HOUSING AND INCOME DISTRIBUTION IN RUSSIA: ZHIVAGO'S LEGACY

Robert M. Buckley
Eugene N. Gurenko

"I'm very glad you've given up those rooms... We should give up still more."
Dr. Zhivago, p. 170

The inadequacy of housing and its effect on the quality of life go a long way toward explaining many aspects of Russian life, but little data has been available to determine how housing affected the relative well-being of the citizenry. This paper presents comprehensive data examining for the first time the effect that seventy years of a socialist housing allocation scheme had on the distribution of income. It seems clear that housing provided by the government or by employers has a value that can be measured to yield useful inferences about the distribution of income and wealth.

This article shows that housing allocation had a progressive effect on the distribution of income in Russia. In addition, when the imputed value of housing is added to household income, the increase in income inequality that occurred in recent years is significantly reduced. The analysis concludes with a discussion of how housing policy could be used to address poverty concerns, an important aspect of the transition process.

On his return home from World War I, Boris Pasternak's fictional character Dr. Zhivago finds that he has to share his family's Moscow mansion with workers and their families. Since at least that time Russians have been sensitive to the effects of housing on living situations. The housing shortage and the difficulties of living in cramped quarters have been a fundamental aspect of Russian life and writings about it. Unfortunately, aside from figures on the number of square meters of housing space produced and surveys based on interviews with émigrés, little statistical material has been available to determine how housing affected the well-being and social position of Russian
citizens. Unlike Hungary, where analysts have produced a considerable body of statistical work describing housing conditions since the late 1960s (Szelenyi 1983; Hegedus 1987; and Daniel 1985), Russian researchers were not able to sift through the data to determine the role of housing in the economy. The only data available from the former Soviet Union were based on the Berkeley-Duke survey of Soviet émigré households, conducted in the late 1970s. As Alexeev (1988, 1990), who examined these data, observes, this survey is not fully representative of the Soviet population. Atkinson and Micklewright (1992) suggest that data on income distribution in the former Soviet Union appeared next to alcoholism and drug addition on the censor's list of prohibited subjects. Not until 1989 did Russia begin to count as income the overall imputed value of housing in the national income accounts (Ivanov, Rybushkin, and Homenko 1993). And until now comprehensive data on how housing affected income distribution were not available.

The article relies on data from the Russian Longitudinal Monitoring Household Survey conducted in 1992, the year before the passage of significant reforms in housing policy. The survey, funded by the World Bank (World Bank–Goskomstat 1993), was the first nationally representative household survey conducted in Russia and covered 6,128 households. Our analysis of these data indicates that housing allocation had a progressive effect on the distribution of income. In addition, when the imputed value of housing is included as income, the increase in income inequality recorded in recent years is significantly reduced. When housing is excluded from income, the Gini coefficient (a conventional indicator of social inequality that equals zero in the case of perfect equality and one in the case of total inequality) for Russia more than doubled between 1987–88 and 1993–94, according to a study by Milanovic (1996). That was the largest increase in the eighteen countries in the study. When housing is included in income, the increase in inequality, while still large, is significantly reduced.

Our analysis suggests that when income is adjusted for housing, the distribution of income under the Soviet regime was much more compressed than is commonly thought (Bergson 1984; Gregory and Stuart 1989). Indeed, efforts to fulfill Khrushchev's dream of realizing the communist ideal by 1980, to provide workers with compensation according to need rather than performance, resulted in an extensive housing-based income transfer mechanism—a mechanism that was a fundamental part of socialist wage policy and one that significantly reduced income inequality.

To better understand housing's role in Russian welfare, we describe housing conditions and tenure patterns there and show how the inclusion of housing affects various measures of income distribution. We then consider how housing allocation affected the distribution of income and discuss the methodology used to measure imputed income. Finally, we discuss some of the policy implications of the socialist system's allocating such a large share of income through this in-kind payment, and we then speculate about how this aspect of income distribution might be affecting the transition process.
The Russian Housing Stock

The housing conditions of most of Zhivago's contemporaries in pre-revolutionary Russia were dismal. A 1912 census of St. Petersburg and Moscow shows eight occupants per apartment; the comparable figure for Paris was 2.7 (Alexeev, Baker, and Westfall 1991). The average living space per urban dweller was estimated at seven square meters. For workers housing was often a bunk in a rough dormitory attached to a factory.

These substandard conditions are no longer the case for the majority of the Russian population. A massive, post-Stalin construction project—one of the largest government-sponsored investment programs ever undertaken—built nearly 20 million apartments in eight years (Morton 1980). Between the end of World War II and the late 1970s, the average living space per capita more than doubled, reaching 16.1 square meters in 1992 (World Bank–Goskomstat 1993).

Despite this enormous investment, the housing shortage was by no means resolved. In 1992 almost 10 percent of households lived either in overcrowded communal flats or dormitories with less than eleven square meters of floor space for each household member (table 1). More than 20 percent of the residents of St. Petersburg and 17 percent of those in Moscow lived communally. For comparison, in 1974 almost 30 percent of Moscow's residents lived communally, and in 1960, 40 percent of Soviet citizens did so (Morton 1980).

Although the vigorous construction programs substantially reduced the shortage of self-contained housing units, the housing shortage—caused at least in part by the massive destruction of World War II—has never been overcome. In contrast to Western countries, where the ratio of households to the number of housing units—a simple measure of overcrowding—was about 0.9 by the early 1970s, the ratio in Russia stood at 1.17 and has increased since then (Alexeev, Baker, and Westfall 1991). Indeed, by 1992 according to this gross quantitative measure, housing conditions were worse in Russia than in either Poland or Albania, countries noted for housing shortages (Guarda 1993).

A recent comparative study of housing conditions shows that qualitative indicators of housing in Russia are far below the average of those for reforming

<table>
<thead>
<tr>
<th>Share of households living in</th>
<th>Russia</th>
<th>Urban settlements</th>
<th>Moscow</th>
<th>St. Petersburg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rentals or sublets</td>
<td>2.1</td>
<td>1.7</td>
<td>0.3</td>
<td>0.6</td>
</tr>
<tr>
<td>Dormitories</td>
<td>3.0</td>
<td>3.9</td>
<td>0.9</td>
<td>0.0</td>
</tr>
<tr>
<td>Communal apartments</td>
<td>6.6</td>
<td>7.3</td>
<td>17.0</td>
<td>20.3</td>
</tr>
<tr>
<td>Self-contained apartments</td>
<td>58.9</td>
<td>69.1</td>
<td>81.8</td>
<td>78.8</td>
</tr>
<tr>
<td>Single-family houses</td>
<td>23.0</td>
<td>14.0</td>
<td>0.0</td>
<td>0.3</td>
</tr>
<tr>
<td>Shared houses</td>
<td>5.9</td>
<td>3.7</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Not known</td>
<td>0.5</td>
<td>0.3</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

socialist economies in Europe (Hegedus, Tosics, and Mayo 1996). In 1992 only 44 percent of Russian households had access to running hot water; 66 percent, central heating; and 67 percent, indoor sewerage (World Bank-Goskomstat 1993). Even those who managed to escape from communal flats found their new dwellings poorly planned and constructed. As Ruble (1993, p. 234) noted: "Years of labor by residents are frequently required to correct a familiar litany of irksome deficiencies in the superficially modern Soviet high-rise apartment building of the 1990s; persistent elevator break-downs, plummeting water pressure, electrical surges, and upper-story windows that shatter in 'high winds’ even though all is calm at ground level; the list goes on.”

These deficiencies were embedded in the tenure structure of Russia’s housing sector. The state owned and maintained almost two-thirds of the housing stock, twice the publicly owned share in Poland, almost triple Hungary’s 25 percent share, and considerably larger than the 17.1 percent share in France and the 2.3 percent in the United States (Buckley, Daniel, and Thalwitz 1996). In large cities such as Moscow and St. Petersburg, the state owned almost 90 percent of the housing, in part because private housing construction was prohibited in cities with more than 100,000 residents.

The state allocated to households this publicly owned housing stock without regard to price. Indeed, for the most part, rents were set by a 1926 law, which remained nearly unchanged until 1992. Because the law held nominal rents and utility costs constant, the high inflation that occurred during the transition meant that by the end of 1992, gross housing services were essentially free.

Our approach to measuring housing income allows us to use the available data to show how this housing subsidy was distributed according to income levels and to examine how this transfer affected the distribution of income. As shown in table 2, income had little or no observable effect on distribution of housing space in 1992. The relationship between income and housing allocation was apparently random: 27.9 percent of households in the lowest income categories and 23.4 percent of households in the highest income category lived in overcrowded housing conditions—less than fourteen square meters per capita. A detailed comparison of the housing available to other income groups also fails to reveal any noticeable patterns.

<table>
<thead>
<tr>
<th>Housing space per household member (square meters)</th>
<th>Average monthly household income per capita (rubles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 7.0</td>
<td>More than 7.0</td>
</tr>
<tr>
<td>Fewer than 7.0</td>
<td>1,500</td>
</tr>
<tr>
<td>7.1 to 14</td>
<td>3,000</td>
</tr>
<tr>
<td>14.1 to 25</td>
<td>4,500</td>
</tr>
<tr>
<td>More than 25.1</td>
<td>6,000</td>
</tr>
<tr>
<td>Total (percent)</td>
<td>7,500</td>
</tr>
</tbody>
</table>

Table 2. Distribution of Urban Housing by Household Income, 1992

The Measurement of Imputed Income from Housing

Despite his caveats about potential biases in his data, the distribution of housing space that Alexeev (1990) gleaned from the 1976–79 survey of emigres was still valid approximately fifteen years later. Table 3 shows that the Gini coefficient for housing space did not change from that survey to the 1992 survey. Conversely—and not surprisingly, given the changes in wage policy under Gorbachev and the economic shocks associated with the transition—the 1992 survey found that Alexeev’s measures of the dispersion and variability of all nonhousing income had changed. No longer was there the same compression and constancy of wages. The Gini coefficients and measures of income dispersion both increased sharply, indicating that inequality had grown.

The data show that a rapid surge in income inequality occurred after 1989. The 1985 Gini coefficient for per capita household income is 90 percent of that for 1989 and only 60 percent of the 1992 figure. Further disaggregation shows that in 1992, 31.7 percent of the country’s total net income—excluding housing-related income—went to the richest 10 percent of the population, while only 2.5

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<tbody>
<tr>
<td>Income from all sources</td>
<td>0.34</td>
<td>0.42</td>
<td>79.3</td>
<td>99.0</td>
</tr>
<tr>
<td>Socialist income</td>
<td>0.29</td>
<td>0.38</td>
<td>61.7</td>
<td>84.0</td>
</tr>
<tr>
<td>Living space</td>
<td>0.28</td>
<td>0.28</td>
<td>67.1</td>
<td>72.0</td>
</tr>
<tr>
<td>Number of rooms</td>
<td>0.24</td>
<td>0.20</td>
<td>46.8</td>
<td>57.8</td>
</tr>
</tbody>
</table>

Note: The coefficient of variation provides a standardized measure of income distribution. It is equal to the standard deviation divided by the mean.

The total household floor space per capita is defined as the total housing space occupied by a family, that is, the total floor space of all bedrooms, living spaces, kitchen, bathrooms, lavatories, entry halls, closets, and storage rooms, including unheated areas. The definition also includes any living space at the disposal of any household member in addition to the residence they share. The per capita levels of housing space are obtained by dividing the total housing space per household by the household size.

percent went to the poorest 10 percent. Cumulatively, these results indicate that by 1992 Russia had, as Atkinson and Micklewright (1992) suggest, come to look like a market economy. The Gini coefficient for 1992 was almost identical to the United States figure for 1991 (U.S. Department of Commerce 1995).

But these figures do not include the value of subsidized housing, which was a significant component of the distribution of income. Rents were approximately zero for all but the poorest households and were only slightly higher for them. Citizens who lived in state or enterprise-owned housing paid low or no rent, in effect receiving substantial in-kind (noncash) transfers. To calculate how the benefits of unpriced housing affected the distribution of income, we derived a measure of the value of the rents and added it to each household's income to obtain a more accurate measure of total household income. We began with Hicks' (1946, p. 172) formula: "A person's income is the maximum value he can consume during a week and still be as well off at the end of the week as he was at the beginning." It is a short definition, one based on theory, and it nicely links current income from wages (or from a profit and loss statement) to the stock of wealth and the consumption associated with changes in it, such as our measure of imputed housing income.

Analyses of household income must be based on official wage statistics. If we augment that information by including the amount that would otherwise be spent on housing, we can link the notion of income to household wealth. Housing is the largest component of noncash income received by households, and it is one that the United Nations recommended be included in household income statistics.

The approach used here to impute the value of housing follows the United Nations (1968, p. 6.22) definition: "The total of owner-occupied dwellings which is to be included in gross output should, in principle, be valued at rent on the market of the same facilities. It may be necessary to approximate the market rent by an estimate which should cover items such as operating, maintenance and repair outlays. . . . depreciation and mortgage interest in addition to interest on the owner's investment in the dwelling. . . ." Thus, we must first measure how much rent a household would have to pay to enjoy the same housing services provided by the state or enterprise. One way to make this notion concrete is to consider an individual who sells financial assets to buy a house with cash. Apart from such considerations as risk, liquidity, and administrative costs, if the person were as "well off" after buying the house as he was before, the imputed income (rent that the owner of the house no longer pays) would be equal to the annual interest that would have accrued on the financial assets. In terms of either the United Nations or the Hicks definition, this imputed value must be included as income if income is to be measured correctly.

We used two approaches—the first based on market value and the second on opportunity cost—to estimate the income equivalent of subsidized rent. To account for the possibility that shortages produced by the rationing system might induce households to pay more, we also used a third conceptual approach based
on the “minimum” cash compensation required to obtain adequate housing. If this approach were used, the value of imputed rents could well be higher than that estimated by the methodologies described above.

**The Market Value Approach**

The most commonly used approach to measuring imputed housing income is to assume it is equal to the market rental value of the housing. This estimate takes the value of imputed income to be equal to the market value of an analogous good. Although a rental housing market did not exist in Russia in 1992, it did exist in industrial nations and several developing countries. Horioka’s (1994) careful analysis of household consumption and expenditure patterns in members of the Organization for Economic Cooperation and Development in 1989 found that the average household’s expenditure on housing was 18.5 percent of household income, and the median was 19.2 percent. Those averages varied little from country to country.

The World Bank Housing Indicators survey (Mayo and Angel 1993) for 1991 yielded similar results. Covering housing characteristics in fifty-two cities in industrial and developing countries, this survey provides a comprehensive set of data on the housing sector, including the cost and availability of key inputs such as land, infrastructure, building materials; the regulatory environment; demographic variables; finance and subsidies; and the qualitative and quantitative features of the housing stock. These data were used to infer the median value of housing services received by a median-income household in countries whose per capita gross domestic product (GDP) was similar to Russia’s. This figure was computed in the form of a rent-to-income ratio and was drawn from a regression of rent-to-income ratios on per capita GDP in terms of purchasing power parity.

**The Opportunity Cost Approach**

The opportunity cost approach is the one used by Smeeding and others (1993) and Yates (1994) in measuring the imputed net income from owner-occupied housing in several Western countries. As noted above, the estimates of rental value for Russia take into account the provision not only of housing but also maintenance, depreciation, and utilities at essentially no cost. Hence, except for households in cooperatives, residents effectively received a 100 percent subsidy of gross rent. Based on Laidler’s (1969) or Poterba’s (1992) analysis, these gross rents can be converted into a rate of return that is approximately three times the 2 percent net rate of return used by Smeeding and others (1993). The gross rate of return on housing is much higher than the net real rate of return on other assets because operation and maintenance costs (about 2.2 percent) and depreciation (1 to 1.5 percent) reduce housing returns. Thus to realize a 2 percent net real rate of return requires a 5.7 percent gross rate of return (Alexeev 1990).
Renters will now have to cover the costs of operation and maintenance, multiplying their rental charges by a factor of three. Using the assumption of Smeeding and others (1993) that an average household spends about 7 percent of its income on housing, the rental of a dwelling that had cost a household 7 percent of its income will now cost it approximately 20 percent of its income.

Both approaches, then, suggest that 20 percent of income approximates the amount that the median household would have had to spend to rent the median amount of housing space it currently occupies. Because this figure may underestimate the amount people would actually be willing to pay, we also assumed that gross imputed housing income accounted for 25 percent of income, and considered a lower rent-to-income ratio of 15 percent (as estimated by Alexeev 1990). The direction of change in the Gini coefficients after including housing income is very similar under all three assumptions. As would be expected, the Gini coefficient is lower—that is, income inequality is more equally distributed—when housing accounts for a larger share of income, and conversely.

Because there are no recorded sales prices for housing in 1992, the technique we used ignored variations in the quality of housing. Kaganova and Malgin (1994) and Pusanov (1993) recently examined these variations for St. Petersburg and Moscow, respectively. Their work shows that the assumption of invariant quality overstates the equalizing effects of housing income on the distribution of income. With variation in quality considered, the Gini coefficient for the distribution of housing in St. Petersburg rises from 23.9 to 30.7. That is, higher-income households had significantly better quality units. To compute the value of imputed gross rent for other households at various income levels, we assumed that the amount of imputed income received was directly proportional to the square meters of housing provided. In other words, a family with twenty square meters of space per capita received 11 percent more in imputed housing income than residents with the eighteen square meters per capita—the median amount of housing space. Because the market rent for the median level of housing consumption per capita is equal to 20 percent of median family income, the imputed rent for a twenty-square-meter space amounts to about 22 percent of median family income. We then added this measure of income to the total income of each household in our data set.

Admittedly, this measurement values housing services solely on the basis of space. Previous estimates by the U.S. Central Intelligence Agency (1982) and Bergson (1961) rely on the same approach, however, although the latter used what he terms a “quite arbitrary” means of discounting the quality of private housing relative to public housing. In contrast Prell (1989) attempts to estimate how qualitative improvements in the housing stock in Russia, of the sort that occurred in the United States in the 1960s, may have affected the growth rate of this capital stock.

We did not attempt to make such quality adjustments for two reasons. First, we focus on one point in time rather than on how the level of investment may have changed over time as a result of unmeasured changes in quality. Second,
without more data on housing prices, we are unable to sort out how housing was distributed across households. It is by no means obvious that simple measures, such as the age or size of a building, had an effect on housing quality. Di Mao (1974), for instance, discusses the decline in quality in the larger buildings—contradicting the observations suggested by Prell (1989).

Reconsidering the Distribution of Income

Table 4 shows the cushioning effect that the imputed amount of housing income had on the distribution of income in 1992. In contrast to Yates’ (1994) findings for Australia, in which inclusion of imputed housing income changed the Gini coefficient by one percentage point (from 37 to 38), the change for Russia was almost 6 percentage points. One reason for this was that Russian households did not pay for maintenance, depreciation, and utilities. The Gini for combined housing and nonhousing income is about 80 percent of that for nonhousing-related income. In other words, when these in-kind benefits are included in measures of income, there is a substantial reduction in inequality. Finally, our measure of imputed housing income accounts for about 60 percent of total income for the poorest 20 percent of the population, suggesting that these households were relatively “house rich.” These households almost certainly would have preferred to receive their income in a less specific form.

Housing allocation also had significant effects on horizontal equity, that is, among persons with similar income but different in other respects (Bergson 1984). For example, we found that gender inequalities in the distribution of individual earnings were significantly offset by imputed housing subsidies because female-headed households have more housing space per capita. The inclusion of imputed housing subsidies raises the median female-to-male ratio by 7 percentage points—from 0.54 to 0.61. This effect was even more pronounced for the bottom 10 percent of the population, for which the female-to-male ratio went up by 11 percentage points (see Buckley and Gurenko 1995).

Such changes in the distributional picture are likely to have affected elements of the transition process. One possibility is that the relatively high share of housing income as a proportion of the total income of lower-income families shielded these households in their adjustment to the postcommunist depression. Milanovic

<table>
<thead>
<tr>
<th>Income category</th>
<th>Gini coefficient</th>
<th>Coefficient of variation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income per capita (including housing)</td>
<td>35.4</td>
<td>83</td>
</tr>
<tr>
<td>Income per capita (excluding housing)</td>
<td>41.7</td>
<td>99</td>
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(1996), who discusses the differences between labor market adjustments during the Great Depression in the United States and other market economies and that of the postcommunist depression, finds that in the former case the adjustment took place through job cuts, while in the latter it was through wage adjustments. In market economies, wages were broadly stable in real terms while unemployment multiplied. In Russia the opposite occurred: real wages declined between 40 and 60 percent, and unemployment remained relatively low.

How much of this difference in labor market adjustment is attributable to the fact that much of the income of lower-wage workers was unaffected by wage cuts? Did enterprises in Russia, which had traditionally provided most of the social safety net, respond in the way they did because employees' household income would not be affected by such cuts? Conversely, does the illiquidity of the imputed housing income affect the adjustment of labor markets? One recent study of Poland, for example, estimates that as much as 25 percent of its unemployment rate in 1992 occurred because workers could not find housing near the available jobs (Coricelli, Hagemejer, and Rybinski 1995). Although we do not know the answers to these questions, the adjustment is a part of the economic landscape that should not be ignored.

As shown in table 4, the distribution of combined income (including housing) was substantially more compressed than the distribution of income derived from wage data or total earnings in the techniques used by Atkinson and Micklewright (1992). Moreover, one has the sense that if such information could have been spliced onto the 1989 comparisons, the Soviet Union would not have looked so nearly like the Western economies but instead more like the socialist regime that it was.

Conclusion

The distribution of housing in Soviet Russia reduced income inequality and provided a strong cushion against the consequences of the transition. The effects were similar to those described by Smeeding and others (1993) for the OECD economies, but that study found that housing subsidies represented the smallest share of in-kind compensation. Moreover, in their findings the total share of all nonwage compensation, 21 percent, was only slightly more than our measure of imputed income from housing. In Russia, in contrast, it can be inferred from Alm and Sjoquist (1995) that housing accounted for the largest share of in-kind compensation. They found that expenditures on housing-related maintenance alone, which are just a small share of in-kind housing compensation, accounted for nearly half the financial obligations for social services that firms were now transferring to local governments. Housing is certainly not an income source that can be omitted from consideration (as does Kakwani 1995) on the grounds that the rents charged by the state are low.
An important manifestation of the cushioning provided by housing can also be seen by considering housing’s role in national wealth, particularly in light of the greater dispersion of the distribution of wealth relative to that of income. In France and the United States, for example, housing accounts for one-half and one-third, respectively, of household wealth. In both countries, wealth is far more dispersed than income (Kessler and Wolff 1991). In a society like Russia’s, in which inflation has eliminated most savings of the household sector, imputed income from tangible wealth such as housing is likely to be an even larger component of wealth than it is in market economies. And because of high rates of inflation, nonresidential wealth is likely to have been more widely redistributed than in market economies. As a result, the almost “give-away” privatization of housing that began in Russia in 1993 gave households at least some savings to help cushion the costs of the transition. This program was an important way of permitting households to exploit the distributional benefits of the old system, a step that has not been pursued nearly as aggressively in many other reforming economies. Because the distribution of housing income in Russia is so much less dispersed than is wage income, while at the same time the distribution of nonresidential wealth is almost certainly much more dispersed, housing’s privatization had a strongly progressive effect on the distribution of wealth.

The privatization of housing may also help address poverty concerns. For example, in 1992 the elderly in the lowest-income quartile had less than one-seventh of the income of young households in the highest-income quartile. But they had five square meters more housing space per person. Because up to 30 percent of the elderly were below the poverty line, being able to liquidate this additional housing wealth could go a long way toward addressing their poverty problem.

Devising means by which the poor and the elderly can gain access to this illiquid wealth is by no means a simple task. Complicated questions of property rights, registration, and enforcement as well as such issues as defining condominium rights and responsibilities are fundamental management issues that bedevil simple resolution. Nevertheless, at the very least, this source of income should not be ignored, as it has been in recent analyses (see, for example, Barr 1993). We recognize that our data could be significantly improved, particularly as market transactions permit better calculations, but given the scale of the effects involved, the evidence supports a 1977 United Nations recommendation that housing income be included in analyses of income distribution.

The housing policies that caught Dr. Zhivago’s attention more than seventy years ago continue to affect the basic fabric of life in Russia. Decisions with respect to marriage, children, profession, and job opportunities are no doubt affected by housing considerations. The impact of housing policies on so many aspects of economic behavior makes social compensation systems more difficult to reform. Thus, at a minimum, the former socialist economies should place a greater emphasis on integrating housing decisions into broader measures of economic activity.

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Notes

Robert M. Buckley is with the Operations Evaluation Department of the World Bank, and Eugene N. Gurenko is with Planning and Development Collaborative (PADCO), Washington, D.C. This article was initiated as a component of a World Bank research program. The authors would like to thank Michael Alexeev, Patricia Annez, Lev Freinkman, Jozsef Hegedus, Stephen Mayo, and Blair Ruble for their valuable assistance.

1. Pasternak’s interest in housing has been a constant theme of Russian literature. See, for example, Brodsky’s “In a Room and a Half,” in Less than One: Selected Essays (1985) and the chapter called “Housing the People,” in Khrushchev Remembers: The Last Testament (1980).

2. Szelenyi was exiled from Hungary when his studies, conducted in the late 1960s and early 1970s, showed that the Hungarian mechanism for allocating housing resulted in a regressive distribution of benefits. (His work was published in English in 1983.)


4. A detailed description of the data set is available upon request.

References

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AN EXCHANGE ON
PROJECT EVALUATION

Because of the importance of investment to development, the economic appraisal of projects has long attracted the attention of development theorists and practitioners alike. The subject has recently been enjoying a revival of interest, as several studies revealed a decline in the quality of economic analysis used, both in the World Bank and elsewhere. The following three articles reflect some of the views expressed in the recent resurgence of interest in project analysis. We hope that these articles will stimulate further contributions, as the development community grapples with this important and evolving subject.