Smarter, Faster, Cheaper

An Operations Efficiency Benchmarking Study of 100 American Cities
Introduction
According to the Government Accountability Office (GAO), local governments in the United States are collectively facing a $1.2 trillion structural budget deficit, which constitutes about 12% of their total spending. Since these are structural deficits, they will not diminish even when the economy starts expanding again. These shortfalls represent a fundamental disconnect between the spending commitments city governments have made and the level of revenue growth they can reasonably expect to achieve.

As a consequence of these structural deficits, each year local governments must find a combination of new revenues and spending reductions to close the gap in their budgets. Since 2006 local governments have shed 353,000 jobs, including teachers, police officers and fire fighters. They have furloughed employees, refinanced pension obligations, and spent down reserve funds in order to minimize service reductions. Our analysis of the budget-closing measures employed by 13 cities in the State of California last year suggests that between 30% and 60% of the budget-balancing measures adopted by local governments represent one-time savings or revenue generating measures rather than permanent changes to cost structures. This is not surprising, as a similarly narrow approach has too often dominated conversations around the burgeoning federal deficit. But one-off costs are not the answer. As these options exhaust themselves, more layoffs and services reductions are inevitable. Instead of just doing less, there is a way for cities to operate smarter, so that they can do more with less.

For this reason, there is no better time than now to take a hard look at the efficiency of local governments. If local government leadership will take the time to perform the analysis required to identify and root out inefficiencies in their operations, they can shed costs without significantly impacting service levels. In many cases, the thoughtful application of innovations in business process, organizational design, and technology can in fact reduce costs and improve services simultaneously.

One effective means for an organization to identify inefficiencies in their operations is through benchmarking. By comparing the operational profile of similarly situated organizations, opportunities for improved performance can be uncovered. To help cities address the worst budget climate in generations, IBM used publicly available data to benchmark the 100 largest cities in the United States to assess and compare how efficiently they operate. The results of that study, and recommendations for what cities can do with these findings, are the subject of this paper.

Our goal is straightforward: by comparing the efficiency with which cities deploy resources, IBM hopes to provide mayors and city managers with a road map for where they should be looking for high-yield savings opportunities in their own local government operations. Given the financial pressures cities face and the likelihood that unfavorable economic conditions will persist for the foreseeable future, there is no better time for local governments to become “smarter, faster, cheaper.”

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| Akron | Baltimore | Birmingham | Boston | Columbus GA | Columbus OH | Colorado Springs | Columbus | Dallas | Denver | Des Moines | Detroit | Durham | El Paso | Fort Worth | Fort Myers | Fort Lauderdale | Fort Wayne | Fresno | Frisco TX | Gainesville | Gary | Gary IN | Greenville | Hammond | Honolulu | Houston | Huntington | Jacksonville | Kansas City | Knoxville | Laredo | Lawrence | Lexington | Lexington KY | Los Angeles | Louisville | Madison | Miami | Miami Beach | Milwaukee | Minot | Minneapolis | Montgomery | Nashville | New Orleans | Newark | New York | New York NY | Norfolk | Oakland | Oklahoma City | Orlando | Orange | Oxford | Panama City | Philadelphia | Phoenix | Pittsburgh | Plano | Portland | Portland OR | Raleigh | Raleigh NC | Richmond | Richmond VA | Rochester | Rochester NY | Sacramento | Sacramento CA | Salt Lake City | San Antonio | San Antonio TX | San Diego | San Francisco | San Francisco CA | San Juan | San Juan PR | Savannah | Savannah GA | Seattle | Seattle WA | Shreveport | Shreveport LA | St. Louis | St. Louis MO | St. Petersburg | St. Petersburg FL | St. Paul | St. Paul MN | Tallahassee | Tallahassee FL | Toledo | Toledo OH | Tucson | Tucson AZ | Tulsa | Tulsa OK | Virginia Beach | Virginia Beach VA | West Palm Beach | West Palm Beach FL | Winston-Salem | Winston-Salem NC | Yellowknife | Yellowknife NT | Yonkers | Yonkers NY | Zion | Zion HI | Figure 1: US Cities included in the study.
Introduction

According to the Government Accountability Office (GAO), local governments in the United States are collectively facing a $2.15 trillion structural budget deficit, which constitutes about 12% of their total spending. Since these are structural deficits, they will not diminish even when the economy starts expanding again. These shortfalls represent a fundamental disconnect between the spending commitments cities governments have made and the level of revenue growth they can reasonably expect to achieve.

As a consequence of these structural deficits, each year local governments must find a combination of new revenues and spending reductions to close the gap in their budgets. Since 2006 local governments have shed 353,000 jobs, including teachers, police officers and fire fighters. They have furloughed employees, refinanced pension obligations, and spent down reserve funds in order to minimize service reductions. Our analysis of the budget-closing measures employed by 13 cities in the State of California last year suggests that between 30% and 66% of the budget-balancing measures adopted by local governments represent one-time savings or revenue generating measures rather than permanent changes to cost structures. This is not surprising, as a similarly narrow approach has too often dominated conversations around the burgeoning federal deficit. But one-off costs are not the answer. As these options exhaust themselves, more layoffs and services reductions are inevitable. Instead of just doing less, there is a way for cities to operate smarter, so that they can do more with less.

One effective means for an organization to identify inefficiencies in their operations is through benchmarking. By comparing the operational profile of similarly situated organizations, opportunities for improved performance can be uncovered. To help cities address the worst budget climate in generations, IBM used publicly available data to benchmark the 100 largest cities in the United States to assess and compare how efficiently they operate. The results of that study, and recommendations for what cities can do with these findings, are the subject of this paper.

Our goal is straightforward: by comparing the efficiency with which cities deploy resources, IBM hopes to provide mayors and city managers with a road map for where they should be looking for high-yield savings opportunities in their own local government operations. Given the financial pressures cities face and the likelihood that unfavorable economic conditions will persist for the foreseeable future, there is no better time for local governments to become "smarter, faster, cheaper."
The Inefficiency in Our Midst

All large organizations harbor inefficiencies. When IBM embarked on its transformation program in the early 1990s, the company eliminated $6 billion in costs, primarily by simply being smarter about what we did and how we did it. IBM now orchestrates similar exercises on behalf of clients, and what we have learned is that no business operation is perfectly efficient. Just about any business process can be tweaked or adjusted in some manner to yield a cost saving. Mostly it’s just a matter of looking for it.

However, once a process inefficiency is identified, fixing it is not a costless endeavor. Re-engineering business processes can be expensive and often require investments in technology, organizational redesign and change management. As a consequence, the biggest challenge for any organization is not necessarily in identifying inefficiencies, but in focusing attention on those inefficiencies where re-engineering investments are likely to yield the highest return.

In our experience, one of the best means for identifying “high yield” operations improvement opportunities is through benchmarking. The reason is quite simple: by comparing the operating performance metrics of a large sample of similarly situated organizations, there is a good chance that you can surface examples of highly efficient operating environments in specific service areas. At the very least, these examples can help management set their performance targets (“if Charlotte can deliver this service as this cost, we should be able to do so as well”). At best, these examples can provide a set of specific lessons that management can attempt to duplicate in their own city (“perhaps we can automate that process the way that Phoenix has”). If nothing else, benchmarking can force managers to take a hard look at their operations simply to explain why their resource deployment differs from their peers.

Our analysis of the spending and employment practices of the 100 American cities included in our study has yielded two major findings:

- The level of resources that cities dedicate to delivering basic municipal services varies enormously. In fact, per capita spending in certain services areas can differ by a factor of ten.
- This broad variation in resource deployment does not seem to be driven by exogenous factors: spending does not generally correlate with population, per capita income, geographic size, labor conditions (union vs. non-union), or differences in workloads (e.g., park acreage).

The Tao of Benchmarking

When Mayor Shirley Franklin first took office in 2002 in Atlanta, she managed to secure the pro bono services of a strategy consulting firm to deliver a series of planning projects. One of the first of these projects was a benchmarking study which compared Atlanta’s spending profile to seven peer cities. Once the numbers were crunched, it turned out that Atlanta ranked next to last among these peer cities in terms of efficiency as measured by per capita spending.

Franklin established an operation within the Mayor’s Office specifically dedicated to fixing this. One of the first places this team decided to look was in the city’s court system, which an earlier review had suggested was rife with mismanagement. In 2003 a benchmarking study and organizational redesign of the court system was performed. In relatively short order, the study demonstrated rather convincingly that Atlanta was spending nearly 300% more on its court system than those of the best practice court systems in the country. Based on the re-organization and re-engineering plan subsequently developed and implemented, Atlanta reduced court spending from $30 million to $11 million over three years, reduced the number of sitting judges from 18 to 10, and shrank the total municipal court workload from 248 to 114. While savings opportunities of that degree are relatively rare, the interesting point is that few people within Atlanta city government at that time thought that the city was overspending on the courts. In fact, there were some council members and court administrators who were pressing for increases in funding.

Over the eight years of Mayor Franklin’s term in office, she conducted over a dozen of these operational reviews. Ultimately the city reduced its headcount by 25% and eliminated $120 million in spending. When the original benchmarking study was repeated in 2009, Atlanta had improved from seventh to second place among the eight cities included in the efficiency rankings. Atlanta ranks 13th in IBM’s MICeC rankings.

The lesson is that until you look and look hard, you don’t really know what is being over-funded. As was the case with Atlanta’s courts system, it is not always obvious. Benchmarking can be an indispensable tool for uncovering those opportunities.

The Study

The benchmarking study includes 100 of the largest cities in the United States (see Figure 1). Collectively, these cities account for nearly $12 billion in annual general government spending. To put that in perspective, municipalities in the United States spend approximately $440 billion on core local government services each year. This means that these 100 cities constitute approximately 27% of total local government spending in the United States.

The cities represented in this study host 47% of the total population of the United States and 26% of the nation’s total urban population. These cities have diverse forms of government: 44% of these cities have strong mayor forms of government and 46% have city managers or hybrid governments where management duties are shared by the executive and legislative branch.

The $51 billion in spending data collected in this analysis occurs within 52 independent budget line items. These line items “roll up” into four major categories: Public Safety, Public Infrastructure, Community Development, and Support Services (see Figure 2). Overall, 57% of the spending is dedicated to public safety. A further 18% is spent on public infrastructure and 11% is spent on community development services such as housing, economic development, and health and human services. Over 14% of spending is on overhead functions including finance, human resources and information technology.

Figure 1: Spending by Functional Area for 100 Cities

Figure 2: Spending by Functional Area for 100 Cities

<table>
<thead>
<tr>
<th>Functional Area</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Public Safety</td>
<td>42%</td>
</tr>
<tr>
<td>Public Infrastructure</td>
<td>12%</td>
</tr>
<tr>
<td>Support Services</td>
<td>10%</td>
</tr>
<tr>
<td>Community and Economic Development</td>
<td>57%</td>
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<table>
<thead>
<tr>
<th>Public Safety (Examples: Police, Fire, Corrections)</th>
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</thead>
<tbody>
<tr>
<td>Public Infrastructure (Examples: Parks, Public Works, Planning)</td>
</tr>
<tr>
<td>Support Services (Examples: Finance, HR, IT, Law)</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

Total: $51.2 B
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However, once a process inefficiency is identified, fixing it is not a costless endeavor. Re-engineering business processes can be expensive and often require investments in technology, organizational redesign and change management. As a consequence, the biggest challenge for any organization is not necessarily in identifying inefficiencies, but in focusing attention on those inefficiencies where re-engineering investments are likely to yield the highest return.

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This is good news and bad news for those responsible for the management of cities. The good news is that the level of efficiency of your government is within your control and there is no shortage of examples from other cities where responsible (and re-electable) city governments have made different strategic and operational choices. The bad news is that the “usual suspects” that are often offered as excuses for failing to be more efficient – labor unions, operational environment, relative poverty – do not appear to be genuine obstacles to efficiency in local government service delivery.

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• This broad variation in resource deployment does not seem to be driven by exogenous factors: spending does not generally correlate with population, per capita income, geographic size, labor conditions (union vs. non-union), or differences in workloads (e.g., park acreage).

This can lead to only one conclusion: in assessing the relative efficiency of resource allocation among municipal governments, management and policy choices are what matter. Cities spend what they spend because they choose to spend it. These choices come in two forms:

• Cities make strategic choices. Although cities are chartered to provide a variety of core municipal services (and in some cases legally required to provide them), they generally have significant flexibility to determine the breadth and depth of those services. What specific services are provided to whom and at what level are all strategic choices that cities are largely free to make on their own. Those choices have significant cost implications.

• Cities make operational choices. Once a city decides which services it should deliver to which citizens at what level, management generally has broad discretion on how they will deliver those services. The choice of delivery model – the mix of capital and labor, the organizations and technologies deployed, and how they are sourced – is generally entirely discretionary to management. The quality of these choices will also have significant cost implications.

The Study
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The cities represented in this study host 47% of the total population of the United States and 26% of the nation’s total urban population. These cities have diverse forms of government: 44% of these cities have strong mayor forms of government and 46% have city managers or hybrid governments where management duties are shared by the executive and legislative branch.

The $5 billion in spending data collected in this analysis occurs within 52 independent budget line items. These line items “roll up” into four major categories: Public Safety, Public Infrastructure, Community Development, and Support Services (see Figure 2). Overall, 57% of the spending is dedicated to public safety. A further 18% is spent on public infrastructure and 11% is spent on community development services such as housing, economic development, and health and human services. Over 14% of spending is on overhead functions including finance, human resources and information technology.
For the purposes of the benchmarking analysis, a subset of spending line items have been extracted and included in the efficiency comparisons. The goal is to isolate a shared set of services to ensure that cities are being compared on an “apples to apples” basis. Of the 52 budget line items that were collected, 40 were included in the efficiency analysis. These 40 items constitute $40 billion dollars in spending or 75% of total general government spending in these 100 cities. It is this spending upon which the efficiency rankings are based.

To account for the unique operational environments that cities encounter, city spending and employment data has been normalized on several dimensions – including population and cost of living differences. This normalization effort minimizes the non-operational factors that might contribute to differences in resource allocation patterns. A more detailed explanation of the study’s methodology is included in Appendix A.

The average city in our sample spends $705 per capita to provide core municipal services and employs 652 employees for every 100,000 citizens to deliver those services. The median city in the most efficient quintile spends $500 per capita less than the median city in the least efficient quintile.

Efficiency varies to a considerable degree across cities (see Figure 3). The standard deviation within the efficiency distribution is $178, which means that cities differ on their overall resource allocation choices by a factor of five. In some specific areas, the difference is even larger; spending on police services, for example, varies by a factor of 16. These are not minor differences. Without question, those who manage cities across the country are making very different choices about how they deploy resources to deliver a similar set of municipal services.

What Drives Efficiency?

How can these large differences in resource utilization be explained? Observers of local government operations tend to entertain rather vague notions of what makes one city more efficiently run than another. The strength of public sector labor unions is often pointed to as an important factor in determining whether city managers can improve efficiency in operations. The “political environment” – code for the degree to which the legislative branch involves itself in management issues – is another factor that some use to explain relative performance.

Perhaps there are operational factors that come into play. Are cities subject to economies of scale? Some city services – such as public works and IT functions – have significant fixed costs associated with them; this might suggest that larger cities should be more efficient than smaller ones. What about geography? One could imagine that the costs to provide services to citizens who are widely distributed geographically would be higher than serving those living in close proximity.

Do demographic factors matter? Do cities with more prosperous residents choose to increase the breadth and quality of municipal services available to them, thereby increasing their costs? Or are wealthier cities in a better position to attract quality management which has the effect of lowering their costs?

Since one of the primary objectives of this study is to determine if any patterns could be detected among high efficiency performers and low efficiency performers, several of these potential “exogenous” drivers of efficiency have been tested.

What the analysis suggests is that efficiency does not correlate with any of these exogenous factors. As depicted in Figure 4, there appears to be no economies of scale at work: city population does not correlate with efficiency. Nor does the geographic size of the city appear to matter: there does not seem to be any advantage to having a smaller physical footprint in terms of the economics of service delivery. And the presence of labor unions with collective bargaining rights does not seem to matter; we can find no statistically significant difference in the cost structures of cities with unions that collectively bargain and those that do not. In fact, none of the other exogenous factors that were tested can explain to a significant degree why efficiency varies among cities.

The lack of exogenous factors driving efficiency levels is a curious result. In a sample of this size, one would expect to find a set of variables that correlate with efficiency to some degree. Does scale really not matter? Can cities faced with unionized workforces really spend as little as those that are not subject to collective bargaining?

The analysis cannot fully answer those questions. What the analysis does suggest, however, is that if those factors do impact efficiency, their impact is being masked by a much more important factor. And that factor appears to be management.
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Management Matters (And It Matters A Lot)

Since none of the exogenous variables tested seemed to account for differences in relative efficiency, it appears that endogenous ones must be operative. It is therefore hard not to conclude that the most important factor in determining the relative efficiency of a city is “management.” The term “management” is used to capture the two major types of impact that leaders can have on the efficiency of their governments:

1. Management makes strategic decisions about what services will be provided to which citizens and at what level of service they will be delivered.

2. Management makes operational decisions about the types of delivery models will be deployed to provide those services.

Management appears to be the key and the study provides some evidence for this. Cities with city manager forms of government are nearly 10% more efficient that cities with strong mayor forms of government. This finding appears to validate the assumption underlying city manager forms of government, notably that investing executive authority in professional management shielded from direct political interference should yield more efficiently managed cities.

To put it another way, even if a city operates within conditions most favorable for efficiency – no collective bargaining, geographically compact, and peaking on all scale curves – the most favorable for efficiency – no collective bargaining, geographically compact, and peaking on all scale curves – management choices can still lead a city down the path to inefficiency. It is both a sobering and encouraging conclusion.

Lost Labor’s Love

Approximately 76% of municipal government expenses are labor related. If you add in post-retirement pension and health costs, the number approaches 86%. How labor is deployed and compensated is therefore the most important decision that managers make in constructing an efficient operating environment.

The study suggests that cities vary considerably in the intensity in which they deploy labor as an input in service delivery. On average, cities employ 651 employees per 100,000 residents. However, the average number of employees per 100,000 residents for the top quintile performing cities is 519 while the average for the bottom quintile performers is 943.

The use of labor – or, more accurately, labor “intensity” – is best understood in terms of how the quantity of labor employed relates to total spending. As depicted in Figure 5, cities that have relatively low spending per capita but high employment gravitate toward the top left quadrant of the chart. These are labor intensive cities that appear to retain large numbers of relatively low compensated employees. All things being equal, this is indicative of an operating environment that depends on manual, labor-intensive business processes. The leadership of such a city would be advised to seek out technology applications that could automate those business processes and improve overall labor productivity.

On the other hand, cities that gravitate toward to bottom right quadrant of Figure 5 have fewer employees but they appear to be more highly compensated. These are labor-leveraged cities. High labor costs may be driving their relative inefficiency, and those cities might be advised to seek out outsourcing opportunities in those areas that do not easily lend themselves to automation.

Cities in the top right quadrant of the chart are likely to be experiencing a combination of both of those labor issues. They would be well advised to deploy both strategies.

Cutting Costs While Improving Service

With most cities almost solely pre-occupied with short-term budget cutting exercises, it is easy to forget that efficiency improvement efforts can in fact be thoughtful, deliberate exercises. Many cities have trained staff and adequate resources to identify, diagnose, and remedy inefficiencies in their operating divisions. Others will hire consultants to address specific areas. Unfortunately, financial crises tend to force the reliance on across-the-board cuts, hiring freezes, and other “slash and burn” tactics that rarely lead to sustainable efficiency improvements. From IBM’s perspective, the use of benchmarking analysis such as that contained in this study can serve two purposes. First, it can place an individual city’s operations into a broader context. Why are we ranked where we are? Why can cities that look like me achieve similar outcomes at lower costs? What are we doing differently?

Secondly, it can provide aspirational targets. Just as Mayor Shirley Franklin compared her city to seven peer cities and launched a program specifically designed to improve her city’s relative efficiency ranking (see sidebar: The Tao of Benchmarking), other cities can do the same.

Once those goals are set, the key is to dedicate the staff and support resources that can focus on medium and long-term savings opportunities. In our experience, a four year program of designing and implementing an efficiency program is not an unreasonable timeframe; it may take longer to fully realize all the projected savings. Cost reduction programs that preserve (and improve) services will take time to execute.

And service levels can be improved. More effective use of technology, for example, often leads to cost reductions and improvements in service quality. Mobile field management technologies have been shown to increase the productivity of building inspectors by 20% while at the same time giving customers the ability to modify appointment schedules in real time. Automating citations have significantly reduced the time it takes for parking enforcement officers to issue tickets while at the same time reducing error rates in parking enforcement, leading to fewer customer complaints. The on-line submission of building plans expedites review and shortens the permitting cycle time, to the delight of developers.

Efficiency improvement programs should occupy a prominent and permanent position within city governments. They should be staffed with professionals and resourced appropriately. There is probably no better investment a city can make in its long term fiscal health.

Deconstructing Budget Deficits

As mentioned earlier, local governments in the United States are collectively running a 1.1% structural budget deficit. This deficit is structural in the sense that even when revenues “recover” – that is, when the recession is over and the economy is expanding again – these deficits will not go away. The only means for eliminating these deficits is either to shift the revenue curve up – by say, increasing tax rates or adding new sources of revenue – or by shifting the cost curve down.

There are two ways to shift the cost curve down: eliminate services or become more efficient in the services that are delivered. Under the assumption that cities do not want to increase tax rates or add new taxes, the question becomes how hard will it be to close these structural deficits through cost reduction alone?

Assuming that the structural deficit ratio that applies to local governments nationally also applies to the 100 cities in our sample, these 100 cities together are running a collective $1.3 billion budget deficit. Since the point of this study is to help cities identify areas where they should be looking for savings opportunities, let’s try to understand what level of performance improvement would be required to eliminate a deficit of this magnitude.
Management Matters (And It Matters A Lot)
Since none of the exogenous variables tested seem to account for differences in relative efficiency, it appears that endogenous ones must be operative. It is therefore hard not to conclude that the most important factor in determining the relative efficiency of a city is “management.” The term “management” is used to capture the two major types of impact that leaders can have on the efficiency of their governments:

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2. Management makes operational decisions about the types of delivery models will be deployed to provide those services.

Management appears to be the key and the study provides some evidence for this. Cities with city manager forms of government are nearly 10% more efficient than cities with strong mayor forms of government. This finding appears to validate the assumption underlying city manager forms of government, notably that investing executive authority in professional management shielded from direct political interference should yield more efficiently managed cities. To put it another way, even if a city operates within conditions most favorable for efficiency—no collective bargaining, geographically compact, and peaking on all scale curves—management choices can still lead a city down the path to inefficiency. It is both a sobering and encouraging conclusion.

It is sobering because it places the spotlight on management. There is no place to hide. Yet it is encouraging because it means that managers are important. They influence outcomes. So managers need to think hard about the strategic and operational decisions they make because those decisions are what drives the relative efficiency of their governments. The analysis cannot definitively specify which of these two management drivers—strategic or operational—is more important; however, there is some evidence in the study that can be useful in understanding the relative importance of strategic and operational choices.

Cutting Costs While Improving Service
With most cities almost solely pre-occupied with short-term budget cutting exercises, it is easy to forget that efficiency improvement efforts can in fact be thoughtful, deliberate exercises. Many cities have trained staff and adequate resources to identify, diagnose, and remedy inefficiencies in their operating divisions. Others will hire consultants to address specific areas. Unfortunately, financial crises tend to force the reliance on across-the-board cuts, hiring freezes, and other “slash and burn” tactics that rarely lead to sustainable efficiency improvements.

From IBM’s perspective, the use of benchmarking analysis such as that contained in this study can serve two purposes. First, it can place an individual city’s operations into a broader context. Why are we ranked where we are? Why can cities that look like me achieve similar outcomes at lower costs? What are we doing differently?

Secondly, it can provide aspirational targets. Just as Mayor Shirley Franklin compared her city to seven peer cities and launched a program specifically designed to improve her city’s relative efficiency ranking (see sidebar: The Tao of Benchmarking), other cities can do the same. Once those goals are set, the key is to dedicate the staff and support resources that can focus on medium and long-term savings opportunities. In our experience, a four year program of designing and implementing an efficiency program is not an unreasonable timeframe; it may take longer to fully realize all the projected savings. Cost reduction programs that preserve (and improve) services will take time to execute. And service levels can be improved. More effective use of technology, for example, often leads to cost reductions and improvements in service quality.

Mobile field management technologies have been shown to increase the productivity of building inspectors by 20% while at the same time giving customers the ability to modify appointment schedules in real time. Automating citations have significantly reduced the time it takes for parking enforcement officers to issue tickets while at the same time reducing error rates in parking enforcement, leading to fewer customer complaints. The on-line submission of building plans expedites review and shortens the permitting cycle time, to the delight of developers.

Efficiency improvement programs should occupy a prominent and permanent position within city governments. They should be staffed with professionals and resourced appropriately. There is probably no better investment a city can make in its long term fiscal health.

Lost Labor’s Love
Approximately 70% of municipal government expenses are labor related. If you add in post-retirement pension and health costs, the number approaches 86%. How labor is deployed and compensated is therefore the most important decision that managers make in constructing an efficient operating environment.

The study suggests that cities vary considerably in the intensity in which they deploy labor as an input in service delivery. On average, cities employ 651 employees per 100,000 residents. However, the average number of employees per 100,000 residents for the top quintile performing cities is 519 while the average for the bottom quintile performers is 983.

The use of labor — or, more accurately, labor “intensity” — is best understood in terms of how the quantity of labor employed relates to total spending. As depicted in Figure 5, cities that have relatively low spending per capita but high employment gravitate toward the top left quadrant of the chart. These are labor intensive cities that appear to retain large numbers of relatively low compensated employees. All things being equal, this is indicative of an operating environment that depends on manual, labor-intensive business processes. The leadership of such a city would be advised to seek out technology applications that could automate those business processes and improve overall labor productivity.

On the other hand, cities that gravitate toward bottom right quadrant of Figure 5 have fewer employees but they appear to be more highly compensated. These are labor-lowered cities. High labor costs may be driving their relative inefficiency, and those cities might be advised to seek out outsourcing opportunities in those areas that do not easily lend themselves to automation.

Cities in the top right quadrant of the chart are likely to be experiencing a combination of both of those labor issues. They would be well advised to deploy both strategies.

Deconstructing Budget Deficits
As mentioned earlier, local governments in the United States are collectively running a 1% structural budget deficit. This deficit is structural in the sense that even when revenues “recover” — that is, when the recession is over and the economy is expanding again — these deficits will not go away. The only means for eliminating these deficits is either to shift the revenue curve up — by say, increasing tax rates or adding new sources of revenue — or by shifting the cost curve down.

There are two ways to shift the cost curve down: eliminate services or become more efficient in the services that are delivered. Under the assumption that cities do not want to increase tax rates or add new taxes, the question becomes how hard will it be to close these structural deficits through cost reduction alone?

Assuming that the structural deficit ratio that applies to local governments nationally also applies to the 100 cities in our sample, these 100 cities together are running a collective $1.3 billion budget deficit. Since the point of this study is to help cities identify areas where they should be looking for savings opportunities, let’s try to understand what level of performance improvement would be required to eliminate a deficit of this magnitude.

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Lost Labor’s Love

![Lost Labor's Love](image)

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Deconstructing Budget Deficits

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Based on an analysis of the spending included in this study, if any given city moved up one quintile in the ranking, they would effectively eliminate on average 15% of their operating costs. In other words, cities do not necessarily need to aspire to move to “best practice” status in the rankings in order to achieve substantial savings. A more modest level of improvement can actually yield large expenditure reductions. If all of the cities in the bottom four quintiles simply moved up one quintile in performance (which would require a 15% improvement in efficiency on average), $51.1 billion in total savings would be generated (see Figure 6). That is more than double of what is required to eliminate the collective $33 billion deficit. If cities in the bottom two quintiles moved to the median level of performance, $4.7 billion in savings would be realized. In other words, the 100 cities in our sample could run a collective operating surplus without any operating improvements in the top 60 performers. Clearly, the value that can be created through relatively modest improvements in efficiency is substantial.

How much effort would it take to make this level of improvement? One of the interesting findings of this analysis is that efficiency within a city can vary as widely as efficiency across cities. As you can see in Figure 7 the average standard deviation in efficiency within cities is nearly the same as the standard deviation across cities.

This is a very encouraging sign. What it suggests is that most cities already perform efficiently in certain areas. In other words, most organizations have “centers of excellence” that perform at a very high level while at the same time hosting operations that struggle to perform in an efficient manner.

Benchmarking can help management determine which of their operating entities fall in the former category and which fall in the latter.

For example, in Figure 8 (on page 12) the relative efficiency of a real (but unnamed) city in our sample is mapped. In Public Works, Parks & Recreation and IT, the city performs above average in our efficiency ratings. In Police, Fire, Law and Executive Offices, however, that same city performs well below average. Obviously, that city should focus its program of operations improvement in those areas. If it could simply move those operations to an average level of performance, it could yield $92 million in savings, which is 20% of its total spending. If it could move all of those operations to an average level of performance, it could yield $922 million in savings, which is 20% of its total spending. In the case of this particular city, those savings alone would actually eliminate its structural operating deficit.

To Spend or Not to Spend? And How Much?

How much should a city spend on fire fighting? Can a city spend too much on fire fighting? How would it know?

Most cities have a family of measures they rely upon to determine whether their fire departments are functioning effectively. Are the fire fighters trained properly? Are they well equipped? Do they avoid injuries? Is the community satisfied with their performance?

While these measures are important, there is a metric that overrides all others in determining the effectiveness of a fire fighting operation: can they respond quickly? More to the point, can they get the appropriate number of properly-equipped fire fighters to a Priority One fire within four minutes of a call being dispatched? If they cannot, they probably cannot get accredited.

This measure – response time – has a larger impact on the resourcing of fire fighting operations than any other consideration. In order to achieve the target response time standard, fire stations need to be distributed across the city and need to be staffed and equipped. As cities become denser and streets more congested, more fire stations are needed to meet the response goals. For any city growing in population or expanding geographically, the reliance on this measure ensures increased fire response expenditures.

But what if the number of fires is going down? What if the number of fires is actually plummeting? Does that have nothing to do with how much a city should spend on fire response operations?

The fact is that by relying on response time as the metric that drives resource deployment, spending has been disconnected from outcomes. Consider this thought experiment: if city management knew for a fact that there would be only one fire in the city next year, but had no idea where it would be, how much should they spend on fire department operations? If they continued to rely on the response time standard, they would have no choice but to continue to fund fire operations at the same level as it did in the prior year in order to preserve its response time.

Most would agree that is an odd result.

But that is what cities do. The number of fires in the country has declined by 60% over the past two decades, but that decline has had no impact on the level of resources dedicated to fire departments.

In addition, city spending on fire operations varies enormously (see chart below). The City of Chula Vista in California spends $63 per capita (adjusted) each year, while Cincinnati spends $333. What operational factors could drive such disparate spending levels? Are cities that spend more significantly safer from fires than cities that spend less?

Spendings on fire operations is just one example of why it is critical to revisit basic assumptions about what a city spends on the services it provides and why. Such an exercise might not change those choices, but at least it makes them explicit.
Figure 6: Cost Savings Opportunity Associated with Efficiency Improvements

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Moving up one quintile in performance will generate $5.1 billion in savings

Moving bottom performers to average will generate $4.7 billion savings

Figure 7: Standard Deviation of Efficiency Within Cities and Across Cities

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Comparison of MICE Index Standard Deviations Across and Within 100 Cities

17.28

17.08

Average Standard Deviation of Departmental MICE Indices

Standard Deviation of Overall MICE Index

100 Cities In Study

Relation of Fire Spending (adjusted $ per capita spending on fire services)
This variation in resource utilization cannot be explained by benchmarking analysis suggests a path forward. First, let’s summarize the findings:

- Accounting for local operating conditions. Spending and employment across cities can be dependent on the amount of activity they are required to perform. Cities also face different cost environments (it costs 43% more to employ a police officer in San Francisco than it does in Winston-Salem, NC). How do you create a benchmarking study that controls for those differences?

- Accounting for differences in city missions. Cities in the United States are generally chartered by states and are authorized to deliver a variable set of services. How do you measure it?

The Path Forward

Like most studies of this type, more questions have been generated than answers. Benchmarking is a blunt instrument; rarely does benchmarking specify a solution. In this case, the benchmarking analysis suggests a path forward. First, let’s summarize the findings:

- Spending and employment levels vary widely among cities delivering a similar set of services;
- This variation in resource utilization cannot be explained by exogenous factors such as differences in scale, geographic coverage or labor market conditions;
- Management choices – particularly those related to strategic decisions dictating the scope and level of services delivered and operating decisions impacting the productivity of labor – appear to be the primary drivers of relative efficiency.

The challenge for city management is to quantify the difference between their operations and those cities that perform at a higher level of efficiency and determine how much of that difference can be attributed to differences in strategic choices and how much can be attributed to differences in operational choices.

For those differences that are attributable to strategic choices, cities need to revalue those choices. If some cities can make different choices and justify them to their constituents, then that is powerful evidence that other cities can do so as well. In any case, turning an implicit choice into an explicit choice is a healthy exercise for any organization.

For those differences that are attributable to operating choices, cities need to develop targeted operational improvement initiatives to reduce or eliminate those differences. An efficiency program of this type might include business process redesign, re-organization efforts, automation through technology, or outsourcing initiatives. Our recommendation would be to centralize these efforts around a Chief Efficiency Officer or an equivalent position.

There is no perfectly efficient organization out there. As this study uncovered, within most local governments you will find a mix of highly efficient and highly inefficient operating units. The challenge is to figure out which is which. This, alas, is not always as easy as it seems. Our hope is that this benchmarking assessment can help cities ferret out the inefficiency that lurks within their organizations. While it is just one step, it is an important one.

Appendix - Of MICE and Methodology

In order to compare the relative efficiency of cities, a methodology is required that accounts for several practical challenges. These challenges include:

- Defining efficiency. What does it mean to be “efficient” and how do you measure it?
- Accounting for differences in city missions. Cities in the United States are generally chartered by states and are authorized to deliver a variable set of services. How do you create a benchmarking study that controls for those differences?
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Defining Efficiency

For the purposes of this study, one city is more efficient than another if it can deliver a comparable set of services using fewer resources.

In applying this definition of efficiency, the study acknowledges that resource deployment levels can vary based on both operational decisions and strategic decisions. Operational decisions are those that are typically associated with efficiency measures: how well is the work force trained and equipped, how well is technology deployed, are services sourced efficiently, etc.

For the purposes of this study, strategic decisions are also included. Although cities are generally chartered to provide a largely identical set of services, they have significant discretion to determine the breadth and depth of those services. For example, in “recreation services” cities make unique decisions about the segment of the population they choose to provide recreation services to, what those services are, and at what level they provide them. City A might provide a wide variety of recreation services to seniors and youths of all socio-economic backgrounds while City B offers a narrow set of services to low income seniors only. For the purposes of this study, since City B spends less on recreation on a per capita basis than City A does, it will be considered more efficient.

It is important to remember that the point of this exercise is to help cities understand where they should be looking for savings opportunities. One place to look for savings is in areas where a city is providing services at a level beyond that which their peers are providing. Cities may be making conscious choices to deliver services to broader populations or at higher levels than other cities, but they should be aware of the costs they are incurring to do so. For that reason, no adjustments have been made to account for the differences in strategic choices that cities make.

The study employs two proxies to capture this admittedly broad measure of efficiency: spending per capita and employment per capita. In other words, the study assumes that the amount of money cities spend and the number of employees they deploy to deliver a comparable set of services – on a per capita basis - is indicative of their relative level of efficiency.

To measure efficiency among cities, IBM has created the Multivariate Index of City Efficiency (MICE). The MICE combines the two major measures of efficiency – spending per capita and employment per capita – into a single metric that gives equal weight to each measure. The resulting score is then applied to a scale that applies the rating of “1” to the most efficient city in the sample and a rating of “100” to the least efficient city in the sample. The remaining 98 cities are then arrayed on the scale based on how their MICE score compares to the other cities in the sample.

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Accounting For Differences in City Missions

American cities come in a variety of flavors. Our country’s federalized governing structure means that cities are generally incorporated by state legislatures and those legislatures have significant discretion to determine what activities cities are authorized to perform. Some cities run zoos and museums while others run libraries and senior centers. Some manage school systems while others operate airports. For benchmarking purposes, it is critical that these differences in service missions be accounted for.

Cities also vary in terms of their governance structures. Some cities – such as Louisville – are combined city and county governments sitting on the same geographic footprint. Others – like Charlotte-Mecklenburg County - are consolidated in some areas and not in others, with the city serving one geography and the county serving another. Some cities provide a set of municipal services locally and some regionally: Las Vegas looks like a city in every way except that its police department serves the entire Las Vegas metropolitan region.

The challenge for this study has been to identify these differences among cities and to minimize - to the extent possible – the impact they might have when comparing their operating economics. This has been accomplished in two ways:

1. Efficiency comparisons are based on core local government services only. Since there is some variation in the services that cities are chartered to provide, it is important to exclude those that are not (more or less) universally shared. Of the 58 spending categories surveyed, 40 were included in the efficiency index. These categories constitute 79% of the total spending captured in the study.

2. Budget data is analyzed using the appropriate baseline metrics. In Las Vegas, for example, the city’s per capita spending on police services is calculated based on the population of the metro region that the department serves. The city population is employed for the balance of the city’s services. While not perfect, the methodology effectively eliminates any material impacts variations in governance structures might have on the study’s results.

Accounting For Local Operating Conditions

Each city faces a unique operating environment. Some cities are larger than other cities. Some cities have more crime than other cities. Some have more parks. Some cities have broader service missions than others. Some are simply more expensive. To compensate for these differences, the study applies a normalization process. Three major normalization factors have been employed:

1. Spending and employment data is compared on a per capita basis. Ultimately, local governments are chartered to deliver a set of core services to their constituents. The level of resources they deploy to deliver those services on a per person basis is the most compelling means for comparing efficiency.

2. Spending and employment on police services has been normalized by crime rate. The rationale is that cities with higher crime rates are likely to dedicate more resources to police services (which is in fact the case).

3. All spending data has been weighted using the Council of Community and Economic Research’s ACCRA Cost of Living Index. Cost of living varies considerably across the country and cities compete, by and large, in local and not national labor markets. Additional normalization is possible, and in fact additional factors were tested for possible inclusion. For example, it was hypothesized that parks maintenance spending might correlate with parks acreage under management and that fire response spending would correlate with geographic coverage. However, no correlation between spending and these factors could be found, so those factors were not included in the normalization process. While additional normalization is likely possible, it appears that further efforts in this regard will yield rapidly diminishing returns and will not materially impact the results.

Data Sources

The analysis relies on authorized spending and employment data as portrayed in the most recently enacted budgets of these cities (primarily fiscal year 2010 or 2011). The spending and employment data from each city has been distributed across the spending categories. Since cities do not conform to a uniform organizational and budgeting structure, spending was allocated to these categories on a “best efforts” basis. While in some instances this is a challenging exercise (several cities have been eliminated from the study because their budget structures were too non-conforming), the vast majority of the spending was allocated with little difficulty.

IBM and Smarter Government

Government plays an increasingly central role in our economic lives. In the United States, government will be responsible for more than 4 out of every 10 dollars spent within our economy in 2010. Perhaps even more importantly, large sections of the private economy – health care, financial services, communications, and energy to name just a few – are more closely integrated with government than ever before.

Traditional lines between the private and public sectors are becoming less distinct, and the overall performance of our economy is now dependent on improved cooperation and alignment between private companies and government. Getting government right – that is, making sure that it operates in a highly efficient and effective manner – has never been more important.

In recognition of the fact that the performance of government is the public’s collective responsibility, IBM has launched its Smarter Government program. Our goal is help governments inject intelligence into their decision support processes, business operations and public infrastructure to improve performance and deliver better public outcomes. Governments need to maximize the public value they generate through every dollar they spend. We think we can help.
Accounting For Differences in City Missions

American cities come in a variety of flavors. Our country’s federalized governing structure means that cities are generally incorporated by state legislatures and those legislatures have significant discretion to determine what activities cities are authorized to perform. Some cities run zoos and museums while others run libraries and senior centers. Some manage school systems while others operate airports. For benchmarking purposes, it is critical that these differences in service missions be accounted for.

Cities also vary in terms of their governance structures. Some cities – such as Louisville – are combined city and county governments sitting on the same geographic footprint. Others – like Charlotte-Mecklenburg County - are consolidated in some areas and not in others, with the city serving one geography and the county serving another. Some cities provide a set of municipal services locally and some regionally: Las Vegas looks like a city in every way except that its police department serves the entire Las Vegas metropolitan region.

The challenge for this study has been to identify these differences among cities and to minimize - to the extent possible – the impact they might have when comparing their operating economics. This has been accomplished in two ways:

1. Efficiency comparisons are based on core local government services only. Since there is some variation in the services that cities are chartered to provide, it is important to exclude those that are not (more or less) universally shared. Of the 58 spending categories surveyed, 40 were included in the efficiency index. These categories constitute 79% of the total spending captured in the study.

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Daniel Prieto
Tack Richardson
Ashley Wills

Footnotes
1 Condition of State and Local Finances, March 2010 Update, Government Accountability Office
2 Some cities were excluded either due to their unique organizational structures or to a lack of publicly available data. Excluded cities include New York City, Dallas, Washington DC, Indianapolis, Buffalo, and Tucson.
3 Excludes public education, enterprise services such as water utilities and airports, and non-distributed costs such as debt service, capital outlays, workers compensation and unemployment insurance contributions.
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5 In some cases we included budget information from an associated local government agency that provides one of these core services outside of the city government. The Chicago Park District is one example.
6 Spending areas included in the study: police, fire, parks, public works, planning & building, executive offices, human resources, law, information technology and finance.
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Equipt to Innovate

Becoming a High-Performing City: A Benchmark Study/2017
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### Executive Summary
Ushering in a new generation of high-performing cities

### Dynamically Planned
Designing and managing city structures, and helping to shape urban life and culture for the benefit of all

### Broadly Partnered
Partnering with allied parties — public, private and philanthropic — as demands for services, revitalization and social justice grow

### Resident-Involved
Listening to diverse voices in the community to meaningfully engage residents in problem-solving conversations

### Race-Informed
Bringing a racial equity lens to vital community discussions about solving problems and building preferred futures
Prioritizing how resources are raised and allocated to support evidence-based investments in infrastructure, technology and people

Doing the public's work — from the frontline to the back office — in ways that tap employees' creativity, expertise and spirit of service

Seeing around corners and evaluating program performance and policy needs through analysis of the numbers

14 Smartly Resourced
16 Employee-Engaged
18 Data-Driven
We expect a lot of cities. Whether economic, demographic, social, technological or political, the range and number of challenges faced demand a robust and nimble response from municipal government. In other words, cities must be equipped to innovate across competencies that range from encouraging social equity in the community to effective management inside public agencies.

The Framework

No single lens can tell us enough by itself about how cities are doing, or how they are likely to perform in the future. Equipt to Innovate®, a framework developed by Living Cities in partnership with Governing, provides a landscape view of the lived experience of city governments themselves across seven key elements:

- Dynamically Planned
- Broadly Partnered
- Resident-Involved
- Race-Informed
- Smartly Resourced
- Employee-Engaged
- Data-Driven

These elements stemmed from Living Cities’ work with hundreds of partnering cities over 25 years with the purpose “to achieve dramatically better results for low income people, faster.” Equipt to Innovate applies those learnings to better understand and benchmark how cities act today, and the practices on which they can build a more equitable future.

The Reason Why

Cities are potent forces for producing positive societal outcomes. As population density grows, urbanism has responded with frameworks for the design and management of physical structures (the built environment) and the study of urban life and culture. Municipal governments work to exploit historic and geographical advantages while redressing historic inequalities. To those ends, governments have deployed a number of management and other disciplines to make best use of the public assets so cities are good places to live, work and raise families for the people who live there.

Some of these disciplines are mature — urban planning, financial management and human resources — and reflect decades of practice. Others, including public engagement, are newer and have been propelled in recent years by the modern transparency movement and widespread availability of open data. None of that is separate from issues of social justice and work toward racial equity, areas that are subject to studies of their own but rarely as part of a larger examination of the interdependent factors that lead to high-performance government.

The Survey

Equipt to Innovate is a first-year effort to benchmark cities across the seven elements with the expectation that this broader view can reveal both synergies and gaps in the current policies and practices of urban governments. We fielded the inaugural Equipt to Innovate survey in 2016 to achieve this goal. Results from this survey also help identify targeted areas for action and assistance, and inform the development of a multidisciplinary model of high-performance government.

The City of Phoenix emerged as the top performer among a total of 61 cities — including 43 of the largest 100 cities in the country — that responded to the invitation to participate in the inaugural survey. The overall response rate (19%) is robust by both industry and academic standards, indicating a strong interest by cities themselves to better understand the interplay among the elements and the dynamics of high-performance government.

The Findings

A summary of the findings for each of the elements follows. The purpose here is to reflect on key learnings from the survey overall:

Diversity Among Top Performers: Results affirmed cities already known to be strong performers and surfaced others that have been doing good work in the shadows.

1See Living Cities’ Annual Report #newurbanpractice at newurbanpractice.livingcities.org.
Role of Professional City CEO: Among participating cities, there was a relatively even split between those led by a city manager (56%) and strong mayor (44%). However, top-performing cities in all but one Equipt element have a Council-Manager form of government. Strong mayor governments notably but unsurprisingly dominated the exception, the resident-involved element.

Solid Foundation: Cities reported having put in place policies and operating structures to support many of the desired outcomes identified in the Equipt framework. Moreover, the elements are mutually reinforcing. Overall top-10 performers tended to perform well in two or more categories.

Strengths, but Room for Growth: No overall top-10 performing city was a top performer in more than half of the 7 elements. Responding cities, including but often not limited to top performers, reflected a number of common strengths:

- **Administrative Competence:** Cities have documented long-term plans and frameworks for collaboration, communication and engagement (internal and external).
- **Ability to Recognize Problems and Opportunities:** Cities have a willingness to test, pilot and prove new ideas and models.
- **Evidence-based Planning and Evaluation:** Cities place a priority on gathering, contextualizing, sharing and using information to make sound decisions.
- **Stewardship:** Cities are working to allocate limited resources of time, money and people to achieve effective and meaningful community impact.
- **Intentionality:** Cities increasingly are beginning with the result or solution in mind when developing policies and practices.
- **Continuous Improvement:** Cities are taking a limited commitment, phased approach to new initiatives, and are informed by clear communication of performance goals and progress milestones.
- **Transparency:** Cities are embracing data to let the sunshine in; analytics are increasingly used to make meaning from program and policy data.

The findings also identify a number of stretch areas for cities:

- **Improving Linkages:** Cities have not yet demonstrated consistent and strong ties between strategic planning and program execution, as well as agency and citywide strategic plans. Cities report that philanthropies and nonprofits are the immediate go-to other than the private sector. Innovative partnerships outside of business and philanthropy — that is, with universities, community action groups, churches, etc. — were not as strong as they could be.
- **Normalizing Engagement:** Cities do not yet provide regular and recurring feedback to residents, employees and partners on progress of program development and decisions.
- **Separating Signal from Noise:** Cities remain vexed by inconsistent data practices in planning and decision-making, a problem that grows exponentially with increasing volumes of data. Data and policy frameworks are useful but often underutilized in program evaluation.
- **Separateness:** Cities report that system, program and agency silos limit integrated planning and service delivery.
- **Lack of Narrative:** Cities are not proficient in telling their story in promoting policy objectives and marshaling public support for working toward positive societal outcomes.

The results of the inaugural Equipt to Innovate survey demonstrate that cities are on the move, working to be relevant and responsive to the communities they serve. While there are common directions in pursuing these performance outcomes, the city-specific strategies and tactics are a function of their unique environments — shaped by their own histories, culture and leadership.

Over subsequent cycles, Equipt to Innovate surveys will track progress in these best and emerging practices and the interplay among them in identifying the characteristics of high-performance government. The results of the initial survey indicate the future is iterative and adaptive — not linear. Moreover, consistent with the Equipt framework, cities’ efforts across the seven elements affirm our conviction that it is about progress, not perfection.
By definition, planning is the heart of urbanism and among the most mature disciplines for designing and managing city structures, and helping to shape urban life and culture. Dynamic planning pairs professional planners with residents and neighborhood groups to address problems and imagine preferred futures. Top-performing cities tend to be learning organizations, reporting they are doing well while recognizing room for improvement. In those cities, progress is tracked and reported with the use of targets and measures; adjustments to programs are made in response to data; and activities are relayed to residents through multiple channels.

Dynamically Planned

Creating and updating strategic plans with input from affected residents

90% of responding cities have a published, long-term strategic plan that has been recently updated. Cities, for the most part, also rank themselves as more, rather than less, effective in strategic planning and in soliciting input during this process.

85% of respondents reported that more than 10 city agencies, departments and groups were asked for input into the city’s most recent strategic plan. A significant majority also believe they are doing well or exceptionally well in soliciting and using resident input to inform their city’s strategic plan.

Proportion of respondents that have a published, long-term strategic plan that has been updated in the past 18 months.
Growth Areas

Aligning departments and actions with the strategic plan

Over half of respondents (57%) reported they could better coordinate programs with other levels of government. More than a third indicated the need to improve the linkages between departmental plans — transportation, human services, economic development, etc. — and the city’s strategic plan.

City Plans With Direct Ties to Strategic Plans
On average, 72% of all city plans have demonstrable, direct ties with the overall strategic plan.

Maturing in use of metrics
The use of data and performance metrics is common but inconsistent. The difficulties in using metrics effectively are many: the chosen metrics may not be effective; access to needed data may be limited due to suboptimal collaboration and cooperation; and/or there is uncertainty about how or whether to talk about sensitive issues identified through the data.

What does this mean?
Even though cities say they are doing well in soliciting input into their strategic planning, “doing well” may be conceptualized differently from one city to the next. The findings indicate cities are working through maturity levels with their planning; for example, one-way resident input is commonly solicited for government planning and initiatives, while more sophisticated efforts with back-end management of stakeholder engagement and buy-in with plans appear to be challenged. Use of performance metrics is another area that could benefit from examination. There were significant discrepancies in how cities used metrics to inform planning, reporting and decision-making.

High-Performing Cities:

These cities are:
- Developing comprehensive strategic plans tied to individual agencies and departments, and incorporating sustainability and transparency within the plans
- Tracking and reporting progress with the use of targets and measures, adjusting programs in response to data and relaying activities to residents through multiple channels
City governments face challenges too big and complex to solve by themselves. The need to partner with neighboring jurisdictions as well as allied parties in the private and philanthropic sectors will become more intense as demands for services, revitalization and social justice grow. Survey results indicate that where partnerships exist, they are strong and effective, but cities report they do not always have partners where they need them. The gaps are particularly pronounced where other units of government are concerned; most respondents indicate they need to get better at intergovernmental coordination and collaboration.

**Strengths**

Engaging in cross-sector initiatives with private industry and philanthropy

Survey respondents said they are **doing well in working with business and philanthropic organizations**. City employees are encouraged to work with external partners, and respondents believe new ideas are being identified, tested and adopted for use in city governance through these relationships.

**9 out of 10** respondents reported they have mechanisms in place to communicate progress on goals to residents and employees, however, this communication appears to be infrequent and fragmented.

Partnerships with other levels of government are more complex. Cities gave themselves an average score of **8 on a 10-point scale** on their effectiveness in engaging on specific initiatives with other units of government, while conceding large gaps in the number and nature of intergovernmental partnerships.

100% of cities are working with private and nonprofit sectors.
Growth Areas

Partnering with government agencies

When it comes to partnering with other levels of government, difficulties can arise due to policy, politics, technology and compliance. Relationships with state agencies — or lack of them — is the most problematic area for cities. Roughly half say city-state partnerships are in most need of improvement. Beyond state agencies, at least a third of respondents reported the need to improve partnerships with other public agencies across levels of government.

Only 1 in 5 cities participating in the survey reported they are doing well in partnering with all levels of government; 79% identified at least one level of government where partnerships were weak or nonexistent.

<table>
<thead>
<tr>
<th>Percent of Other Units/Levels of Government that Need Improvement</th>
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<tbody>
<tr>
<td>State Agencies</td>
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<tr>
<td>School Districts</td>
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<td>Special Districts</td>
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<td>County Agencies</td>
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<td>Federal Agencies</td>
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What does this mean?

For all its potential advantages, government partnering is hard. Although cities recognize the benefits of partnership, many units of government remain siloed — a circumstance that risks duplicate work. At the same time, partnerships unlock “collective intelligence”¹ that taps businesses, sister cities, neighboring jurisdictions, area universities, philanthropies, citizen-scientists and start-ups to produce positive societal results.

High-Performing Cities:

Las Vegas, Nev.

Phoenix, Ariz.


These cities are:

✔ Using purposeful, goal-oriented partnerships to find effective ways to serve residents better and innovate in resource-strained environments

✔ Implementing cross-sector initiatives and partnering with other levels of government and universities to share resources to maximize impact and efficiency

¹ Term coined by Nesta, a UK foundation.
(See http://www.nesta.org.uk/project/collective-intelligence)
Resident-Involved

To involve residents, cities have to be good, consistent listeners. That means listening in ways that take time and effort. Digital tools may be useful but by themselves are not sufficient to be inclusive of diverse voices in the community; meaningful engagement may require purposefully inefficient conversations through town hall meetings and focus groups with specific demographic groups using culturally appropriate materials. The results are measured through a two-part test: (1) incorporating what you learn into policy and strategy; and (2) explicitly telling residents how or whether their input was used and why.

Strengths

Incorporating resident input into policy

Survey responses suggest a common commitment to community-driven development in pursuing the next new thing. Most cities believe they are effective in deploying community engagement strategies that inform residents of government activities, solicit resident feedback and incorporate that input into policy.

90% of cities have communication mechanisms in place to involve residents — including websites, social media and citizen apps, with social media being the most common. Consultations take place online and face-to-face in top-performing cities such as Fayetteville, N.C. Riverside, Calif., regularly surveys its residents, and Cleveland, Ohio, uses community meetings and focus groups.

9/10 cities report that they meaningfully incorporate resident feedback into policy.

77% of respondents reported using technology to solicit and support meaningful resident feedback on program progress/outcomes, with 87% saying that once received, resident input is meaningfully incorporated into making policy, improving service delivery and solving complex problems.
Growth Areas

**Engaging residents in ongoing dialogue**

Although most respondents said they are effective in using community outreach and engagement mechanisms, there is room for improvement, as indicated by questions asked across all Equipt elements covered by the survey.

41% of cities are not using feedback mechanisms to notify residents when their ideas have or have not been used, a dimension that is vital for fostering future resident engagement and trust in government.

By the same proportion (40%), cities report their use of resident input could be improved, along with public transparency regarding the development of city programs. And less than a quarter of respondents ranked themselves as performing "exceptionally well" in soliciting and using resident input to inform the city’s strategic plan.

What does this mean?

As many cities with online town hall meetings can attest, merely implementing a new technology will not guarantee resident engagement. Answering the question of how to make civic engagement interesting, appealing and relevant remains a work in progress. Connecting residents to governance by making them aware of social problems within the city and then connecting them with opportunities to serve may be one way forward.

High-Performing Cities:

- Albuquerque, N.M.
- Providence, R.I.

These cities are:
- Viewing civic engagement as a key component of city initiatives
- Using resident engagement to inform a variety of input, involvement and feedback mechanisms across agencies
- Soliciting input through resident surveys, topic-specific consultations with key resident groups and culturally sensitive materials, and then clearly and visibly tying it to new initiatives, project changes and policy formulation for the city
Race-Informed

By design, this element brings a racial equity component to the framework — reflecting a larger movement that is strategically integrating a racial equity lens into city planning. The goal here is to redress disparities and help co-create opportunities for all residents. Fully three-quarters of respondents (77%) stipulate that more needs to be done, even though they report progress in the equitable provision of services and deliberate efforts to close gaps in digital and educational divides. High-performing cities, like all cities, confront systemic issues in pursuing racial equity and many have been moved to action by a catalytic event.

Strengths

Diversifying their workforces

Responses for this element took a cautious tone even as cities reported on the work done in this often challenging area. The explicit recognition that cities have a pressing problem requiring redress provides a level of transparency useful in these efforts.

Almost all cities say they are doing something to recognize and plan to obviate community inequalities. Most begin with their own workforces.

92% of respondents reported their human resources departments have plans and initiatives in place to ensure the local government workforce will reflect the racial and ethnic makeup of the city. Another 74% have training programs in place to help city staff understand not only how race affects their work, but also how race relates to the outcomes they are striving to achieve for the residents of the city, with 65% using data disaggregated by race to inform policy development.

9/10 cities report taking intentional steps to address racial disparity.

As part of a first-in-nation Race and Social Justice Initiative, Seattle takes a multi-disciplinary approach to targeting institutional racism through: restorative justice programs; an environmental action agenda centered on racial equity; semi-annual employee and community surveys; employee training on how to recognize and act to mitigate racism; and widespread availability of translation and interpretation services for non-English speaking residents.
Growth Areas

(Re)building trust and provisioning services equitably

In two-thirds of responding cities (64%), providing access to city services and infrastructure for communities of color consistent with white communities could be improved. Three-quarters (77%) of respondents indicated the need for more equitable provision of services such as transportation, education and community policing across the city.

Only 16% of cities strongly agree the local immigrant and minority communities have trust in local government — impeding the flow of reliable information between these communities and public agencies. 70% reported there is an educational achievement gap between students of color and white students that is not improving.

What does this mean?

Being a race-informed city is about more than police-community relations, although that is an important component. Survey findings indicate widespread efforts to ensure a diverse city workforce that reflects the city’s racial makeup, and to remain sensitive to the challenges faced by both minority and immigrant communities. Working to ensure equitable provision of services and parity in education, health and income builds trust in local government and reduces barriers to frank, cross-cultural, problem-solving conversations.

High-Performing Cities:

These cities are:

- Setting specific goals to end racial disparity and foster inclusion for all residents
- Taking steps such as ensuring city staffing is diverse and representative; training employees on racial injustice; providing health and socio-economic initiatives targeted to minority populations; and establishing departments, divisions and positions focused on improving the equitable provision of services
Smartly Resourced

This Equipt element comprises conventional measures of a well-run city — the effective management of revenue and expenditures, and responsible investments in infrastructure, technology and people — plus the shift toward evidence-based budgeting, public-private partnerships and other innovations. The focus includes the strategic and creative deployment of resources, including workarounds of cash constraints that would otherwise limit capacity and the ability to change. Smartly resourced also anchors a through line to other elements and makes them possible through funding prioritization. It also shares a number of good practices with other elements such as establishing and using performance metrics; sharing them transparently; and engaging with residents, public employees and partners.

Strengths

Growing adoption of evidence-based budgets

Evidence-based budgeting is reaching critical mass. According to city respondents, over 60% of city budget allocations are now based on evidence and oriented toward results. Moreover, three-quarters (77%) reported their cities have increased the proportion of evidence-based budget allocations over the last four years.

Most cities in the survey look to private sector and philanthropic partnerships to help fund new programs and initiatives. At the same time, cities including Knoxville, Tenn., and San Antonio, Texas, use the annual budget process to adjust or eliminate existing programs based on their effectiveness. To help it see around corners, El Paso, Texas, has built a scenario manager that dynamically models the immediate fiscal future and 10 years out.
Growth Areas

Expanding use of performance data

Performance data is underused in both evaluation and decision-making activities among responding cities. Just over a third of respondents (41%) report using performance-based contracts. Similarly, only 40% of the respondents reported their city is doing well in evaluating and eliminating programs that are not producing positive outcomes.

Approximately one-third of the respondents stated they are not conducting regular evidence-based evaluations of their own economic development initiatives. San Jose, Calif., and Virginia Beach, Va., are among a minority of cities adopting performance-based procurement.

What does this mean?

Performance measurement is a valuable but underutilized tool to assess resource deployment and initiate change. A question for cities is how they have made the leap from merely collecting performance data to incorporating performance data into decision-making and planning activities, such as making changes to underperforming programs. The data suggests tracking and evaluating performance remain difficult undertakings for many cities, limiting their use of the information to take corrective action, make necessary improvements or completely eliminate failing programs.

High-Performing Cities:

San Antonio, Texas
Boston, Mass.
Knoxville, Tenn.

These cities are:

✓ Regularly scheduling performance evaluations that incorporate effective metrics and a clear pathway to action to help ensure the wise allocation of resources, such as using technology to streamline and improve services
✓ Setting aside savings, improving credit ratings and working to generate new revenue through fostering new business development

How well does your city evaluate and eliminate programs that have not yielded sufficiently positive results?
Employee-Engaged

Public employees — from the frontline workers to executives and policymakers — do the work of government. Their work grows increasingly complex as communities grow and the role of government shifts to meet today’s needs and anticipate tomorrow’s expectations. By themselves and in collaboration with partnering organizations, they are responsible for service delivery and problem solving. These employees have responded to the call of public service — sometimes as a career and sometimes only for a season. Cities have widely implemented programs to retain employees but report they have been less successful in creating structures and incentives to attract new employees into public service.

Strengths

Engaging and inspiring employees

Cities are appealing to the power of public service to make positive changes in their retention and recruitment of employees — pairing career growth opportunities with the appeal of meaningfully impacting the community. Cities are using a combination of proven methods and newer interventions to engage and inspire employees, including: employee surveys to benchmark and track satisfaction; training partnerships with area colleges and neighboring jurisdictions; mentoring to encourage broad inclusion, diverse and women leadership; and incorporating a focus on employee well being.

88% ensure city employees understand how their departmental activities connect to the larger goals and vision of the city, so employees connect daily tasks to larger strategic objectives.

92% have HR strategies in place to cultivate professional development with more purposeful focus on career growth for their workforce.

9/10 cities are helping employees connect their work to community impacts.
Growth Areas

Recruiting employees

Attracting and retaining highly qualified employees can be difficult for cities due to complicated hiring processes, constrained budgets and competition with the private sector. Cities assess their effectiveness in attracting new talent to their workforce as moderate, scoring themselves as a 7 out of 10. In addition to characterizing government work as more than a job, there is a growing recognition among cities that talented candidates will not wait on slow bureaucratic processes. Both San Antonio, Texas, and Denver, Colo., have reduced the time to hire to 45 days, down 83 and 47 percent respectively.

Although typically unable to compete with the private sector on salary, a well-recognized and primary driver in attracting employees to the public sector has been employee benefits. Cities lag other employers in positioning themselves as places of engagement, innovation and career growth. Evolving career expectations will require employer flexibility and continued experimentation with less-structured work environments to keep government attractive.

What does this mean?

High-Performing Cities:

These cities are:

✓ Offering multiple avenues for employee development and training
✓ Recognizing that monitoring and fostering employee engagement must be a formal and funded activity that keeps employee engagement a strategic goal connected to city, departmental and individual employee performance
✓ Seeking employee feedback to inform city activities and employer practices

Only 38% ranked their city as being “very active” in promoting itself as a prospective employer to potential employees.
The value of data in the life of a city is not measured by volume but in how it is used to identify how a city is working and areas in need of attention. Cities are using data to inform priorities, measure progress, ask better questions, foster deeper understanding and realize better results. They are also using data in evidence-based program evaluation to determine whether and how to adjust or eliminate underperforming programs. Used effectively, data can also hold government agencies accountable for what they do and don’t do, ultimately helping to mitigate residents’ eroded trust.

Strengths

Achieving transparency and accountability through data

Performance metrics that track progress are prominent in city transparency strategies. The data is used to identify underperforming areas needing targeted actions, and — as in El Paso, Texas — examine initiatives exceeding targets to uncover best practices, which are then shared across the enterprise.

77% of city respondents use technology to solicit, track and analyze resident feedback on program progress. For its part, Las Vegas, Nev., uses it to connect citywide goals to the activities of individual agencies and departments.

8/10 cities have open data portals.

78% of the survey respondents report having an open data portal of some kind, although there is wide variation in their completeness, functionality and ease of use. Two-thirds of a city’s data will be on the open data portals within the next five years.
Growth Areas

Improving access to government-held data

Only 33% of the survey respondents strongly agree their government data, including procurement data, is not only available to, but also easily consumable by, the public. On average, 34% of city government departments, within an individual city, use predictive analytics or tasks such as anticipating community needs and approaching problem solving.

Phoenix, Ariz., may provide a replicable model for other cities. It has created a robust open data portal, complete with user controlled visualizations, to make data accessible, understandable and useful.

Departmental Use of Predictive Analytics
On average, 34% of city government departments, within an individual city, use predictive analytics or tasks such as anticipating community needs and approaching problem solving.

What does this mean?
Data can unlock future growth. Witness Kansas City, Mo., which is basing its smart city and IoT strategy on its data practice. Open data policies in cities such as Phoenix, Ariz., and San Diego, Calif., are being used to promote public transparency and trust, inform policy and achieve administrative efficiencies. Data officers, including the one appointed in Louisville, Ky., are guiding inter-agency usage, sharing and the increasing number of data sets and quality of data on the city portal.

High-Performing Cities:
Phoenix, Ariz., may provide a replicable model for other cities. It has created a robust open data portal, complete with user controlled visualizations, to make data accessible, understandable and useful.

Percentage of City Departments that Use Predictive Analytics
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Professional local government management—through which elected officials hire a highly trained, nonpolitical chief executive to oversee the day-to-day operations of a community—makes a significant difference in that jurisdiction’s creditworthiness, efficiency, and ability to build community, according to a recent review conducted by ICMA, the International City/County Management Association.

A review of Moody’s Aaa-rated local governments in 2016 revealed that more than 66 percent of the 179 municipalities that earned Moody’s highest bond rating employ a professional manager. And an examination of the 40 jurisdictions that earned the coveted All America City designation from the National Civic League between 2013 and 2016 revealed that 75 percent of those communities were also professionally managed.

“The good news about the important role of professional management in ensuring a community’s creditworthiness and overall civic innovation comes as no surprise to ICMA,” says Executive Director Marc Ott. “The findings support what ICMA members and
supporters have known all along: that professional local government management and the council-manager form of government—which combines strong political leadership and effective management capacity—makes an important difference in the quality of life for the residents in those communities that employ it.”

ICMA defines a professional manager as a local government chief appointed officer who, at a minimum:

- Has direct responsibility for policy formulation on overall problems.
- Has major responsibility for the preparation and administration of a jurisdiction’s operating and capital improvements budgets.
- Exercises significant influence in the appointment of key administrative personnel.
- Has an ongoing, direct relationship with the operating department heads on the implementation and administration of the programs.
- Was hired as a result of her/his educational & administrative background and qualifications.
- Is a member of ICMA and, therefore, must adhere to the ICMA Code of Ethics, which was adopted by ICMA in 1924 and which governs each member’s professional and personal conduct.

The high percent of Moody’s Aaa-rated municipalities and counties that employ a professional manager or administrator suggests a strong correlation between professional management and a community’s creditworthiness. Moody’s established its system of rating securities to provide investors with a simple method of evaluating the “future relative creditworthiness” of securities. Obligations, such as municipal bonds, that are rated Aaa are “judged to be of the highest quality, subject to the lowest level of credit risk,” according to the company’s Rating System and Definitions.

Since 1949, the National Civic League has recognized and celebrated the best in American civic innovation with the prestigious All-America City Award. The Award, bestowed to 10 communities annually (more than 500 in all), shines a spotlight on innovative efforts to bring all aspects of the community together to tackle the most pressing local issues.

These new findings reinforce the results reported in a 2011 operations efficiency benchmarking study, “Smarter, Faster, Cheaper,” published by IBM Global Business Services, which found that cities that operate under the council-manager form of government and
thus have a professional local government manager are nearly 10 percent more efficient than those that operate under the mayor-council form.

In the IBM study, David Edwards, who then led the Smarter Government Campaign for IBM’s Public Sector Strategy and Innovation Practice, examined publicly available data for 100 of the largest cities in the United States. Edwards concluded that this finding

“...appears to validate the assumption underlying city manager forms of government, notably that investing executive authority in professional management shielded from direct political interference should yield more efficiently managed cities. To put it another way, even if a city operates within conditions most favorable for efficiency – no collective bargaining, geographically compact, and peaking on all scale curves – management choices can still lead a city down the path to inefficiency. It is both a sobering and encouraging conclusion.”

To learn more about the role professional local government plays in the quality of life in our communities, visit ICMA’s Council-Manager Form Resource Package and the Life, Well Run website.

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Join Us
Become part of our mission to advance professional local government through leadership, management, innovation and ethics throughout the world.

JOIN ICMA
An unprecedented 80 percent or 16 out of the 20 finalists for the coveted All-America Cities (AAC) Award are communities that operate under the council-manager form of government with a highly trained, nonpartisan professional manager at the helm. These impressive statistics are the result of an analysis of the list of AAC Award finalists issued by the National Civic League on March 21.

Created in 1949, the AAC award is presented to 10 communities each year, and it celebrates and recognizes neighborhoods, villages, towns, cities, counties, tribes, and regions that engage residents in innovative, inclusive, and effective efforts to tackle critical challenges. According to the National Civic...
League: “Finalist communities include the 7th largest city in America (San Antonio) and a town of only 22,000 people (Decatur, GA). The 20 finalists share a common bond of working to create equitable communities through inclusive civic engagement.”

The 2018 All-America City Award Finalists (in alpha order by state) are:

- Arkansas: Springdale
- California: Placentia and Stockton
- Colorado: Longmont
- Florida: Miami Beach
- Georgia: Decatur
- Michigan: Ann Arbor and Battle Creek
- Nevada: Las Vegas
- North Carolina: Charlotte
- Ohio: Cincinnati
- Oregon: Beaverton
- Pennsylvania: Allentown
- South Carolina: Columbia, Kershaw County, and Mount Pleasant
- Texas: El Paso and San Antonio
- Washington: Pasco and Tacoma

“These finalist communities are building local capacity to solve problems and improve their quality of life,” explained NCL President, Doug Linkhart. The National Civic League is honored to recognize these communities, and views their efforts as critical in addressing the challenge to communities issued by the 1968 Kerner Commission, ‘to make good the services, transportation, engagement and activities, and appropriate housing. Teaneck, N.J. (pop... Read More...
promises of American democracy to all citizens – urban and rural, white, black, Spanish surname, American Indians, and every minority group.”

“We at ICMA are truly excited that the majority of this year’s All-America City Award finalists are managed by highly trained, professional managers, 15 out of 20 of whom are our members” says ICMA Executive Director Marc A. Ott. “The acknowledgment that professionally managed communities succeed in areas such as civic engagement and inclusion comes as no surprise to ICMA. The AAC program validates what ICMA members and supporters have known all along: that professional local government management and the council-manager form of government—which combines strong political leadership and effective management capacity—makes an important difference in the quality of life for the residents in those communities that employ it.”

The next step for the AAC finalists is to send a team of residents, including young people and nonprofit, business, and government leaders from their community to meet for three days in Denver to present the story of their work and their community to a jury of nationally recognized civic leaders. The awards conference includes workshops on promising practices. This transformational experience equips, inspires, and supports leaders and communities to achieve more than they ever believed possible.
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Additionally, below is a breakout of U.S. municipalities with populations greater than 2,500 for which form of government is known*:

<table>
<thead>
<tr>
<th>Form of Government</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Council-Manager</td>
<td>3,789</td>
<td>49%</td>
</tr>
<tr>
<td>Mayor-Council</td>
<td>3,370</td>
<td>43.6%</td>
</tr>
<tr>
<td>Commission</td>
<td>144</td>
<td>1.9%</td>
</tr>
<tr>
<td>Town Meeting</td>
<td>353</td>
<td>4.6%</td>
</tr>
<tr>
<td>Representative Town Meeting</td>
<td>64</td>
<td>.83%</td>
</tr>
<tr>
<td>Total</td>
<td>7,720</td>
<td>99.93%**</td>
</tr>
</tbody>
</table>

*This data is under review and may be subject to change. **Totals reflect rounding and add to less than 100%.