YOU MUST COMPLETE THIS FORM ONLINE

MAKE PDF VERSION - SCC 2018 Readiness Challenge Application

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Remember to click the SAVE DRAFT while working on your application. Only click the SUBMIT button on the last page when your application is 100% COMPLETED. You can come back and work on your application anytime, but you must submit the application before the deadline of 11:59 PM Pacific Time on Friday, November 10th, 2017.
If you would like a PDF version on this application, you can download a copy so you can see the entire application. You will need to submit your information using this online form. NO paper copies will be accepted.
What is your first name? * first name What is your last name ? *
last hame
What is your organization name? *
Local government officials, external consultants, and other stakeholders are eligible to complete and submit the application. However, the application must include a letter of support from the Applicant's chief executive (e.g. Mayor, City Manager) authorizing the application.
What is your job title *
What is your email address? *
This will help us keep in contact during the application process.

What state or province is the Applicant located in? * Please spell out the name of your state or province.
Trease spell out the name of your state of province.
What is the name of the Applicant? *
This needs to be the lead local or state government entity for the application.
What type of entity is the Applicant? *

Knowledge Resources - Getting help with your application *

KR: We have provided knowledge resources for most question on the application. These resources are designed to provide you with information that will help you answer the question better and also advance smart cities planning in your city. These knowledge resources are featured in shaded boxes with a blue **KR** mark, like this one.

○ I understand the content of the KR boxes are meant to provide me with useful guidance, although I will not be awarded any special consideration for following the links.

All required fields must be complete before submitting this application. Fields marked with a * must be completed before you move to next page.

Note that brief placeholder answers may be given in order to keep proceeding through the application. The entire application can be edited prior to final submission.

Welcome to the web-based application for the 2018 Smart Cities Council Challenge Grant Program.

- The application must be submitted no later than 11:59 PM Pacific Time on Friday, November 10th, 2017.
- Applications will be reviewed by Smart Cities Council staff, Partners, and Advisors according to the criteria below out of a total of 100 points.
- All applicants will be notified whether or not they have been selected as finalists by December 11th, 2017 and as winners by January 16th, 2018.
- Finalists will be invited to conduct an interview. Applicants not selected to receive Challenge Grants will be given feedback on their application and provided with other opportunities to receive support from Smart Cities Council.

Will any other local governments be joining this application? We encourage regional participation, although it is not required. However, a given local government can only join a single application. States or provinces may not have any supporting local governments. Multi-state applications are allowed. Local governments should only join if they will be working actively with the Applicant. Please list the name of EACH local government supporting this application. (If no, leave blank)
What is the total population of the Applicant and all supporting local governments? *
Please estimate the total population for the Applicant plus the jurisdictions listed above. Do not count double count in the case of overlapping jurisdictions. In order to be eligible to apply, this total population must be at least 100,000. The Applicant does not need to have a larger population than supporting local governments.
Would the Applicant be interested in participating as a test case for the development of an international smart cities certification process? *
The Smart Cities Council has begun exploration of a possible smart cities verification and certification process that could greatly benefit from cities willing to test and improve the process. Test local governments may be eligible to seek advanced verification/certification Yes No
All required fields must be complete before submitting this application. Fields marked with a * must be completed before you move to next page.
Winning Applicants will need to gather key stakeholders to activate the regional or statewide smart cities ecosystem. We are looking for Applicants with existing smart cities efforts, long-term stakeholder engagement, and strong leadership support. We also encourage Applicants to provide a venue conducive to a breakthrough event.

Has the Applicant completed any smart cities projects in the last 2 years?

KR: Not all projects are smart cities projects. Smart cities projects enhance a city's livability, workability and sustainability. Please **look here for key elements of smart**

This can include projects completed by supporting jurisdictions as well.

ullet Yes igcup No

cities projects.

amounts when possible. Provide detail on how many citizens were served. (3,000 character limit) **KR:** Your city will benefit more from a few projects that truly cut across city departments than dozens of siloed projects. Learn how to adopt a cross-cutting approach to make your initiatives more successful. (3,000 character limit) Is the Applicant currently undertaking any smart cities projects? * This can include projects being undertaken by supporting jurisdictions as well. KR: Please look here for a definition of smart cities projects. Not all projects are smart cities projects and not all information and communication projects provide livability, workability and sustainability enhancements. Yes ○ No Please list smart cities projects currently being undertaken. [4 Points] * This can include projects being undertaken by supporting jurisdictions as well. Projects that demonstrate the ability to work across departments or jurisdictions are of particular interest. Please highlight how smart technologies are being used to meet key city goals around sustainability, social equity, or economic competitiveness. Include rough project amounts when possible. Please include the estimated total amount projected to be spent on smart cities projects by all jurisdictions during calendar year 2018. Provide detail on how many citizens were served. (3,000 character limit) KR: You should take a moment to familiarize yourself with some of the benefits of smart cities projects. Being able to connect the benefits of smart cities projects to your key city goals will help you complete this question. (3,000 character limit) How will the Applicant implement smart technologies in a way that can be shared with multiple departments or agencies? [4 points] * Discuss the Applicant's long-term commitment to integrated back office, data, and computing functions across multiple departments. (3,000 character limit) **KR:** If you hope to achieve your smart city goals, different technologies from different vendors must be able to work together. In particular, they must be able to exchange information. See why adhering to open standards is critical to this effort.

around sustainability, social equity, or economic competitiveness. Include rough project

low will oints] *	the Applicant support a variety of procurement routes? [4
Discuss th	ne Applicant's ability to work with a range of procurement vehicles including based contracting, performance contracting, public private partnerships anaged services, and other innovative approaches. (3,000 character limit)
KR: Over	two dozen approaches are discuessed in the Smart Cities Financing Guide.
	e Applicant have a smart cities plan or set of policies? * nclude plans and policies undertaken by supporting jurisdictions as well.
	admap is a crucial tool for turning your ideas into actions. Learn how to
	effective roadmap.
Yes	
■ 162	○ No
	pload a copy of the plan or policies. [4 Points} *
Please u	pload a copy of the plan or policies. [4 Points} * nclude planning efforts for supporting jurisdictions as well. Learn more abour
Please u This can in	pload a copy of the plan or policies. [4 Points} *
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Please u This can ir effective: KR: Befo element Files must	pload a copy of the plan or policies. [4 Points] * nclude planning efforts for supporting jurisdictions as well. Learn more about smart cities planning efforts. The submitting your plans, check to see if they include the five critical is of effective roadmaps. The be less than 32 MB.
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Please u This can in effective s KR: Befo element Files must Allowed fi Choose I Does the area for This can in supporting them on	pload a copy of the plan or policies. [4 Points] * Include planning efforts for supporting jurisdictions as well. Learn more about smart cities planning efforts. The submitting your plans, check to see if they include the five critical is of effective roadmaps. The be less than 32 MB. The less than 32 MB. The less planning efforts is a dedicated staff position, office, or program smart cities? * The lude a dedicated staff position, office, or program area for smart cities for gripping jurisdictions as well. The cities champions are essential for driving projects forward and keeping track. Learn the qualities of a good smart cities champion.

capacity for Applicant and supporting jurisdictions as well. Please be sure and discuss how the Challenge Grant award, including in-kind products and services and the Smart

, and a second second	
(3,000 character limit)	
	//
Key Stakeholders *	
Please discuss how you are working with key stakeholders or cities initiatives in an effective long-term engagement processyou ensure key stakeholders attend the event and are ready	s. How will

you ensure key stakeholders attend the event and are ready to work hard? How will this grant activate your regional smart cities ecosystem? [4 Points]

Successful smart cities initiatives are sustained by long-term stakeholder engagement across neighborhoods; local, state, and federal governments; regional and international businesses; NGOs; universities; and labs and standards organizations. (3,000 character limit)

KR: Stakeholder engagement is critical to coordinating and mobilizing a wide range of resources for smart cities. Get help building **stakeholder engagement here**.

(3,000 character limit)
(3,000 character limit)
· ·

Is the Applicant working closely with a utility on smart cities implementation? *

Applicants that are working with at least one energy or water utility or major telecommunications provider to implement smart cities technologies will have a greater chance of long-term success. Utilities and telecommunications companies may be either publicly owned or investor owned. If the Applicant selects Yes, it will need to upload a letter of support.

KR:Utilities and cities have a great deal to gain by working closely together. The Council has created a **Utilities Advancing Cities Task Force** to foster this cooperation.

Yes	O No

Please upload a copy of the letter of support. [4 Points] *

Please upload a letter of support from an energy or water utility or major telecommunications provider. This letter should demonstrate that the company is working actively with the Applicant in support of its application and be signed at the VP level or above.

Files must be less than 2 MB.

Allowed file types: pdf doc docx.

Choose File No file chosen

Upload

Which local government leaders will be attending at least two hours of the event? *

It is vitally important to involve as many key city decision makers as possible in order to build momentum and emerge with a clear sense of responsibility for key action steps.

□ City	Manager's Office
_ ′	missioner's Office
_	
_ ,	Councilor's Office
☐ Dep	artment of Innovation
☐ Ene	gy
☐ Fire	Chief
☐ Info	rmation Technology
□ Мау	or's Office
☐ Plar	ning
☐ Poli	ce Chief
☐ Resi	lience
☐ Sust	ainability
☐ Tran	sportation
☐ Wat	er/Wastewater
It is very be engag neighboo	helpful in our evaluation to get a sense of the kinds of organizations you will ging with to activate the regional smart cities ecosystem. This could include a chood association. For states or provinces, this organization can provide e representation.
people	traditional top-down approach to city planning may result in a city that few want to live in. A bottom-up approach is typically much more innovative and e. Check out these tips for hearing the voices of your citizens.
invite t	ist at least one organization representing workers that you would the event. * helpful in our evaluation to get a sense of the kinds of organizations you will ging with to activate the regional smart cities ecosystem. This could include a a
be engag	on.
be engag labor un KR: Eng	on. gaging with people working in the city is vitally important. Learn more from teal's Smart and Digital City Plan.

Please list at least one organization representing tourists that you would invite to the event. This could include a tourism board. \star

It is very helpful in our evaluation to get a sense of the kinds of organizations you will be engaging with to activate the regional smart cities ecosystem.

Please list at least one organization representing disadvantaged citizens that you would invite to the event. *

It is very helpful in our evaluation to get a sense of the kinds of organizations you will be engaging with to activate the regional smart cities ecosystem. This could include advocacy groups for low-income, disabled, or homeless citizens.

KR: People in low-income neighborhoods are typically left out of bottom-up planning. When people are left out of the discussion and the solution, they are deprived of the infrastructure and resources they need to succeed. Learn what steps you can take to **ensure all voices are heard**.

Please list at least one organization representing businesses that you would invite to the event. *

It is very helpful in our evaluation to get a sense of the kinds of organizations you will be engaging with to activate the regional smart cities ecosystem. This could include a chamber of commerce or business improvement district.

KR: Making progress typically begins by building consensus. Read this case study to see how progress can be made quickly when everyone from citizens to businesses are **active participants in discussions**.

Please list at least one academic institution that you would invite to the event. *

It is very helpful in our evaluation to get a sense of the kinds of organizations you will be engaging with to activate the regional smart cities ecosystem.

KR: Engaging regional universities can strengthen and sustain smart cities initiatives. There are good lessons from **the MetroLab Network**.

Please list at least one utility that you would invite to the event. *

It is very helpful in our evaluation to get a sense of the kinds of organizations you will be engaging with to activate the regional smart cities ecosystem.

KR: Utilities have a key role to play in advancing smart cities. Applicants can find out more about **engaging utilities effectively here**.

Please list at least one state or federal agency that you would invite to the event. *

It is very helpful in our evaluation to get a sense of the kinds of organizations you will be engaging with to activate the regional smart cities ecosystem. It is critical to involve multiple levels of government in regional smart cities efforts.

KR: Building effective smart cities requires effective linkages across different levels of government, and important resources are available from state and federal

Is the Applicant prepared to pay for the cost of venue rental, food, audiovisual, and all other direct event expenses? * Applicants will need to bear the cost of venue rental, food, audio-visual support, and all other direct event expenses. Yes No You will need a letter from the Mayor's Office or City Manager's Office demonstrating support. This letter must be uploaded at the end of the

demonstrating support. This letter must be uploaded at the end of the application prior to certifying completion. You can download a sample letter of support by clicking here. (Word Doc)

All required fields must be complete before submitting this application. Fields marked with a * must be completed before you move to next page.

How would you describe your level of engagement with smart cities strategies for the Built Environment? *

The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer.

KR: Buildings are the biggest single source of carbon emissions, accounting for about 40% of the world's carbon footprint, according to the World Business Council for Sustainable Development. Learn why the **built environment** is an essential piece of the smart cities puzzle.

How would you describe your level of engagement with smart cities strategies for the Energy? *

The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer.

KR: Cities can't function without energy. Cities and utilities must work together — regardless of whether the utility is part of local government or a private investorowned utility that supplies the city's energy. Learn about ICT's role in **more sustainable cities**.

- Select -		

How would you describe your level of engagement with smart cities strategies for Telecommunications? *

The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer.

KR: Ubiquitous broadband telecommunication is a prerequisite for a smart city. Learn how to get starting **building a telecommunications architecture** that can serve as the foundation of a smart city and the foundation for major improvements in livability, workability and sustainability.

- Select -		

billion each year. Learn how <mark>how ICT can help</mark> .	
Select -	
ow would you describe your level of engagement with smart cities trategies for Water and Wastewater? *	
he Readiness Program will be tailored to the Applicant's current maturity level, ar oints are not awarded for any particular answer.	nd
KR: Water and wastewater is a key city responsibility area including potable wate stormwater management, and wastewater treatment. For more on the application of smart cities technologies to water and wastewater, look here .	
Select -	
How would you describe your level of engagement with smart cities trategies for Waste Management? *	
he Readiness Program will be tailored to the Applicant's current maturity level, ar oints are not awarded for any particular answer.	nd
KR: Waste management is a key city responsibility area including recycling and design for a circular economy. For more on the application of smart cities technologies to waste management, look here.	
- Select -	
How would you describe your level of engagement with smart cities trategies for Health and Human Services? * The Readiness Program will be tailored to the Applicant's current maturity level, are points are not awarded for any particular answer. KR: Health and Human Services are a key city responsibility area including healthcare, education, and a wide range of human services. For more on the application of smart cities technologies to health and human services, look here.	
- Select -	
How would you describe your level of engagement with smart cities trategies for Public Safety? * he Readiness Program will be tailored to the Applicant's current maturity level, ar oints are not awarded for any particular answer.	nd
KR: Public Safety is a key city responsibility area including policing and emergence response. For more on the application of smart cities technologies to public safet look here.	
- Select -	

How would you describe your level of engagement with smart cities strategies for Smart Payments and Finance? *

KR: Transportation networks in cities around the world struggle with serious problems, like congestion. By 2030, congestion could rob the U.S. economy of \$186

- Select -	
ssessing smart city-wide asse	es Readiness Guide provides a detailed framework for tities readiness across key universal targets. Please provid ssment across these targets. This will help us understand pecific challenges and opportunities.
rogress for op he Readiness Pro	on. How would the Applicant characterize implementation of timal instrumentation? * Orgram will be tailored to the Applicant's current maturity level, and
KR: Instrumentathat allows a city	tion is the bedrock of smart cities. It provides the key source of data to make informed decisions on how to reduce costs and allocate that it means to have optimal instrumentation and control.
○ Complete	○ Over 50% ○ Partial ○ None
they can commu	nents are generating information, they need to be connected so inicate to provide data, as well as be able to receive orders. Learn devices with citywide, multi-service capability.
○ Complete	○ Over 50% ○ Partial ○ None
rogress for ad	y. How would the Applicant characterize implementation thering to open standards? * ogram will be tailored to the Applicant's current maturity level, and arded for any particular answer.
KR: Systems that each other, maki	t are loosely coupled don't have components that are dependent on ing it easier to swap them in and out. See how open integration ovide scalability and modernization benefits.
○ Complete	○ Over 50% ○ Partial ○ None
progress for us the Readiness Pro	y. How would the Applicant characterize implementation ing open integration architecture? * ogram will be tailored to the Applicant's current maturity level, and
KR: Systems that each other, making	arded for any particular answer. t are loosely coupled don't have components that are dependent on ing it easier to swap them in and out. See how open integration wide scalability and modernization benefits.
○ Complete	○ Over 50% ○ Partial ○ None

Interoperability. How would the Applicant characterize implementation progress for prioritizing use of legacy investments? \star

○ Complete	○ Over 50% ○ Partial ○ None
	vacy. How would the Applicant characterize
•	on progress for publishing privacy rules? *
	rogram will be tailored to the Applicant's current maturity level, and varded for any particular answer.
Learn how effe	riority to produce clear privacy policies that are easily accessible. ctive privacy rules to balance residents' desire for privacy and e city's ability to gain access to data to provide better services.
○ Complete	○ Over 50% ○ Partial ○ None
mplementation The Readiness Pr	vacy. How would the Applicant characterize on progress for creating a cybersecurity framework? * rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer.
comprehensive	of security policy and risk management framework must be energy, encompassing the cybersecurity as well as the physical security or massive infrastructure to tiny mobile devices. Learn how to creat framework.
O Complete	Over 50% O Partial O None
○ Complete	○ Over 50% ○ Partial ○ None
	ment. How would the Applicant characterize
mnlamantation	
mpiementatio	on progress for creating a citywide data policy? *
•	on progress for creating a citywide data policy? * rogram will be tailored to the Applicant's current maturity level, and
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Fhe Readiness Propoints are not av	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer.
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The Readiness Propoints are not avec. KR: The stream also require spe	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, becial handling. Smart cities treat public data as a citywide asset. The
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The Readiness Propoints are not avec. KR: The stream also require specified data needs to be will expect full at that meets all needs all needs.	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, be ecial handling. Smart cities treat public data as a citywide asset. The eccessible to other systems and stakeholders. Citizens, of course access to their own data. Learn how to create a citywide data police.
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KR: The stream also require spedata needs to be will expect full at that meets all not complete. Computing Remplementation. The Readiness Propositions are not averaged to the consider cloud deliver efficience.	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, be ecial handling. Smart cities treat public data as a citywide asset. The exaccessible to other systems and stakeholders. Citizens, of course access to their own data. Learn how to create a citywide data policineds. Over 50% Partial None sources. How would the Applicant characterize on progress for considering a cloud computing framewo rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer.
KR: The stream also require special data needs to be will expect full at that meets all not computing Remplementation. Computing Remplementation. KR: There are not averaged to the consider cloud deliver efficience.	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, be ecial handling. Smart cities treat public data as a citywide asset. The exaccessible to other systems and stakeholders. Citizens, of course access to their own data. Learn how to create a citywide data policineds. Over 50% Partial None sources. How would the Applicant characterize on progress for considering a cloud computing framework are defined to the Applicant's current maturity level, and warded for any particular answer. Inany ways to deploy computing resources, but most cities should computing first. It is the computing framework best equipped to be and optimization. Applications and services reside in the cloud,
KR: The stream also require special data needs to be will expect full at that meets all not computing Remplementation. Computing Remplementation. The Readiness Propoints are not avoints ar	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, be ecial handling. Smart cities treat public data as a citywide asset. The period accessible to other systems and stakeholders. Citizens, of course access to their own data. Learn how to create a citywide data policineds. Over 50% Partial None assources. How would the Applicant characterize for progress for considering a cloud computing framework are accessed for any particular answer. In any ways to deploy computing resources, but most cities should computing first. It is the computing framework best equipped to computing first. It is the computing and services reside in the cloud, accessible from any device.
KR: The stream also require spedata needs to be will expect full at that meets all not complete. Computing Remplementations. The Readiness Provints are not avoints are more consider cloud deliver efficiency where they are	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, be ecial handling. Smart cities treat public data as a citywide asset. The eccessible to other systems and stakeholders. Citizens, of course access to their own data. Learn how to create a citywide data policineds. Over 50% Partial None sources. How would the Applicant characterize on progress for considering a cloud computing framewo rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. nany ways to deploy computing resources, but most cities should computing first. It is the computing framework best equipped to cy and optimization. Applications and services reside in the cloud, accessible from any device. Over 50% Partial None
KR: The stream also require spedata needs to be will expect full at that meets all not computing Recomputing Recomputing Recomputing Recomputing Recomputing Recomputing Recomputing Recomputed Recomputing Recomp	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, be ecial handling. Smart cities treat public data as a citywide asset. The period accessible to other systems and stakeholders. Citizens, of course access to their own data. Learn how to create a citywide data policineds. Over 50% Partial None assources. How would the Applicant characterize for progress for considering a cloud computing framework are accessed for any particular answer. In any ways to deploy computing resources, but most cities should computing first. It is the computing framework best equipped to computing first. It is the computing and services reside in the cloud, accessible from any device.
KR: The stream also require special data needs to be will expect full at that meets all not complete. Computing Remplementation. The Readiness Propoints are not away the consider cloud deliver efficiency where they are computing Remplementation.	rogram will be tailored to the Applicant's current maturity level, and warded for any particular answer. s of data that smart cities collect create enormous opportunities, be ecial handling. Smart cities treat public data as a citywide asset. The ecial handling. Smart cities treat public data as a citywide asset. The ecacessible to other systems and stakeholders. Citizens, of course access to their own data. Learn how to create a citywide data policineds. Over 50% Partial None resources. How would the Applicant characterize on progress for considering a cloud computing framework are any particular answer. Program will be tailored to the Applicant's current maturity level, and warded for any particular answer. Program will be tailored to the Applicant's current maturity level, and warded for any particular answer. Program will be tailored to the Applicant's current maturity level, and warded for any particular answer. Program will be tailored to the Applicant's current maturity level, and warded for any particular answer. Program will be tailored to the Applicant's current maturity level, and warded for any particular answer. Program will be tailored to the Applicant's current maturity level, and warded for any particular answer. Program will be tailored to the Applicant characterize was a citywide asset. The ecial policy in the cloud, accessible from any device. Over 50% Partial None

points are not awarded for any particular answer.

○ Complete ○ Over 50% ○ Partial	○ None
Computing Resources. How would the Amplementation progress for having acc	
he Readiness Program will be tailored to the A points are not awarded for any particular answ	
KR: Learn what comprehensive device manage	gement entails and why you need it.
○ Complete ○ Over 50% ○ Partial	○ None
Computing Resources. How would the Amplementation progress for having accumanagement? *	
he Readiness Program will be tailored to the A points are not awarded for any particular answ	
KR: Learn what comprehensive device manage	gement entails and why you need it.
○ Complete ○ Over 50% ○ Partial	○ None
KR: Situational awareness can be delivered in mobile alerts. The ideal delivery method depe your city. Learn how to achieve full situational	nds on the unique circumstances of
your city. Learn how to achieve full situationa Complete Over 50% Partial	None
Complete Gover 30% Grantian	ONOR
Analytics. How would the Applicant cha progress for achieving operational opting	
The Readiness Program will be tailored to the Appoints are not awarded for any particular answ	pplicant's current maturity level, and
KR: Smart cities combine data from sensors at to determine the best path forward. Today, in if it occurs at all – happens without the ability smart city of tomorrow, optimization will have subsystems plus the computer power to analypath forward. Learn how to build a plan to acl	frastructure and system optimization to truly see the big picture. But in the data from many sensors and treat all of that input to find the best
○ Complete ○ Over 50% ○ Partial	○None
Analytics. How would the Applicant cha progress for achieving asset optimization	
The Readiness Program will be tailored to the Appoints are not awarded for any particular answ	pplicant's current maturity level, and
KR: Smart cities gain the maximum lifetime va advanced analytics to the data gathered from city assets – roads, power poles, transformers	their instrumentation. In other words

with sensors and instrumentation that report their condition. Then asset management systems can analyze that data to optimize asset performance and maximize their lifetime value. Learn how to achieve asset optimization.

The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer.

KR: Through predictive analytics cities can get a glimpse of what's going to happen next – from where crime is most likely to occur to where streetlights are going to fail to where traffic congestion will stall the morning commute. With predictive analytics you can uncover patterns and associations you might not discover as quickly otherwise. Learn how to **pursue predictive analytics**.

○ Complete ○ Over 50% ○ Partial ○ None

All required fields must be complete before submitting this application. Fields marked with a * must be completed before you move to next page.

Applicants need to choose exactly three sectors out of Built Environment, Energy, Telecommunications, Transportation, Water and Wastewater, Waste Management, Health and Human Services, Public Safety, Smart Payments and Finance, and Other. Each sector is worth 20 points, for a total of 60 points available from the three sectors.

PLEASE NOTE: Unchecking a box after you have completed that section will erase all data you have entered for that section.

Please pick three Sectors *

☑ Built Environment

☑ Energy

☑ Telecommunications

✓ Transportation

☑ Water and Wastewater

✓ Waste Management

ightharpoonup Health and Human Services

Public Safety

☑ Smart Payments and Finance

Other City Responsibility Area

The questions for the three sectors that you have selected in the boxes above will be shown below. You will see each sector has a clickable orange header for each sector you have selected. You can click on the header to expand and colapse the list of questions for each sector to make it easier to focus on each of the sections. Please make sure you answer all questions in each section.

KR: Buildings are the biggest single source of carbon emissions, accounting for about 40% of the world's carbon footprint, according to the World Business Council for Sustainable Development. Learn why the **built environment** is an essential piece of the smart cities puzzle.

What is the Applicant's biggest challenge around the built environment? [5 Points] *

Applicants should be able to briefly and clearly discuss the current pain points and challenges around the built environment. (1,500 character limit)

KR: Built environment is a key city responsibility area including buildings, roads, and other large-scale infrastructure. In order to successfully address this question on the application of smart cities technologies to the built environment, **look here**.

(1,500 character limit)	
	//

How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's built environment? [10 points] *

Applicants need to demonstrate approaches to deploying smart technologies to the built environment that support their existing plans and strategies around the built environment. Applicants should also discuss innovative financing and business models that will support long-term project viability and scaling. (3,000 character limit)

KR: This should include explicitly addressing **livability** (e.g. quality of life, ease of accessing services, citizen engagement), **workability** (economic competitiveness), **sustainability** (e.g. high levels of carbon reduction, air quality, biodiversity), and resilience (e.g. increasing ability to respond to short-term shocks and long-term transformation.)

(3,000 character limit)	
	//

How will the Applicant deploy smart technologies in the built environment in a way that helps vulnerable or marginalized people or neighborhoods? [5 points] *

Smart technologies should help enhance social equity, close the digital divide, and provide a more inclusive city. (3,000 character limit)

KR: A smart city is also a "compassionate city." Get ideas and suggestions for making your city **more compassionate**.

How would the Applicant characterize implementation progress for these items in the Built Environment:

nstrumentati	on & Control *			
KR: Buildings that use smart devices to monitor conditions like water use and heating and cooling can capture data that building managers can use to make better decisions about managing resources. Learn more about instrumentation and control.				
○ Complete	○ Over 50%	○ Partial	○ None	
Connectivity *				
to allow them to		ne information	systems in a building, the next step is n they gather. Learn what you need to	
○ Complete	○ Over 50%	○ Partial	○ None	
nteroperabili	ty *			
others. Building	g technology must city gear, and it m	t adhere to th nust also conto	uilt environment plays nicely with e same communications standards as end with standards unique to the built rds to ensure interoperability.	
○ Complete	○ Over 50%	○ Partial	○ None	
Security & Priv	/acy *			
extremely sens	itive. Be sure to co	onsider your o	coming from buildings is often city's built environment when planning ping practices to ensure security and	
○ Complete	Over 50%	○ Partial	○ None	
Data Manager	ment *			
such as energy transit planning initiatives adhe	efficiency, carbon g and land use pla	n footprint red inning. It is cru a architecture	buildings is invaluable for city goals luction, economic development, ucial that your built environment eso that information can flow management.	
○ Complete	○ Over 50%	○ Partial	○ None	
Computing Re	sources *			
		built on irac-	aont can cumport offertive buildir -	
rr. Computing	resources in the I	ouiit erivironn 	nent can support effective building	

KR: Computing resources in the built environment can support effective building management systems and monitor a whole portfolio of buildings in different neighborhoods. A robust geographic information system (GIS) is invaluable for many city functions related to buildings, including maintenance, public works, parks, building codes, planning and many more. Learn more about **computing resources**.

efficient. With the ensure the cont	ne power of analy	tics, buildings ductivity and	can also optimize their conditions to comfort of occupants. Get
○ Complete	Over 50%	○ Partial	○ None
Energy Energy is a key	city responsibi	lity area, wh	ether handled by a muncipally or
orivately owne			
regardless of w	hether the utility i at supplies the cit	is part of local	utilities must work together — government or a private investor- arn about ICT's role in more
privately owned		o successfully	ether handled by a muncipally or address this question on the rgy, look here.
(1,500 character	limit)		<i>x</i>
livability, work systems? [10 p Applicants need t that support thei	cability, sustain coints] * to demonstrate ap r existing plans ar	pability and opproaches to and strategies a	nnologies to accelerate the resilience of Applicant's energy deploying smart technologies to energy around energy. Applicants should also is that will support long-term project
	ng.(3,000 characte		is that will support long-term project
accessing service sustainability (es, citizen engage e.g. high levels of e.g. increasing abi	ement), <mark>worka</mark> carbon reduc	vability (e.g. quality of life, ease of ability (economic competitiveness), tion, renewable energy, smart grids), d to short-term shocks and long-term
(3,000 character	limit)		

_	is also a "compas compassionate.	ssionate city."	Get ideas and suggestions for making
3,000 character	limit)		
around the 7 ke	y technology ena Applicant's curren	blers for ener	assess its own state of progress gy. The Readiness Program will be el, and points are not awarded for any
low would the		racterize in	nplementation progress for
nstrumentati	on & Control *		
can predict, dia outage or black	gnose and mitigat out. Examples of	te issues that energy instrur	y smart devices, system operators might previously have caused an nentation include the deployment of Learn more about instrumentation
○ Complete	Over 50%	○ Partial	○ None
Connectivity *			
transmitted for smart meters, c	analysis and action	on. For examp n sensors and	out the smart energy network to be le, connectivity might mean that your utility are connected through two- vide the connectivity needed.
○ Complete	○ Over 50%	○ Partial	○ None
nteroperabilit	xy *		
	!		ce and decrease costs. Enable andards. Learn how to leverage
distributed gen	eration with interonsure interonsure interoperal		
distributed gen			○None
distributed generated standards to er	Over 50%	oility.	○ None
distributed generated standards to endered Complete Gecurity & Prival KR:There are m	Over 50% any compelling re	Partial Passons why sn	None nart cities take security and privacy y elements to ensure security and

Computing Re	sources *			
KR: Cloud computing, GIS and a comprehensive device management system are all critically important for energy systems. Learn about the computing resources that can help.				
○ Complete	○ Over 50%	○ Partial	○ None	
Analytics *				
that more evide	ent than in a smar	t energy netw ly important f	ork that powers for automated fa	rhaps nowhere is so much of what a ult management and about leveraging
○ Complete	○ Over 50%	○ Partial	○ None	
KR: Ubiquitous Learn how to ge serve as the fou	ns networks that broadband teleco	ommunication g a telecomm rt city and the	nderlying smar is a prerequisite nunications arch	-
Points] * Applicants should		y and clearly (discuss the curre	ommunications? nt pain points and
communication to successfully a	nications is a key s networks that p address the applic tions, look here.	rovide under	ying smart cities	connectivity. In order
(1,500 character	limit)			

How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's telecommunications systems? [10 points] *

Applicants need to demonstrate approaches to deploying smart technologies to telecommunications that support their existing plans and strategies around

transformation.	ncreasing ability to respond to short-term shocks and long-term
(3,000 character I	mit)
	oplicant deploy smart technologies in telecommunications ay that helps vulnerable or marginalized people or s? [5 points] *
Applicants need t	o demonstrate their commitment to smart technologies that help onate cities. Smart technologies should help enhance social equity, ivide, and provide a more inclusive city. (3,000 character limit)
KR: A smart city your city more of	is also a "compassionate city." Get ideas and suggestions for making ompassionate.
(3,000 character I	mit)
around the 7 ke Program will be	estions allows the Applicant to assess its own state of progress y technology enablers for telecommunications. The Readiness tailored to the Applicant's current maturity level, and points are not y particular answer.
How would the	Applicant characterize implementation progress for
these items in	Telecommunications:
Instrumentatio	n & Control *
geography to all - whether at wo points of Interne empower a city	ensure best-of-breed, high-speed broadband access across their or most buildings. A citywide wireless network ensures that people rk, at play or otherwise on the go – are not tethered to stationary et access. Cellular, WiFi, RF mesh, and other interconnected networks
KR: Smart cities geography to all - whether at wo points of Interna empower a city	ensure best-of-breed, high-speed broadband access across their or most buildings. A citywide wireless network ensures that people rk, at play or otherwise on the go – are not tethered to stationary et access. Cellular, WiFi, RF mesh, and other interconnected networks and everyone in it, creating competitive advantage and convenience.
KR: Smart cities geography to all – whether at wo points of Interne empower a city Learn more abo	ensure best-of-breed, high-speed broadband access across their or most buildings. A citywide wireless network ensures that people rk, at play or otherwise on the go – are not tethered to stationary et access. Cellular, WiFi, RF mesh, and other interconnected networks and everyone in it, creating competitive advantage and convenience. ut how to leverage instrumention and control.
KR: Smart cities geography to all – whether at wo points of Interne empower a city Learn more abo Complete Connectivity * KR: Regardless of connectivity, stri	ensure best-of-breed, high-speed broadband access across their or most buildings. A citywide wireless network ensures that people rk, at play or otherwise on the go – are not tethered to stationary et access. Cellular, WiFi, RF mesh, and other interconnected networks and everyone in it, creating competitive advantage and convenience. ut how to leverage instrumention and control.

interoperability to get the most from your	telecommunications networks.
○ Complete ○ Over 50% ○ Partio	al O None
Security & Privacy *	
KR: Creating a security framework is especisince the telecommunications network is or criminals. There is no point in hardening the telecommunications system has its door unto ensure security and privacy.	ne of the "access points" for cyber e rest of the city if the
○ Complete ○ Over 50% ○ Partic	al O None
Data Management *	
KR: Thanks to real-time information supplied can predict, diagnose and mitigate issues the outage or blackout. Examples of energy instruments and distribution system sense suggestions to ensure you get the real-time.	nat might previously have caused an trumentation include the deployment of ors. Follow the data management
○ Complete ○ Over 50% ○ Partic	al O None
Computing Resources *	
KR: Telecommunications networks can link computing resources. Follow the computin your implementation.	- '
○ Complete ○ Over 50% ○ Partio	al O None
Analytics *	
KR: Analytics can be used to optimize the electron telecommunications networks. Learn about	
○ Complete ○ Over 50% ○ Partic	al O None

Transportation

Transportation is a key city responsibility area currently undergoing rapid disruption from trends like electric vehicles, shared fleets, and autonomous vehicles.

KR: Transportation networks in cities around the world struggle with serious problems, like congestion. By 2030, congestion could rob the U.S. economy of \$186 billion each year. Learn how how ICT can help.

transportation, look here .	les to
(1,500 character limit)	
	ſ,
low will the Applicant deploy smart technologies to accelerate vability, workability, sustainability and resilience of Applicant ransportation systems? [10 points] *	
pplicants need to demonstrate approaches to deploying smart technology ransportation that support their existing plans and strategies around transpplicants should also discuss innovative financing and business models the upport long-term project viability and scaling. (3,000 character limit)	sportation.
KR: This should include explicitly addressing livability (e.g. quality of life, autonomous vehicles, citizen engagement), workability (economic composustainability (e.g. high levels of carbon reduction, electric vehicles, share and resilience (e.g. increasing ability to respond to short-term shocks and transformation.)	ed fleets),
3,000 character limit)	
	//
How will the Applicant deploy smart technologies in transport way that helps vulnerable or marginalized people or neighborhooints] * Smart technologies should help enhance social equity, close the digital divisorovide a more inclusive city. (3,000 character limit)	hoods? [5
KR: A smart city is also a "compassionate city." Get ideas and suggestions your city more compassionate.	for making
(3,000 character limit)	
	//
This group of questions allows the Applicant to assess its own state of pro-	ogress

How would the Applicant characterize implementation progress for these items in Transportation:

around the 7 key technology enablers for transportation. The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded

Instrumentation & Control *

for any particular answer.

O Complete O Over 3070 O Lartial O None	
Connectivity *	
KR: It's not enough to embed smart devices throughout a transportation network. The data the devices gather needs to be channeled through a citywide communications system so it can be analyzed and acted upon. Learn more about building the connectivity you need.	
○ Complete ○ Over 50% ○ Partial ○ None	
Interoperability *	
KR: As cities add intelligence to their transportation network, it makes sense to use existing equipment and systems whenever possible to avoid unnecessary spending and stranding assets. One goal of a smart transportation system is to encourage people to use it, so making it incredibly convenient will be a big factor. Learn how interoperability plays a crucial role and the steps you can take to develop it.	
○ Complete ○ Over 50% ○ Partial ○ None	
Security & Privacy *	
KR: The security and privacy concerns that apply to other city infrastructures are equally important in the realm of public transportation. Smart transportation systems collect all manner of data that could make them vulnerable to cyber attack – from smart card payment information to ridership details. Having strong cybersecurity measures in place will help ward off trouble. Learn how to ensure security and privacy.	<
○ Complete ○ Over 50% ○ Partial ○ None	
Data Management *	
KR: With smart sensors, smart payment systems, GPS and all the other intelligent devices that are gathering data as part of a smart transportation system, the city and its residents are all better off when there's a plan for managing it. Follow these data management suggestions.	ž
○ Complete ○ Over 50% ○ Partial ○ None	
Computing Resources *	
KR: Transportation systems involve a lot of data, a lot of logistics and a lot of detail that ICT can help cities get under control. A lot of cities are seeing amazing results with open innovation platforms that empower developers to create apps that city residents can use. Study these computing resources best practices for ideas.	
○ Complete ○ Over 50% ○ Partial ○ None	
Analytics *	
KR: When it comes to optimizing transportation operations, the goal is to make sur the optimization takes place across all modes, in or near real time depending on circumstances. Improved mobility is important to residents, of course, but is also	e

critical for businesses that move people or goods around a city. Learn how to $% \left(1\right) =\left(1\right) \left(1\right) \left($

leverage analytics.

Water and Wastewater

Water and wastewater is a key city responsibility area including potable water, stormwater management, and wastewater treatment.

KR: Water and wastewater is a key city responsibility area including potable water, stormwater management, and wastewater treatment. For more on the application of smart cities technologies to water and wastewater, **look here**.

What is the Applicant's biggest challenge around water and wastewater? [5 Points] *

Applicants should be able to briefly and clearly discuss the current pain points and challenges around water and wastewater. (1,500 character limit)

KR: Applicants should measure current performance to understand where deficiencies are. Learn how to **use standards** to conduct that assessment accurately.

(1,500 character limit)

How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's transportation systems? [10 points] *

Applicants need to demonstrate approaches to deploying smart technologies to water and wastewater that support their existing plans and strategies around water and wastewater. Applicants should also discuss innovative financing and business models that will support long-term project viability and scaling. (3,000 character limit)

KR: This should include explicitly addressing **livability** (e.g. quality of life, ease of accessing services, citizen engagement), **workability** (economic competitiveness), **sustainability** (e.g. high levels of carbon reduction, watershed health, water quality), and resilience (e.g. increasing ability to anticipate floods or droughts.)

(3,000 character limit)

How will the Applicant deploy smart technologies in water and wastewater in a way that helps vulnerable or marginalized people or neighborhoods? [5 points] *

Smart technologies should help enhance social equity, close the digital divide, and provide a more inclusive city. (3,000 character limit)

KR: Optimize water systems to ensure they are available for all. To learn how, **look** here.

(3,000 character limit)

around the 7 key technology enablers for water and wastewater. The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer.

How would the Applicant characterize implementation progress for these items in Water and Wastewater:

these items in water and wastewater:
Instrumentation & Control *
KR: A smart water network uses sensors to capture data on the condition of the water and the equipment. These devices are installed in both traditional and non-traditional segments of the watershed – from the pipes and pumps to green water systems in gardens or rooftops that collect storm runoff or grey water. Follow the Instrumention & Control link for more information.
○ Complete ○ Over 50% ○ Partial ○ None
Connectivity *
KR: Most cities should not build a communications network just for smart water purposes. Instead, they should seek to piggyback on an existing network. Or share costs with other departments to build a system they all can use. For instance, in Tianjin China, a single communications network carries the signals for smart meters of several different kinds. Follow the Connectivity link for more information.
○ Complete ○ Over 50% ○ Partial ○ None
Interoperability *
KR: Hydrologic data collections and sensor feeds are notoriously non-interoperable. Use open standards such as the new OGC WaterML 2.0 Encoding Standard to quickly understand and compare diverse collections of data and share them between computer models.
○ Complete ○ Over 50% ○ Partial ○ None
Security & Privacy *
KR: The security and privacy concerns that apply to other city infrastructures are equally important for water and wastewater systems. Having strong cybersecurity measures in place are essential. Follow the Security & Privacy link for more information.
○ Complete ○ Over 50% ○ Partial ○ None
Data Management *
KR: Cities may not own their own municipal water utility, but they will want to have access to overall usage data provided by the local utility. It's important to ensure that the data conforms to the citywide data management policy, even if it originated elsewhere. Cities will also want to encourage utilities to grant water customers access to their own consumption data so they can see hour-by-hour how, when and where they use water. Follow the Data management link for more information.
○ Complete ○ Over 50% ○ Partial ○ None

records and boolearn how.	osts resiliency of l	ey assets. Fo	ollow the Computing Resources link to
○ Complete	Over 50%	○ Partial	○None
Analytics *			
across a waters and promote su leak manageme and combining	hed. Such insight istainability. A sm ent process. By an it with weather da	is essential fo art water net alyzing the da ata, cities can	mplete view of what's happening or cities that want to "close the loop" work can automate many parts of the ata from a smart water infrastructure predict problems, such as areas r more information.
○ Complete	Over 50%	○ Partial	○None
design for a circ	-	r more on the	oility area including recycling and e application of smart cities
Points] *			e around waste management? [5 discuss the current pain points and
challenges aroun	d waste manager	nent. (1,500 c	character limit)
design for a circ		ok here to le	oility area and includes recycling and arn how to apply smart cities
(1,500 character	limit)		

How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's waste management systems? [10 points] *

Applicants need to demonstrate approaches to deploying smart technologies to waste management that support their existing plans and strategies around waste management. Applicants should also discuss innovative financing and business models that will support long-term project viability and scaling. (3,000 character limit)

KR: This should include explicitly addressing **livability** (e.g. quality of life, ease of accessing services, citizen engagement), **workability** (economic competitiveness), **sustainability** (e.g. high levels of carbon reduction, increased recycling levels, design for a circular economy where products are designed to be disassembled and

esponsibility area in a way that helps vulnerable or marginalized people r neighborhoods? [5 points] * mart technologies should help enhance social equity, close the digital divide, and rovide a more inclusive city. (3,000 character limit) KR: A smart city is also a "compassionate city". Applicants can find important resources to answer this question here. 3,000 character limit) This group of questions allows the Applicant to assess its own state of progress around the 7 key technology enablers for waste management. The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer. Now would the Applicant characterize implementation progress for hese items in Waste Management: KR: New types of instrumentation are gaining traction in the waste management world. RFID tags embedded in recycling bins help identify the types of refuse generated by citizens and help track customer participation in sorting programs. Sensors are also becoming key components in waste processing. Scanners and optical sensors at material recovery facilities enable efficient recyclables sorting. Follow the Instrumention & Control link for more information. Complete Over 50% Partial None KR: Data collected by waste technology sensors requires transmission to servers or web services for storage, viewing, monitoring and analysis. Learn why communications are essential in new waste technologies and how to connect devices for citywide, multi-service communications. Complete Over 50% Partial None Complete Over 50% Partial None MKR: Interoperability is an important technology enabler for waste management. Follow the Interoperability link for more information.	
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Follow the Interoperability link for more information.	nteroperability *
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Data Management	*		
KR: Data managemer Follow the Data Man			ogy enabler for waste management.
○ Complete ○ C	Over 50%	○ Partial	○ None
Computing Resour	ces *		
house computing cap	oabilities. Lea o their applica	rn how <mark>solut</mark> i ations via wel	equire that cities expand their in- ion vendors may also help waste b services or APIs, eliminating the
○ Complete ○ C	Over 50%	○ Partial	○ None
Analytics *			
	data analytic	s for optimizi	rs and GPS data, cities now have the ng waste collection, recycling and more information.
○ Complete ○ C	Over 50%	○ Partial	○None
Health and Hu Health and Human healthcare, education	Services are	e a key city	responsibility area including f human services.
healthcare, education	n, and a wide	range of hun	esponsibility area including nan services. For more on the th and human services, look here.
services? [5 Points] Applicants should be a challenges around hea	* ble to briefly lth and huma	and clearly d	
· ·			n and other human services. Please chnologies to meeting those critical
(1,500 character limit)			

How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's health and human services? [10 points] *

rk: This should include explicitly addressing iivability (e.g. quality of life, ease of	ı
accessing services, citizen engagement), workability (economic competitiveness sustainability (e.g. air quality, access to parks), and resilience (e.g. increasing abito respond to short-term shocks and long-term transformation.)	5),
2 000 oborostor limit	
3,000 character limit)	
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low will the Applicant deploy smart technologies in the health and uman services in a way that helps vulnerable or marginalized peop eighborhoods? [5 points] *	le or
mart technologies should help enhance social equity, close the digital divide, and rovide a more inclusive city. (3,000 character limit)	d
KR: A smart city is also a "compassionate city." Get ideas and inspiration for mak your city more compassionate.	king
3,000 character limit)	
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This group of questions allows the Applicant to assess its own state of progress	
around the 7 key technology enablers for health and human services. The	
Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer.	
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low would the Applicant characterize implementation progress for hese items in Health and Human Services:	
actrumentation & Control *	
nstrumentation & Control *	
KR: Implement optimal devices and other instrumentation for each human servi	ice.
KR: Implement optimal devices and other instrumentation for each human servi Implementing the right data-capturing devices across all of a city's health and	ice.
KR: Implement optimal devices and other instrumentation for each human servi	ice.
KR: Implement optimal devices and other instrumentation for each human servi Implementing the right data-capturing devices across all of a city's health and human services responsibility areas is the objective here. Given the new and	ice.
KR: Implement optimal devices and other instrumentation for each human servi Implementing the right data-capturing devices across all of a city's health and human services responsibility areas is the objective here. Given the new and different types of services involved, different kinds of instrumentation will be	ice.
KR: Implement optimal devices and other instrumentation for each human servi Implementing the right data-capturing devices across all of a city's health and human services responsibility areas is the objective here. Given the new and different types of services involved, different kinds of instrumentation will be required. Learn how to optimize instrumention and control.	ice.
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KR: Implement optimal devices and other instrumentation for each human servi Implementing the right data-capturing devices across all of a city's health and human services responsibility areas is the objective here. Given the new and different types of services involved, different kinds of instrumentation will be required. Learn how to optimize instrumention and control. Complete Over 50% Partial None Connectivity* KR: One key to improving public health outcomes is smart devices deployed aro cities for public health data-capture and connected to a citywide communication	und ns ate a

○ Complete ○ Over 50% ○ Partial ○ None

are still emerging, and cities have a stake in their outcome. Learn how you can use standards to assess your implementation progress.
○ Complete ○ Over 50% ○ Partial ○ None
Security & Privacy *
KR: While technologies give us new products and services they also raise privacy concerns, particularly in the healthcare field. Citizens need to be able to trust that their personal information is protected and private. Learn more about how your cit can ensure the security of personal data.
○ Complete ○ Over 50% ○ Partial ○ None
Data Management *
KR: Create and adhere to a citywide data management, transparency and sharing policy. Again, due to the sensitive nature of data involving health and human services, it goes without saying that a policy needs to be very explicit about who owns which data sets, who has access, how it can be shared and when it should no be shared. Follow the Data Management link for more information.
○ Complete ○ Over 50% ○ Partial ○ None
Computing Resources *
KR: Cloud computing has become more affordable and more prevalent. Smart cities of all sizes may see advantages in the cloud's scalability, reliability and cost. But before uploading personally identifiable health and human services data to the cloud, steps must be taken to "de-identify" it. Find out how to add safeguarding sensitive information to your healthcare planning.
○ Complete ○ Over 50% ○ Partial ○ None
Analytics *
KR: Smart cities use monitoring devices to take the pulse of the city and its people. Situational awareness aids that effort by increasing the reliability and resiliency of the public health infrastructure and those monitoring devices, allowing for quick response to incidents that threaten public health and well-being. Follow the Analytics link for more information.
○ Complete ○ Over 50% ○ Partial ○ None

Public Safety

Public Safety is a key city responsibility area including policing and emergency response.

KR: Public Safety is a key city responsibility area including policing and emergency response. For more on the application of smart cities technologies to public safety, **look here**.

challenges around public safety. (1,500 character limit) KR: To prepare for this question, you will want to learn the four ways data and intelligence improve public safety in smart cities. (1,500 character limit) How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's public safety? [10 points] * Applicants need to demonstrate approaches to deploying smart technologies to public safety that support their existing plans and strategies around public safety. Applicants should also discuss innovative financing and business models that will support longterm project viability and scaling. (3,000 character limit) KR: This should include explicitly addressing livability (e.g. quality of life, ease of accessing services, citizen engagement), workability (economic competitiveness), sustainability (e.g. high levels of carbon reduction, air quality), and resilience (e.g. increasing ability to respond to short-term shocks and long-term transformation.) (3,000 character limit) How will the Applicant deploy smart technologies in the public safety area in a way that helps vulnerable or marginalized people or neighborhoods? [5 points] * Applicants need to demonstrate their commitment to smart technologies that help create compassionate cities. Smart technologies should help enhance social equity, close the digital divide, and provide a more inclusive city. (3,000 character limit) KR: A smart city is also a "compassionate city". Applicants can find important resources to answer this question here. (3,000 character limit)

Applicants should be able to briefly and clearly discuss the current pain points and

How would the Applicant characterize implementation progress for these items in Public Safety:

any particular answer.

This group of questions allows the Applicant to assess its own state of progress around the 7 key technology enablers for public safety. The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for

	video feeds that o		data to storage. Follow the ation.
○ Complete	Over 50%	○ Partial	○ None
onnectivity *			
two-way commi that loops in all	unication is essen	itial. Learn wh	ty wants in its public safety system – ly a citywide communications system databases and ICT systems that have a
○ Complete	Over 50%	○ Partial	○ None
nteroperabilit	:y *		
data and helps a standards in the increase the cho	generate integrate e procurement of	ed intelligence public safety them and dec	y because it opens up the world of e. Additionally, by requiring open systems and equipment, cities crease costs. Follow the
○ Complete	Over 50%	○ Partial	○ None
ecurity & Priv	acy *		
day work that p	ublic safety is res _l	ponsible for. I	acy red flags in much of the day-to- Learn why it is so important to s with a comprehensive privacy
○ Complete	Over 50%	○ Partial	○ None
ata Managen	nent *		
with the data the	ecessary duplication	leviates confu on and reduce	hat city departments can and can't do sion, improves data accuracy, es the likelihood of privacy or security or more information.
○ Complete	Over 50%	○ Partial	○ None
omputing Re	sources *		
sensitive situati decision-makin	ons makes GIS cri g capabilities, en	itically import able efficienc	ing able to act decisively in time- ant. Learn how GIS can improve y gains through more intelligent ssential records and boost key asset
○ Complete	Over 50%	○ Partial	○ None
nalytics *			
KR: Full situatio	cident response a	and managem	allocate their resources more nent. And they can simulate, for steps to mitigate some of the likely

Smart Payments and Finance

Smart payments and finance are a key city responsibility area including efficient on-line government services and payment transactions.

KR: Smart payments and finance are a key city responsibility area including efficient on-line government services and payment transactions. For more on the application of smart cities technologies to payments and finace, **look here**.

What is the Applicant's biggest challenge around smart payments and finance? [5 Points] *

Applicants should be able to briefly and clearly discuss the current pain points and challenges around smart payments and finance. (1,500 character limit)

KR: Citizens expect convenient, efficient payment systems and access to online government services. Click the link for guidance on how to provide **smart payments** and related services.

(1,500 character limit)

How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's smart payments and finance? [10 points] *

Applicants need to demonstrate approaches to deploying smart technologies to smart payments and finance that support their existing plans and strategies around smart payments and finance. Applicants should also discuss innovative financing and business models that will support long-term project viability and scaling. (3,000 character limit)

KR: This should include explicitly addressing **livability** (e.g. quality of life, ease of accessing services, citizen engagement), **workability** (economic competitiveness), **sustainability** (e.g. high levels of carbon reduction, air quality), and resilience (e.g. increasing ability to respond to short-term shocks and long-term transformation.)

(3,000 character limit)

How will the Applicant deploy smart technologies in the smart payments and finance area in a way that helps vulnerable or marginalized people or neighborhoods? [5 points] *

Smart technologies should help enhance social equity, close the digital divide, and provide a more inclusive city. (3,000 character limit)

This group of questions allows the Applicant to assess its own state of progress around the 7 key technology enablers for smart payments and finance. The Readiness Program will be tailored to the Applicant's current maturity level, and points are not awarded for any particular answer. How would the Applicant characterize implementation progress for these items in Smart Payments and Finance: Instrumentation & Control * KR: Parking meters, ATMs, utility meters, vending machines and point-of-sale terminals are increasingly used to make payments. Acceptance networks must adapt to emerging payment methods, such as contactless cards and phones, as well as electronic wallets. Follow the Instrumention & Control link for more information. ○ Complete ○ Over 50% ○ Partial ○ None Connectivity * KR: Connectivity and telecommunications are crucial for the development of smarter financial systems. Follow the link to learn how to keep them safe and secure. ○ Complete ○ Over 50% ○ Partial ○ None Interoperability * KR: Adopting open standards has significant advantages. It ensures fast and broad participation, minimizes risk and drives procurement efficiency (via greater choice and lower prices). It also encourages participation by foreign consumers, tourists and business travelers. Learn how standards can also help you chart your implementation progress. ○ Complete ○ Over 50% ○ Partial ○ None Security & Privacy * KR: A key goal of a payment system – smart or otherwise – is to enforce trust between participants. Similarly, a city gathers significant amounts of financial data from citizens and businesses when they apply for permits, licenses and other services. Cities should publish and enforce clear rules on privacy that apply equally to financial data. Follow the Security & Privacy link for more information. ○ Complete ○ Over 50% ○ Partial ○ None Data Management *

KR: Given the sensitivity of financial data, we want to emphasize the importance of a citywide policy for how data is governed, stored and made accessible. Best practices call for a clear governance directive that establishes the chain of authority and control over data assets and spells out who makes access decisions and who

LCD ANGEL I	sources *		
involve large vol	umes of data. True	e value can b	ctions globally every year, payments be derived from payment systems if ng Resources link for more
○ Complete	○ Over 50%	○ Partial	○ None
Analytics *			
	n also inform and		e a significant positive impact on local ernment policies. Follow the Analytics
○ Complete	○ Over 50%	○ Partial	○None
-	Responsibili	ty Area	
including food, Applicants may three sectors.	advanced manu specify an "Oth ner city respons	ufacturing, er City Res	t city responsibility areas ecosystem health, and others. ponsibility Area" as one of their Applicant will address? *
including food, Applicants may three sectors. What is the oth	advanced manu specify an "Oth ner city respons	ufacturing, er City Res	ecosystem health, and others. ponsibility Area" as one of their

How will the Applicant deploy smart technologies to accelerate the livability, workability, sustainability and resilience of Applicant's other city responsibility area? [10 points] *

Applicants need to demonstrate approaches to deploying smart technologies to the other key theme that support their existing plans and strategies around the other key theme. Applicants should also discuss innovative financing and business models that will support long-term project viability and scaling. (3,000 character limit)

KR: This should include explicitly addressing **livability** (e.g. quality of life, ease of

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esponsibility		hat helps vi	nnologies in the other city ulnerable or marginalized people
mart technologi		nhance social	equity, close the digital divide, and mit)
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around the 7 ke Readiness Prog points are not a How would the hese items in	ey technology ena ram will be tailore warded for any p	blers for othe ed to the Appl articular ansv	nplementation progress for
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Connectivity *			
KR: Follow the	Connectivity link	for more infor	mation.
○ Complete	○ Over 50%	○ Partial	○None
nteroperabilit	:y * 		
KR: Follow the I	nteroperability li	nk for more ir	nformation.
	○ Over 50%	○ Partial	∩ None
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Security & Priv		/ link for more	

Computing Re	sources *		
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○ Complete	○ Over 50%	○ Partial	○ None
Analytics *			
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			re completing this application. d before you move to next page.
ricias markea	Willia Mases	oc complete	a before you move to next page.
<i>c c</i>			
	rm that Applica e for this appli		l and agrees to the privacy policy
			de experts with deep knowledge of
			rovide you with custom advisory are limited information about your
priorities and wo	rk-to-date with su	uch third parti	es to maximize the effectiveness of our
	d your specific go	als.	
○ Yes, I agree			
	a letter from t g support. [4 p		Office or City Manager's Office
			ort and tie to other Applicant initiatives
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			by clicking here . (Word Doc)
Files must be less	s than 32 MB .		
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Can you confi	rm that Applica	ant agrees t	o have the Readiness Event
			ort Cities Council? *
		-	part Cities Council Readiness Guide and
irs himribies of II	vability, WUI KdDIII	ity, ariu SuStdl	nability. The Council is also committed

Can you certify that the Application is complete in all respects and ready for submission? *

○ Yes - We will adhere to the core principles of the Smart Cities Council.

to enhancing resiliency and supporting inclusive, compassionate cities.

Yes must be selected for the application to be formally submitted with no possibility of making changes. Please submit several days before the deadline if possible to avoid

submission.

Are you authorized to submit this application on behalf of the Applicant?

○ Yes - I am authorized to submit this application.

If you are not ready to submit this application you can press [Save Draft]. Then you can come back at anytime and update this application before the deadline of Novemeber 10th, 2017 11:59PM Pacific Time. You application is not submitted for consideration until you press the [SUBMIT] button located on this page.

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