Getting in the Game

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Once a niche industry marketing to kids and teenagers, video games are beginning to rival music and movies in popularity and revenues.

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GAME DEVELOPMENT COMPANIES IN NEW YORK CITY
GETTING IN THE GAME

A CULTURAL PHENOMENON IN THE DAYS OF PONG AND PAC-MAN, the video game industry has evolved into an economic powerhouse with the staggering success of home gaming systems like Nintendo’s Wii, PlayStation 3 and Xbox 360. The field has achieved more robust growth in recent years than almost any other part of the entertainment industry. And with video games now breaking into previously untapped markets—including women and adults—the industry’s future is exceptionally bright.

New York City has many of the ingredients necessary to capture a significant share of the video game industry’s growth. It boasts a deep pool of creative workers and it is home to some of the world’s most successful film, media and publishing companies—sectors that have similar characteristics as gaming.

New York has already emerged as one of just a handful of cities in North America to establish a modest-sized cluster of video game companies, thanks to impressive growth in the number of gaming firms over the past few years. As recently as five years ago, the city had only a few companies in the industry; today there are about 30 game development companies and another 55 firms involved in some aspect of games. Many of these firms have been adding employees at a rapid clip.

However, New York is well behind other gaming hubs like Seattle, Los Angeles, San Francisco, Montreal, Vancouver, Boston and Austin in the total number of video game development companies. The city’s gaming workforce is also much smaller than other hubs, largely because none of the industry’s giants—such as Electronic Arts (EA), Ubisoft or Sony—are located here. And since industry leaders still don’t perceive New York as a major center for gaming, the city routinely loses talented workers—including many of those who graduate from gaming programs at the city’s universities—to firms in these and other cities.

New York undoubtedly has the potential to build on its recent gains and establish a larger video game industry. Doing so would help the city diversify its economy and create well-paying jobs in one of the nation’s most promising sectors. But as this study demonstrates, the growth of the city’s video game sector is far from assured.
This report, the first comprehensive analysis of New York City’s video game sector, is based on extensive data analysis and more than two dozen interviews with executives of local video game companies, academic officials involved in gaming programs, city officials and an assortment of local and national industry experts. The study was also informed by a wide-ranging survey of dozens of entrepreneurs and workers in the city’s video game industry that was conducted in partnership with the New York chapter of the International Game Developers Association (IGDA).

Video games have been around for more than 30 years now, but the industry has exploded in the last decade as home systems came to eclipse the arcade games that swallowed quarters by the millions in the 1980s. Computer and video game software sales in the United States have nearly tripled since 1996, reaching $7.4 billion in 2006, according to a 2006 report by the Entertainment Software Association (ESA). The number of video game units sold also skyrocketed, from 74 million in 1996 to more than 250 million a decade later.\(^1\) Meanwhile, membership in the IGDA grew by nearly 3,000 percent between 1999 and 2007.\(^2\)

The industry has taken off in part because games aren’t just for kids and teenagers anymore. New systems like Nintendo DS and Xbox Live Arcade, and the growing popularity of “casual games” like Diner Dash and Bejeweled, have redefined the industry. A 40-year-old woman who likes to solve puzzles during her lunch break is now considered as much of a ‘gamer’ as a teenager playing a first-person shooter game for hours each night.

“It’s clear that video games are definitely a major mass medium now,” says Eric Zimmerman, co-founder of Gamelab, New York’s largest casual game company. “Games are not anymore just for geeky young males. In the generation growing up now, everyone is playing games. It’s simply part of their leisure landscape.”

According to local industry experts, the number of game development companies in New York City could be counted on one hand as recently as five years ago. But today, the city is home to more than 30 game development companies and another 55 firms involved in some aspect of games, from sound effects to distribution. Only a handful of other cities in North America have as many gaming firms.

We estimate that the industry employs roughly 1,200 people in the five boroughs—our research identified that many workers, but the overall job total is undoubtedly slightly higher than this figure since we were not able to obtain employment information from a number of firms. While the employment total is still small, the workforce in the five boroughs has swelled in recent years. For example, Kaos Studios has grown from 15 to 90 employees. Other city-based firms like Arkadium Games, Powerhead Games and Large Animal Games have experienced considerable job growth.

Unlike most other gaming centers in North America, New York does not have any of the industry heavyweights that employ thousands of people locally. Take-Two Interactive Software and Atari are the two largest video game companies headquartered in the city. Both are major players in the industry, but most of their jobs here are in marketing, sales and other business fields rather than game development. The city is also home to entertainment companies like Via-
com—which includes MTV, VH1 and Nickelodeon, among other networks—that are increasingly incorporating video games into their portfolio.

Although New York does not have an EA or Ubisoft, the city has become one of the nation’s leaders in two fast-growing sub-sectors of the gaming industry: casual games and mobile games, which are played on cell phones. The city is also developing a reputation as a major player in “serious games,” which are used for education, training or simulation. Industry experts believe these niche areas have only begun to take off, leaving New York well positioned for the future.

“If you look back five or six years ago, there wasn’t that much going on in New York. There were casual game companies just getting their feet wet. A lot of the big studios that are very successful now weren’t even in existence,” says Coray Seifert, associate producer at Kaos Studios. “The growth of those studios has really been what’s sparked the game industry to have a presence in New York.”

Video game industry leaders and economic development experts are optimistic that these trends can continue: 58 percent of the local gaming executives who responded to our survey indicated that the city’s video game sector has “considerable potential” for growth in the years ahead while 37 percent say it has “some potential.”

“The video game sector in New York is going to keep growing,” says Franklin Madison, technology program director at the Industrial Technology Assistance Corporation (ITAC), a Manhattan-based nonprofit organization that has worked with several video game firms. “As it matures, I think it’ll become more of an important sector for economic development people to look at. It’s a new and burgeoning industry and we should court it because it doesn’t take a lot of space and it doesn’t take a lot of money.”

But despite the recent growth, the city’s video game industry is still small compared to other regions with game development workforces that number in the thousands. “New York is an interesting case because you would think it would be an ideal place for game development and creative workers,” says Jason Della Rocca, executive director of the IGDA. “Surprisingly, there are far fewer game studios as compared to the San Francisco Bay Area, Seattle, Austin or even nearby Boston. While the game development community in New York is growing, it is still relatively small.”

New York has significant challenges to overcome if it is to cultivate a larger video game industry. Chief among these problems is a lack of technical workers: while video game companies based in the city usually have no problem attracting artists, illustrators and other creative talent, they often struggle to fill positions for programmers and engineers. Indeed, a third of all companies who responded to our survey indicated that the limited technical talent available and the high salaries those workers demand are among the greatest challenges for New York’s video game companies.

Many of those interviewed for this report cite two factors missing from New York City that are crucial for growth: a major gaming studio, and a critical mass of small and medium-sized game development firms. In cities that boast robust gaming sectors, the presence of one large company like Microsoft, Sony or Electronic Arts typically serves as a critical anchor for the region’s growth. Simply by supplying a large number of jobs for programmers, illustrators, musicians and producers, these firms help attract a talented workforce to the re-
Many of these workers eventually branch off to start their own game development companies. Similarly, a critical mass of gaming firms provides additional job opportunities for game developers and signals to aspiring entrepreneurs that the city is an attractive climate for video game companies to prosper. The result of all this is a “gaming ecosystem,” where developers can readily move from company to company or start their own shop. This ecosystem hasn’t yet been established in New York. As a result, many of the industry’s most promising entrepreneurs and skilled workers opt for other cities. Most native New Yorkers who become skilled programmers are hesitant to pin their career hopes on New York’s small game industry and move away; those who do live here are often snapped up by investment banks or ad agencies that pay much higher salaries.

Another problem is that the city’s universities aren’t creating the pipeline of technical talent that video game companies need. While universities in the five boroughs do offer many more game-related degree programs than a few years ago, none of them currently offers a degree in game programming, the technical side of the trade. “The technical absence is a big, big deal,” says Nick Fortugno, co-founder of Rebel Monkey, a casual game studio. “If there was a serious [academic] games programming department in New York City, that would be an enormous boost to the game industry. I think that would be the single biggest thing that could happen.” Some developers say that the city’s schools also don’t do enough to link up with industry and feed students into local companies.

Additionally, several of the video game entrepreneurs and executives interviewed for this study expressed frustration that economic development officials for both the city and state have done little, if anything, to support the industry’s growth. In fact, more than three-quarters of those who responded to our survey said they had never interacted with the city—and of those who had, most characterized their experiences as negative. They say that city officials have never attended a video game industry trade show or met with the local IGDA chapter.

A number of other cities and states, notably Austin and Georgia, have developed strategies and invested significant resources in growing their video game industries. New York’s Economic Development Corporation (EDC) did conduct an internal study of the video game sector in 2007, but eventually decided that its small size didn’t merit investment of their limited resources. This may have been an understandable conclusion at the time, given the sector’s small size. But as the city’s unhealthy over-reliance upon Wall Street becomes more glaring in the wake of the nation’s credit crunch, EDC officials would be wise to re-evaluate its prior decision and develop a plan for supporting a sector with undeniable growth potential.

Establishing or growing a video game company doesn’t require a great deal of infrastructure or real estate investment, and can have a major economic payoff. “It’s a knowledge industry,” stresses Della Rocca. “We don’t need big warehouses and coal burning engines. It’s a bunch of guys and girls in an office with computers. From an economic point of view, if you’re a city or state or country, and you’re looking for something that is high output, give some computers to these people, let them rip, and find some ways to support them.”

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THE BIG PICTURE

Once a niche industry marketing to kids and teenagers, video games are beginning to rival music and movies in popularity and revenues.

You don’t have to own a Nintendo Wii console to recognize that the video game industry has experienced phenomenal growth in recent years. While new systems like the Wii regularly sell out of stores in days or even hours after release, that’s only the tip of the iceberg. Nintendo sold 38.1 million of their portable Game Boy Advance system in 2006, compared to 15.4 million in 2003; sales of the hugely popular Nintendo DS, another handheld system, more than doubled between 2005 and 2006; and Microsoft has sold over nine million Xbox 360 consoles since its debut just two years ago.

Accordingly, the game development workforce has expanded. Game Developer Research, a private firm that studies the gaming industry, estimates that there are now about 40,000 workers involved in game production and development in the United States. The IGDA’s membership has skyrocketed from 429 members in 1999 to 12,795 in 2007, an increase of 2,882 percent. The association now boasts 79 chapters on five continents. Electronic Arts (EA), one of the leading video game console companies, nearly doubled its workforce between 2000 and 2005.

The industry’s economic footprint is also larger than ever before. A 2006 report by Robert Crandall of the Brookings Institution, and J. Gregory Sidak of the Georgetown University Law Center estimated that the sector contributes more than $18 billion to the American economy each year. Other studies have found that consumer spending on video games is growing faster than film, music, television, books and magazines. “The video game industry has grown into a vibrant business that creates thousands of jobs, improves the performance of other industries, and spurs technological advancement,” Crandall and Sidak argue. “Policymakers should be cognizant of the industry’s importance to our country’s economic future, and they should seek opportunities to ensure its continued ability to innovate and grow.”

Experts believe that the sector will continue to gain ground. A 2007 PricewaterhouseCoopers report predicts that “the video game sector will remain one of the above-average growth segments of the US and global entertainment industries, with global games spending set to exceed music spending this year. By 2011, the worldwide gaming market will be worth $48.9 billion at a compound annual growth rate of 9.1 percent during the five-year period.”

“Another sign of the industry’s bright prospects is that a growing number of colleges and universities have created video game-related degree programs, both at the undergraduate and graduate levels. According to the IGDA, fewer than a dozen North American universities offered video game-related programs in 2000. As of 2005, there were more than 100 programs in the US and Canada, and dozens more overseas.”
NOVICE PLAYER

New York City’s video game sector has enjoyed robust growth in recent years, but remains modest overall.

There is no precise data on the number of video game companies in New York. But based on more than two dozen interviews and the survey conducted for this study in partnership with the New York chapter of the IGDA, we have identified roughly 30 game development companies in the five boroughs and another 55 companies that work on some aspect of game production, from animation and ad sales to sound effects and marketing—numbers that represent dramatic growth from just a few years earlier. The industry employs at least 1,200 people in the city.

“When I started six years ago in New York, there was a very limited game community,” says Fortugno of Rebel Monkey. “What’s happened since then is that more and more studios have started to pop up, mobile has gotten a deeper foothold in New York, more casual games studios have come up, and those casual game studios have gotten much bigger. I see more people in the games industry than I have ever seen before.”

A mix of companies responded to our survey, from game developers and publishers to distributors and audio companies. Only two of the companies that replied to our survey have fewer employees than when they started, and several have seen tremendous growth. For example:

- Arkadium Games, a game development and publishing company, started as a husband-and-wife pair in 2001 and now employs 27 people. The company’s revenues reached $12 million last year.11
- Powerhead Games, which produces games for the Nintendo DS, started with three or four people working out of the founders’ apartment in 2000, and now has 22 employees.
- Gamelab, the largest casual game company in New York, was founded with two employees in 2000 and now has a staff of 25.
- Kaos Studios works on console games for the Xbox 360, such as Frontlines: Fuel of War. The company began with 15 employees and has since grown to about 90, with plans to add another 30 employees by year’s end.
- Rebel Monkey, a casual game studio, grew from 1 to 15 employees just in the past year.
- Large Animal Games, another casual game company, added six jobs last year, to bring their total to 18 employees, and plans to add another six this year.

By their estimates, the 38 companies that completed the survey have been involved with the development and distribution of more than 1,500 games, with the largest focus on browser-based games, downloadable PC games and mobile games. Chelsea has emerged as the geographic hub of the industry in the city, with at least 10 companies in the neighborhood.

Wade Tinney, co-founder of Large Animal Games, says that New York’s game industry has grown as much in reputation as in size. “I can remember going out to the Game Developers Conference. The first two or three years we went out there, whenever I would meet someone and give them my card, they would see that I was from New York, and say: ‘I didn’t even know there were game companies there,’” he recalls. “That’s definitely changed. Now, I think most folks in the game industry could name at least a couple of New York based companies.”

New York’s video game industry overall may not be as large as other regions (See “Game Boys,” page 9), but it has carved out some impressive niches. New York’s largest market share is in casual games, which are typically PC games that are played online or downloaded, often by people who don’t identify as hard-core ‘gamers.’ Casual games can be played in five or ten minute bursts, and can also be ported for play on cell phones or consoles. (See “Casual Games,” page 11)

New York is home to several of the nation’s largest and most well-known casual game compa-
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which have purposes beyond just entertainment, often addressing important social or global issues. Several award-winning serious games focusing on everything from education in Haiti to the conflict in the Middle East have been developed in New York, and the nonprofit organization Games for Change, which focuses on serious games, recently received a MacArthur grant to expand their work.

Take-Two Interactive Software, which is best known for the controversial Grand Theft Auto games published by its subsidiary, Rockstar Games, is also headquartered in New York. More than 250 people work in the Take-Two office just above Houston Street, including the 100 employees in Rockstar’s New York studio that do everything from game development and publishing to quality assurance and art design. Rockstar’s games take several years and millions of dollars to produce, so none of their games are created in New York, soup to nuts. But the company’s founders, Sam and Dan Houser, call the New York office home and all games have some input from the New York team. Two other large game companies, Atari and Vivendi, have business offices here, but don’t do any development or design in New York.

Another handful of companies in New York are not gaming firms per se, but incorporate game creation as part of their larger portfolio—including ad agencies and web development firms that design games for clients (often referred to as “work-for-hire” or “adver-gaming”) or large media companies that have video game divisions, like Viacom.

But game development is more than designing characters and programming levels. Games need sound effects, animation, even acting—inputs that touch upon some of New York’s core creative industries. While few of the firms that do these things

GAME BOYS: HOW NEW YORK STACKS UP AGAINST OTHER CITIES AND STATES

New York City has emerged as one of just a handful of cities to develop a modest sized cluster of video game companies, but its video game sector lags well behind Seattle, Los Angeles, Montreal, Austin and Boston when it comes to the number of companies and jobs.

California is the unofficial capital of the Amer-
ican video game industry, hosting approximately 40 percent of all jobs nationwide, according to the ESA. More than 190 companies are based in the Golden State, with 34,000 workers directly and indirectly employed in the industry. Most of the companies and jobs are concentrated in Los Angeles and San Francisco. While there is no reliable data on the number of video game firms in each of these cities, the L.A. chapter of the IGDA lists 46 local game companies. The San Francisco Bay Area is home to Electronic Arts (EA), one of the largest players in the industry, which doubled its workforce between 2000 and 2005.

The Seattle area is home to two of the industry’s marquee companies and largest employers—Nintendo and Microsoft, which owns Xbox. Partly due to the presence of these behemoths, the city has also managed to attract a large number of designers, illustrators, programmers and other individuals with skills in various aspects of the video game profession. In fact, the state of Washington has about 15,000 workers overall in the video game sector. But they aren’t all at the big shops: as their efforts produced runaway hits, many developers have splintered off from the big firms to launch their own companies. Washington is now home to a total of 150 firms statewide.

A couple of Canadian cities have also become leaders in the gaming industry. The Vancouver area boasts 60 game development studios and another 100 publishers, service providers and other firms involved in some aspect of video game production. These firms employ 4,000 to 5,000 workers. Montreal is an industry nexus as well, boasting over 50 development companies (with more than 3,600 jobs), 14 software companies (with about 600 jobs), and 18 game-related service companies (800 jobs). The city is now the headquarters of Ubisoft, a French company that is one of the world’s largest game developers and publishers.

Rounding out the other major hubs are Austin, with 51 companies and about 2,000 employees; Georgia, with about the same amount; Boston, with about 75 companies; Maryland with 60 firms and North Carolina with more than 30 video game companies.

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**NUMBER OF EMPLOYEES AT NEW YORK CITY VIDEO GAME COMPANIES**

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Sources: Survey conducted in partnership with IGDA NYC chapter, employer interviews and web research.

*We estimate that there are about 30 game development companies in New York City and another 55 firms involved in some aspect of games, from animation and ad sales to sound effects and marketing. We were able to identify employment information for 69 companies, including more than 25 game development firms. The employment figures in this chart represent the number of full-time employees that are involved in games—from development and design to marketing and finance—at a company’s New York City office.
ORGANIZED KAOS

New York’s video game industry may be best known for casual and mobile games, but most cities have grown gaming hubs around the console game development companies that drive employment and profit within the sector. Seattle is home to Nintendo and Microsoft; California has Electronic Arts; Ubisoft is headquartered in Montreal. In contrast, New York City has only a couple companies working on console games, and just one that has developed a game from start to finish in New York: Kaos Studios, which is a subsidiary of THQ, Inc., a major company with 14 locations worldwide. While Kaos barely approaches the largest studios in terms of size, its potential seems sky high.

In 2001, Frank deLise, an independent game developer, created a modification, or “mod,” to one of his favorite video games, Battlefield 1942, updating the action from World War II era dogfights to modern-day warfare. A year later, he created his own studio, Trauma Studios. In 2006, THQ acquired the Trauma Studios team and rebranded it as Kaos Studios. The studio, based in Chelsea, had 15 people on staff when it joined the THQ family; in just two years, Kaos has grown to 90 employees, with plans to expand to 110 by the end of 2008. Its first release for the Xbox 360, Frontlines: Fuel of War, was built off of Delise’s original idea of a “what-if scenario” about the world’s dependence on oil and a future modern-day war. It was released in February 2008 to positive reviews, and a sequel is already under development.

When Delise founded the company, he hoped it would help draw more skilled workers to the Big Apple. “To be a new studio was a way to attract talent. A lot of people working in the industry in Florida, California and Texas are from New York and they left New York because there was nothing here,” he explains. “I thought that if I started something here, I would be able to get people to come back. That is how we were able to grow. A lot of people want to come to New York. The fact that we were in New York was a big, big draw.”

Kaos’ growth has not gone unnoticed by others in the sector, and many think the success of Frontlines: Fuel of War could help jumpstart New York’s video game industry. “I really hope that game sells its butt off, because that’s the only thing that’s going to make those kinds of [console] companies think it’s a good idea to do business here,” says Peter Mack, president of Templar Studios.

CASUAL GAMES

New York City is home to few, if any, of the large video game development companies that have produced blockbuster “console” games like Halo and The Sims. However, the city has emerged as one of the nation’s leading clusters of firms that make “casual games,” which is one of the fastest-growing segments of the gaming industry.

Casual games, which range from online versions of canasta to tennis matches played on the Nintendo Wii, differ from the games that have long dominated the industry. They offer easier ramps of difficulty and shorter play experiences than the dozens of levels and hundreds of hours a player may need to go through to beat a typical console game. The games can be played on-the-go and tend to be simpler and more mass-market friendly.

These games have appealed to an entirely different audience. For years, the typical person playing video games was male and in their teenage years. But casual games have attracted adults, women and other new users. Most don’t identify themselves as “gamers.”

Already, more than 200 million people play casual game online each month, with women comprising the majority of users. But industry experts say that this part of the market is ripe for additional growth. The Casual Game Association (CGA) estimates that the industry brings in revenue of $2.25 billion each year, and is growing at an annual rate of 20 percent.\footnote{This is good news for New York, which has several of the nation’s largest and most well-known casual game companies. Our research identified at least 20 casual game firms in the city. Perhaps best known is Gamelab, which produced Diner Dash, an immensely popular game about an executive who quits her job to run a diner. Games in the Diner Dash franchise have been downloaded more than 200 million times, generated $35 million in consumer spending and rank among the most popular casual games of all time, alongside heavyweights like Tetris, Microsoft Solitaire and Bejeweled.\footnote{Other popular casual games developed in New York include RocketBowl Plus by Large Animal Games, The Nightshift Code by Black Hammer Productions and Molecularly by SMERC Design, Inc.}

Continued growth of the casual game industry in New York could help catapult the local game sector to the next level, and many experts say it represents a great opportunity for the city. “Casual games are a great place to enter the sector because the larger games companies have not established a foothold,” says Gregory Fischbach, founder and former CEO of Acclaim Entertainment. “The casual games industry has the potential to continue to grow at an accelerated rate by addressing a much larger audience than that serviced by those large games companies.”
As much promise as the video game sector holds for New York, the city faces a number of challenges in capturing a larger share of the industry’s future growth. Some obstacles are specific to the industry, most notably attracting and retaining the specialized workforce that video game development companies need. The city doesn’t have a critical mass of video game companies, a problem that makes it difficult for New York firms to recruit talented programmers and creative staff. Others are common for any aspiring business in the five boroughs, like the high cost of office space. Insufficient support from academia and government are also factors: the city’s universities come up short in offering a broad range of video game programs, and both city and state economic development divisions have all but ignored this burgeoning sector.

### THE TALENT PIPELINE

Ask most people what you need to make a video game, and they would point to the designers who dream up the concept, the artists who draw the characters and the producers who help get the game to the mass market. But the technical workers who toil behind the scenes are the ones who can really make or break a game. High-tech meccas like Seattle and the Bay Area have an abundance of these workers; New York City does not.

A third of the companies that responded to our survey said that the lack of experienced technical talent was among their greatest challenges. “I trip over three or four 3-D artists on my way to work every day, but I can’t find a good mathematician to save my life,” says Templar’s Peter Mack.

The city has a modest pool of skilled technical workers, some of whom are avid gamers. But most of them opt to work for financial companies or ad agencies that pay considerably higher salaries than the city’s small and mid-sized gaming companies can afford. “New York has a huge number of programmers but they’re almost all doing large back-end systems for financial companies and paid for Wall Street scale, which they’re not going to receive if they go off and do games,” says Greg Costikyan, CEO of Manifesto Games.

Video game companies in the city not only have a difficult time competing with financial services firms for the technical workers who are already based here, they also struggle to recruit experienced programmers from other parts of the country who actually want to work at game companies. The relatively small size of the city’s video game sector often deters these workers. For instance, if a programmer leaves Seattle or San Francisco to work for a small firm in New York, and it goes out of business or doesn’t produce a hit title, there are few places in the five boroughs to
fall back on. In other cities, employees have their pick of working for small firms or heavyweights like EA and Sony.

This shortage of technical talent can scare off investors as well. “One of the big issues that has always plagued people in New York was the lack of an ecosystem of people and talent here,” says Bernard Yee, a longtime game developer and entrepreneur. “So if we go to a publisher or a venture capital group and say we want to build a triple A [console] game, they’ll say: ‘where are you going to find people? There’s no one to recruit, unlike in Austin and the Bay Area and Los Angeles.’ They’re concerned about the ability to find the talent or convince people to move to New York.”

GETTING SCHOOLED: GOTHAM UNIVERSITIES AND GAMING

New York’s universities now offer more videogame-related programs than ever before. But compared to other areas, these efforts are small and there isn’t much of a pipeline to connect talented students with local companies. The curriculum is also heavily weighted towards the creative side of game development, rather than the technical programming skills that the industry desperately needs. None offer a specific degree in game programming, a gap that many we spoke with believe inhibits New York’s potential to grow the sector.

Parsons The New School for Design stands out as the leader of the pack, with a strong mix of programs and a slew of local industry heavyweights on the faculty. Colleen Macklin, chair of the Department of Communications Design + Technology at Parsons, says that in 2003, about 10 percent of their graduates did thesis projects in gaming. By 2007, at least 15 percent of students in the graduate program and 20 percent in the undergraduate program had developed a game-oriented thesis.

Other universities also offer relevant programs and classes, and their graduates can be found peppered throughout New York’s game industry. Columbia’s Department of Computer Science offers video game classes and Teachers College houses the Games Research Lab, which studies the intersection of games and education. NYU’s School of Continuing and Professional Studies grants an M.S. in Digital Imaging and Design and the university’s Interactive Telecommunications Program offers some game classes. NYU is also in the early stages of developing an interdisciplinary gaming center, which will be initially housed at the Tisch School of the Arts. Hunter College’s Tiltfactor Laboratory, focuses on socially-responsible games, and the School of Visual Arts and Polytechnic University have also offered some game courses.

Despite these positive developments, New York’s university system falls short when compared to other regions. Schools like UCLA and Carnegie-Mellon are the gold standard, investing heavily in videogame curricula and serving as strong feeders into the local game industry. Boston is a good example of a robust university gaming cluster: the Massachusetts Institute of Technology has world-renowned technical expertise, Worcester Polytechnic Institute offers an excellent game development major, and Harvard’s game development club has several hundred members.

LACK OF CRITICAL MASS

New York has two key ingredients for a robust game sector—an abundance of creative professionals and a world-class entertainment industry. But the city hasn’t yet leveraged these strengths into a critical mass of game companies.

While 30 game development companies in the five boroughs is a vast improvement from just a few years ago, the industry still isn’t quite large enough to grant New York standing as a major player in North America’s gaming sector. And since most of the firms here are small—only one has more than 100 employees, and just a few have more than 30—fewer opportunities exist for skilled workers who wish to pursue gaming careers. As a result, many talented programmers and game developers don’t even consider staying in New York. “There aren’t enough companies [here] with game design positions,” says Katie Salen, a game designer and associate professor at Parsons. “We’re graduating more students than there is available work.”

The presence of one large game development shop has been a great boost to the success of other regions in achieving a critical mass of video game firms. Having one of these large companies not only provides hundreds or thousands of job opportunities for individuals interested in working
on games; it also typically creates a spigot for new companies, since many new video game firms are started by individuals who get tired of working at a big company and want to start their own venture. This “gaming ecosystem” offers a safety net for developers—if they splinter off and form their own studio, and it goes under, they can usually fall back on a job at the larger companies.

Economic developers elsewhere have been able to create this ecosystem, virtually from scratch. A decade ago, Montreal had no game industry to speak of until the local government began offering video game companies generous tax incentives. Ubisoft, a major French game company, quickly moved their headquarters to Montreal. A number of small companies began forming nearby, and in 2004, California-based EA decided to set up a sizable office in the city, cementing its status as a gaming hub. Montreal now has more than 50 game development companies employing nearly 4,000 workers.

New York City’s largest game studios—Take-Two Interactive/Rockstar’s headquarters, with a staff of 250 and Kaos Studios/THQ with 90 employees—are considerably more modest than the industry behemoths. Accordingly, it has been more difficult for firms here to attract talent and create a strong gaming community where designers can work at larger companies, start their own businesses, and move around between a number of different shops. A handful of new companies have spun out of other ones, but that has been more the exception than the rule.

“New York still hasn’t had a really big center that has generated lots and lots of companies, either from a school or from an individual company, and I think that’s going to be the break point for New York,” says Rebel Monkey’s Nick Fortugno. “When there’s a company that gets big enough that it can then start supporting other game companies in New York, that’s when I think there will be a real sea change in the way New York functions.”

**HIGH COST OF DOING BUSINESS IN NEW YORK**

Another barrier to the growth of New York’s video game industry is the high cost of doing business in the city. In fact, 35 percent of the video game companies that responded to our survey cited high costs as one of their greatest challenges; no other problem was mentioned by as many respondents.

Many of the companies singled out the city’s high rents and lack of affordable office space, a problem familiar to small- and medium-sized businesses in other industries in New York. These expenses can be particularly tough for gaming companies that are trying to start out or grow but don’t have venture capital financing or the backing of a corporate parent.

Video game companies need little more than an open space with room for computers and creativity, but New York’s skyrocketing commercial real estate costs mean that gaming companies often have to scramble to find affordable space or operate the company virtually, a decision that requires holding staff meetings in a local Starbucks or the founder’s apartment. While that can work for a short while, any business trying to get to the next level won’t be able to grow in a meaningful way if they can’t find a space to set up shop.

But the high costs that threaten New York’s burgeoning game industry go beyond real estate. Game companies struggle to defray the area’s high cost of living for themselves and their employees, shelling out big bucks for expensive insurance costs and competitive salaries to attract and retain talented workers. Many companies are keenly aware that New York’s real estate costs are off the charts and can rattle off the lower prices of commercial real estate in other gaming hubs without missing a beat. A number of video game companies said that costs could drive them out of New York, and those who reported a commitment to staying in the city said it was largely family ties that kept them here.

No one feels the cost pinch more than start-up companies. Dave Gilbert is seeing sales grow for his one-man company, Wadjet Eye Games, and while he thrives on New York’s creative energy, he has entertained leaving the city, purely due to rising costs. “The biggest problem is how expensive it is to live here,” he says. “I thought many times of renting out my apartment and going to live near my friends in Texas, where I could pay rent and eat and live reasonably well. And here I live in a one room studio in the East Village and barely make my mortgage every month. It’s really tough.”
As this report has detailed, New York City’s video game industry has been gaining ground in recent years and offers considerable potential for even more growth. But the Bloomberg administration has thus far failed to incorporate this emerging sector into its overall economic development strategy. Neither the Economic Development Corporation (EDC) nor the Department of Small Business Services (SBS) has devoted staff or created initiatives intended to support companies in this sector. Indeed, 76 percent of companies that responded to our survey said they had never interacted with the city, and most who had cited negative experiences.

In a sector largely comprised of small firms, it is understandable that the city has not offered broadly based tax breaks or other traditional economic development inducements. But there are smaller, easier and less expensive actions—from appointing a digital entertainment liaison to hosting regional gaming conferences—that other cities have seized upon where New York has not. EDC staffers have not yet attended a meeting of the local IGDA chapter, traveled to gaming trade shows to promote New York’s video game sector or attempted to convene an industry confab in the five boroughs—all common steps in cities that have developed video game clusters. The city of Boston hosted a conference called “Powering Up: Boston’s Digital Game Industry” and Georgia’s Department of Economic Development co-sponsored the first-ever Southern Interactive Entertainment and Game Expo.

To its credit, EDC did conduct an internal study of the video game industry in 2007, examining both nationwide trends in the sector and what had been happening in New York. Ultimately, EDC officials concluded that the industry was too small to merit a major investment of their time and resources. “The sector isn’t big enough,” said one former city official who has seen the internal EDC study. “If you come up with 5,000 jobs and that’s 100 companies, you have to put that in context of the city’s economy as a whole. This is a big economy, and a couple hundred jobs here and a couple hundred jobs there just don’t move the needle.”

Given the rapid pace of change in technology industries, however, video game executives say that EDC’s analysis is now outdated—as the subsequent local growth of the industry demonstrates—and argue that what makes this sector worthwhile is its potential for future growth. “I thought they were shortsighted,” says Portonjno, who met with city officials and heard their conclusions. “I think there’s a lot of potential for games to get bigger and bigger. It’s a longer term investment, but I think the city is missing an opportunity.”

While little has happened yet, EDC officials we interviewed said they would be interested in concentrating on the video game sector as part of a larger strategy to grow technology industries in New York, and added that the agency is currently working to develop such a strategy. Additionally, the Mayor’s Office of Film, Theatre and Broadcasting has expressed an interest in the gaming sector, given its similarities to film. Commissioner Katherine Oliver says that she and her staff have been “exploring new media and reaching out to various digital companies.” This June, the office will host the Internet Week festival, which, according to Oliver, “promises to be an energizing showcase for all of the various forms of digital media that will be involved.”

Have you had any interaction with New York City or State government?

| Yes | 24% |
| No  | 76% |

Source: Survey conducted in partnership with IGDA NYC chapter
RECOMMENDATIONS

With rising numbers of people around the world succumbing to the video game craze, the gaming sector is poised to be one of the fastest-growing parts of the entertainment industry in the years ahead. New York City could easily capture a modest share of this growth. As a global leader in related entertainment fields like film and advertising, New York already boasts a foundation of more than two dozen game development companies—more than all but a handful of other cities in North America.

Admittedly, it’s unlikely that the video game industry in New York City will ever grow to rival the city’s finance or health care sectors in scale or significance. But the sector clearly has the potential to create hundreds, if not thousands, of new jobs—an opportunity the city cannot afford to let pass by. The following recommendations will better position New York to stake a larger claim on this burgeoning industry:

Integrate the gaming sector into the city’s overall economic development strategy. During the Bloomberg administration’s tenure, EDC has smartly attempted to incorporate a wider range of industries into its overall economic development plans than the city had in the past, cultivating sectors from biotechnology to film. EDC now ought to develop a framework for supporting the video game sector. This doesn’t have to include major tax incentives to gaming firms; there are a number of small steps the agency could take to help home-grown video game companies get to the next level. These include:

• Dedicate a staffer to supporting the video game sector. EDC could create a video game desk, as the agency has for other industries such as bioscience and media in assigning one or more agency employees to act as liaisons. This would provide agency officials a better ongoing sense of the industry’s problems and needs and would inform potential plans to provide assistance. Alternatively, EDC could set up a new unit to support emerging high-tech industries and include video games among the sectors it aims to help.

• Develop a relationship with the local chapter of the International Game Developers Association and reach out to businesses in the city’s video game sector. Currently, few of New York’s video game companies have had even a single interaction with city or state economic development officials.

• Attend gaming industry trade shows and conferences as part of an effort to promote New York as a destination for the gaming industry. Government officials from several other cities and states routinely set up booths or send representatives to national and international gaming events to tout the benefits of setting up shop in their area. EDC currently does this with other industries, including biotech.

• Help bring one of the major gaming conferences to New York, or hold a regional conference here.

• Advertise in game trade publications to promote New York as an attractive place to start and grow video game companies.

New York’s universities must expand their video game programs. The city’s colleges and universities today offer many more video game programs today than five years ago, but none of these grant degrees in the technical side of the field. Filling this void would help to ensure an adequate pipeline of talented programmers for New York’s video game companies. At least one local university should take the lead in developing a technical game design degree program.

Universities and local companies should forge closer ties. Developing ongoing relationships between the city’s university leaders and executives from local video game companies would help guarantee that students enrolled in gaming programs are adequately trained in the tools, procedures and practices that match local industry demands, and might provide local graduates an advantage in the job market within the industry.

Create a centralized, online recruiting vehicle for New York’s game industry. This project could be run by the IGDA or a separate body, and would serve as a one-stop shop for local companies to find and attract talented workers to New York, as well as for workers looking to land jobs here. Publishing a steady stream of job ads would also send the message that gaming work is available in New York.
ENDNOTES

2. IGDA annual report, http://www.igda.org/about/annual_report_06.php
4. Game Developer Research, “Game Developer Census 2007,” and “2007 Game Developer Survey Now Available,” Gamasutra, June 29, 2007. Note: this total includes game developers and publishers. It does not include “game tools companies, game contracting/services companies, external PR, marketing, legal, and other business services, and liaison or licensing divisions at larger media companies.”
5. IGDA annual report.
8. Consumer spending on video games grew 9.6 percent annually, more than all other segments of the entertainment industry except the Internet, according to Veronis, Suhler, Stevenson. From “Video Game Targeting,” New York City Economic Development Corporation.
10. Schiesel.
17. Austin figures from Quoc Tran of IGDA’s Austin chapter; Georgia figures from Georgia Film, Music & Digital Entertainment Office; Boston figures from Kent Quirk, one of the founders of the Boston affiliate of the IGDA; Maryland figures from Montgomery College Department of Computer Gaming and Simulation; North Carolina figures from Wake County Department of Economic Development.

SOURCES AND RESOURCES

Casual Games Association: www.casualgamesassociation.org
Columbia University Games Research Lab: www.tc.edu/mst/CCTE/centers.asp
Entertainment Software Association: www.theesa.com
GameDaily: www.gamedaily.com
Gamasutra: www.gamasutra.com
Game Developer Research: www.gamedevresearch.com
Game Developers Conference: www.gdconf.com
Hunter College Tiltfactor Laboratory: www.tiltfactor.org
Industrial Technology Assistance Corporation: www.itac.org
Institute of Play: www.instituteofplay.com
International Game Developers Association: www.igda.org
International Game Developers Association, New York City chapter: www.nycgames.org
New York City Economic Development Corporation: www.nycedc.com
New York University gaming seminar: www.itp.nyu.edu/gaming
New York University School of Continuing and Professional Studies M.S. in Digital Imaging and Design: www.scps.nyu.edu/areas-of-study/design-programs/graduate-programs/ms-digital-imaging-design/index.html
New York University Interactive Telecommunications Program: www.itp.nyu.edu
Parsons The New School for Design, Department of Communication + Digital Technology: dt.parsons.edu
Powering Up: Boston’s Digital Game Industry: www.cityofboston.gov/bra/createboston/poweringup
Southern Interactive Entertainment & Game Expo: www.siegecon.net/dbjoomla
**Companies in New York City’s Video Game Sector**

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<th>Company Name</th>
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<td>Game Trust</td>
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*We have identified roughly 30 game development companies in the five boroughs and another 55 companies that work on some aspect of games, from animation and ad sales to sound effects and marketing. This list includes all of the game development companies we identified as well as publishers, distributors, audio production companies, businesses involved with advertising in games, consulting firms, law firms and others. Some of these companies are exclusively focused on games, while others include games as part of their larger portfolio. In some cases, the New York City office or studio is the company’s only location or their headquarters; in others, the New York City office is one of several offices nationwide or worldwide.*