

Local Economic Development Incentives in New York City

Franz Fuerst Center for Urban Research City University Graduate Center

DRAFT May 8, 2005

Executive Summary

This report provides the first systematic and comprehensive analysis of datasets on economic development incentives in New York City over the last fifteen years. Some of the key findings are:

- Looking at Local Law 69 data over time reveals that the use of economic development incentives has increased both in terms of firms receiving them and their total value.
- The evidence on job retention and creation is mixed and mostly ambiguous. Although many companies do not meet their
 agreed-upon job targets in absolute terms, the evidence suggests that companies receiving subsidies outperform their
 respective industries in terms of employment growth, that is, they grow more, or decline less.
- Their above-average performance may, however, simply reflect the fact that the Economic Development Corporation selects economically promising companies within manufacturing (or other industries) when granting incentives. At the same time, it is also possible that receiving incentives helps these companies to become stronger.
- A trend toward larger incentive packages is apparent. While the average incentive package (current nominal prices) totaled \$15.3 million dollars in 1997, it climbed to \$28.6 million in 2003.
- During the same period, average job retention targets per incentive deal remained stable, but the average number of jobs to be created increased from 97 jobs per case in 1997 to 245 in 2003. This trend probably reflects both increasing size of incentives packages and a conscious intent, particularly during the Bloomberg administration, to shift the program's focus from retaining jobs to creating new ones.
- Some industries clearly obtained a disproportionate share of the incentives. Transportation, Communications, and Public Utilities (TCPU) and Finance, Insurance, and Real Estate (FIRE) account for 70 percent of the incentives but only 23 percent of employment in New York City.
- Closer examination of the four-digit industry groups within these broader categories reveals that firms in industry groups 48 (Communications) and 62 (Security and Commodity Brokers, Dealers, Exchanges, and Services) received most of these incentives.
- Since 1997, particularly after the Bloomberg administration took office in 2001, the share flowing to the securities industry declined, while that of manufacturing companies more than doubled.
- Lease and straight lease mechanisms increased dramatically in recent years. Overall, IDA (a collective term for a number of programs administered by the Industrial Development Agency) and lease/straight lease account for most of the incentives.
- Looking at aggregate job figures, those companies whose incentive agreements closed between 1995 and 1998 had largely fulfilled their targets in 2003, while companies whose agreements closed after 1998 did not reach the aggregate job retention targets except in 2003. In other words, companies with older agreement were better able to fulfill the job requirements than companies with more recent deals.
- Despite the downward trend in the manufacturing sector as a whole, industrial firms receiving incentives showed a net job expansion. All other industry divisions also have positive annual job creation, although it is not possible to determine whether the final job creation targets will be met.
- The share of businesses that are in compliance with job targets declined steadily from 1996 through 2003. A number of caveats must be kept in mind when interpreting this remarkable trend. First, the quality of reporting under Local Law 69 clearly evolved over this period, becoming more stringent. The latter figures thus reflect 'truer' values. Another potential problem is the difference in numbers of cases reporting data from year to year, a factor that affects the entire data set.
- Mapping of where incentive-receiving companies are located reveals that they are heavily concentrated in Downtown and Midtown Manhattan and a few other locations. While some residents of lower-income neighborhoods might benefit from the help given to these firms because they commute into these areas, they might benefit more if the city granted incentives to firms located near their neighborhoods.
- If job growth is the primary goal, the performance of economic development incentives over the past seven years did not
 produce that outcome. If, on the other hand, the goal was to increase the competitiveness of some firms by reducing their
 tax burden, there is more evidence they have done so, though the firms selected to receive these benefits may already
 have enjoyed efficiency advantages over their competitors. This limited result also needs to be compared to alternative
 ways to deploy the resources used for discretionary incentives, such as improving infrastructure or providing more
 training to the workforce.
- Without compromising the confidentiality of individual companies, the city should develop a more transparent and bettervalidated reporting system so that it can undertake a more precise firm-level analysis of the impact of economic development incentives.

At a time when cities are competing fiercely with each other to attract or retain jobs within a globalizing economy, city governments are providing an array of financial incentives to stimulate job growth and retain existing jobs, particularly in high cost locations. Despite the many different ways these incentive programs are carried out, they generally fall into two broad categories. First, cities can help defray the cost of a specific capital investment, for instance by providing help with land acquisition, construction costs, or the cost of business equipment. They devise these discrete monetary incentives either to attract a company from outside of a city's jurisdiction or to support the relocation or modernization of a company within the city. Second, a city can disburse incentives continuously over a long period to reduce the general cost of doing business within its boundaries. This second category of incentives – which may or may not be restricted to a designated zone – includes tax abatements, such as reduced or waived property and commercial rent taxes, expedited or simplified regulatory requirements, accelerated depreciation benefits, employee tax credits, workforce training, the provision of infrastructure, or low interest or tax-exempt loans.

The use of these incentives has become so widespread that corporations, real estate developers, and manufacturers routinely approach city governments to ask for them. In some cases, they say they might move their planned investment to a competing location with lower operating costs and/or more attractive incentive packages. In areas facing efforts by other locations to attract away their economic base, such as New York City, it has become common to offer economic development incentives to counter such packages. The City typically targets them at large corporations with many employees and negotiates them on a case-by-case basis with few preset standards or regulations (so-called discretionary incentives). In exchange for the incentive package, the company typically agrees to maintain a certain level of jobs at its facilities in New York City or create a specified number of new jobs. In New York City, the packages offered by the Industrial Development Agency (IDA) include tax exempt financing coordinated with property tax reductions and other tax relief. These packages are typically set up as monetary benefits (tax abatements etc) flowing continuously over a fixed period (five to

30 years depending on the terms of the individual deal). Such packages have received widespread criticism both in academic studies and media reports. The next section will outline the most important arguments for and against monetary incentives as a local economic development tool and reviews previous studies on the efficiency of transferring public funds to private businesses for this purpose.

Since IDA's incentive packages typically have a net present value of several million dollars, the City should carefully consider whether their potential benefits outweigh those of alternative investments. At a time of great stress on public funds, local governments must regularly provide an accurate and transparent account of the direct and indirect employment and public revenue benefits to justify forgoing millions of dollars of revenues that might fund infrastructure, workforce training, or other purposes. In spite of being legally required to do so, local reporting in New York City has been found to have a number of practical and methodological problems (IBO 2001, Good Jobs New York 2004). In response to demands for more transparency and accountability, EDC has recently made more specific data available on its economic development incentive packages. This report uses that data to provide the first systematic and comprehensive analysis of economic development incentives in New York City over the last fifteen years.

The first section of this report reviews studies that evaluate the concept of economic development incentives. The second section describes the newly available EDC data, how other complementary data sources can be used to evaluate that data, and the methodology to be employed in this evaluation. The third section presents the results of the analysis, while the fourth section discusses some of its implications. The conclusion suggests ways to make the monitoring system more transparent and provides directions for future research. Definitions of incentive programs operated by New York City and a discussion of the data used in the study are contained in the appendix.

1. Some background on the incentive controversy

The economic literature provides no consensus on the efficiency of local economic development incentives. Opponents of providing such incentives argue that they mainly benefit corporations that do not need financial assistance, that the benefits do not outweigh returns that would be derived from investing foregone taxes in creating generally more attractive economic conditions, and that the decision-making process on incentive-packages generally lacks transparency. (This position believes that many or most private investments would have been undertaken even in the absence of incentives.) In addition, critics point out that incentive-receiving companies sometimes do not meet the projected job figures that are part of their agreement, but rarely face penalties for falling short.

Critics also contend that the proliferation of economic development incentives has contributed to the shift from corporate taxes towards higher taxation of individual incomes. Leroy (1995) reports that individual federal tax payments rose 115 percent between 1979 and 1991, while corporate income tax payments rose just 49 percent. This shift was even more pronounced at the state level, where individual taxes rose 204 percent while corporate taxes increased by only 68 percent. Corporate taxes have traditionally been low in the United States, contributing merely two to three percent of state revenues. It is also possible that the various Federal, state, and city incentive programs cancel each other out in some cases.

Moreover, if New York is compelled to grant economic development incentives in order to remain competitive against its neighbors when they are seeking to motivate a large corporation to relocate, the result may be a vicious circle of communities trying to outbid one another without generating additional economic benefits while simultaneously losing benefits that might have been achieved through alternative investments of the foregone revenues. In the worst case, economic development incentives have no net effect on the regional economy, while distorting the market conditions for competitors in the

Local Economic Development Incentives respective industry.

To prevent such negative effects, critics have repeatedly called for measures to increase the transparency of decision-making on economic development incentives, including stricter disclosure rules, more compliance monitoring, a more democratic decision process, and 'clawbacks' when companies do not meet job retention targets or other aspects of the subsidy agreement. While these measures seem to be indispensable aspects of a well run economic development incentive program, some critics argue that they require considerably stronger oversight mechanisms than local governments are capable of undertaking and suggest that the better way to solve the problems of lack of transparency and excessive bureaucratic overhead is simply to abolish local economic development incentives.

The main argument in favor of economic development incentives, however, is derived from export-base theory, which holds that incentives will generate a multiplier effect for local service industries by helping export-oriented industries to increase their revenues and jobs. This multiplier effect arises because exporting firms have local suppliers and, most importantly, their workers are local consumers who spend part of their income in the incentive-granting jurisdiction. This argument assumes, however, that workers spend a significant portion of their incomes locally, which normally requires that they live within the city that grants the incentives. It also assumes that export sectors would not invest in new facilities except for the granting of the incentives.

Empirical evidence on local subsidies

Glaeser (1999) argues that place-based business incentives do not reduce local poverty and unemployment since incoming developers and companies capture most of the benefits; they in turn drive up rents, which is detrimental to local residents and small businesses already there. Studies on tax abatements (Ladd 1998, Tannenwald 1996) have found that they have a significant effect on firms' location decisions *within* a city or region but little or none at the *interregional* level. Bartik's study (1991) also finds that tax

differences within metropolitan areas have more impact on corporate location decisions than differences between metropolitan areas. Implicit in these findings is the notion that firms can respond to marginal differences in rent within a region because the transaction costs of moving are relatively low, but they are much less likely to respond to interregional differentials because the transaction costs and other costs of moving from one region to another are substantially higher. The findings also suggest that locations across various regions are not close substitutes for each other and therefore do not form a single "locational market." Examining the Nebraska tax incentive program with a multivariate regression framework, Goss and Phillips (1999) found, however, that the incentives have a significant and positive impact on employment, but only in low-unemployment counties. They did not find a statistically significant impact for counties with above-average unemployment rates and conclude that the tax incentive program potentially exacerbates disparities in economic performance across counties.

Rubin (1990) finds that the benefits (job creation, economic activity) outweighed the initial costs of providing the subsidies. Fainstein and Stokes (1998) assess the impact of the incentives provided for the development of the Jacob Javits Convention Center and the 42nd Street/ Times Square redevelopment project and conclude that the Javits Center yielded a positive effect for New York City, mainly because the State carries the operating expenses, while Times Square turned into a success story because key incentives were given to the Disney Corporation, which in turn triggered further development in the area.

Good Jobs New York (2004), a watchdog organization promoting accountability and transparency in local government subsidy spending in New York City, analyzed corporate retention contracts and actual job performance data and found that the ten large corporations for which complete data was available shed 3,000 jobs as of June 2002. The study's authors were unable to document any cases where the city collected penalties in excess of the original amount of tax benefit allocated. One of the

investigated companies returned its benefits after moving its headquarters out of the city and drastically reducing its workforce. The city sought additional penalty fees that it apparently did not succeed in collecting, according to available documentation. In a number of cases, subsidy contracts did not contain job retention targets or allowed a certain percentage of 'penalty-free layoffs.' The study reports that other contracts contain job retention or job creation targets that are below the actual number of jobs the company had when signing the contract. Since some contracts contain incentives for exceeding the job retention targets, these companies were in principle able to claim additional credits by simply maintaining the status quo.

Another shortcoming of current incentive practices in New York identified in various studies (Independent Budget Office 2001, Center for an Urban Future 2001, Good Jobs New York 2004) is the lack of transparency regarding company employment records and the methodology for calculating the economic benefits of incentive packages. These studies found that Annual Report on Tax Expenditures and the Local Law 69 reports issued by the City both provided inadequate information for assessing the impact and opportunity costs of economic development incentives. Moreover, the City has not commissioned any independent studies to examine the adequacy and accuracy of the input-output model that the Economic Development Corporation uses to calculate the costs and benefits of individual deals. In particular, no analysis has been undertaken to gauge their effects on the different population groups and neighborhoods in the city.

In sum, these empirical studies do not consistently support the conclusion that subsidizing individual firms produces positive net effects, though some individual deals may have done so. They are more consistent in suggesting that any jobs created have a high cost in incentives. Some economic development experts argue that it is not possible to reach an overall finding about their efficacy because incentives take such varied forms, involve such a large constellation of interests, and are implemented in such different circumstances (Weber 2004). Instead, they argue that we must assess the cost-benefit ratio, level of uncertainty, and bargaining leverage of each case

individually. Following this lead, the next section provides an overview of current incentive programs in New York City.

2 Data and methodology

- As mentioned above, data on the detailed characteristics of New York City's economic development incentives have been scarce until recently. Local Law 69 stipulates that EDC present an annual report to the City Council containing
- _ data describing the last seven years of economic development incentive projects;
- _ a calculation of the specific amount that the City provided to each business
- an estimate of the amount of retained or additional tax revenues each project generated.
- Despite this requirement, the IDA has not previously provided readily accessible data that could be analyzed by outside observers. Due to continuous pressure by non-profit watchdog organizations, however, the EDC decided to make electronic versions of the data selectively available in at least one case. This dataset which contains information derived from the reports for the years 1997 through 2003 in spreadsheet format forms the basis of our analysis. Besides data on the respective years, the spreadsheets also contain information on earlier incentive deals that were still active in 1997. This study links each of these annual reports into a panel data set that permits us to undertake the first systematic and comprehensive analysis of economic development incentives in New York City over the last decade.
- This data set contains information on the company name, location, and industry of each project, the targeted number of jobs to be retained and/or created, and the number of jobs actually created or retained as reported by the firm, an EDC estimate of the monetary cost and yield of the benefits, and some other variables not used in this study. The data on actual jobs are reported for each year of an arbitrarily defined eight-year time window, a fact which somewhat limits the longer-term validity of the cost-benefit analysis presented in this report. At this

point, it is also difficult to assess the reliability of these job data. The cost-benefit model which EDC uses to generate its estimates of each deal's economic benefits is based on reported employment levels. Since Local Law 69 does not require EDC to verify company job reports figures against a reliable source such as the state unemployment insurance tax records (ES-202), we have to accept them at face value. In previous years, EDC used estimates of employment levels when companies failed to report. The EDC data sets do not indicate, however, when the numbers were estimated or reported. To calibrate the extent of possible reporting error in the EDC data base, we linked each firm's record to the time series of employment in its standard industrial classification as provided by the ES-202 employment data for the zip code in which the incentive-receiving establishment was located. Additionally, we checked all records for consistency (addresses, industry codes, longitudinal consistency etc.) and corrected where necessary.

- Our analysis involves several steps. First, we analyze the time series data on all deals in effect from 1989 through 2003 both for aggregate changes in incentive amounts and job retention patterns and broken down by incentive program (IDA, straight lease etc.). Next, we seek to detect any changes in the composition of the industries receiving benefits and their spatial distribution over time. (We used block and lot identifiers to match all project addresses to specific location with a Geographic Information System). When companies had multiple locations, we geocoded all branch offices independently.
- It would be preferable to separate discretionary and as-of-right incentives in the analysis. However, since the data set lumps together various distinct programs under the category 'IDA,' this is not possible. An additional field in the data set denotes property tax abatements, probably granted under the auspices of the ICIP program, but only a handful of cases indicate this abatement in any given year. It seems likely that Local Law 69 reports only include ICIP for firms that are

To supplement the analysis of employment data reported to EDC under Local Law 69, we linked it not only to the zip-code level ES-202 data, but to county-level and citywide County Business Pattern data provided by Economy.com. This step was necessary not only to provide an overall check on the reliability of job numbers reported to EDC, but to provide a way of interpolating missing data. Since not every case in the data set has the same number of annual observations, aggregating the dollar amounts of incentives or the numbers of reported jobs may distort the time series analysis. We can mitigate this effect by including only those cases with valid information for all the years analyzed. The downside to this approach, however, is that it significantly reduces the data set because many cases have missing values for some years. Nesting the firm level data within the universe of firms in its SIC and zip code provides a broader and more consistent data series against which to compare the reported data in the time series analysis. The borough and city totals, from yet another data source, provides a reliability check on these series. We describe these data sets in more detail in the appendix.

3 Results

New York City is among the largest donors of economic development incentives in the United States. The total value of all active incentive programs managed by the Economic Development Corporation (EDC) and its subsidiary the Industry Development Agency (IDA), exceeded \$16 billion in Fiscal Year 2003. The amortized cost of these tax abatements, exemptions, credits, and other tax benefits is about \$2.1 billion per year, or almost 10 percent of city-generated revenues and 5 percent of the City's budget. This sum contains a variety of programs that are subject to documentation under Local Law 69, the most important of which are explained below. In addition to the City incentives,

the State administers tax abatements, grants, loans and low cost energy in so-called Empire Zones and other areas.

- Looking at Local Law 69 data over time reveals that the use of economic development incentives has increased both in terms of firms receiving them and their total value. As discussed, LL69 requires EDC to report job totals over an eight-year period (base year plus seven years). Exhibits 1 through 5 map the locations of IDA projects by the size of incentives granted for each borough; exhibits 6 and 7 map the program types against the median household income of the residents in the areas where they are located. Table 1 shows the aggregate trend over time for the number of firms assisted, their aggregate net present value, the per firm value of those deals, the number of jobs reported retained or created, and the mean number of jobs created per \$100,000 of subsidy expenditure. The firm total increased from 304 in 1997 to 615 in 2003, while the total value of the reported incentives and retained jobs more than tripled in the same period. In 2003, all economic development incentive programs taken together represented a total net present value of \$16.35 billion. This sum also includes bond amounts and interest-free loans which have to be repaid by the company. While the actual incentive in the case of an interest-free loan is the amount saved by not having to pay market interest rates and related costs, it is not possible to discern them in the database used for this analysis. It is therefore important to keep in mind that, the total amounts reported here also contain loans that are not economic development incentives in the strict definition of the term.
- A trend toward larger incentive packages is also apparent. While the average incentive package (current nominal prices) totaled \$15.3 million dollars in 1997, it climbed to \$28.6 million in 2003. During the same period, average job retention targets per incentive deal remained stable, but the average number of jobs to be created increased from 97 jobs per case in 1997 to 245 in 2003. This trend probably reflects both increasing size of incentives packages and a conscious

intent, particularly during the Bloomberg administration, to shift the program's focus from retaining jobs to creating new ones. The ratio of jobs per \$100 thousand in incentives granted demonstrated a significant increase between 1997 and 1999, but has gradually decreased subsequently. (This value may move in sync with cyclical phases of New York City's economy rather than reflect a policy change.)

Which industries and boroughs benefitted most from these incentive packages? Table 2 shows how much each major industry division received in absolute and relative terms compared to its share in New York's total employment. Some industries clearly obtained a disproportionate share of the incentives. Transportation, Communications, and Public Utilities (TCPU) and Finance, Insurance, and Real Estate (FIRE) account for 70 percent of the incentives but only 23 percent of employment in New York City. Closer examination of the fourdigit industry groups within these broader categories reveals that firms in industry groups 48 (Communications) and 62 (Security and Commodity Brokers, Dealers, Exchanges, and Services) received most of these incentives. In other words, television broadcasting companies and investment banking and securities firms received the lion's share of the benefits. On the other end of the spectrum, industry divisions that obtained far less incentive support than their share of New York employment, particularly retail and service industries. The lower share of the retail sector is probably due to the fact that retail companies are frequently ineligible for the purposes of most IDA programs.

Table 3 presents an overview of the changing distribution of incentives across industries. Since 1997, particularly after the Bloomberg administration took office in 2001, the share flowing to the securities industry declined, while that of manufacturing companies more than doubled.

Table 4 shows that incentive packages have been heavily focused on Manhattan.

This partly reflects the fact that Manhattan contains two thirds of all New York City jobs, but Manhattan's share of total incentives increased to 78 percent in the most recent reporting period while its share of all city jobs declined slightly in the same period. The shares of Staten Island and the Bronx also grew, while those of Queens and especially Brooklyn declined. In absolute terms, the number of jobs to be retained and created increased significantly in all boroughs over the last seven years.

- Looking at the aggregate value of incentive packages it Table 5 yields a similar picture but with a sharper decline of Brooklyn's share and a lower share for Manhattan over all years. The shift towards using incentives for job creation rather than retention is particularly evident in Manhattan, where job retention figures doubled while job creation goals grew almost tenfold (Table 6).
- Table 6 also shows trends in two important programs for each borough. It shows that lease and straight lease mechanisms increased dramatically in recent years. Overall, IDA (a collective term for a number of programs administered by the Industrial Development Agency) and lease/straight lease account for most of the incentives. Land sales to potential developers occurred less frequently, mainly outside Manhattan. These data demonstrate that EDC is increasingly using leaseback mechanisms as an economic development tool, particularly in Manhattan.

Comparing job targets with actually reported jobs

The main objective of local economic development incentives is to stimulate job growth in various industries and neighborhoods. Although there is no strict contractual obligation for a company to maintain a fixed number of jobs under the terms of incentive agreements, the creation of new jobs has become the main raison d'être of economic development incentives and a cornerstone of their political justification. Therefore, it is essential to monitor the success of these

efforts by comparing the job targets made by firms in return for incentives with the jobs the actually report subsequently. As described in more detail in the appendix, shortcomings in the data available either from EDC or ES202 do not permit to us to examine these questions in full detail. Nevertheless, these data sources are robust enough to show some important trends.

- Table 7 reports the mean and aggregate changes from year to year in actual jobs reported to EDC for all firms reporting complete data. Not surprisingly, these job figures track the general business cycle, declining in the recession following the 9/11 attacks. Although jobs declined in 1998-99, they generally grew between 1996 and 2001, then declined thereafter, particularly in 2001-2002.
- To take into account the fact that firms concluded their incentive deals at different times, we took all firms with actual job reports for the most current year (2003) and sorted them by the year in which they closed their incentive deal. This analysis slightly diminishes the total number of cases because we include only those with valid records in all fields. Table 8 details the mean, median, and total numbers of jobs these deals promised would be retained or created by each year between 1995 and 2003 and then compares these commitments to the number of jobs actually reported to EDC in 2003 as well as the annual average of jobs reported from the inception of the deal to 2003. Looking at aggregate job figures, those companies whose incentive agreements closed between 1995 and 1998 had largely fulfilled their targets in 2003, while companies whose agreements closed after 1998 did not reach the aggregate job retention targets except in 2003. In other words, companies with older agreement were better able to fulfill the job requirements than companies with more recent deals. It is difficult to assess why this happened. Certainly, companies with older agreements had more time to implement job retention targets than companies with newer agreements. This pattern may also reflect a shift in the industry composition of companies that have received incentives. We know that the FIRE sector's share

of incentive deals has diminished slightly, reducing the number of firms in a relatively robust industry sector, while that of manufacturing, a sector with structural problems, has increased.

- It is certainly important that firms receiving incentive package comply with their promises to retain jobs, but it is also pertinent to analyze job creation targets. Companies that did not create as many jobs as promised are not necessarily in breach of their agreement, since the deals reported it Table 8 are still under way and companies therefore still have time to meet their job creation goals. We therefore selected a subset of 53 cases with positive values in all required fields for both the earliest (1997) and the most recent year (2003) and compared their job creation targets with actual jobs. These firms promised to create 15,271 jobs and actually reported 15,184 additional jobs. In other words, these firms in the aggregate largely met their target despite the recession and a decline in the overall employment numbers for New York City during this period.
- In the next step, shown in Table 9, we consider how well different industry groups did in meeting their job creation goals. Since the sample with valid cases in all fields would be too small, we broadened it to include all cases from 1995 onwards that have valid job creation targets and reported actual job creation figures for at least two consecutive years, so we can compute a mean annual job change that can be compared across industries. (We assume that if an industry shows a negative or very low mean actual job creation number, it did not perform well in meeting its job creation targets.)
- Table 9 shows that the construction and retail industries showed employment decline during this period. Despite the downward trend in the manufacturing sector as a whole, industrial firms receiving subsidy showed a net job expansion. All other industry divisions also have positive annual job creation, although it is not possible to determine whether the final job creation targets will be met.

- In order to compare overall job targets, we further broadened the analysis to include companies that have job retention goals but not job creation targets and compared the total sums. Table 10 shows a different pattern across major SIC industry divisions than shown in Table 9 when we consider *both* job retention and creation. Manufacturing does not meet its aggregate job target, nor did most other industry groups, notably services and the FIRE industries. (Only communications did.) These results have to be interpreted with great caution, however. Firstly, job performance was measured in 2003, a year with a relatively poor economic environment preceded by substantial job losses in the previous two years. Secondly, firms are still executing their agreements, so they still have time to overcome the mismatch.
- A more fine-grained analysis at the two-digit SIC level (Table 11) also demonstrates that almost every industry reported actual job numbers that were well below their total job targets. Again, of the industries with a substantial number of jobs promised, only communications and business services substantially exceeded their targets. Table 12 reports the difference between the mean number of jobs to be created or retained for a given year and the mean actual number of jobs reported. To account for the fact that different numbers of deals were in force in every year, this table uses an average for all companies rather than totals. Job target fulfillment was on average positive in most years except in 2002 and 2003, most likely due to the economic downturn after 2001. Nevertheless, the caveat regarding the interpretation of these findings mentioned for the one-digit SIC level in the previous paragraph also applies to the analysis of the two-digit level. Further investigation and better datasets are necessary to explain why the analysis of job retention and creation targets yielded different results depending on the methodology used.

Table 13 reports how many firms had complied with their job retention goals from

1996 through 2003. (We do not consider job creation goals in this table since reaching them was not a strict requirement during the active period of the agreement.) It shows a steady decline in the share of businesses that are in compliance with job targets. A number of caveats must be kept in mind when interpreting this remarkable trend. First, the quality of reporting under Local Law 69 clearly evolved over this period, becoming more stringent. The latter figures thus reflect 'truer' values. Another potential problem is the difference in numbers of cases reporting data from year to year, a factor that affects the entire data set.

ES-202 Data

- In the absence of a full panel of accurate data from all incentive-receiving companies, we sought to use an independent data source, employment by establishment as recorded by the state's ES202 unemployment system, to track the movements of the entire industry segments in which incentive-receiving firms are located. Figures 1 through 7 show the trends in overall employment for two-digit SIC industries in the zip codes in New York City containing incentive-receiving firms in those industries. Despite absolute employment declines, the incentive-receiving firms in all the industry sectors except for retail and services outperformed their respective industries. An interesting case is manufacturing (Figure 2), where the incentive-receiving firms followed a significantly more positive path than overall manufacturing employment (which decreased by about one third from 1989 to 2001.)
- There are two different ways to interpret these trends. One is that receiving economic development incentives may have helped these firms outperform their peers. In this view, the absence of incentives may have led to even worse performance of their industry segments. Alternatively, it is clear in many cases that granting incentives did not help their entire industries to post robust job growth. Indeed, it may be that granting incentives to some firms in an industry will help them drive competitors out of the marketplace, causing industry job

totals to decline.

4 Conclusions

The results presented in these tables and figures do not give us a clear answer to the question of whether economic development incentives help the New York City economy to grow. The evidence on job retention and creation is mixed and mostly ambiguous. Although many companies do not meet their agreed-upon job targets in absolute terms, the evidence suggests that companies receiving subsidies outperform their respective industries in terms of employment growth – that is, the grow more, or decline less. A notable case is manufacturing, in which incentive-receiving companies perform in a manner that is distinctly superior to that of the industry as a whole. We emphasize that this finding is difficult to interpret, since firms receiving incentives may not be representative of the industry as a whole. In other words, their above-average performance may simply reflect the fact that the EDC selects economically promising companies within manufacturing (or other industries) when granting incentives. At the same time, it is also possible that receiving incentives helps these companies to become stronger. More research is required to clarify this question.

Future research should also examine whether granting incentives helps neighborhoods as well as firms. Our mapping of where incentive-receiving companies are located reveals that they are heavily concentrated in Downtown and Midtown Manhattan and a few other locations. While some residents of lower-income neighborhoods might benefit from the help given to these firms because they commute into these areas, they might benefit more if the city granted incentives to firms located near their neighborhoods. They might also benefit more if, instead of making tax expenditures to private firms, government invested more tax revenues in rehabilitating roads, transit, and other infrastructure relevant to business operations. In recent years, EDC has supported more projects located outside Manhattan, but no one has studied the impact of these investments on neighborhood development.

- On the other hand, it may be argued that since a majority of the most productive and competitive industries are located in Manhattan, it makes more sense (following the export-base theory) to support them rather than declining industries in non-competitive locations.
- More research therefore must be undertaken to not only to evaluate the effectiveness of incentive programs at the firm level, but to link the performance of these firms to employment trends by industry and by the neighborhoods in which their employees reside. A more thorough analysis would attempt to follow the links in this chain to determine whether and how the benefits of incentives given to certain companies filter out into various population groups and neighborhoods. This is indispensable for allocating scarce public funds in ways that achieve the more efficient and socially equitable results.
- Most importantly, future studies should give close scrutiny to the cost-benefit analysis that informs the decision whether to grant discretionary incentives. The EDC uses an input-output model resembling the national model used by the United States Commerce Department to calculate potential losses and benefits. It routinely uses this model to investigate scenarios assuming that companies would have delayed or abandoned plans to expand, open in, or relocate to New York City or, worse, would have closed down or moved elsewhere if not for EDC's incentives. It would be highly desirable if the EDC made these model calculations accessible to independent researchers to scrutinize whether their assumptions were justified.
- Overall, this analysis suggests that the EDC is currently allocating economic development incentives to some of the most productive sectors in the New York City economy and to some of the most productive firms in those sectors. It is backing winners, not losers. While this may appear to make sense, this strategy deserves closer scrutiny, particularly if helping strong firms turns out to

undermine weaker ones with little overall positive impact on industry employment. In other words, the granting of economic development incentives does not appear to have led to overall job growth in the industries containing the firms receiving incentives. If job growth is the primary goal, the performance of economic development incentives over the past seven years did not produce that outcome. If, on the other hand, the goal was to increase the competitiveness of some firms by reducing their tax burden and alleviating the cost of capital investment, there is more evidence they have done so, though the firms selected to receive these benefits may already have enjoyed efficiency advantages over their competitors. While most of the public discourse is focused on the use of economic development incentives to foster job growth, the incentive programs appear more apt to assist capital investment, such as construction, renovation and expansion of production facilities and offices. If this is case, the economic value of redistributing public funds to promote investments in the private capital stock would need to be discussed in greater detail. This limited result also needs to be compared to alternative ways to deploy the resources used for discretionary incentives, such as improving infrastructure or providing more training to the workforce. Finally, without compromising the confidentiality of individual companies, the city should develop a more transparent and bettervalidated reporting system so that it can undertake a more precise firm-level analysis of the impact of economic development incentives.

Appendix

(A) Glossary of Economic Development Incentives

A basic distinction can be made when categorizing economic development incentives between as-of-right and discretionary incentives. The latter are granted to an individual company by a local government institution on a case-by-case basis, while the former denotes incentives to which a company is entitled by fulfilling certain predefined criteria such as being located in a designated area and/or pertaining to a specific size or industry group.

Industrial Development Revenue Bonds (IDRB)

IDRBs are tax-exempt debt obligations issued by a local government body on behalf of a private business – typically in the manufacturing sector – for acquiring or constructing capital facilities. IDRBs can be compared to regular note or mortgage financing. The resulting facilities provide security for the bonds, but the financial institution may also require additional guarantees and collateral before it will agree to purchase the IDRBs. The interest they receive is tax free, so they are willing to accept a lower interest rate than regular financing would require. Although the public agency issues the bonds, it does not actually lend the money to the developer. The developer negotiates the terms and conditions of the loan with the lender independently of the agency. It remains the sole responsibility of the developer to repay the bonds and the public agency issues no guarantees to alleviate the financial risk of the loan. In general, IDA bonds are attractive for private lenders because the interest earned is not subject to federal or state taxation.

Lease and Straight Lease (Sale-Leaseback or Lease-Leaseback)

In place of, or in addition to, IDRBs, the IDA can also provide exemptions for real property, sales and use, and mortgage recording taxes. It generally provides this relief through a transaction in which the IDA acquires title or has a leasehold interest in the property, thereby allowing the property to be partially or fully tax-exempt. It then leases this property back to the firm. The IDA may also simply lease the property and then sublease it back to the firm. The main advantage of straight-lease transactions over bond financing is that it provides most of the same benefits while being a less complex transaction to conclude and easier to manage.

Procedurally, the IDA initiates the transaction by taking title to the real property of the supported project for up to 15 years. Since the IDA is not required to pay taxes or assessments on property owned by it or under its control, it can pass this benefit to the assisted company. In some cases, companies benefiting from this arrangement can make payments in lieu of taxes (PILOTs) that are significantly below the amount the company would have paid in property taxes.

Land Sale

To promote local economic development, a public body can help provide the land needed to establish or expand industrial activities through a leaseback transactions or the direct sale of public land. The latter is usually easier to carry out. The rationale for selling public land below market price is that high initial land costs can seriously erode project feasibility. Careful consideration of cost-benefit relations of the industrial activity in questions is important, however, for determining the maximum discount given to a company and/or developer.

Industrial and Commercial Incentive Program (ICIP)

The EDC's largest as-of-right program, the Industrial and Commercial Incentive Program (ICIP) reduces property taxes on newly constructed, expanded, modernized, rehabilitated or otherwise physically improved industrial or commercial buildings. ICIP

benefits are granted "as-of-right" to all applicants whose projects qualify under the provisions of the legislation. The program is specifically designed to deliver benefits to companies that build or expand in the outer boroughs and north of 96th Street in Manhattan. (For the most part, this report excludes ICIP recipients since its focus is on discretionary rather than as-of-right incentive programs.)

Urban Development Action Grant (UDAG)

The Federal UDAG program was established in 1977 to help economically distressed communities finance private commercial, industrial, and housing development projects. Localities use UDAG funds to generate private employment and tax revenues. In New York, over half the funds supported retail and wholesale projects. The Federal government terminated the program in 1988, but the subsequent recycling of the funds means that a few UDAG grants are included in the Local Law 69 reports in the earlier years of the study period (1989-2003).

In recent years, the city administration introduced several safeguards to ensure that firms adhered to the terms of their incentive agreements (EDC 2004). These include

- making benefits available on a per-job basis only in the year after each new job is created.
- requiring that the estimated additional per-employee tax revenues to the City from that prior year must be several times the incentive amount per employee.
- requiring the company to forego a pro rated share of its benefits if it falls below its required employment commitment by a small percentage; if it has already used its benefits, the city recaptures that amount. If the company falls below its commitment by a larger percentage, it forfeits the entire benefit for that year with recapture, if necessary and the city suspends its benefits. In each year that the company remains below the required commitment, there is further forfeiture and, if necessary, recapture.

- requiring companies that relocate a certain percentage of jobs out of NYC to repay the pro rata share of past benefits times a penalty factor and forfeit the remaining pro rata share of future benefits times that penalty factor.
- requiring companies that relocate a larger percentage of jobs, or totally relocates its designated operations, to repay all realized benefits multiplied by a penalty and terminating the deal. This penalty is 200 percent through the first half of each agreement, phasing out over the remaining term.

(B) Definitions and structure of datasets used in the analysis

ES202 Employment Data

- This New York State Department of Labor (DOL) Covered Employment and Wages data series (also known as ES202) provides a time series of the number of workers and aggregate wages by detailed industry by zip code of firm location. DOL collects this information from employers covered by New York State's Unemployment Insurance Law. ES202 data cover approximately 97 percent of New York's nonfarm employment, providing a virtual census of employees and their wages as well as the most complete universe of employment and wage data, by industry, at the State, regional, county, and zip code levels. The data used for this study defines industry according to the older Standard Industrial Classification system (SIC) for 1992 through 2001 and the newer North American Industry Classification System (NAICS) for 2000 through 2003. Because the SIC and NAICS are not compatible, we focused only on the years organized according to the SIC system.¹
- A known problem with using ES202 data for this type of analysis is that firms do not always report jobs where they are actually located, as the reporting form asks,

¹SIC industries do not have a one-to-one correspondence with NAICS industries; instead, components of each SIC industry are distributed over various NAICS codes.

but instead at the address of the company's headquarters or accounting service. While this may somewhat distort the picture of how jobs are distributed across zip codes, the main trends will nonetheless be visible. Another problem with ES202 data is that it suppresses data for zip codes with fewer than three employers in the SIC for confidentiality reasons. To remedy this problem, we developed a suppression correction algorithm. If observations were available for other years in the series (i.e. years when the number of reporting companies in an SIC rose above two) we calculated employment for the suppressed cases by applying the per-firm average taken from those other years. Where employment information was missing for whole series (because number of firms in zip code was continuously below three), no adjustments were made. The upward adjustment of employment numbers due to suppression correction ranged from 0.04 percent of total employment in 2001 to 0.27 percent in 1992. Further correction of cases with no valid observations would probably increase employment totals at the same order of magnitude.

A final problem is that linking data reported by incentive-receiving firms with totals for all industries in their SICs in their zip codes inevitably includes firms that did not receive any incentives in the analysis as well as those that did. We limit this problem by including only those firms that share a two digit SIC code with subsidy-receiving firms, but we cannot completely eliminate it. An idea of the magnitude of the difference between the two series can be gotten by comparing the aggregate number of jobs in incentive-receiving firms identified in the EDC files for 2001, which is 204,002, with that of all firms in their SICs as reported in the ES202 series, which is 265,147. Thus while clearly cannot equate the two sources, they are also demonstrably not far apart. Since the point of incentive programs is to grow industries, not just firms, the ES202 data may indeed be as relevant as the LL69 data.

County Business Patterns

County Business Patterns (CBP) is an annual federal data series that provides data

on employment and wages standardized by industry by county. Researchers use this series to study the economic activity of detailed geographic areas over time and to benchmark time series data between economic censuses. CBP data excludes self-employed individuals, private household workers, railroad employees, agricultural employees, and most government employees. Since 1998, it has classified industry by NAICS. Before 1998, it used the SIC system. Economy.com, a private data supplier, has attempted to reconcile SIC and NAICS data at the county level and provides a continuous time series of employment at county level from 1984 through 2004 (values for 2002, 2003 and 2004 are forecasts based on an earlier time series and augmented by smaller more recent samples). We use this dataset to benchmark our other findings.

References

- Bartik, T. 1991. The effects of property taxes and other local public policy on the intrametropolitan pattern of business location. In: Herzog, H., Schlottman, A. (Eds.): <u>Industry Location and Public Policy</u>, University of Tennessee Press, Knoxville, TN.
- Bartik, T. 1994. Jobs, Productivity, and Local Economic Development: What Implications Does Economic Research Have For the Role of Government?" <u>National Tax Journal</u> 47(4):847-862.
- Bowles, J. 2001. The City's Tax Break Policy is a Waste. In: <u>Newsday</u>, February 26, 34.
- Center for an Urban Future. 2001. Payoffs for layoffs: Designed to save Jobs, New York City's Corporate Retention Deals often Result in Job Cuts.
- Dunn Jr., E.S. 1960. A statistical and analytical technique for regional analysis. <u>Papers and Proceedings of the Regional Science Association</u> 6:97-112.
- Economic Development Corporation of New York City [EDC] 2004. Available Incentives Programs for Businesses. Available under www.nyc.gov/edc

Fainstein, S. Stokes, R. 1998. Spaces for Play: The Impacts of Entertainment

Development on New York City. <u>Economic Development Quarterly</u>, 12:1, 150-165.

- Fox, W.; Murray, M. 1998. Incentives, firm location decisions and regional economic performance. In: Ladd, H. (ed.): <u>Local government tax on land use</u> policies in the United States. Northampton, MA: Edward Elgar, 168-181.
- Gabe, T. M., Kraybill D.S. 2002. The Effect of State Economic Development Incentives on Employment Growth of Establishments. <u>Journal of Regional</u> <u>Science</u>, 42, 703-730.
- Glaeser, E. L. 1999. Help poor people, not poor places. <u>The Wall Street Journal</u>, August 12, 1999: A22.
- Goss, E.; Phillips, J. 1999. Do Business Tax Incentives Contribute to a Divergence in Economic Growth? <u>Economic Development Quarterly</u> 13:3, 217-228.
- Good Jobs New York. 2004. Know when to fold 'em –time to walk away from NYC's "corporate retention" game.
- Kelly, T., Henderson, J. W., Seaman S. L. 1997. The Efficiency of Tax Abatement in the Market for Jobs. Journal of Economics, 23:2.
- Ladd, H. 1998. Local government tax on land use policies in the United States. Northampton, MA: Edward Elgar.
- Leroy, G. 1995. No more candy store: states move to end corporate welfare as we know it. <u>Dollar & Sense</u>, May/June 1995.
- IBO, New York Independent Budget Office (2001): Full disclosure? Assessing city reporting on business retention deals, Policy Brief, June.
- Rubin, M. 1990. Urban enterprise zones: Do they work? Evidence from New Jersey. <u>Public Budgeting and Finance</u> 10/4, 3-17.
- Tannenwald, R. 1996. State business tax climate: How should it be measured and how important is it? <u>New England Economic Review</u> 1, 23-28.
- Vogel, R.M. 2000. Relocation subsidies: Regional growth or corporate welfare? <u>Review of Radical Political Economics</u>, 32/3, 437-447.

Weber, R. 2004. Negotiating the ideal deal. (Paper presented at the Competing for Capital Conference, University of Minnesota, February 13).

The City of New York, Department of Finance, Office of Tax Policy. 2003. Annual

Report on Tax Expenditures, Fiscal Year 2003.