

2017 Government Technology Solutions Survey

Summary Report of Results

Introduction

Technology solutions have become essential to residential services, business development, and other local government priorities. The International City/County Management Association (ICMA), in partnership with OnBase by Hyland, conducted a 2017 survey to assess the information technology and e-government solutions being used by local governments. The results of this survey are meant to give an overview of the capabilities, priorities, and difficulties local governments have in implementing technology solutions. This report summarizes the survey methodology, highlights, and overall responses.

Methodology

This survey was delivered to 1,422 US local governments, addressed to chief administrative officers. The sample was limited to counties with at least 50,000 residents and municipalities with at least 75,000 residents. This yielded 190 responses for a 13.4% response rate.

	Number Surveyed	Number Responding	Response Rate
Total	1,422	190	13.4%
US Census Bureau Geographic Region			
Northeast	199	19	9.5%
Midwest	365	44	12.1%
South	543	73	13.4%
West	315	54	17.1%
Type of Government			
County	916	122	13.3%
Municipality	506	68	13.4%
Population Size			
Over 1,000,000	42	6	14.3%
500,000 - 1,000,000	97	11	11.3%
250,000 - 499,999	168	33	19.6%
100,000 - 249,999	532	81	15.2%
50,000 - 99,999	583	59	10.1%
Form of Government			
Mayor-Council	212	19	9.0%
Council-Manager	288	49	17.0%
Commission	6	0	0.0%
County Commission	283	34	12.0%
County Council-Manager	380	63	16.6%
County Council-Elected Executive	253	25	9.9%

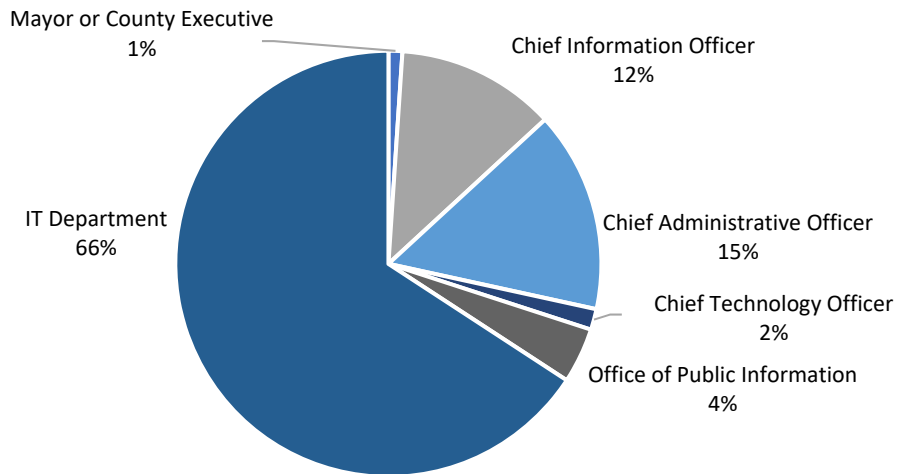
Survey Highlights

Organizing, Purchasing and Delivering Information Technology

With information technology (IT) serving as an important part of local government infrastructure, the survey was interested in several aspects of IT oversight, delivery, and selection.

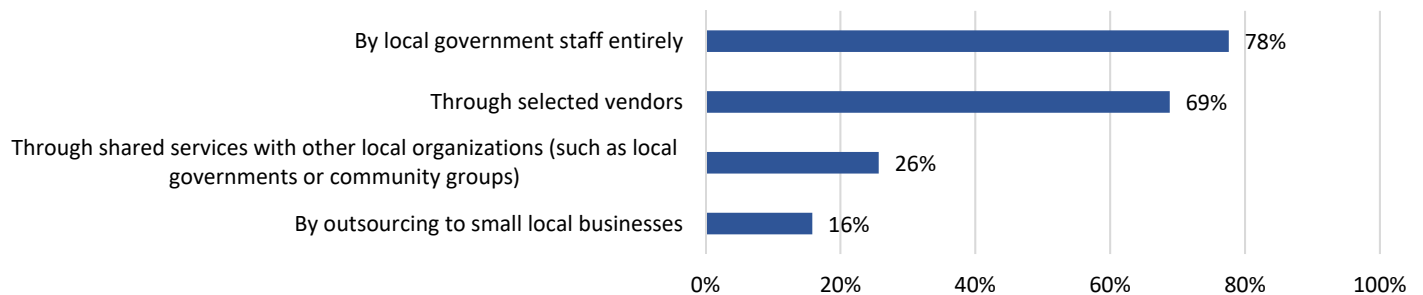
Primary responsibility for overall IT efforts most often rests with the IT department (66%), but 15% of respondents indicated principal responsibility lay in the office of the chief administrative officer.

Which department/office in your local government has principal responsibility for government information technology projects and activities? (n=190)



The most popular methods of providing enterprise-wide technology solutions are using only in-house staff (78%) or through selected vendors (69%). A smaller portion of local governments partner with other local governments and community groups (26%).

How does your local government most frequently provide enterprise-wide technology solutions? (n=183)



The favored approach to determining an IT solution is conducting a departmental need assessment (89%), followed by research and recommendations to solve specific challenges (77%). The continuing need to modernize is shown by a high percentage saying that they are conducting assessments of the age of their solutions (69%). While the survey did not specifically ask about method, a similarly high percentage said that cost-benefit analysis prior to purchase was a key approach to selection (64%).

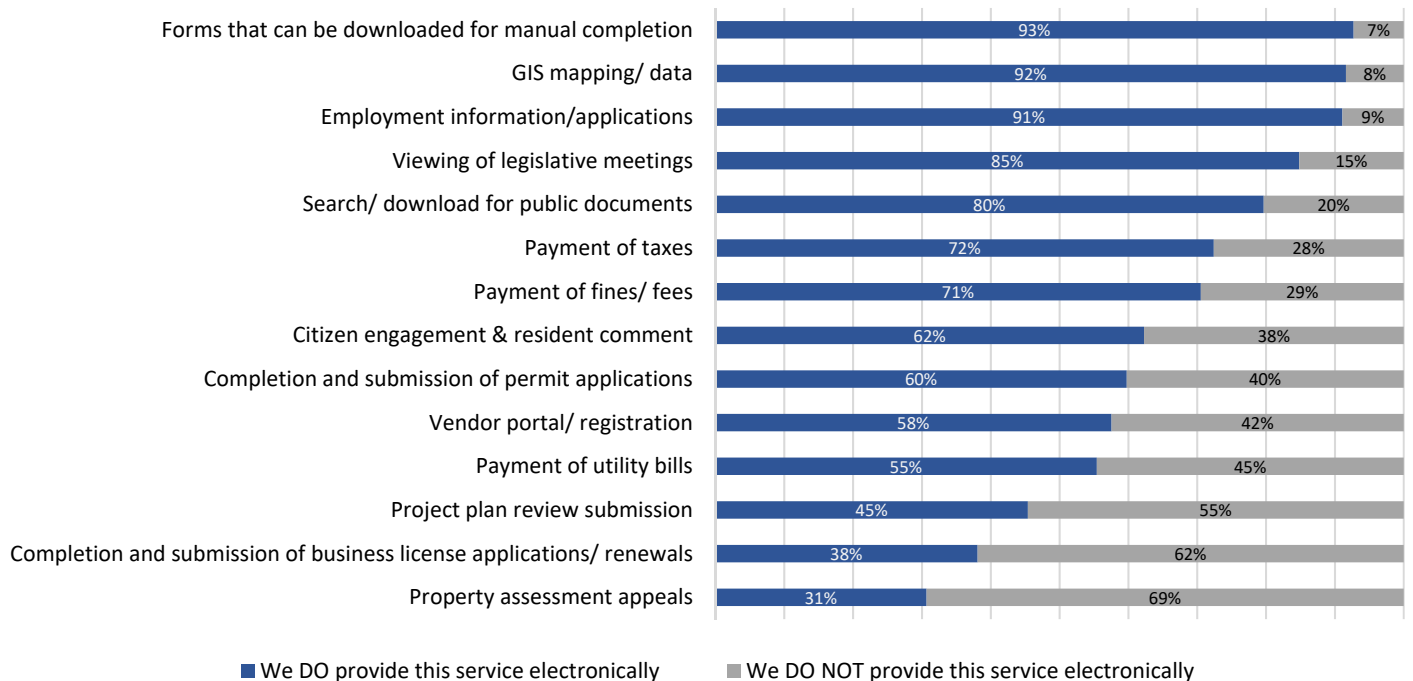
Which management and engagement approaches does your local government use to identify and select information technology solutions? (n=182)



Key Electronic Services to Residents

Local governments are most frequently making electronic versions of paper forms available for download (93%), using GIS software (92%), making employment information/applications available electronically (91%), making their meetings available online (85%), and making their public documents available for search (80%).

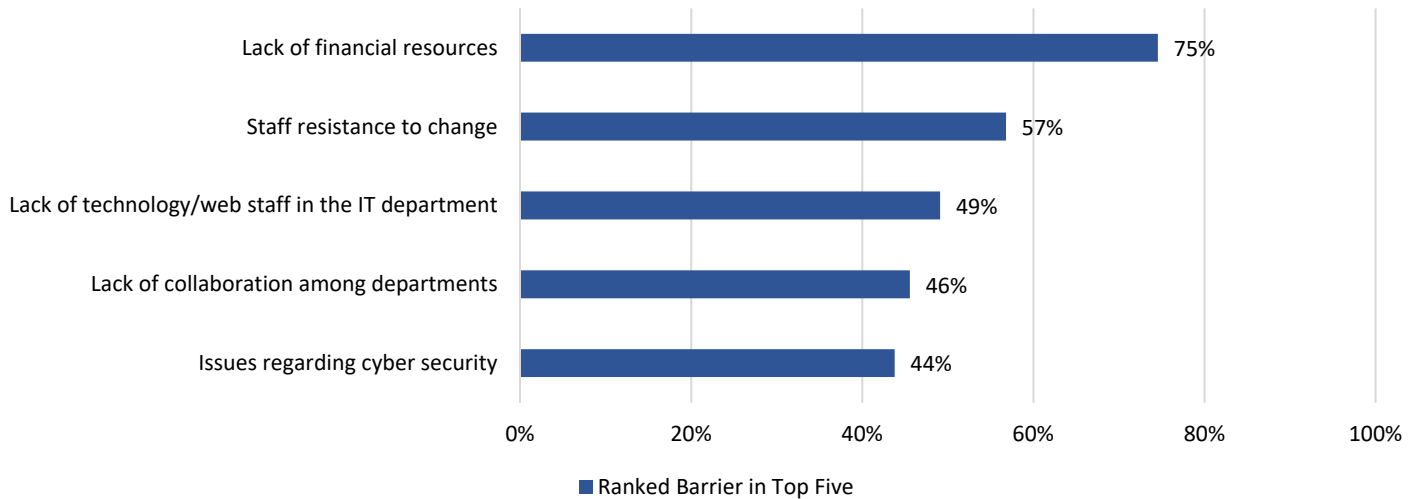
Please provide the following information about services available electronically for your residents.



Barriers to E-Government Initiatives

This survey asked respondents to rank their top five barriers to e-government initiatives, such as technology demands, institutional support, and resident interest. Lack of financial resources (75%), staff resistance to change (57%), lack of IT technology and staff (49%), a lack of departmental collaboration (46%), and cyber security (44%) were the most common barriers indicated.

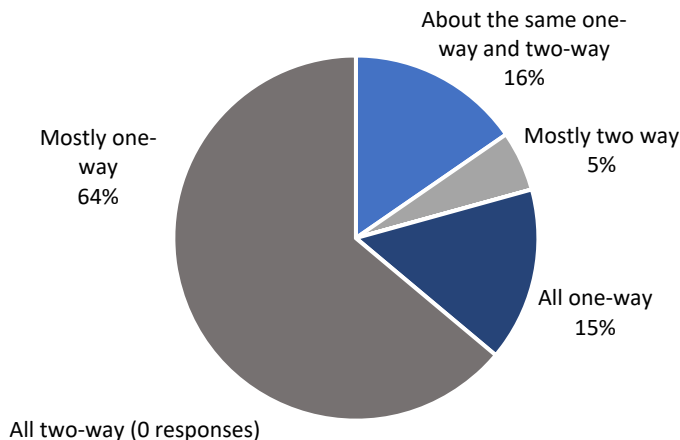
Please identify the top five barriers to e-government initiatives that your local government has encountered.



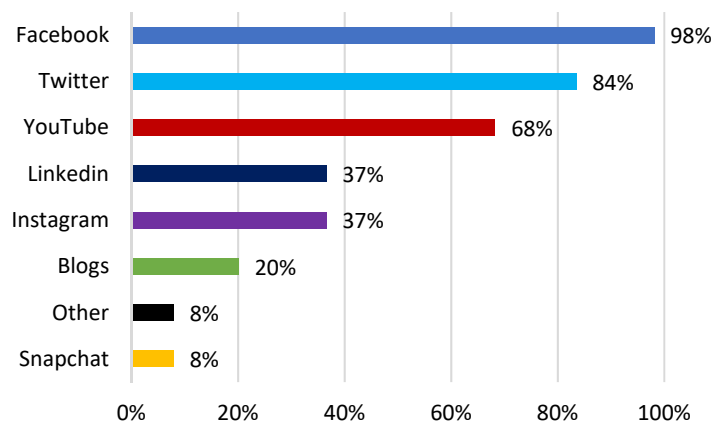
Social Media and Communicating with Residents

This survey asked about local government social media usage and method of communication. Two-way communication was defined as information that is produced and shared by both the local government and residents, while one-way communication was defined as information being exclusively produced by the local government and shared with residents. Social media communication was frequently characterized as mostly one-way (64%); Facebook (98%), Twitter (84%), and YouTube (68%) were the most commonly-used platforms.

Please select the answer that most accurately describes how you use social media to communicate with residents. (n=169)



If your local government uses social media, please indicate which social media you use. (n=164)



Appendix: Survey Results

1. Which department/office in your local government has principal responsibility for government information technology projects and activities? (Check only one.)

n=190	
a. Office of the City-County Manager/Chief Administrative Officer	15.3%
b. Office of the Mayor or county executive	1.1%
c. IT department	65.8%
d. Office of the Chief Information Officer (CIO)	12.1%
e. Office of the Chief Technology Officer (CTO)	1.6%
f. Office of Public Information	0.0%
g. Other	4.2%

2. How does your local government most frequently provide enterprise-wide technology solutions? (Check all that apply.)

n=183	
a. By local government staff entirely	77.6%
b. Through shared services with other local organizations	25.7%
c. By outsourcing to small local businesses	15.8%
d. Through selected vendors	68.9%

3. Which management and engagement approaches does your local government use to identify and select information technology solutions? (Check all that apply.)

n=182	
a. Enterprise-wide committee or working group recommendations	62.1%
b. Inventory & age assessment of legacy technology solutions in use	68.7%
c. Cost-benefit analysis prior to purchase	63.7%
d. Return on investment (ROI) analysis after implementation	37.4%
e. Departmental needs assessment	89.0%
f. Individual staff member request	34.6%
g. Research and recommendation to solve specific challenges	76.9%
h. Funding was available to make the purchase	45.6%
i. Other	4.9%

4. How does your IT department function within your organization? (Check only one.)

n=183	
a. Centralized system that delivers services to the enterprise	34.4%
b. Decentralized system with IT personnel located within each department	1.6%
c. Hybrid system with a central enterprise office and IT personnel in departments	63.9%

5. How many IT personnel (FTEs) does your organization have?

n=179		Mean	Median
a. In a centralized enterprise office	30.7	16.0	
b. Within departments	35.8	5.0	
c. Other IT personnel not included in part [a] and [b]	11.9	6.5	

6. Does your jurisdiction currently have specific "off-the-shelf" technology solutions dedicated for the purposes listed below? (Check only one per row.)

Technology Solution	n	Answering "yes"
a. Online permitting	179	74.9%
b. Digital procurement & purchasing systems	177	70.1%
c. Contract management	176	47.7%
d. Enterprise Resource Planning (ERP)	178	62.4%
e. Electronic plan review	175	47.4%
f. Asset management	177	84.2%
g. Paperless agendas	180	74.4%
h. Document management	179	87.7%
i. Freedom of Information (FOI)/ Public records requests	172	44.8%
j. Grants management	166	34.9%
k. Geographic Information System (GIS)	182	97.3%
l. Human services case management	173	63.6%
m. Customer service/CRM technologies	164	50.0%
n. Networking/data communications	176	93.8%
o. Cloud storage for data	174	76.4%
p. Other	183	8.7%

7. What is your annual budget for government technology solutions? Your estimate should be based only on cost of application solutions, i.e., software, SaaS, etc. Do not include hardware and personnel costs. (Check only one.)

n=175	
\$5,000,001 +	12.6%
\$2,500,001 - \$5.0 million	6.9%
\$1,000,001 - \$2.5 million	19.4%
\$500,001 - \$1 million	24.0%
\$250,001 - \$500,000	14.9%
\$100,001 - \$250,000	14.3%
Under \$100,000	8.0%

8. Please provide the following information about services available electronically for your residents. (Check only one per row.)

Online Service	n	Service is provided electronically
a. Online payment of taxes	174	72.4%
b. Online payment of utility bills	166	55.4%
c. Online payment of fines/ fees	173	70.5%
d. Online search/ download for public documents	177	79.7%
e. Online viewing of legislative meetings	178	84.8%
f. Online project plan review submission	174	45.4%
g. Online citizen engagement & resident comment	175	62.3%
h. Online vendor portal/ registration	172	57.6%
i. Online completion and submission of permit applications	174	59.8%
j. Online completion and submission of business license applications/ renewals	168	38.1%
k. Forms that can be downloaded for manual completion (e.g., voter registration, building permits, etc.)	179	92.7%
l. Online employment information/applications	180	91.1%
m. Online GIS mapping/ data	179	91.6%
n. Online property assessment appeals	163	30.6%
o. Other	183	5.5%

9. Please identify the top five barriers to e-government initiatives that your local government has encountered. (Rank 1 to 5, with 1 being your top barrier.)

n=169						
Barrier	1	2	3	4	5	Total 1-5
a. Lack of technology/web staff in the IT department	13.0%	16.6%	7.7%	3.6%	8.3%	49.1%
b. Lack of technology/web staff in the operating departments	3.0%	3.6%	9.5%	1.8%	4.7%	22.5%
c. Lack of information about e-government applications in the IT department	0.0%	2.4%	3.6%	5.9%	7.1%	18.9%
d. Lack of information about e-government applications in the operating departments	3.6%	5.3%	7.7%	10.7%	5.9%	33.1%
e. Lack of support from elected officials	0.6%	1.8%	7.1%	3.6%	7.1%	20.1%
f. Issues relating to convenience fees for online transactions	3.6%	3.0%	4.7%	5.9%	7.1%	24.3%
g. Lack of collaboration among departments	5.3%	10.1%	8.9%	13.6%	7.7%	45.6%
h. Difficulty justifying return on investment (ROI)	4.1%	6.5%	7.7%	10.7%	8.9%	37.9%
i. Staff resistance to change	8.9%	14.8%	12.4%	11.8%	8.9%	56.8%
j. Issues regarding privacy	0.6%	10.1%	5.3%	7.1%	5.9%	29.0%
k. Issues regarding cyber security	10.7%	13.6%	11.2%	3.0%	5.3%	43.8%
l. Lack of financial resources	41.4%	13.6%	9.5%	6.5%	3.6%	74.6%
m. Need to upgrade technology (PCs, networks, etc.)	4.7%	5.9%	5.9%	7.7%	5.3%	29.6%
n. Resident/business resistance to change	1.2%	1.8%	4.7%	7.1%	3.6%	18.3%
o. Lack of resident/business interest/demand	3.6%	3.6%	5.9%	6.5%	8.3%	27.8%
p. Website does not accept payment by credit card	0.0%	2.4%	3.0%	3.6%	3.0%	11.8%
q. Lack of support from top administrators	1.2%	1.8%	2.4%	3.0%	6.5%	14.8%
r. Other	1.2%	0.6%	0.6%	0.6%	1.2%	4.1%

10. Has your organization used any of the following ways to provide online services? (Check all that apply.)

n=170	
a. Developed in-house by local government staff	78.8%
b. Developed by consultants and local government staff	64.7%
c. Outsourced to Application Service Providers	69.4%
d. Purchased programs from vendors and integrated into our databases	85.3%
e. Developed by a local government association	7.6%
f. Developed through a public-private partnership	7.6%
g. Other	1.2%

11. If your local government uses social media, please indicate which social media you use. (Check all that apply.)

n=164	
a. Facebook	98.2%
b. Twitter	83.5%
c. YouTube	68.3%
d. Instagram	36.6%
e. Snapchat	7.9%
f. LinkedIn	36.6%
g. Blogs	20.1%
h. Other	7.9%

12. Please select the answer that most accurately describes how you use social media to communicate with residents. For the purposes of this survey, one-way communication refers to information being produced exclusively by the local government and shared with residents. Two-way communication refers to information that is produced and shared by both the local government and residents. (Check only one.)

n=169	
All one-way	15.4%
Mostly one-way	63.9%
About the same one-way and two-way	15.4%
Mostly two way	5.3%
All two-way	0.0%

13. Who in your local government is mostly responsible for handling social media? (Check only one.)

n=170	
a. Office of the City-County Manager/Chief Administrative Officer	17.6%
b. IT department	8.2%
c. Office of Information/Public relations	57.6%
d. Other	16.5%

To learn more about this survey, contact surveyresearch@icma.org.