage liabilities to the value of their homes, \textsuperscript{9} retroactively converting the mortgages into no-recourse loans.

(b) Judicial RPMPCs: Where foreclosures require judicial approval, judges can and sometimes do provide what effectively amounts to foreclosure relief by dismissing or delaying foreclosure proceedings. In the recent financial crisis, judges in several states have dismissed or delayed foreclosures for a variety of reasons such as not being satisfied with evidence that the creditor owned the mortgage, or delaying proceedings until the creditor provided an affidavit explaining why it, a collection agency, and other financial entities provided identical addresses. \textsuperscript{10} Such actions are not necessarily motivated by an interest in thwarting the foreclosures: mortgages are often acquired and sold multiple times, and thus ownership of the mortgage is not always obvious. Likewise, dismissal of a judicial proceeding for technical defects is not uncommon. However, the incidence of foreclosure proceeding dismissals seems to increase during financial crises, suggesting that, at least, judges may more actively scrutinize foreclosure petitions for defects during a crisis. Even if judges do not abuse the letter of the law, the enhanced standards applied during financial crises (if they differ from the standards that existed at the time the mortgage was made) increase the cost and reduce the certainty of the foreclosure remedy for creditors, and therefore deter future loans. This concern increases where judges have greater discretion in evaluating the petitions (thus increasing the judge’s ability to

\textsuperscript{8} Id., at 47.
modify the contract without exceeding their authority), and when judges are elected for their position or consider their judicial position a stepping stone to an elected position (thus increasing the judge’s incentive to modify the contract in response to popular sentiment).

(c) Executive RPMPCs: Local law enforcement can engage in an RPCMC by refusing to cooperate in the execution of a foreclosure. In the recent financial crisis, Sheriff Thomas J. Dart of Cook County (Chicago) suspended evictions of residents of foreclosed properties, and Sheriff John D. Green of Philadelphia suspended sales of foreclosed properties.\footnote{John Leland, \textit{Sheriff in Chicago ends evictions in foreclosures}, \textit{New York Times} (Oct. 8, 2008).}

Local law enforcement does not have the authority to modify private contracts, and they did not present their actions as attempting this. Rather, the enforcement suspension was purportedly aimed to mitigate abuse of the foreclosure process, such as creditors’ failure to provide advance notice and grace periods to the debtors. Sheriff Dart claimed that “[j]ust in the past month, about a third of the people we were asked to evict were under very questionable circumstances. It got to the point that enough was enough.”\footnote{Id.} Given, however, that the suspension affected all mortgage enforcement and not only abusive enforcement, these measures increased the cost and reduced the certainty of the foreclosure remedy for law abiding creditors, and therefore the expectation of similar actions in the future should affect creditors’ calculus in making future loans.

\section*{2. Bankruptcy}

Bankruptcy law inherently involves retroactive restructuring of private contracts, though it can increase (rather than reduce) investment if it provides greater certainty as to the way in which contracts would be restructured (since the alternative would be a scramble among creditors to seize the insolvent debtor’s assets).

The focus on retroactive restructuring, however, makes bankruptcy law a natural vehicle for less predictable modifications designed to
redistribute the payoffs of private contracts in favor of victims of the financial crisis. The recent crisis provided several illustrations of potential RPMPCs.

One example is proposed legislation (which has not, as of yet, been enacted) that authorizes bankruptcy courts to modify mortgage terms such as repayment periods and “excessive” interest rates. Another example is the Chrysler bankruptcy proceeding, in which Chrysler sold its desirable assets to a newly-formed entity controlled by its some of its creditors (the U.S. government and the United Auto Workers union), effectively restructuring the company despite the protests of some of its creditors, who alleged that the priority of their claims to Chrysler’s assets was violated.

If these allegations are correct, the Chrysler bankruptcy is an example of a RPMPC, transferring wealth from Chrysler’s senior creditors to other stakeholders who would have suffered from Chrysler’s liquidation, such as United Auto Workers (which was an unsecured creditor), Chrysler’s employees, dealers and suppliers. Whether the allegations are correct, however, is difficult to ascertain. The procedure used by Chrysler maintained opacity as to the market value of Chrysler’s assets, and therefore it is impossible to determine whether priorities were violated. The U.S. Court of Appeals for the Second Circuit affirmed the bankruptcy court’s approval of the sale.

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16 Ind. State Police Pension Trust v. Chrysler LLC, 576 F.3d 108, 118 (2d Cir. 2009). This decision was vacated by the Supreme Court, 78 U.S.L.W. 3359 (Dec. 14, 2009), which ordered the Second Circuit to dismiss the appeal as moot (but vacated the decision because it did not hear the substantive issues).
Whether or not the Chrysler bankruptcy modified bargained-for priorities, the procedure used in the Chrysler bankruptcy can be misused to result in such modifications, whether intentionally or inadvertently.\textsuperscript{17} Given this risk, and the likelihood that courts would be more accommodating to such proceedings when they are sponsored by the government and occur during a time of financial crisis, the threat of such sales may act as a RPMPC and deter some future investment.

3. \textit{Fraud allegations}

Another manifestation of RPMPCs takes the form of allegations that the parties that benefitted from certain type of financial transactions misrepresented the risks involved to the party that lost from the contract. Such allegations – typically made in civil or criminal charges by a law enforcement agency – are then settled in return for a sweeping dissolution of the financial transactions, regardless of whether a given transaction was tainted by misrepresentations.

A recent example is the settlement of charges regarding Auction-Rate Securities (ARS), a debt security (like a bond) that offers higher yields than short-term debt in return for a higher liquidity risk (a risk of not being able to sell the investment). The liquidity risk seemed negligible while financial markets were healthy, but the market disappeared almost entirely as the financial crisis snowballed. Many investors found themselves stranded with the securities and unable to sell them. In the wake of crisis, several state Attorneys General opened investigations alleging that investment banks that sold ARS products mislead their customers into underestimating the liquidity risk. To settle these charges, the investment banks agreed to buy back billions of dollars worth of ARS, essentially assuming the losses that accrued to the buyers of these securities.\textsuperscript{18}

There may well have been instances – perhaps even many instances – in which banks have mislead their customers about the liquidity risks inherent in ARS. The settlement, however, made no effort to identify the

\textsuperscript{17} Roe & Skeel, \textit{supra} note 14.
\textsuperscript{18} \textit{Kicked in the ARS}, The Economist (Aug. 16, 2008), p. 69.
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scope of such misconduct, to apply the remedy against the banks in proportion to the misconduct or to apply the remedy in favor of customers who suffered from the misconduct. Instead, a large swath of investors were “bailed out” under the threat of prosecution. Since liability had more to do with the amount of ARS sales a bank made than with its culpable behavior, it had become a cost of doing business that should factor into the bank’s cost-benefit calculus of future investment.

III. The appeal of RPMPCs

1. Political appeal

RPMPCs allow government actors to support victims of a financial crisis in a more politically feasible way than alternatives. Of course, victims can and often do receive public funding to support them, whether within the existing social safety nets or in the form of ad hoc bailouts or stimulus packages.

Economic realities, however, present a high cost to public funding. The financial crisis typically reduces the government’s tax revenue, creating or exacerbating a budget deficit even before the cost of a bailout are considered. Tax increases – never popular – are particularly resented when taxpayers feel the pinch of a crisis, and may also hinder recovery by reducing taxpayers’ spending. Another method of financing the bailout – borrowing more money – risks raising interest rates and crowding private borrowers out of the capital markets, which would also hinder recovery. Finally, “printing money” (i.e., having the central bank purchase government bonds) may spur inflation. The costs associated with each of these financing alternatives limit the funds a government can allocate to supporting victims of the crisis.

Forced private funding provides an often politically attractive alternative to public funding of crisis victims, particularly when the private parties forced to fund the victims are perceived to have profited from the crisis (e.g., short sellers) or perceived to have caused it (e.g., investment banks and large commercial banks).
Some forced private funding is explicit, such as the Obama administration’s proposal to tax large banks that received taxpayer assistance, in order to reimburse the Troubled Asset Relief Program for losses suffered in bailing out ailing firms.\(^{19}\)

However, implicit forced private funding, which transfers wealth to crisis victims by modifying the victims’ contracts with other private parties rather than by explicit taxation, is often politically more feasible. The cost of the wealth transfer is often invisible to the public and sometimes not clear even to the parties to the modified contract. Furthermore, it is easier to present contract modifications than taxes as reforms derived as lessons from the crisis and designed to prevent future abuses.

It is precisely the need to distinguish actual reforms (designed to prevent socially harmful behavior in the future) from redistributive measures (designed to assist crisis victims) that causes this article to focus on retroactive public modifications of contracts rather than any public modification of contracts. The analysis that will be undertaken below, and that assesses the social cost of public modifications of private contracts, applies equally well to retroactive and prospective modifications. However, prospective modifications may be aimed at improving net social welfare by enhancing the regulation of the governed transactions (for example, by limiting certain transaction terms that proved in the past prone to abuse). If this is the effect of the contract modification, then we must offset the benefits of the enhanced regulation from harms that resulted from deterring future investment. Assessing such benefits would require a case-by-case analysis and is beyond the scope of this article.

The fact that a modification is made retroactively, in contrast, provides evidence that it was designed as a redistributive measure, since one would expect that a regulatory enhancement, if believed to be beneficial, would apply to future conduct that can be ‘nudged’ towards more socially beneficial ends, rather than applying it to past conduct that cannot be

influenced. Furthermore, if the motivation is indeed redistributive, a solely retroactive measure would provide crisis victims with a one-time support. A prospective measure would support these victims indefinitely, which makes little political or redistributive sense because the victims of today’s crisis may not be deserving of additional support in the future.

Thus, this article presumes that a retroactive (but not necessarily a prospective) public modification of a contract has redistributive effects (of supporting crisis victims), but not regulatory reform effects (of improving the social efficiency of future transactions). Redistribution may be a legitimate goal, but as a wealth transfer it (in itself) neither adds to nor reduces social welfare. Thus, the costs assessed in Part IV below are net costs of the measure to social welfare.

2. *Perceived economic impact – Market-skeptic’s view*

If one is skeptical of the free market’s ability to allocate investments adequately (a group I will call “market-skeptics”), RPMPCs may be seen as a welcome intervention. Some scholars express concern that during times of abundant capital, financial institutions expand their business (and their profits) by forcing loans on customers who are likely to default, with the intent of profiting by charging fees and higher interest rates following a default. If these concerns are correct, one may reason, then a RPMPC that deters future investment may be a blessing, since the market over-allocates capital to financial markets that then employ it in predatory ways. If some capital is scared away, this concern may be mitigated. This is, of course, a second best solution compared to regulation identifying and directly prohibiting lending that is predatory, but where it is difficult to identify which lending is predatory and which is socially valuable, a crude reduction in the total amount of money allocated to lending may be the best method to mitigate predatory lending.

To sum, from the perspective of a market-skeptic, the RPMPC may be perceived to be a blessing precisely because it reduces future investment.

3. *Perceived economic impact – Market-truster’s view*
RPMPCs deter some future investment that would have been made were markets left to their own devices. If one trusts that markets allocate financial investment in a more efficient way than government would (a group I will call “market-trusters”), then this outcome should be harmful to social welfare, since it reduces investment below the efficient level. For example, consider a RPMPC in the form of a stay on foreclosures. Such a measure would likely reduce investment in future mortgages, which would be socially harmful if the previous (market-determined) level of investment was the efficient level.

This concern was raised at least as early as 1820, when an author identified as “A Pennsylvanian” wrote an op-ed arguing against stay and minimum appraisal legislation.20 The author claimed that these laws not only fail to correct the causes of the Panic of 1819, but “they would induce the withdrawal of large amounts of capital now employed and mitigating the distress.”21 Examining interest rates on securities, the author concluded that large amount of idle capital awaits the return of public confidence, and that the legislation was destroying this confidence.22

The harm may be mitigated, however, by an offsetting subsidy. For example, government may allow borrowers to deduct interest payments on their mortgages from their taxable income.23 The deduction should allow lenders to charge higher interest rates, since a portion of the interest would be offset by tax savings. This could compensate for the deterrent effect of RPMPCs, and thus facilitate a return to an optimal level of investment. Of course, it is difficult if not impossible to calculate precisely the magnitude of the subsidy necessary to match the deterrent effect of a RPMPC, but through gradual tweaking of the subsidy in response to the effect on investment, one may approximate the pre-RPMPC level of investment.

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20 A Pennsylvanian, PHILADELPHIA UNION (Feb. 11, 1820), quoted in Rothbard, supra note 3, at 57.
21 Rothbard, supra note 3, at 57-58.
22 Id.
23 In tweaking the appropriate level of subsidies, the government is not limited to pecuniary benefits such as grants or the foregoing of taxes, but can also experiment with regulatory cost reductions, such as changes to zoning requirements, exemption from or shortened regulatory procedures, etc.
Why would a government, which seems bent on forcing private parties to pay for supporting crisis victims, be interested in then subsidizing the forced private parties? Such a move may allow politicians controlling government’s policy to make a “double play”: they score political points with the victims by compensating them (and where the forced private parties are unpopular, they score additional points for forcing them to foot the bill). Then, they score political point with the forced private parties by creating a subsidy that offsets the harm caused by the RPMPC. In addition, a subsidy can be structured to directly benefit someone other than the forced private parties (e.g., homeowners receiving the mortgage interest deduction) while indirectly benefiting the forced private parties. In such cases, politicians still score political points with the forced private parties, but also with the homeowners who are direct beneficiaries of the subsidy, while they avoid the appearance of subsidizing the forced private parties (who may be unpopular).24

In summary, from the perspective of a market-truster, RPMPCs reduce social welfare, but can be relatively easily corrected by an offsetting subsidy.

IV. The real economic impact of RPMPCs

1. Cyclical – not constant – reduction in investment

From the analysis presented above, one may conclude that RPMPCs are at best beneficial and at worst, harmful but manageable. The analysis, however, suffers from a fatal flaw – it assumes that following a RPMPC, future investment is permanently reduced. This assumption, illustrated in Figure 1 (which shows investment levels throughout the business cycle, before and after a RPMPC affects investment levels), is likely incorrect in most cases.

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24 In addition, the subsidy and the RPMPC do not have to be created at the same time. The RPMPC may be created when the crisis victims are politically significant, and the subsidy – when the forced private parties are politically significant.
Instead, a RPMPC is likely to reduce investment significantly immediately following its imposition (likely, during or immediately following a business cycle bust), but then the investment-deterring effect is likely to gradually wear off, possibly disappearing by the time the business cycle reaches its next boom. Figure 2 illustrates fluctuating investment deterrence (again, the black line represents investment levels over the business cycle without the RPMPC effect, while the red line represents levels of investment after the RPMPC effect is introduced).
Two reasons cause the magnitude of investment deterrence to fluctuate: cognitive biases affecting the perceived risk of future RPMPCs, and an agency problem caused by the fact that many managers’ tenure is shorter than a full business cycle, and therefore those at the helm during recovery and boom phases may rationally expect that they would not be at their position by the next financial bust, when RPMPCs will be prevalent again.

Cognitive biases, and particularly the availability bias, cause managers to overestimate the likelihood and harm to their firm from RPMPCs when such actions are common, and to underestimate the same when RPMPCs are uncommon. The availability bias is a cognitive pattern by which people “assess the frequency of a class or the probability of an event by the ease with which instances or occurrence can be brought to mind.” Amos Tversky & Daniel Kahneman, Judgement Under Uncertainty: Heuristics and Biases, 185 Sci. 1124, 1127 (1974). Therefore, if we recently encountered, read about or heard from others of a certain event, we are likely to over-estimate the frequency or probability

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of that event. The availability bias may be exacerbated by another bias: social amplification, the tendency of one’s perception of a risk to be influenced by others’ perceptions. As a result of these two biases, a highly-publicized RPMPC (or even debates on creating a RPMPC) may cause over-estimation of the probability of future RPMPCs. The creation of a RPMPC often receives significant coverage since the creator often wishes to earn political capital for supporting the crisis victims, and this media coverage makes the existence or contemplation of the RPMPC known to a much larger number of managers. The “availability” of such an event triggers the availability bias and is likely to cause an increase in the risk perceived by each manager. In addition, because the same media coverage is observed by many people in the manager’s social vicinity (such as other managers), the increase in perceived risk would be exacerbated through social amplification, as one manager’s heightened concern with RPMPCs would cause an increase in the same concern by other managers.

It is worth noting that the availability bias is not a form of information asymmetry – the manager may be aware of the history of RPMPCs being created. However, the fact that examples of RPMPCs are not readily available (because she has not read about them or talked about them with others recently) makes the manager underestimate the likelihood that new RPMPCs will be created. Since one’s attention is a finite resource, the opposite effect occurs when other issues occupy a manager’s attention and RPMPCs are not discussed (such as during the boom phase) – availability bias and social amplification (or rather its inverse – social attenuation) cause the manager to under-estimate the probability of future RPMPCs.

In addition to cognitive biases, which may cause a manager to misperceive the probability of RPMPCs and therefore reduce investment too sharply during the bust phase and too little during the boom phase, an agency problem may cause even a manager who perceives the probability of RPMPCs correctly to consciously and intentionally allocate investment in the same way. The reason is that a manager’s tenure is typically shorter than the business cycle. Therefore, a manager making investment

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decisions during the recovery phase or early in the boom phase would be reasonable to expect that the next bust, and the RPMPCs that will follow in its wake, will occur after her tenure as manager has already ended and therefore would not affect the performance of the firm attributable to her.

Furthermore, if enough of her firm’s directors or shareholders underestimate the probability of future RPMPCs, they would view the manager’s caution as excessive and press to deploy more of the firm’s resources. Furthermore, even if the directors and shareholders in the manager’s firm do not misperceive the probability of a future RPMPC, they may evaluate the manager’s performance by comparing it to rivals’ performance. If these rivals’ managers, directors or shareholders underestimate the probability of future RPMPCs and therefore do not reduce investments vulnerable to such RPMPCs, then the rivals’ short-term profitability (prior to the bust phase) may be greater, putting pressure on the unbiased manager to mimic the rivals and act less cautiously, or risk losing her job well before the business cycle turns, RPMPCs are created, and the manager is vindicated.

Similar concerns occur at the bust phase of the business cycle, causing even an unbiased manager to reduce investment more than is warranted by the threat of future RPMPCs. If enough directors or shareholders are biased and overestimate the risk of future RPMPCs at a time that they are highly available and socially amplified, then a manager who does not aggressively cut the firm’s investment (let alone a manager who increases investment to take advantage of other firms’ excessive caution) would be seen as reckless and possibly replaced.

Thus, an unbiased manager could rationally conclude that she should reduce investment during the bust phase of the business cycle in excess of what her assessment of the actual RPMPC risk would dictate, and likewise could be rational in increasing investment during the boom phase in excess of what the actual RPMPC risk suggests. Neither action would be in the best interest of the firm, but each may be required for the manager to maintain her job. Such behavior is common in similar contexts, such as
investing in countries with a history of defaulting on obligations or expropriating foreign investments.\(^\text{27}\)

2. Actual economic impact – Market-skeptic’s view

At first blush the above claim – that RPMPCs cause not a constant decrease in investment but a fluctuating one – seems to mitigate an already not excessively alarming assessment of the harm from RPMPCs. In fact, the fluctuating nature of the decrease in investment significantly exacerbates the harm caused by RPMPCs.

As explained above, market-skeptics believe that markets – at least in some financial sectors – do not allocate investments as well as a regulator could. Their concern, typically, is that during the boom phase of the business cycle, when capital is plentiful, financial firms force their loans on people likely to default on them, with the intent of profiting by charging fees and higher interest rates following a default. A corresponding concern, though one that receives less attention, is that during the bust phase of the business cycle, when capital is scarce, creditworthy and profitable potential borrowers are unable to access credit.

A fluctuating decrease in investment, such as the one caused by RPMPCs, creates problems at both the boom and the bust phases. The decrease in investments is most pronounced during the bust phase, when new RPMPCs are created – reducing investment further precisely when market-skeptics would be concerns about individuals’ lack of access to credit. The investment-reduction effect gradually wanes, becoming

\(^{27}\) See, e.g., Mechel bashing, ECONOMIST (Aug. 2, 2008) 65, 66 (“One reason why the Kremlin is so complacent about foreign investors is that it has never paid the price for destroying Yukos. Rising oil prices, strong global growth and booming capital inflows meant that investors soon forgot about the affair.”); Undergoing repair, ECONOMIST (Nov. 8, 2008) 91 (discussing rulings of Indonesian courts that voided obligations to foreign investors and finding that in the ruling’s aftermath “[s]preads on emerging-market debt in general, and in Indonesian debt in particular, did not widen. The one change was that in accordance with disclosure policies in most developed markets, a new ‘risk’ was added to the offering documents of many Indonesian bonds. Along with insurrection, earthquakes and targeted bombing of key areas, investors were told that the legal validity of their holdings was suspect.”).
negligible by the next boom – precisely the time market-skeptics would like to reduce investment.

Thus, given a market-skeptic’s preferences as to investment allocation and assuming that RPMPCs cause a fluctuating decrease in investment (as described in Part IV.1 above), the actual economic effect of a RPMPC is not positive (as suggested by the earlier analysis in Part III.2), but rather neutral during the boom phase of the business cycle and negative during the bust phase.

3. Actual economic impact – Market-truster’s view

A market-truster generally expects the market to allocate investments better than a regulator would, and would therefore consider the investment decreasing effect of RPMPCs to result in reduced social welfare. However, as explained in Part III.3 above, market-trusters may perceive RPMPCs as tolerable exercises of political pandering, as long as their harmful economic effects are offset by a corresponding subsidy that returns investment roughly to the levels that existed before the RPMPC caused distortions.

However, the fluctuating nature of investment deterrence caused by RPMPCs makes an offsetting subsidy nearly politically impossible. The fluctuating effect of RPMPCs causes investment during a bust to be lower than it would be absent the RPMPC, yet investment during the recovery and into the boom phase approach the levels they would be absent the RPMPC. As illustrated in Figure 3, a fixed subsidy throughout the business cycle would simply replace one problem (insufficient investment during the bust phase of the business cycle) with another problem (excessive investment during the boom phase).
A fluctuating subsidy that would correct the RPMPC distortion would need to subsidize during the bust and decline afterwards, eventually disappearing as the boom phase approaches. This, however, is politically very unlikely. Subsidies and tax breaks are characterized by strong inertia, and are politically difficult to remove once established. Their removal is particularly difficult during boom times, when the public is happy with financial performance and would not like to “rock the boat”. Woe to the politician who sponsored the removal of the subsidy, if the market peaked soon thereafter and rivals persuaded the public that it was the removal of the subsidy that precipitated the end of the boom and the beginning of decline. Furthermore, where the subsidy is given directly to the forced private parties and those parties are not popular, providing the subsidy during the bust phase – as appropriate policy dictates – would conspicuously align the sponsoring politician with highly unpopular parties at the peak of resentment toward these parties (e.g., subsidizing investment bankers during the height of the financial crisis).

Given a market-truster’s preferences as to investment allocation and assuming that RPMPCs cause a fluctuating decrease in investment (as
described in Part IV.1 above), the actual economic effect of a RPMPC is negative and the prospects for implementing corrective policies that would mitigate the harm are much worse than expected in the earlier analysis (in Part III.3).

V. Conclusion: Avoiding a bad response to an inevitable crisis

A common failure, tied to the nature of investment goods, lies behind most financial crises. Under most circumstances, markets have a negative feedback mechanism between price and demand, which maintains their balance. For example, consider the book market. You know how much a book is worth to you, and if you can get it for a price below its value to you, then you buy it. Suppose that there is a shortage of books and their price goes up. If the price of the book rises above its value to you, you won’t buy the book. Since other people do the same, demand for books drops, and this causes the price of books to stop rising.

This feedback mechanism can fail – and even work in reverse – when dealing with investment goods. Investment goods are things we value not because we use them, but because we hope to sell them later at a higher price to someone else. When you buy stock in Microsoft, for example, owning the stock doesn’t make your life better. The only reason to buy the stock is because, hopefully, you will later be able to sell it to someone else at a higher price.

Determining the value of investment goods is much more difficult than determining the value of goods you consume. You know how much you will enjoy reading a book, and so you know how much you’d be willing to pay for it regardless of what anyone else thinks about the book. But you can’t do the same with the Microsoft stock – it’s not worth anything to you in itself; rather, its value depends on how much you think other people would pay you for it in the future.

This is where the market’s price feedback mechanism fails: if investment goods acted like consumable goods, then a rise in the price of the investment good would reduce demand for that goods. But the rise in price conveys new information on how much the investment good is worth to others. So the rise in price may make you revise how much you think
others would pay for the investment good, and therefore you may be
willing to pay more for it following the rise in price. Thus, demand might
actually increase as the price rises, causing the price to rise further.

This is how market bubbles are created. They are sustained even if
market participants realize that prices are unsustainable, because it is
rational to buy an overpriced investment good if you can sell it to someone
else at an even higher price before the bubble bursts. Because bubbles can
persist for years, businessmen who resist them and stay out of the market
may lose their jobs for poor performance much before the bubble bursts
and vindicates them.

Because market bubbles – and the financial crises that occur when
they implode – are inevitable, it is important to understand the effects of
government actions that are politically feasible and prevalent in the wake
of a crisis. Supporting crisis victims may in some circumstances
economically desirable, morally desirable, politically necessary, or all
three at once. This article does not judge the need for such support.
Rather, the article is critical of one particular (and common) method for
providing such support – RPMPCs – because the fluctuating reduction in
investment caused by RPMPCs makes them a particularly poor way of
supporting crisis victims. Yet RPMPCs are common: they are politically
attractive to their sponsors, and they encounter little resistance because
their investment-reducing effect is thought to be permanent, and therefore
market-skeptics applaud them as a way to reduce the previous boom’s
excesses, while market-trusters tolerate them since the harm they caused
seems easy to correct with a corresponding subsidy.

This article demonstrated that in most cases RPMPCs are likely to
cause not a permanent reduction in investment, but a cyclical one in which
a significant investment reduction takes place during the bust phase of the
business cycle, but diminishes over time until the RPMPC’s effect on
investment becomes nearly negligible late in the recovery and during the
next boom phase. Given these dynamics, the article explained why both
market-skeptics and market-trusters should be more wary of RPMPCs and
why both groups are currently likely underestimating the harm from these
measures to social welfare. Despite (and perhaps because) of RPMPCs’
political appeal, greater resistance may be warranted.