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## Abstract

Researchers have recognized that the phenomenon has been attributed to the need for policies that reduce risks to assist developers. After decades of such policies, there is still a need for more effective policies. This article argues that bounded rationality is an insufficient explanation for satisficing by small developers. Lessons from behavioral economics suggest additional reasons for satisficing by developers. Satisficing is common because developers bracket projects one at a time, bracket each investment decision in isolation of others, create nonfungible investment accounts, establish self-imposed liquidity constraints, and temporally space projects. Policies that group risks to developers are likely to be the most effective. However, additional land-market-specific research is required to design policies that address these psychological traits. Academicians also need to design better survey instruments to investigate developer decision making.



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1. From here on, the word *developers* refers to residential developers.
2. A reviewer of this article pointed out that households and political decision makers also satisfice, which can lead to additional land use inefficiencies.
3. This article uses the definition of sprawl provided by Nelson and Duncan (1995, 1): “unplanned, uncontrolled, and uncoordinated single-use development... which variously appears as low density,

ribbon or strip, scattered, leapfrog, or isolated development.”

4. As an indication of the maturity of behavioral economics, the 2003 Nobel Prize in economics was awarded to a psychologist, Daniel Kahneman (who in turn recognized his deceased collaborator, Amos Tversky). In addition, between 1987 and 2001, Richard Thaler edited a section called “Anomalies” in the *Journal of Economic Perspectives* that questioned many of the assumptions and predictions of neoclassical economics.

5. To be sure, there are other models of land use planning, but as Sager (1999) notes, the rational land use model is by far the most prominent. Furthermore, the rational land use model incorporates other models of planning such as consensual planning (Susskind and Cruikshank 1987), critical theory (Forester 1988), and strategic planning (Bryson and Einsweiler 1988).

6. See, for instance, Nelson and Duncan (1995) for additional tools available to policy makers to reduce sprawl.

7. Reducing risks to developers continues to be a major consideration in contemporary discussions of smart growth (Mohamed 2006). For example, Gyourko and Rybczynski (2000) argue that the risks of new urbanist projects need to be understood before such projects can attract developers. Similarly, Starkie and Yosick (1996) believe that more needs to be done to educate lenders and developers about the risks inherent in new urbanism.

8. There are other explanations for the discrepancy in prices between willingness to pay and willingness to accept. According to Cropper and Oates (1992), it may represent strategic behavior on the part of citizens; whereas according to Coursey, Hovis, and Schulze (1987), it could be that people are not as familiar with the value of an item when they are selling it as when they are buying it.

9. Contrary to the predictions of Thaler (1985), Thaler and Johnson (1990) found that people also preferred to temporally space losses. Thaler (1999) suggests that people may prefer to feel losses one by one because prior losses may make them more sensitive to subsequent losses.

10. Mathematically:  $v(x_{n+1} \& x_{n+2} \dots x_{n+m}) - v(x_1 \& x_2 \dots x_n) < v(- \text{additional investments})$  where:  $v$  is the value to the developer;  $x_1 \dots x_n$  are marginal profits from discrete primary investments;  $x_{n+1} \dots x_{n+m}$  are marginal profits from discrete secondary investments; and "&" represents the cognitive combination of profits (Thaler 1999).

11. Profit opportunities can also vary on a given site. For instance, developers could choose the more capital intensive and more profitable option of building roads around a scenic area (the increase in value of the lots would be sufficient to cover the additional costs), or in the absence of environmental ordinances, they could choose the less capital intensive and less profitable option of building roads through the scenic area. However, spatial variation in investment requirements has a much larger impact on developer decision-making than choices on a given parcel.

12. Limited liability corporations with other developers have become more popular since the enactment of the Financial Institutions Reform, Recovery, and Enforcement Act of 1989 (FIRREA) that requires developers to show more collateral when obtaining loans.

13. Over time, some secondary investments shift to primary investments. For example, in many land markets public water would be considered part of the primary investment account.

14. The vast majority of residential developers in the U.S. are small developers. According to the 2002 Economic Census, 75 percent of the firms involved in land subdivision employ one to four employees and 88 percent of the firms involved in land sub-division employ one to nine employees (U.S. Census Bureau 2002). On average, each of the 88 percent of these firms performed approximately \$850,000 worth of construction during 2002, well below the six million threshold used by the Small Business Administration to define a small firm involved in land subdivision (U.S. Small Business Administration 2004). Whether the arguments made in this article are applicable to large institutional developers or Real Estate Investment Trusts (REITs) is worth investigating.

15. Regional land markets is a more appropriate scale over which to apply spatially focused risk reduction strategies, but this, of course, raises issues related to regional land use coordination.

## References

Baerwald, T. 1981. The site selection process of suburban residential builders. *Urban Geography* 2 (4): 339-357.

[Crossref](#)

[Google Scholar](#)

Barnard, C., and W. Butcher. 1989. Landowner characteristics— A basis for locational decisions in the urban fringe. *American Journal of Agricultural Economics* 71 (3): 679-684.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Benartzi, S., and R. Thaler. 1999. Risk aversion or myopia? Choices in repeated gambles and retirement investments. *Management Science* 45 (3): 364-381.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Berg, E. 1961. Backward-sloping labor supply functions in dual economies—The Africa case. *Quarterly Journal of Economics* 75 (3): 468-492.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Berke, P. R., D. R. Godschalk, and E. J. Kaiser. 2006. *Urban land use planning*. 5th ed. Urbana: University of Illinois Press.

[Google Scholar](#)

Bookout, L. 1990. *Residential development handbook*. Washington, DC, Urban Land Institute.

[Google Scholar](#)

Bryson, J., and R. Einsweiler. 1988. *Strategic planning: Threats and opportunities for planners*. Chicago: Planners Press.

[Google Scholar](#)

Byun, P., and A. Esparza. 2005. A revisionist model of suburbanization and sprawl: The role of political fragmentation, growth control, and spillovers. *Journal of Planning Education and Research* 24 (3): 252-264.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Camerer, C., L. Babcock, G. Loewenstein, and R. Thaler. 1997. Labor supply of New York City cabdrivers: One day at a time. *Quarterly Journal of Economics* 112 (2): 407-442.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Chan, T. 1999. Residential construction and credit market imperfection. *Journal of Real Estate Finance and Economics* 18 (1): 125-139.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Coursey, D. L., J. L. Hovis, and W. D. Schulze. 1987. The disparity between willingness to accept and willingness to pay measures of value. *Quarterly Journal of Economics* 102 (3): 679-690.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Cropper, M. L., and W. E. Oates. 1992. Environmental economics— A survey. *Journal of Economic Literature* 30 (2): 675-740.

[Web of Science](#)

[Google Scholar](#)

Cyert, R., and J. March. 1963. *A behavioral theory of the firm*. Englewood Cliffs, NJ: Prentice Hall.

[Google Scholar](#)

Daniels, T. 1999. *When city and country collide: Managing growth in the metropolitan fringe*. Washington, DC, Island Press.

[Google Scholar](#)

Dowall, D. 1984. *The suburban squeeze: Land conversion and regulation in the San Francisco Bay Area*. Berkeley: University of California Press.

[Crossref](#)

[Google Scholar](#)

Forester, J. 1988. *Planning in the face of power*. Berkeley: University of California Press.

[Google Scholar](#)

Genesove, D., and C. Mayer. 1997. Equity and time to sale in the real estate market. *American Economic Review* 87 (3): 255-269.

[Web of Science](#)

[Google Scholar](#)

Genesove, D., and C. Mayer. 2001. Loss aversion and seller behavior: Evidence from the housing market. *Quarterly Journal of Economics* 116 (4): 1233-1260.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Goldberg, M., and D. Ulinder. 1976. Residential developer behavior 1975—Additional empirical findings. *Land Economics* 52 (3): 363-370.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Gyourko, J., and W. Rybczynski. 2000. Financing New Urbanism projects: Obstacles and solutions. *Housing Policy Debate* 11 (3): 733-750.

[Crossref](#)  
[Web of Science](#)

[Google Scholar](#)

Hepner, G. 1983. An analysis of residential developer location factors in a fast growth urban region. *Urban Geography* 4 (4): 355-363.

[Crossref](#)  
[Google Scholar](#)

Hogarth, R. M. 1987. *Judgment and choice: The psychology of decision*. Chichester, UK: Wiley.

[Google Scholar](#)

Kahneman, D., J. Knetsch, and R. Thaler. 1990. Experimental tests of the endowment effect and the Coase theorem. *Journal of Political Economy* 98 (6): 1325-1348.

[Crossref](#)  
[Web of Science](#)

[Google Scholar](#)

Kahneman, D., J. Knetsch, and R. Thaler. 1991. Anomalies—The endowment effect, loss aversion, and status-quo bias. *Journal of Economic Perspectives* 5 (1): 193-206.

[Crossref](#)  
[Web of Science](#)

[Google Scholar](#)

Kahneman, D., and A. Tversky. 1979. Prospect theory—Analysis of decision under risk. *Econometrica* 47 (2): 263-291.

[Crossref](#)  
[Web of Science](#)

[Google Scholar](#)

Kahneman, D., and A. Tversky. 1984. Choices, values, and frames. *American Psychologist* 39 (4): 341-350.

[Crossref](#)  
[Web of Science](#)

[Google Scholar](#)

Kenney, K. 1972. The residential land developer and his land purchase decision. PhD diss., University Of North Carolina.

[Google Scholar](#)

Leung, L. 1987. Developer behavior and development control. *Land Development Studies* 4: 17-34.

[Crossref](#)

[Google Scholar](#)

Lucy, W. H., and D. L. Phillips. 2000. *Confronting suburban decline: Strategic planning for metropolitan renewal*. Washington, DC: Island Press.

[Google Scholar](#)

Mohamed, R. 2006. The economics of conservation subdivisions: Price premiums, improvement costs, and absorption rates. *Urban Affairs Review* 41(3): 376-399.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Nelson, A. 1992a. Preserving prime farmland in the face of urbanization-Lessons from Oregon. *Journal of the American Planning Association* 58 (4): 467-488.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Nelson, A. 1992b. Improving urban growth boundary design and management. *Real Estate Finance* 8 (4): 11-22.

[Google Scholar](#)

Nelson, A. 1997. Market mechanisms and sprawl. *Journal of the American Planning Association* 63 (3): 393-394.

[Web of Science](#)

[Google Scholar](#)

Nelson, A., and J. Duncan. 1995. *Growth management principles and practices*. Chicago: APA Planners Press.

[Google Scholar](#)

Nelson, A., J. Frank, and J. Nicholas. 1992. Positive influence of impact-fee in urban-planning and development. *Journal of Urban Planning and Development-ASCE* 118 (2): 59-64.

[Crossref](#)

[Web of Science](#)

[Web of Science](#)

[Google Scholar](#)

Peiser, R. 1984. Does it pay to plan suburban growth? *Journal of the American Planning Association* 50 (4): 419-433.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Peiser, R. 1990. Who plans America? Planners or developers? *Journal of the American Planning Association* 56 (4): 496-503.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Plous, S. 1993. *The psychology of judgment and decision making*. Philadelphia: Temple University Press.

[Google Scholar](#)

Porter, D. 1988. Will developers pay to play. *Journal of the American Planning Association* 54 (1): 72-75.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Rabin, M. 1998. Psychology and economics. *Journal of Economic Literature* 36 (1): 11-46.

[Web of Science](#)

[Google Scholar](#)

Read, D., G. Loewenstein, and M. Rabin. 1999. Choice bracketing. *Journal of Risk and Uncertainty* 19 (1-3): 171-197.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Rizzo, J., and R. Zeckhauser. 2003. Reference incomes, loss aversion, and physician behavior. *Review of Economics and Statistics* 85 (4): 909-922.



[Crossref](#)  
[Web of Science](#)

[Google Scholar](#)

Sager, T. 1999. The rationality issue in land-use planning. *Journal of Management History* 5 (2): 87-107.

[Crossref](#)

[Google Scholar](#)

Samuelson, W., and R. Zeckhauser. 1988. Status quo bias in decision making. *Journal of Risk and Uncertainty* 1: 7-59.

[Crossref](#)

[Google Scholar](#)

Savage, L. 1954. *The foundations of statistics*. New York: John Wiley.

[Google Scholar](#)

Simon, H. 1957. *Models of man: Social and rational; mathematical essays on rational human behavior in a social setting*. New York: Wiley.

[Google Scholar](#)

Simon, H. 1979. Rational decision making in business organizations. *American Economic Review* 69 (4): 493-513.

[Web of Science](#)

[Google Scholar](#)

Somerville, C. 1999. The industrial organization of housing supply: Market activity, land supply and the size of homebuilder firms. *Real Estate Economics* 27 (4): 669-694.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Starkie, E., and B. Yosick. 1996. Overcoming obstacles to smart development. *Land Lines* 8 (4): 1-2.

[Google Scholar](#)

Susskind, L., and J. Cruikshank. 1987. *Breaking the impasse: Consensual approaches to resolving public disputes*. New York: Basic Books.

[Google Scholar](#)

Thaler, R. 1980. Toward a positive theory of consumer choice. *Journal of Economic Behavior & Organization* 1 (1): 39-60.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Thaler, R. 1985. Mental accounting and consumer choice. *Marketing Science* 4 (3): 199-214.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Thaler, R. 1990. Anomalies: Saving, fungibility, and mental accounts. *Journal of Economic Perspectives* 4 (1): 193-205.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Thaler, R. 1999. Mental accounting matters. *Journal of Behavioral Decision Making* 12 (3): 183-206.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Thaler, R., and E. Johnson. 1990. Gambling with the house money and trying to break even—The effects of prior outcomes on risky choice. *Management Science* 36 (6): 643-660.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Tversky, A., and D. Kahneman. 1981. The framing of decisions and the psychology of choice. *Science* 211 (4481): 453-458.

[Crossref](#)

[PubMed](#)

[Web of Science](#)

[Google Scholar](#)

U.S. Census Bureau. 2002. *2002 economic census: Industry Series reports—Construction*. Washington, DC: U.S. Department of Commerce.

[Google Scholar](#)

U.S. Small Business Administration. 2004. *Table of small business size standards matched to North American industry classification system codes*. Washington, DC: U.S. Small Business Administration.

[Google Scholar](#)

Wales, T. J. 1973. Estimation of a labor supply curve for self-employed business proprietors. *International Economic Review* 14 (1): 69-80.

[Crossref](#)

[Google Scholar](#)

Wiewel, W., J. Persky, and M. Sendzik. 1999. Private benefits and public costs: Policies to address suburban sprawl. *Policy Studies Journal* 27 (1): 96-114.

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