



2019 Smart Cities Council Readiness Challenge

Submission deadline: February 15th, 2019 08:00

City of Racine





Section: Welcome, Instructions and Help

Introduction

Welcome to the 2019 Smart Cities Readiness Challenge application.

The challenge is open to North American cities, towns, regions, states, transportation authorities, utility-city and university-city collaborations, and even innovation districts and smart developments.

By applying, you are taking an important step towards a more livable, workable, sustainable future. First, you will be answering the questions every community should ask itself before it embarks on a smart cities journey. Second, your information will now be more valuable to you because it will be stored in the Smart Cities Project Activator, a collaborative tool that will help you strengthen your plans and align stakeholders.

This application stores your information as you go along. Using your login and password, you can come and go as many times as needed. Your application isn't final until you submit it. Once you do hit Submit, you can still return to this site as often as you like to review and download your information.

Important Note: Not all questions will count towards your final score. Some of the requested information is simply to give the judges context so they can understand how your plans fit into your community's long-term needs and aspirations. The application clearly notes which sections are for judging and which are simply for context.

Please read the Instructions for more information on how the Readiness Challenge is scored. As you will read, you will not be judged on your past accomplishments or current state of "readiness." Rather, you will be scored on the quality of your future plans and projects you wish to undertake.

Use the arrows at the top of the page and the [next] and [back] buttons at the bottom of the page to navigate to the different pages of the section.

I have read the introduction.

☒ Yes

Benefits of the Readiness Challenge

At least five applicants will be named 2019 Smart Cities Council Readiness Challenge Winners. They will receive a full year of hands-on mentoring, outcome-oriented stakeholder workshops, smart city roadmap support, and help scoping projects and accessing financing or funding through the Smart Cities Council and our partner network.

In reality, however, everyone wins. Just the process of applying for the Smart Cities Readiness Challenge will help you advance your smart city program and attract expertise and financing for your projects. The application process is designed to help you strengthen stakeholder ecosystems, build consensus and more clearly define your initiatives.

And even after submitting your application, you can use the Smart Cities Project Activator free through December 2019. This online tool for gathering, storing, organizing, analyzing, managing, and (optionally) sharing data about smart city projects, will help sustain and grow the momentum gained through your application process. We will be unlocking additional Activator features and providing associated training in the weeks ahead.

Benefits and Features of the Smart Cities Project Activator



The Smart Cities Project Activator is a powerful new tool delivered through an online portal that helps communities like yours reach consensus faster, scope projects quickly and, in the future, identify financing and funding options. And, as part of the Smart Cities Council's proven Readiness Program, it helps you develop truly cross-cutting solutions that deliver lasting benefits across your community. People from across your community can work together in a shared software environment that allows you to improve program collaboration and analysis.

With web-based visual models and dashboards using principles developed in the Council's Readiness Program, you can see the impacts and dependencies across departments and stakeholder groups. These different groups can work together, seeing the results of their shared decisions in real-time, driving consensus up to 30% faster and developing stronger, more cross-cutting solutions.

Use other Activator templates to define your smart cities vision and goals, outline new business models and revenue streams, and create project blueprints. You can even expand the collaboration beyond your community to see what other cities are working on or access advice from industry or financing experts.

Getting Started

Watch this video to get overall help in understanding how the application works.

Click the small box in the bottom right of the video to watch in full screen mode.

You can click the gear in the same area and watch the video in 1080p for best resolution.

Instructions

Key Dates:

- October 18, 2018: Application goes live.
- February 15, 2019: Application closes.
- Early March: Finalist announcement
- Mid-Late March: Finalist interviews
- April 16: Winner announcement at Smart Cities Week San Diego
- May – December 2019: Readiness Workshops in the winning cities.

How to proceed. You may proceed through the application in any order. You can bring in other people to help you answer and review your work. Your work will be saved as you go along. You may leave questions blank and return to them later. You may skip questions altogether – there is no requirement to answer every question to enter or to win. However, the more questions you answer, the greater your scoring opportunities.

Scoring

Entries will be judged on the following criteria:

Impact: The Applicant's projects will provide significant benefits to a large group of people. If the project is a pilot, the Applicant has demonstrated how it can later be scaled and replicated.

Cross-cutting and collaborative: The Applicant has involved multiple city departments and is looking for synergistic ways to share infrastructure and costs. And the Applicant has built a strong process for engaging external stakeholders.

Inclusiveness: The Applicant is making a bona-fide effort to reach vulnerable and underserved populations and to use technology as a force for social good.

Sustainable: The Applicant's projects incorporate the principles of environmental, economic, and social sustainability.

Extra credit opportunities. You have many ways to increase your total score, such as completing unrequired questions that have scores. For instance, you can receive extra points by supplying letters of support, as explained at the end of this application.



☒ Yes

I have read the instructions

☒ Yes

I have read the Benefits and Features of the Smart Cities Project Activator

☒ Yes

I have read the Benefits of the Readiness Challenge

☒ Yes

Make Your Answers Better

Watch this video to learn how to understand the questions and improve your answers.
Click the small box in the bottom right of the video to watch in full screen mode.
You can click the gear in the same area and watch the video in 1080p for best resolution.

I have watched the Make Your Answers Better Video

☒ Yes

Administration: Users and Your Organization

If you are the Administrator of your account watching this video will help you learn how to invite people to your account and how to update your organization's profile and upload a logo.

Click the small box in the bottom right of the video to watch in full screen mode.
You can click the gear in the same area and watch the video in 1080p for best resolution.



Section: Information and Communications Technology (ICT)

ICT Section Instructions

- This section will **NOT** be scored, but it will provide important context for the judges about your use of enabling smart city technologies and associated processes.
- Questions labeled with a red * are required questions.
- Use the arrows at the top of the page and the [next] and [back] buttons at the bottom of the page to navigate to the different pages of the section.

How many employees are responsible for Information and Communications Technology (ICT)?

- 0
- 1 to 4
- 5 to 9
- ☒ 10 to 19
- 20+

KR: Information and communications technology (ICT) enable cities to deliver on their smart city promises.

ICT enables a smart city to provide its citizens with a livable, workable and sustainable environment to live in. A smart city collects information about itself through sensors, other devices and existing systems. Next, it communicates that data using wired or wireless networks. Then it analyzes that data to understand what's happening now and what's likely to happen next.

How will you implement new technologies so they can be shared with multiple departments and agencies?

Central to the City of

Racine's ability to share data across multiple departments is its use of Cityworks, a software application specifically designed for municipalities and utilities. Cityworks is a robust platform fully integrated with ESRI's ArcGIS with application, which not only allows individual departments to track public assets, but also work flows—from inspections and permitting to maintenance. In addition to serving as the central platform for data collection and sharing, Cityworks offers functionality to analyze data from an individual department as well as cross-departmentally and gain spatial insights as part of the analysis. The City of Racine has adopted Cityworks, but is still in the stage of migrating data and certain departmental processes to the platform. Over time, as part of the Racine Smart City Initiative, the senior management team will begin using cross-departmental analysis to provide greater insights and inform more strategic decision-making. The City of Racine anticipates building on this foundation and gaining additional capacity by integrating an array of new technologies, including but not limited to: --integration of new forms of audio and video data --integration of mobile and remote data collection applications --expansion of its public infrastructure to support new low latency high-speed wireless networks In 2019, the City of Racine will expand its use of body cameras to 100% of its sworn officers. The City already has installed and operates over 250 Wi-Fi-enabled cameras in certain locations throughout the municipality's corporate limits. The City envisions greatly expanding its network of cameras as part of its effort to embrace autonomous vehicle transportation. All of these technologies will generate a substantial amount of new audio/visual data, which may be shared across departments for various purposes. As the City of Racine adopts 5G technology, public officials believe the network will support both mobile applications for staff in the field (e.g., multi-departmental inspections, health-related activities across the Fire and Health Departments, etc.) as well as remote applications in which cameras and/or sensors automatically report data to be shared and analyzed by various departments (e.g., grass/nuisance/dumping violations, etc.) It should be noted that there are strict guidelines under state statutes limiting how, and the degree to which, law enforcement and fire/emergency services may be shared. Notwithstanding, the City of Racine will explore more avenues for sharing data within the confines of those guidelines for the benefit of analyzing data and cross-departmental resource demands.

KR: Privacy policies encourage citizens to trust cities with their personal data.



Unless citizens know their personal data is safe they will be reluctant to share it, even if that data is a critical part of an improvement project. There are steps cities can take to secure the data they collect and reassure citizens that their privacy is protected. If a smart city project requires the collection of personal data, cities need to clearly demonstrate its value to the community.

Do you have an organization-wide privacy policy?

- ☒ Yes
☐ No

KR: A citywide data architecture is essential to optimize how your information is used.

Digital government solutions need data - data sources that are sometimes locked away, that don't talk to each other, or that are just being collected for the first time. Strong smart city leadership vision focuses on the possibilities of new data-driven solutions - or more importantly sees the missed opportunities of not using data - when looking to use innovative approaches to meet its community challenges.

Describe your progress in sharing data between departments or agencies.

The adoption of Cityworks has increased the ability to share within and across departments. Additionally, the City operates an Enterprise Resource Planning (ERP) system in use across departments. Of course, the City of Racine has a robust capacity to leverage ESRI's ArcGIS across departments and will continue to grow its use of cross-departmental geospatial analysis to make more informed and strategic decisions. Data sharing does not happen simply within city government, but across county and municipal governments in the Racine County area, given the adoption of ProPhoenix public safety software. This application integrates centralized dispatch with the operations of the Racine County Sheriff's Office, City of Racine Police Department, and other law enforcement agencies in the area.

Do you have islands of data to be integrated?

- ☒ Yes
☐ No

Describe the data that you would like to integrate.

The City of Racine collects and stores a substantial amount across its departments. However, it is the integration of those data that would provide the municipality's elected and administrative leadership a more comprehensive understanding of challenges and trends and offer a more robust basis for strategic decision-making. There are a wide variety of data the City of Racine would like to integrate. Take, for instance, the fact that no fewer than four departments may conduct a building inspection, but the City has not yet mapped the data required for the various inspections each of the four departments conducts. Integrating building inspections data would allow departments to access overlapping data already collected recently by fellow local government officials, reducing redundancy, saving expenses, and making the process more efficient for the public. A number of departments receive calls for neighborhood-based services, from the Racine Police and Fire Departments to the Departments of Building Inspection/Code Enforcement Division, Health, Public Works, and City Development. While the specifics of police- and fire-related calls may have to be segregated, the City of Racine has not yet analyzed cross-departmental data to understand the most frequent blocks generating those service requests. Integrating those data could lead to innovative approaches to learn the basis for high utilization and potentially coordinated service teams to address needs more effectively. The more that the City of Racine explores case studies and researches more about Smart Cities initiatives, the clearer possibilities become. One of the reasons the City of Racine is eager to be awarded the Smart Cities Council Readiness Challenge grant is to obtain the technical assistance and exposure that would be offered as a result. Undoubtedly, local government officials, residents, and businesses would benefit from the Council's assistance in imagining many more potential areas that would benefit from data integration.

KR: Smart cities are built on connected, multi-faceted telecommunications networks.

5G will create the crucial communications links needed to connect billions of smart devices to the massive Internet of Things to produce major productivity enhancements across industries and governments. 5G will also expand into a new area of mission-critical services that will require high reliability, ultra-low latency, strong security and availability.

Describe your progress in telecommunications.



Mention any relevant projects and plans, including, but not limited to, 5G, fiber, high-bandwidth internet, municipal WiFi and citywide connectivity.

All City of Racine traffic signals and street lights are equipped with municipal Wi-Fi. Over 250 city-operated cameras are controlled through that system of municipal Wi-Fi. Currently, the City of Racine has established 27.5 miles of fiber optic network. The City has budgeted to expand that network, and has developed a plan to install additional conduit and fiber to this public infrastructure as the Department of Public Works makes road repairs and improvements. The network also will be expanded to support one of the City's primary Smart City initiatives—autonomous vehicle transportation testing, operation, and evaluation. The City's fiber optic network will be integrated with small cells to enable low latency high-speed 5G wireless technology. The ultimate goal is to make this powerful new public infrastructure ubiquitous and establish communitywide connectivity. Municipal leaders are working closely with its technology and higher education partners, including Foxconn Technology Group-FEWI Development Corporation (hereinafter referred to as Foxconn Technology Group)—the world's fourth largest technology company, University of Wisconsin-Madison College of Engineering—a leader in autonomous vehicle research and development, and Gateway Technical College—the nation's first publicly funded institution for technical education, to define hardware needed and mitigate potential risks such as technological obsolescence.

KR: A top-level citywide IT architecture is critical to consolidating data assets.

Smart cities must set up an open, citywide, service-oriented strategic IT platform where "open" means easy innovation and evolution and "service-oriented" means convenient replicability and scalability. City partners and suppliers are then able to develop a multi-level competitive landscape and ecosystem that covers the platform, service and application layers. - and better enables data and resource sharing.

Describe your progress towards an open integration (web services) architecture and API management.

The City of Racine is making steady progress in this area, integrating multiple new technologies and making increasing use of existing platforms. For instance, the City of Racine has adopted CitySourced, which it will roll out to the public in 2019. CitySourced is a citizen engagement mobile application allowing residents to contact the City about a number of service needs, from garbage collection to code enforcement issues. The Racine Water Utility is currently working with the private sector to launch a mobile application that will allow residential and corporate customers to access data regarding their water usage. Likewise, Cityworks, which was mentioned earlier, acts a system of record and provides an ability to manage and schedule a wide range of city services. Even as the City of Racine makes progress in this area, it recognizes the enormous benefit that Smart Cities Council technical assistance and advice could provide.



Section: Governance

Governance Section Instructions

- Governance is all about the people, processes, policies and structures that are critical to the success of your smart city program.
- This section will be scored. If you look at each question you will see a number in the top right corner of the question if there is a point value for that question.
- Questions labeled with a red * are required questions.
- Use the arrows at the top of the page and the [next] and [back] buttons at the bottom of the page to navigate to the different pages of the section.

KR: Develop a disciplined, integrated procurement plan.

A city's procurement plan for smart city technologies should include a disciplined business case that identifies and quantifies costs and benefits over the project lifetime. Secondly, all city departments need to be integrated in the procurement plan to ensure economies of scale, best practices, elimination of redundant purchases and interoperability.

How long does it typically take to complete a project from identification through procurement?

[1 Points]

Please select one item from the list.

- ☒ Less than 2 years
- 2-4 years
- More than 4 years

KR: Sustainability: a key component of the smart cities mission.

Cities today face numerous serious challenges. Among them are steadily increasing populations, growing stress, aging and inadequate infrastructure, climate change and environmental challenges, growing economic competition between cities and more. Smart cities undertake solutions to those challenges that ensure a sustainable future for their citizens.

Does your organization have a senior decision maker (or a group) accountable for developing and monitoring sustainability initiatives?

[2 Points]

- ☒ Yes
- ☐ No

Has your organization received any certifications or awards over the past two years?

[5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ We have received no awards
- ☐ Arts and culture
- ☐ Buildings City services
- ☐ Community needs
- ☐ Cybersecurity
- ☒ Economic development
- ☒ Education Energy



- ☒ Emergency response
- ☐ Environmental Health
- ☐ General (e.g. most livable, top 10 listings)
- ☐ Human services
- ☐ Privacy
- ☒ Public safety
- ☐ Social impact
- ☐ Technology (including telecommunications)
- ☒ Transportation
- ☐ Waste management
- ☒ Water
- ☐ Other

Does your organization have a dedicated role, such as a Chief Innovation Officer, to direct your smart cities efforts?

[5 Points]

☐ No

☒ Yes

KR: Assess your city's performance.

There are a number of standards development organizations that offer a variety of models and techniques for measuring how well cities are performing. Those measurements can provide valuable insights into a city's performance - and keep it on track to meet its targets.

Have you performed any formal assessments or evaluations in the past three years?

[3 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☐ Citizen satisfaction or well-being
- ☒ Community needs
- ☐ Cybersecurity
- ☐ Energy efficiency
- ☐ Environmental impact
- ☒ Health impact
- ☐ Human rights
- ☐ Information and communications technology
- ☐ Privacy
- ☐ Resilience
- ☒ Safety
- ☐ Social impact
- ☐ Staff productivity/efficiency
- ☒ Transportation/urban mobility

Do you use agile methodologies for rapid planning, prototyping, and delivery of key initiatives?

[5 Points]

☐ Yes

☐ No

KR: The first step to becoming a smart city: an organization-wide plan.



Call it a master plan, a framework or a roadmap. The first steps cities should take to become smart cities is to take a high-level view of what they hope to accomplish and how. An organization-wide smart city plan backed up with policies and targets and supported by engaged citizens is central to the success of a city's transformation.

Do you have an organization-wide smart cities framework, plan or set of policies?

[5 Points]

- ☒ Yes
☐ No

Does your organization have a senior decision maker (or group) responsible for resilience issues?

[1 Points]

- ☒ Yes
☐ No

Please select any of the following vehicles you use to gather feedback from the community.

[2 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☒ Canvassing
☒ Participating in community groups
☒ Public meetings
☒ Social media
☒ Task forces
☐ Telephone outreach
☒ Web portal

KR: Policies help shape (and reinforce) cities' smart city visions.

Smart city transformations are complex and it can be easy to get distracted from goals by the minutiae of daily operations and responsibilities. Dedicated policy makers create guidelines that help clarify and reinforce those goals and ensure that decisions, strategies and projects are in line with smart city visions.

Does the City Council (or similar) have an individual or committee designated for smart city topics?

[5 Points]

- ☒ Yes
☐ No

KR: Resilience must be built into smart city master plans.

Extreme weather, seasonal and man-made events and other forces put cities at risk for loss of life, severe economic disruption and infrastructure damage. Energy network resilience is not the only solution cities have at their disposal to mitigate losses and accelerate recovery. However, a resilient energy network is the critical resource cities must have in place to enable responsive, effective loss mitigation and recovery.

Does your organization periodically assess the vulnerability of its assets and infrastructure?

[2 Points]

Answer yes if you have assessed your vulnerability to environmental and social shocks and stressors, including historical hazards, natural disasters, man-made disruptions and climate change.

- ☒ Yes
☐ No

Have you executed (signed) public-private partnerships in the past?

[1 Points]



- ☐ Yes
☐ No

Does your organization have clear, specific, publicly available sustainability objectives?

[2 Points]

- ☐ Yes
☐ No

KR: KPIs and metrics are critical for tracking city performance.

A smart city tracks its successes and failures with key performance indicators and other metrics to determine if it is serving its citizens well and to identify when course corrections are necessary. Technology can help city governments become more "self-aware." However, KPIs and metrics help them understand how they are performing from their citizens' perspective.

Do you have quantitative metrics or key performance indicators in place?

[4 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☐ Citizen satisfaction or well-being
- ☒ Community needs
- ☐ Cybersecurity
- ☐ Energy efficiency
- ☐ Environmental impact
- ☒ Health impact
- ☐ Human rights
- ☐ Information and communications technology
- ☐ Privacy
- ☐ Resilience
- ☒ Safety
- ☐ Social impact
- ☐ Staff productivity/efficiency
- ☐ Stakeholder engagement
- ☒ Transportation/urban mobility

What type of staffing do you have to support your smart cities ambitions?

[5 Points]

- No defined resources
- Ad hoc teams
- Dedicated program office
- Contingent staffing
- ☒ Cross-functional team

Briefly describe key elements or principles of the plan. You can also upload your plan below.

[3 Points]

While there is much more planning ahead, the City of Racine recently established the Office of Innovation and is developing a framework for the Racine Smart City Plan. The City's planning is being drafted to include: --Smart City Vision Statement & Principles...The section will review the City's overarching vision, rationale, and foundational principles upon which the Racine Smart City Initiative is based, such as equity and inclusion, sustainability, livability, and workability. --Current City of Racine Challenges & Smart City Initiatives...The section will provide an overview of current community challenges which the Racine Smart City Initiative seeks to address. The section will serve as a baseline for related social and economic conditions of concern as well as opportunities. Additionally, the section will outline current Smart City projects,



associated timelines for implementation, milestones, budget, and parties responsible for activities, oversight, and evaluation. --Transformational Change Strategy through: -----Stakeholder Engagement...The section will articulate the City's strategy for engaging a diverse cross-section of the community and sustaining inclusive engagement to continue deepening Racine's Smart Cities movement over time. -----Multi-disciplinary Planning...The section will outline how the City and its partner will approach planning from a multi-disciplinary perspective, and how these efforts will be institutionalized within local government and beyond. -----Cross-Systems Implementation...The section will describe the implementation strategies the City and its partners will adopt to launch and maintain Smart Cities initiatives over time. -----Benchmarking & Evaluation...This section will identify the types of statistical data regarding the City of Racine and comparable communities to be collected and reviewed. Additionally, it will delineate evaluation processes the Racine Smart City Initiative will utilize in determining progress, effectiveness, and overall success. --Planning to Protect Privacy...This section will detail the City's privacy policy and protections for residents and corporate citizens. The City of Racine believes the plan must be a living document, and would appreciate Smart Cities Council mentorship and technical assistance in developing an actionable, strengths-based Smart City Plan.

KR: Innovate and collaborate on social issues.

Urban social issues, from homelessness to vulnerable populations, can be difficult to resolve because they can be controversial and further complicated by legal and regulatory requirements. Cities should consider recruiting local tech companies and universities to lend their expertise and resources to help develop policies for pressing social issues. Many have been willing to support city efforts to improve their city's livability.

Does your organization have policies on social issues?

[3 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Child labor
- ☒ Community development
- ☐ Citizen satisfaction
- ☒ Discrimination
- ☒ Employee engagement
- ☐ Forced or compulsory labor
- ☐ Freedom of association
- ☐ Gender and diversity
- ☒ Health and safety
- ☒ Labor standards and working conditions
- ☒ Underserved neighborhoods
- ☐ Vulnerable populations
- ☐ Overall well-being

Cross-Departmental Framework Plan

Please upload a copy of your plans if you have one. Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

What departments are represented on your cross-functional team?

[2 Points]

The following City of Racine offices, agencies, and departments are represented as part of its cross-functional team: --Office of the Mayor -- Office of the Innovation --Office of Communications --Office of Strategic Initiatives & Community Partnerships --Office of Sustainability & Conservation --Management Information Systems Department --Racine Police Department --Racine Fire Department --RYDE/Racine Public Transit --Department of City Development --Department of Public Works --Racine Water & Wastewater Utilities --Office of City Assessor -- Parks, Recreation & Cultural Services Department --Public Health Department --Finance, Budget & Purchasing Department --Building



Inspection Department --Office of City Attorney In addition to City of Racine offices, agencies, and departments, the following key partners also serve as a part of the cross-functional team: --Foxconn Technology Group, the world's fourth largest technology company --Gateway Technical College, America's first publicly funded technical college --University of Wisconsin System, including UW-Madison College of Engineering--a leader in autonomous vehicle applied research--and UW-Parkside, which has launched Smart Cities classes as well as an annual conference and talk series

Briefly describe your progress on those metrics or indicators.

[2 Points]

The City of Racine is on the move, and most of our metrics are moving in the right direction according to a number of metrics. Consider this: -- The number of property-related crimes (e.g., burglary, theft, motor vehicle theft, arson, etc.) in the City of Racine has fallen to a 52-year low -- Despite still having one of the highest unemployment rates (3.9%) in Wisconsin, the unemployment rate for the City of Racine declined more rapidly than in any other of the state's 32 largest cities when comparing 2017 to 2018 --While still unacceptably high, the percentage of City of Racine residents living at or below the federal poverty level has declined each year since 2013 Notwithstanding the progress, there are metrics that are pointing in the wrong direction, particularly in the area of transportation: --The City of Racine public transit system's annual revenue miles has declined by 15% since 2014, even as expenses increased As with so many municipalities, the City of Racine has cut year after year where it can. The city's new Mayor and a number of other city officials know it is time to find innovative ways to invest in the future of Racine, its people, and business community. This is one of the very real reasons why the Racine Smart City Initiative is so vitally important.

Do you have requirements (e.g. policies, guidelines) for public-private partnerships?

[1 Points]

☒ Yes

☐ No

KR: A disaster recovery plan and related metrics are essential.

A published plan for resilience and disaster recovery, one that includes metrics, enables cities to monitor and evaluate their preparedness and available assets over time is essential. It also provides a channel to engage and educate citizens in procedures to follow during emergencies, what the city's responses will be and which agencies to contact for specific services.

Does your organization have a published plan for resilience and disaster recovery, including objectives, strategies and metrics (such as key performance indicators)?

[2 Points]

☒ Yes

☐ No

KR: Use existing data to monitor sustainability.

In many instances cities already have the data they need to monitor the effectiveness of their sustainability efforts. For example, building energy management systems can significantly reduce energy and water use in a building as well as lower its greenhouse gas emissions - and those technologies collect data cities should be able to use to determine the effectiveness of their energy efficiency and related programs.

Does your organization have a published sustainability plan, including objectives, strategies and metrics (such as key performance indicators)?

[2 Points]

☒ Yes

☐ No

KR: Embrace creative partnerships.

Cities don't need to go it alone when embarking on smart city projects. Local businesses, academic institutions, utilities and others can provide expertise and other resources. It's usually in their best interests to do so.

Briefly describe your efforts to build capacity with your current staff, through outside assistance, or a combination of both.

[3 Points]

While the City of Racine



would greatly benefit from the resources of the Smart Cities Council, the City already has been building capacity rapidly through a series of internal strategies and leveraging partnerships with external resources. Those strategies have included: --City of Racine officials participated in a series of Smart Cities conferences ...ranging from those hosted by University of Wisconsin-Parkside to those hosted by the Smart Cities Council... to understand concepts, learn through case studies, and discuss the impacts/benefits of such initiatives --City of Racine, Racine County, and area business leaders organized and participated in a fact-finding visit to Kansas City...a leader in Smart Cities initiatives...during which the delegation received an overview of that municipality's Smart Cities initiatives; obtained sample documents and templates; gained "lessons learned" recommendations --The Mayor...visited Nanjing, China, and had the opportunity to see firsthand how that culture has launched and integrated Smart Cities initiatives --The City of Racine is working closely with Foxconn Technology Group, which is investing \$10 billion to build in the region the first-of-its-kind advanced manufacturing and research facilities; is opening an Innovation Center and other related facilities in the City's downtown; and has launched its own Smart Cities, Smart Futures Competition challenging the University of Wisconsin System and those associated with it to propose "smart" solutions using technology to improve the life of communities and sustainability --The City of Racine has partnered with the University of Wisconsin System, including UW-Madison College of Engineering...a leader in autonomous vehicle applied research and development...and UW-Parkside, which is offering Smart Cities classes, an annual conference, and talk series --The City of Racine has engaged Chelsea Collier, who founded Digi.City; has authored numerous articles and thought pieces on digital transformation; and continues to be a leading voice on Smart Cities and the integration of technology to improve the lives of individuals and communities --The City of Racine also has appointed an Innovation Officer effective January 14, 2019 to help facilitate and support Smart Cities initiatives; coordinate with partners; support the cross-functional team; work with stakeholders to develop a Smart Cities vision, goals and objectives, and an action plan; and coordinate across the implementation of initiatives --The City of Racine established the Racine Smart Cities Lakefront Vision Advisory Council, which has engaged a range of business, community, and economic development leaders to consider how Smart Cities initiatives could be integrated to transform Racine's downtown, which is located alongside Lake Michigan.

Please describe your requirements for public-private partnerships?

[1 Points]

The City of Racine has developed a number of public-private partnerships. At their core, those partnerships are based on several factors: -- Shared Public-Private Goals & Objectives --Unique Private-Sector Capabilities or Resources Being Offered to Enhance City Services & Outcomes for Community Residents & Businesses --Partner Roles & Responsibilities --Delineation of Public-Private Investments in Initiative(s) & Community --Timeline or Duration of the Memorandum of Understanding The City of Racine recently created an Innovation Officer position. The Innovation Officer, under the guidance of the Mayor, is working with public- and private-sector partners to develop a model Racine Smart City Initiative Memorandum of Understanding. This, too, is an area in which the City of Racine would benefit from Smart Cities Council mentoring and technical assistance.

Public-private partnerships documents

Please upload any Public-private partnerships documents. Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

Do you have specific procurement requirements that address environmental, social or governance issues?

[2 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☒ Business ethics
- ☒ Diversity
- ☒ Environmental standards
- ☒ Health and safety standards
- ☐ Human rights
- ☐ Inclusivity
- ☒ Local content (requirements to purchase or hire locally)



Please specify the types of funding mechanisms you have previously used to pay for your initiatives.

[3 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
 - ☒ Energy efficiency loans
 - ☒ Federal grants
 - ☒ General obligation bonds
 - ☐ Green bonds
 - ☒ Impact fees
 - ☒ Pay for performance
 - ☒ Philanthropic grants
 - ☐ Property tax increase
 - ☒ Public-private partnerships
 - ☐ Revenue bonds
 - ☐ Sales tax increase
 - ☐ Social impact bonds
 - ☐ Structured finance
 - ☒ User fees
 - ☐ Other
-



Section: Stakeholder Engagement

Stakeholder Engagement Instructions

- This section, about the stakeholders you would invite to your Smart Cities Readiness workshop, will be scored. Effective smart cities programs bring diverse stakeholders together; this section and your Readiness Workshop, if you are selected for one, recognizes that. Not all groups are required. The points available for each stakeholder group are located next to the group's name.
- Questions labeled with a red * are required questions.
- Use the arrows at the top of the page and the [next] and [back] buttons at the bottom of the page to navigate to the different pages of the section.

KR: City-utility partnerships are essential.

City-utility partnerships are an extremely valuable collaboration. First, because it's about energy and therefore about essential outcomes such as sustainability, efficiency and economic development. Second, because it is perhaps the biggest single opportunity to make smart cities affordable by sharing infrastructure, costs and data.

List the utilities you will invite to a Smart Cities Readiness Workshop (electricity, water, gas).

[2 Points]

Below is a listing of utility-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --RACINE WATER UTILITY, the region's largest water utility serving the residents and businesses of the City of Racine as well as surrounding communities within Racine County --WE ENERGIES, the region's utility providing energy in a variety of forms, including electricity, natural gas, and renewables (e.g., biogas, landfill gas, solar, agricultural waste, wood waste, wind, and hydro) --TOWER ENERGY INTERNATIONAL, LLC, a leader in water conservation, advanced building automation, energy management, high efficiency lighting, waste heat recovery, sustainable roofing

List the organizations representing residents or neighborhoods you will invite.

[1 Points]

Below is a listing of resident/neighborhood advocacy association stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --HISPANIC ROUNDTABLE, which is dedicated to enhancing the quality of life in the Racine Hispanic community by promoting leadership, unity, community, family and education --NAACP, which has a mission of ensuring the political, educational, social and economic equality of rights of all persons, and eliminating racial hatred and racial discrimination --LGBT Community Center, which serves as a safe and welcoming place for lesbian, gay, bisexual, and transgender Racinians and allies can gather to improve equity and inclusion as well as the overall quality of life

List the organizations representing workers you will invite.

[1 Points]

Below is a listing of worker-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --SOUTHEASTERN WISCONSIN BUILDING & CONSTRUCTION TRADES COUNCIL, which is comprised of local building trades unions—including COMMUNICATIONS WORKERS OF AMERICA, which is involved in installing infrastructure required for many Smart Cities initiatives—representing building trades members who live and work in our three-county area --INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS-LOCAL 430 promotes better wages, benefits and safety for all electrical workers, and also is actively involved in the infrastructure needed for Smart Cities initiatives

List the organizations representing tourism you will invite.

[1 Points]

Below is a listing of tourism-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale



for extending the invitation: --REAL RACINE (Racine County Convention & Visitors Bureau), which produces an annual guide of Racine County activities and events of interest to individuals and families visiting the area --DOWNTOWN RACINE CORPORATION, which supports annually over 4,200 visitors from approximately 40 states and 14 countries --BELLE CITY MAGAZINE, which prints 10,000 copies monthly and distributes through 100 locations

List the organizations representing arts and culture you will invite.

[1 Points]

Below is a listing of arts and culture-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --RACINE ARTS COUNCIL, which supports and advocates on behalf of emerging and established artists, artistic groups, and residents interested in the arts --RACINE ART MUSEUM, which holds the largest and most significant contemporary craft collection in North America, with more than 9,500 objects from nationally and internationally recognized artists --PRESERVATION RACINE, which encourages the preservation of buildings, sites, and districts in the Racine, Wisconsin area which have historical, architectural, and cultural value --ONERACINE, a festival sponsored by multiple entities to highlight and celebrate race, cultural diversity, equity, and inclusion

KR: Work with local sports stadiums.

Stadiums can be a tremendous asset for cities that want to initiate energy conservation and efficiency programs. While they operate intermittently, the facilities typically use tremendous amounts of energy and bring increased traffic to their locations during events. Collaboration on those two areas alone can be a win for cities.

List the organizations representing sports you will invite (stadiums, sports teams, etc.)

[1 Points]

Below is a listing of sports- and venue-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --RACINE PARKS, RECREATION & CULTURAL SERVICES DEPARTMENT, which manages over 1,100 acres of parks, five community centers, and many other facilities designed to host a wide variety of sports teams and other recreational opportunities --HORLICK FIELD, a stadium that seats 5,000 and hosts a series of sports and entertainment events, from minor league football to baseball tournaments to drum and bugle corps competitions --PERSHING PARK, which features a range of ramps, a street course, and beginner's area for skateboarders, in-line skaters, and BMX bikers only

KR: Organizations representing the disadvantaged are stakeholders too.

Local organizations dedicated to helping low-income, disabled, homeless and other disadvantaged residents have a lot to offer cities. They can offer practical insights and advice on policy issues. And many are already doing the heavy lifting through their assistance programs.

List the organizations representing the disadvantaged you will invite (low-income, handicapped, elderly, homeless, etc.)

[1 Points]

Below is a listing of stakeholders representing the disadvantaged the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --UNITED WAY OF RACINE COUNTY, which represents over 50 nonprofits serving individuals facing challenges based on income, former incarceration, disability, housing insecurity, etc. --RESCARE, which is contracted to serve thousands of the region's residents in need of public food assistance and custodial parents in need of cash assistance --SAFE HAVEN OF RACINE operates a shelter for runaways, the homeless, and abuse victims; provides crisis intervention services; and confronts human trafficking

KR: Tap the talents of local environmental groups.

Local groups and local chapters of national organizations working on issues such as the environment, air quality and renewable energy can help cities address issues they may not be able to handle on their own. Collaborating with those groups adds knowledge and expertise to city policy discussions and aligning their programs with city initiatives can help ensure successful outcomes - and sharing costs is a bonus for both parties.

List the organizations representing sustainability you will invite (air quality, water quality, renewable energy, local chapters of national organizations, etc.)

[1 Points]

Below is a listing of



environmental sustainability-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --GREENING GREATER RACINE is an inclusive environmental movement of people, organizations, businesses, and government leaders working to make the Greater Racine area healthier and more sustainable --RACINE DOMINICANS ECO-JUSTICE CENTER, which not only provides environmental education for over 6,000 visitors annually, but is operated as part of the Sisters' campus using such renewable energy sources as solar, geothermal, and wind --ROOT-PIKE WATERSHED INITIATIVE NETWORK, a nonprofit formed by the Wisconsin Department of Natural Resources and other stakeholders to restore, protect and sustain the five watersheds of the greater Racine/Southeastern Wisconsin region and help municipalities meet their storm water permit requirements

KR: Bring local businesses into the smart city conversation.

A city's large employers have a lot to offer the cities they operate in, and many realize they have "skin in the game." It's in their best interests to contribute to efforts to ensure quality of life, a growing economy and other opportunities for improving the urban environment.

List the large employers you will invite.

[1 Points]

Below is a listing of stakeholders representing major employers the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --RACINE SMART CITY LAKEFRONT VISION ADVISORY COUNCIL, which is comprised of the largest employers in the region, including SC JOHNSON, CNH INDUSTRIAL, TWIN DISC, ASCENSION ALL SAINTS, and EMERSON USA, as well as the RACINE COUNTY ECONOMIC DEVELOPMENT CORPORATION, GATEWAY TECHNICAL COLLEGE, and RACINE UNIFIED SCHOOL DISTRICT --FOXCONN TECHNOLOGY GROUP-FEWI DEVELOPMENT CORPORATION is a particularly important stakeholder as it is not only the world's fourth largest technology company, but also is creating 13,000 jobs in the region and partnering with the City of Racine to integrate new technologies to improve an array of city services, including transportation and public safety

KR: Cities should partner with telecom providers..

Telecommunications companies can be great partners for cities. They provide valuable services cities require, but many are becoming increasingly involved in the smart cities space. That means they have a solid understanding of what cities need, how to ensure services are inclusive and scalable - and how those services can help a city be competitive.

List the telecommunications providers you will invite.

[1 Points]

Below is a listing of telecommunications-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --CHARTER COMMUNICATIONS is one of the nation's largest telecommunications providers, and certainly the largest the region --TDS is another of the region's largest providers of wireless products and services, cable and wireline broadband, and voice services

List the organizations representing local business you will invite (e.g. chamber of commerce, business improvement district, etc.)

[1 Points]

Below is a listing of business association stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --RACINE AREA MANUFACTURERS AND COMMERCE, which represents over 500 of the region's corporations of every size and from every sector --BUSINESS IMPROVEMENT DISTRICT DOWNTOWN RACINE, which not only assists in attracting people to the downtown, but also helps the district's businesses access financing and other supports to improve their businesses and buildings

KR: The advantages of partnering with academic institutions.

Utilities and telecommunications companies have a lot to offer cities in a partnership. So do colleges and universities. In addition to a growing focus on STEM education which helps train tomorrow's smart city engineering and technology professionals, many academic institutions have partnered with cities to support innovative technology projects.

List the colleges and universities you will invite.

[1 Points]

Below is a listing of higher education-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's



rationale for extending the invitation: --GATEWAY TECHNICAL COLLEGE, which is recognized as America's first publicly funded technical college, annually prepares 18,000 students and offers 70 areas of study --UNIVERSITY OF WISCONSIN-MADISON COLLEGE OF ENGINEERING, which is leading the federally designated Wisconsin Automated Vehicle Proving Grounds collaboration (WiscAV), and advancing autonomous and connected vehicle research --UNIVERSITY OF WISCONSIN-PARKSIDE is one of 13 four-year institutions within the University of Wisconsin System, educating over 4,000 students annually across 41 majors, 56 minors, multiple certificates, pre-professional programs, and online degrees

List the organizations representing education and/or teachers you will invite.

[1 Points]

Below is a listing of K-12 education-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --RACINE UNIFIED SCHOOL DISTRICT, which operates nearly 30 schools and educates over 18,000 students

List the organizations representing health and health care you will invite (hospitals, doctors, nurses, etc.)

[1 Points]

Below is a listing of health and healthcare-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --ASCENSION, the largest non-profit health system in the U.S., which operates several healthcare facilities throughout the region

List the regional authorities you will invite (transit, transportation, ports, airports, etc.)

[1 Points]

Below is a listing of transportation-related stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --RYDE, the City's public transit system, maintains a fleet of 42 buses operating on 8 bus routes in the city of Racine and outlying areas seven days a week in addition to offering providing paratransit services for persons with disabilities and other special needs

List any state agencies or departments you will invite.

[1 Points]

Below is a listing of state agencies the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --PUBLIC SERVICE COMMISSION OF WISCONSIN is an independent agency that regulates Wisconsin public utilities including electric, natural gas, water, combined water and sewer utilities and certain aspects of local telephone service --WISCONSIN DEPARTMENT OF TRANSPORTATION, which plans, promotes and financially supports statewide air, rail and water transportation, and bicycle and pedestrian facilities, including sharing costs associated building and operating local transportation systems In addition to state agencies or departments, the City of Racine believes a key public sector partner for participation will be: --RACINE COUNTY, which provides a wide variety of services for city and countywide residents, including workforce development, veterans services, emergency management, and child support.

List any federal agencies you will invite.

[1 Points]

Below is a listing of federal stakeholders the City of Racine will invite to be active partners in the process as well as the City's rationale for extending the invitation: --U.S. HOUSE OF REPRESENTATIVES, in the person of U.S. Rep. Bryan Steil who represents the people of Racine in the U.S. House of Representatives and brings with him experience from both the private sector and service on the Board of Regents--the governing board for the University of Wisconsin system --U.S. SENATE, in the persons of U.S. Senators Tammy Baldwin and Ron Johnson, who represent the great State of Wisconsin in that body and both maintain excellent intergovernmental relations.



Section: Project Priorities

KR: Individual projects are part of an integrated plan.

Individual smart city projects are part of a larger, integrated plan. Those plans help city departments collaborate on projects when possible to reduce the likelihood of redundant work and, equally important, redundant investments.

Please make sure to choose three priority areas.

From the list below, choose three priority areas and then describe why they are priorities.

In the next section of the application, you will be asked to provide information about at least one project in each of the three priority areas you select. Your application will be evaluated based on your highest-scoring project in each of those priority areas.

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Buildings
- ☒ Digital City Services
- ☐ Economic Development
- ☐ Education and Workforce Development
- ☐ Emergency Response and Resilience
- ☐ Energy
- ☐ Environmental Services
- ☐ Health
- ☐ Human Services
- ☐ Payments
- ☒ Public Safety
- ☐ Sports, Culture, Leisure and Tourism
- ☐ Street Infrastructure
- ☒ Transportation
- ☐ Waste Management
- ☐ Water and Wastewater
- ☐ Other

Click the line above to see your Priority Area choices.

Your Public Safety Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

- Putting Public Safety First

Your Public Safety Projects Projects



Project: Putting Public Safety First

Brief description

[1 Points]

Like police departments across the nation, the Racine Police Department reports violent and property crimes, sometimes referred to as Part 1 Crimes, to the U.S. Department of Justice. Those crimes include homicides, rapes, robberies, aggravated assaults, burglaries, thefts, motor vehicle thefts, and arsons. Between 2007 and 2016 (the most recent year for which data are available), the Racine Police Department successfully reduced violent and property crimes by 43.4%. From 2011 to 2016, these Part 1 Crimes declined by 35.2%. The Racine Police Department has used a series of innovative approaches to achieve those results over the years, including: --Adopting and maintaining an ongoing commitment to Community-Oriented Policing since its adoption in 1996 --Establishing and maintaining COP Houses, facilities within targeted neighborhoods wherein police officers are stationed and the neighbors have embraced participating in positive police-community activities --Launching and maintaining S.A.F.E. (Special Assignment Focused Enforcement) Vehicles, which are outfitted with cameras and other equipment and can be requested to be stationed in a given block or neighborhood upon resident request Similarly, the Racine Fire Department has continued to offer an increasingly diverse array of value-added services. Indeed, its original mission of fire suppression equals just 15% of all calls the Department receives annually. Some 85% of all calls for service received by the Department are for emergency medical services, with the majority of those calls requiring advanced life support. Today, not only does the City of Racine recognize the Fire Department as providing so much more value in terms of public safety, so does the State of Wisconsin. The City of Racine Fire Department is the designated Regional Type 2 Hazardous Materials Team for Southeastern Wisconsin, and also is the agency providing emergency water, confined space, and high angle rope rescues. The Racine Police and Fire Departments are keeping residents and businesses safe. Both Departments are using data and technology to increase their effectiveness and impact. However, there are multiple ways that additional integration of technology would advance public safety. The Putting Public Safety First project will involve a number of City of Racine offices and departments, including the Racine Police & Fire Departments, Office of the Mayor, the Management Information Systems Department, Office of the Innovation Officer, Office of Communications, Department of Public Works, and Finance, Budget & Purchasing Department. Additionally, the City of Racine will work with Foxconn Technology Group, other technology partners, regional businesses, and community stakeholders in order to improve public safety by: --integrating OptiCom or similar technology that would allow activated emergency services/public safety vehicles to communicate with traffic control systems; provide those vehicles prioritization; and align traffic signals accordingly to expedite such services --leveraging a combination of Cityworks, G.I.S., and other software and private-sector stakeholder engagement to obtain, store, and make accessible in real time to police and fire officials the three-dimensional layouts of office, commercial, civic, social, and industrial facilities as well as the location of toxic or other dangerous materials, which would be invaluable during emergencies—from fires to active shooter crime scenes --installing high-resolution and thermal cameras along the lakefront to provide emergency services with greater ability to pinpoint individuals who may be in distress in Racine Harbor or other areas along Lake Michigan—areas which have proven to be particularly difficult in darkness --incorporating the use of autonomous vehicles equipped with cameras and other crime-detering equipment to conduct random public safety tours through blocks/neighborhoods with higher rates of burglary activity, thereby reducing windows of opportunity without requiring additional personnel --ensuring the City of Racine autonomous vehicle public transit fleet is equipped with technology to prioritize activated emergency vehicles

Expected project start date

[1 Points]

- Less than one-year
- ☒ One to three years
- Four to seven years
- Seven to ten years
- More than ten years

Supporting File(s)

[1 Points]

Please upload supporting documents. Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

Expected project budget range

[1 Points]

- ☒ Less than \$1 million



- Between \$1 million and \$5 million
- Between \$5 and \$10 million
- Between \$10 and \$50 million
- Between \$50 and \$100 million
- Between \$100 million and \$500 million
- More than \$500 million

Current project status

[1 Points]

- Underway
- Approved
- ☒ Planned
- Under consideration

Project scale

[1 Points]

- Pilot project (confined deployment)
- District-wide deployment
- ☒ City-wide deployment
- Regional deployment

What existing assets may be available for use by the project:

[2 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☒ Buildings
- ☒ Computer Hardware
- ☒ Computer Software
- ☒ Data
- ☐ Field Equipment
- ☒ Streetlight or utility poles
- ☒ Streets/roadways/highways
- ☒ Telecommunications
- ☒ Trained Personnel

Check each potential financing mechanism that your organization is willing to consider.

[1 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- **Traditional loans and leases.** Repayment can come from public funds, or third-party payments, or a combination.
- **As-a-service financing.** Rather than purchase technology, city consumes it as a service, thereby reducing or eliminating capital costs. Examples include but are not limited to street lights as a service, smart grid as a service, mobility as a service, etc.
- **Concession financing.** City gains revenues and/or reduces costs without paying for the project
- **Consumption financing.** Repayment based on usage.
- **Equity financing.** Raise funds by selling an ownership interest in an asset or service.
- **Project financing.** Assesses the financial viability of the individual project, not the city as a whole. Repayment comes all or in part from revenues generated by the project
- **Revenue share financing.** Repayment through a share of the revenues
- **Vendor financing.** From an equipment vendor or a project contractor.



- ☒ Traditional loans and leases
- ☒ As-a-service financing
- ☒ Concession financing
- ☒ Consumption financing
- ☒ Equity financing
- ☒ Project financing
- ☒ Revenue share financing
- ☒ Vendor financing

Check each potential procurement option that your organization is willing to consider.

[1 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- **Conventional procurement.** Public sector defines its requirements and procures them via traditional procurement methods
- **Direct delivery.** Public sector provides proprietary services directly to customers using public sector assets and staff (e.g. selling Internet access)
- **Franchising.** Agreement to operate government-owned assets to generate revenue streams
- **Licensing.** Perpetual license is a one-time, up-front expense funded from the CAPEX budget. Subscription license is ongoing payments funded from the OPEX budget
- **Long-term lease.**
- **Operating contracts.** Contract with private sector vendor to provide services
- **Public private partnership.** A long-term contract between a government and a private party for providing a public asset or service, in which the private party bears significant risk and management responsibility
- **Privatization.** Private sector becomes responsible for assets or services previously provided by the public sector

- ☒ Conventional procurement
- ☐ Direct delivery
- ☐ Franchising
- ☐ Licensing
- ☒ Long-term lease
- ☒ Operating contracts
- ☒ Public private partnership
- ☐ Privatization

What problem or challenge will the project address?

[2 Points]

The Putting Public Safety First project will address the following challenges: --Potential for crashes at intersections between emergency services/public safety vehicles responding to calls and the general public --Signalization delays for emergency services/public safety vehicles responding to calls --Inability to pinpoint timely individuals associated with Racine Harbor/Lake Michigan-related water emergencies --Extraordinary overtime to support city events --Lack of data about structural layouts of facilities and hazardous materials below mandatory reporting limits stored onsite --Burglary rates in high-incidence areas --Potential crashes with autonomous public transit fleet in emergencies

Who will the project affect and how will it benefit them?

[2 Points]

The Putting Public Safety First project will benefit a variety of populations: POPULATION & BENEFIT: --RESIDENTS...Residents, particularly those living in blocks and neighborhoods with a higher incidence of burglaries will benefit from having the autonomous mobile unit randomly conducting public safety tours and acting as a deterrent --PROPERTY OWNERS, BUSINESSES & WORKERS...Property owners, businesses, and workers will benefit from police and fire officials having a much better understanding of structural layouts and hazardous materials stored on grounds, so they can respond to emergencies more efficiently --FESTIVALGOERS & LAKEFRONT/DOWNTOWN VISITORS...Visitors will benefit as emergency services/public safety has greater visibility from above for crowd management, pinpointing problems, and making water-



related rescues more rapidly --TAXPAYERS...Taxpayers will benefit with technology reducing City-vehicle-related accidents (and any associated financial liability), overtime, and need for additional sworn personnel to focus on burglary prevention efforts

Describe the project risks, including but not limited to technology obsolescence, policy and regulatory blockers, cash flow, and construction delays. [1 Points]

Potential project risks or factors that may delay the project are primarily costs. With the exception of the autonomous vehicle focused on reducing burglaries through random public safety tours through high-incidence blocks and neighborhoods, the other technologies to be integrated has been proven across a wide range of communities. The City of Racine currently plans for public safety enhancements through its annual operations and capital budgets. These Smart City projects will be addressed in similar fashion.

Describe any efficiencies or cost savings made possible by the project.

The requirement for emergency services/public safety vehicles to move cautiously through intersections in response to calls is not only dangerous for police and fire officials and the public, it is highly inefficient. Integrating OptiCom technology will improve response times and save lives and property. The City of Racine has miles of shoreline along Lake Michigan, and police and fire officials have faced a variety of water-related emergencies, from the vehicles driving into the lake to children falling into this deep body of water. Installing higher-resolution and thermal cameras will greatly improve the ability of fire and police officials to pinpoint locations and respond to water-related emergencies associated. The lakefront/downtown area hosts many of the community's highest density events. Just for the Fourth (of July) Fest, which attracts tens of thousands of visitors, the Racine Police Department spends \$40,000 in overtime. Higher-resolution cameras along the lakefront/downtown area would allow the Department to monitor events more effectively, pinpoint problems, and respond with fewer officers. There are 29,000 parcels in the City of Racine. Structures across these parcels range in size from garages and modestly sized homes to millions of square feet, each with a different layout. As a city of manufacturers, many of the community's companies store onsite a myriad of chemicals and other hazardous materials which may not exceed reporting thresholds. This combination of unknown layouts and undisclosed hazardous materials can slow response times simply because fire and police officials do not know what to expect upon entry. Creating a voluntary disclosure process for owners of office, commercial, industrial, and other facilities, and leveraging a combination of technologies to convert layouts into three-dimensional graphics will allow police and fire staff to respond more rapidly to a range of emergencies, including fires, medical emergencies, hazardous spills, workplace violence, and active shooter incidents. Sworn officers do an excellent job of responding to, and helping reduce, crime. However, they cannot be everywhere. Parking a crime reduction vehicle in a given block or neighborhood acts as a further deterrent, but only for that specific block or neighborhood while the vehicle is stationed there. Having an autonomous mobile unit equipped with high-resolution cameras and capable of randomly conducting public safety tour through high-incidence areas will serve as a higher-impact deterrent without increasing the personnel budget.

Please briefly describe any ways in which the project may contribute to your economic growth. [1 Points]

Public safety is a precursor for economic development and community well-being. No company will (re)locate to, or expand in, a community that it perceives as being unsafe. Families are less likely to buy homes or invest in neighborhoods they perceive as unsafe. Just take a look at any real estate website, and crime is one of the key data points provided for those considering a given neighborhood or community. While the number of violent and property-related crimes in the City of Racine has been halved over the last decade and reduced by more than a third in the last five years, there is still more to do. Integrating OptiCom technology; leveraging G.I.S., Cityworks, and other software applications and business/community engagement to provide three-dimensional layouts of facilities and understand hazardous materials stored onsite; installing high-resolution and thermal cameras along the lakefront; and expanding the public safety fleet to include autonomous vehicles focused on reducing burglaries in higher-incidence neighborhoods all will contribute greatly toward improving response times for emergency calls and saving lives. Improved response times and more positive emergency services/public safety outcomes will lead to greater numbers of families living, and businesses expanding, in the city.

Your Economic Development Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.



Your Economic Development Projects Projects

Your Buildings Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Buildings Projects Projects

Your Education and Workforce Development Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Education and Workforce Development Projects Projects

Your Energy Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Energy Projects Projects

Your Environmental Services Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Environmental Services Projects Projects

Your Health Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Health Projects Projects

Your Human Services Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.



Your Human Services Projects Projects

Your Payments Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Payments Projects Projects

Your Sports, Culture, Leisure and Tourism Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Sports, Culture, Leisure and Tourism Projects Projects

Your Street Infrastructure Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Street Infrastructure Projects Projects

Your Transportation Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

- Autonomous Transportation

Your Transportation Projects Projects

Project: Autonomous Transportation

Current project status

[1 Points]

- ☒ Underway
- Approved
- Planned
- Under consideration

Project scale

[1 Points]

- Pilot project (confined deployment)
 - District-wide deployment
 - City-wide deployment
-



☒ Regional deployment

What existing assets may be available for use by the project:

[2 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☒ Buildings
- ☒ Computer Hardware
- ☒ Computer Software
- ☒ Data
- ☒ Field Equipment
- ☒ Streetlight or utility poles
- ☒ Streets/roadways/highways
- ☒ Telecommunications
- ☒ Trained Personnel

Check each potential financing mechanism that your organization is willing to consider.

[1 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- **Traditional loans and leases.** Repayment can come from public funds, or third-party payments, or a combination.
- **As-a-service financing.** Rather than purchase technology, city consumes it as a service, thereby reducing or eliminating capital costs. Examples include but are not limited to street lights as a service, smart grid as a service, mobility as a service, etc.
- **Concession financing.** City gains revenues and/or reduces costs without paying for the project
- **Consumption financing.** Repayment based on usage.
- **Equity financing.** Raise funds by selling an ownership interest in an asset or service.
- **Project financing.** Assesses the financial viability of the individual project, not the city as a whole. Repayment comes all or in part from revenues generated by the project
- **Revenue share financing.** Repayment through a share of the revenues
- **Vendor financing.** From an equipment vendor or a project contractor.

- ☒ Traditional loans and leases
- ☒ As-a-service financing
- ☒ Concession financing
- ☒ Consumption financing
- ☒ Equity financing
- ☒ Project financing
- ☒ Revenue share financing
- ☒ Vendor financing

Expected project budget range

[1 Points]

- Less than \$1 million
 - Between \$1 million and \$5 million
 - ☒ Between \$5 and \$10 million
 - Between \$10 and \$50 million
 - Between \$50 and \$100 million
 - Between \$100 million and \$500 million
 - More than \$500 million
-

**Supporting File(s)**

[1 Points]

Please upload supporting documents. Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

Check each potential procurement option that your organization is willing to consider.

[1 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- **Conventional procurement.** Public sector defines its requirements and procures them via traditional procurement methods
- **Direct delivery.** Public sector provides proprietary services directly to customers using public sector assets and staff (e.g. selling Internet access)
- **Franchising.** Agreement to operate government-owned assets to generate revenue streams
- **Licensing.** Perpetual license is a one-time, up-front expense funded from the CAPEX budget. Subscription license is ongoing payments funded from the OPEX budget
- **Long-term lease.**
- **Operating contracts.** Contract with private sector vendor to provide services
- **Public private partnership.** A long-term contract between a government and a private party for providing a public asset or service, in which the private party bears significant risk and management responsibility
- **Privatization.** Private sector becomes responsible for assets or services previously provided by the public sector

- ☒ Conventional procurement
- ☒ Direct delivery
- ☒ Franchising
- ☒ Licensing
- ☒ Long-term lease
- ☒ Operating contracts
- ☒ Public private partnership
- ☐ Privatization

Expected project start date

[1 Points]

- ☒ Less than one-year
- One to three years
- Four to seven years
- Seven to ten years
- More than ten years

Please briefly describe any ways in which the project may contribute to your economic growth.

[1 Points]

Manufacturing remains the second highest employment sector in Wisconsin's economy. Many of the jobs in this sector have starting wages of \$15.00 per hour, and regional employers are having an increasingly difficult time accessing sufficient labor to meet their needs. In some cases, businesses are foregoing sales because of a lack of employees. Job growth is abundant in Racine County, but the rate of job growth is not equal across the region. For well over a century, the City of Racine has been known for its manufacturing sector. Since the wrenching losses in manufacturing jobs during the 1980s recession, the City of Racine has had a persistently high unemployment rate. In fact, its unemployment remains the highest of any major city in the State of Wisconsin. The countywide unemployment rate is 3.1% and the unemployment rate of Mount Pleasant—the suburban community surrounding the City of Racine, where many newer manufacturing plants have been constructed—is 3.0%. In comparison, the unemployment rate for the City remains a full percentage point higher at 4.0%. The contrast is much greater when



considering poverty rates: City of Racine, 20%; Racine County, 10.9%; Mount Pleasant, 6.6%. The City of Racine has a significant population available to work. However, given the high level of poverty, many lower-income city residents do not have the personal transportation to reach the high-job areas outside the city's corporate limits. Staffed bus routes to job growth pockets dispersed outside the city have proven cost prohibitive for relatively small ridership. The development and expansion of an autonomous fleet of shuttles would support more flexible transit solutions; reduce the cost by operating small, driverless vehicles; attract new corporate partners desiring to participate in testing driverless technologies; and allow more city residents to gain those manufacturing job opportunities. City resident employment, earnings, and benefit coverage would increase, which would translate into greater economic impact and activity in the City of Racine. More families would be able to afford to buy and improve a home, rather than rent. In addition to increasing mobility and employment, and helping meet regional employers' demand for the labor needed to continue competing and growing, the project will augment the City of Racine fiber optic network. Just as roads, rail, ports, and utilities laid the foundation for future economic growth in earlier periods, the fiber optic network is the new public infrastructure that will fuel economic growth in the digital age. The City of Racine will seek to solicit corporate partners which may be interested in leasing the expanded fiber optic network and/or are attracted to expanding their business in the City of Racine because of the introduction of Smart Cities initiatives, such as the autonomous vehicle transportation and City-supported 5G integration. These are just a couple of examples of how the autonomous vehicle transportation project and related infrastructure would increase economic growth in the City of Racine.

What problem or challenge will the project address?

[2 Points]

There are a number of challenges the autonomous vehicle transportation project will address, including: --FINANCIAL CONSTRAINTS...the inability to provide additional routes due to an inability to afford additional costs --FUEL/ENERGY...the public transit system's complete dependence on fossil fuels --ROUTE CONCENTRATION...the focus on highest-volume routes due to diminishing federal/state public transit financial support --FLEET AGE...maintaining an increasingly aging fleet of buses that continue to be operated beyond their expected and optimal-performance lifespan REPUTATION/PERCEPTION...public transit system being perceived as the transportation mode largely for those who have few-to-no-other alternatives --SUSTAINABILITY...the significant carbon footprint associated with operating the City's diesel-driven public transit system

Brief description

[1 Points]

The City of Racine has developed an ambitious partnership with Foxconn Technology Group, University of Wisconsin-Madison College of Engineering, and Gateway Technical College to launch the testing, operation, evaluation, and expansion of the use of autonomous vehicle technology. The project will build on the experience and expertise of the University of Wisconsin-Madison College of Engineering and Foxconn Technology Group, which have piloted earlier iterations of autonomous vehicle technology and other software applications in China. The City of Racine will leverage its substantial fiber optic network and the integration of 5G to support road-based units for autonomous vehicle systems operations. Gateway Technical College will train area residents to install on-board units into the vehicles to communicate with road-based units incorporated into the City's light poles along downtown streets and other corridors. Phase 0 will test the technology using retrofitted golf carts. Phases 1 & 2 will build upon Phase 0 to test those same golf carts on public roads with an initial focus on the downtown. Using further lessons learned in Phases I & II, Phase III will begin initiating transportation of residents and visitors—from technical college students and workers to festivalgoers and currently transportation-challenged populations (e.g., seniors, persons with disabilities, lower-income individuals, etc.)—using shuttles and electric buses. Phase III also will witness an expansion in the radius and diversity of travel routes as well as the category of destinations (e.g., retail establishments, healthcare institutions, government agencies, etc.). Phase 0 is anticipated to begin before the end of 2019. Phases I & II are expected to follow thereafter based on progress. The partnership believes Phase III—autonomous vehicle transportation of residents—will be launched during 2020. Further expansion of the autonomous vehicle transportation system envisions transporting workers throughout the region, from the City of Racine employers to major corporate facilities located in western Racine County, including Foxconn Technology Group's advanced manufacturing campus which will employ 13,000 workers when operational. Not only will the autonomous vehicle project provide additional options in mobility and enhanced independence for transportation-challenged populations, including low-income individuals, persons with disabilities, and seniors, it will allow the City of Racine and its partners to reduce significantly the carbon footprint associated with local public transit.

Describe any efficiencies or cost savings made possible by the project.

Over the years, public transit cost-sharing from the federal and state governments has declined, while the costs of operations (e.g., diesel fuel, labor, maintenance, etc.) have continued to increase. In the City of Racine, this financial pressure has resulted in several negative impacts: --a diminished capacity to replace older buses in the public transit fleet --a requirement to continue operating existing inventory well beyond its expected life --decrease in number of drivers and, therefore, the number of routes --reduction in the frequency of the routes being available Based on cost per passenger mile considerations, the City of Racine has had to focus only on the highest volume routes. Public transit financing has not afforded the opportunity to be more nimble and use smaller passenger vehicles. In other words, when it comes to conventional



public transit, the City has had to do less with less. The addition of autonomous vehicle transportation and related technology to the City's public transit mix by leveraging public-private partnerships will allow: --the public transit system to continue focusing its drivers and full-scale buses on the highest volume routes while adding new, more targeted routes using autonomous shuttles --an increase in route diversity without correspondingly increasing labor costs --the City to leverage its expanding public infrastructure of fiber optic network in order to operate routes in non-traditional hours or in heavily trafficked hours when drivers would simply not be available --the ability to coordinate traffic management in order to prioritize signalization for autonomous vehicles, thereby reducing travel time This project will allow the City of Racine to be more responsive, more expeditious, and more cost-effective for its residents and businesses. The City's goal is to become the transportation mode of choice for an increasing number of residents and visitors of all socioeconomic backgrounds—all while reducing the carbon footprint of public transit.

Describe the project risks, including but not limited to technology obsolescence, policy and regulatory blockers, cash flow, and construction delays. [1 Points]

Primary potential project risks or factors that may delay the project, include: --COSTS: Cost is always an issue for municipalities of any size. The City of Racine has already allocated funding to launch its Smart City Initiative, including expanding its fiber optic network. Additionally, the City is partnering with Foxconn Technology Group, University of Wisconsin-Madison College of Engineering, and Gateway Technical College. Each partner is bringing financial resources and other assets to the project. Additionally, the City of Racine, with the support of its public-private partnership, intends to apply for federal, state, and private-sector funding to provide further financial support. Lastly, the City of Racine intends to lease use of its fiber optic network in order to create a funding stream to invest in yet more systems expansion. --STATE REGULATIONS: Part of the proposed test routing includes not only public city roads, but also state highways traversing through downtown Racine. The State of Wisconsin has been an early proponent of testing and advancing autonomous vehicle transportation, and the City of Racine is reaching out to the Department's leadership in order to develop a partnership for the project. --LOCAL ORDINANCES: State statutes are silent with regard to the integration and implementation of autonomous vehicle operations. The City of Racine will need to take proactive steps to adopt new city ordinances permitting the operations of autonomous vehicles on public roads with the municipality's corporate limits. Also, the City will need to adopt new ordinances authorizing autonomous golf carts to be operated on certain public roads between fixed positions in downtown Racine. --TECHNOLOGY OBSOLESCENCE: It is true that technology continues to evolve. Technology obsolescence over time is inevitable. To address this, the City of Racine has formed its robust public-private partnership with the Foxconn Technology Group, the world's fourth largest technology company; the University of Wisconsin-Madison College of Engineering, which has been a pioneer in this technology; and Gateway Technical College, which is actively developing curricula and credentialing associated with training students to install on-board units and related technologies in order to retrofit vehicles for autonomous operations. The City and its partners will coordinate regularly to test, operate, and evaluate the efficacy of associated technology (software and hardware) and recommend regular improvements in the public and private infrastructure.

Who will the project affect and how will it benefit them? [2 Points]

Perhaps, no project will have a greater effect on a more diverse and inclusive array of stakeholders than autonomous vehicle transportation. POPULATION & BENEFIT: --TRANSPORTATION-CHALLENGED POPULATIONS...Seniors, persons with disabilities, and lower-income individuals—people who may be wholly dependent on public transit—will have greater and more frequent route diversity --WORKERS...City residents across the socioeconomic spectrum will have more attractive and expeditious alternatives to travel to job sites --EMPLOYERS... Businesses that have had an increasingly difficult time gaining access to available labor --FESTIVALGOERS...Residents and visitors, alike, will have an opportunity to move more rapidly through the lakefront/downtown district --COLLEGE STUDENTS...Students at Gateway Technical College will not only have a greater transportation connection with the downtown and surrounding businesses, but also have the opportunity to earn credentialing in installing technology in, and retrofitting, vehicles for autonomous use; University of Wisconsin-Madison College of Engineering students will have the opportunity to test their applied research in autonomous vehicles on public roads and highways within the city's corporate limits as well as across jurisdictions --SMALL MUNICIPALITIES...While major metro areas have launched significant Smart Cities initiatives, small-to-medium-sized municipalities—the vast majority of cities—have not yet been as engaged, particularly in the autonomous vehicle transportation space; this project will provide an opportunity for the City of Racine to advance the small-to-medium-sized progression into Smart Cities development and use of cleaner public transit technologies --FEDERAL/STATE POLICYMAKERS...The testing, operation, and evaluation of autonomous vehicles in this project will afford the City of Racine an opportunity to share lessons learned with state and federal government officials. The City of Racine will be able to participate, and represent small-to-medium-sized cities, in the emerging debate about how autonomous vehicles should be recognized and addressed in statutes and regulations

Your Waste Management Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief



overview of these projects later in the application.

Your Waste Management Projects Projects

Your Water and Wastewater Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Water and Wastewater Projects Projects

Your Other Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Other Projects Projects

Your Emergency Response and Resilience Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

Your Emergency Response and Resilience Projects Projects

Your Digital City Services Projects

Click on the plus sign to add a project that relates to this priority area. You may add up to five projects. Each project will be evaluated, but only the highest-scoring project in each of your three priority areas will count toward your overall point total. You will be asked to provide a brief overview of these projects later in the application.

- Connecting Our Community

Your Digital City Services Projects Projects

Project: Connecting Our Community

Current project status

[1 Points]

- ☒ Underway
- Approved
- Planned
- Under consideration

Project scale

[1 Points]



- Pilot project (confined deployment)
- District-wide deployment
- ☒ City-wide deployment
- Regional deployment

What existing assets may be available for use by the project:

[2 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☒ Buildings
- ☒ Computer Hardware
- ☒ Computer Software
- ☒ Data
- ☒ Field Equipment
- ☒ Streetlight or utility poles
- ☒ Streets/roadways/highways
- ☒ Telecommunications
- ☒ Trained Personnel

Who will the project affect and how will it benefit them?

[2 Points]

The project will benefit a variety of populations: POPULATION & BENEFIT: --STUDENTS...who will have internet access, enabling them to compete regardless of their family's financial status --ADULTS...who will have access to a world of city (and other) services -- BUSINESS/PROPERTY OWNERS...who will benefit from having more efficient building inspections --NEIGHBORHOODS...which will benefit from cross-departmental collaboration, particularly in high-service-demand blocks --ENTREPRENEURS...who will have the opportunity to innovate using the tools available as a result of low latency, high-speed 5G wireless technology --TAXPAYERS...who will benefit from the estimated \$118 million in additional GDP and 724 new jobs resulting from the installation and adoption of 5G --EMPLOYERS...which will find it easier to attract and retain quality candidates as the City of Racine takes a leadership role in the integration of technology

Expected project start date

[1 Points]

- ☒ Less than one-year
- One to three years
- Four to seven years
- Seven to ten years
- More than ten years

Check each potential financing mechanism that your organization is willing to consider.

[1 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- **Traditional loans and leases.** Repayment can come from public funds, or third-party payments, or a combination.
- **As-a-service financing.** Rather than purchase technology, city consumes it as a service, thereby reducing or eliminating capital costs. Examples include but are not limited to street lights as a service, smart grid as a service, mobility as a service, etc.
- **Concession financing.** City gains revenues and/or reduces costs without paying for the project
- **Consumption financing.** Repayment based on usage.
- **Equity financing.** Raise funds by selling an ownership interest in an asset or service.
- **Project financing.** Assesses the financial viability of the individual project, not the city as a whole. Repayment comes all or in part from revenues generated by the project



- **Revenue share financing.** Repayment through a share of the revenues
- **Vendor financing.** From an equipment vendor or a project contractor.

- ☒ Traditional loans and leases
- ☒ As-a-service financing
- ☒ Concession financing
- ☒ Consumption financing
- ☒ Equity financing
- ☒ Project financing
- ☒ Revenue share financing
- ☒ Vendor financing

Supporting File(s)

[1 Points]

Please upload supporting documents. Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

Brief description

[1 Points]

The Connecting Our Community project is vital to the future of the City of Racine and its economy. The City of Racine project aims to accomplish a number of important objectives: --advance equity and inclusion, --enhance the competitiveness of its human talent across all socioeconomic backgrounds and age cohorts --make city services more accessible to residents, businesses, and visitors, and --accelerate the community's economic growth by embracing high-speed ubiquitous 5G wireless technology installation and encouraging rapid adoption. The City of Racine already has in place a network of over {NUMBER} miles of conduit and fiber optic cabling. The City's goal is to extend that network throughout the municipality and integrate with it small cells, which will be mounted to its light poles and other available assets. The addition of small cells to the City's existing public infrastructure will offer ubiquitous connectivity, creating the foundation for, and making possible, public-private Internet of Things (IoT) projects that cannot be imagined today. The City of Racine became known as the "Invention City" because so many products were invented here that have improved the quality of life for millions—including the blender, hair dryer, and garbage disposal. This new 5G-enabling public infrastructure will support a new era of innovation in Racine, attracting those interested in leveraging these new tools of technology to innovate and advance quality of life for millions more. The public infrastructure combining its fiber optic network with 5G-enabling small cells will be launched along the lakefront/downtown area to support the testing, operation, and evaluation of the City's autonomous vehicle project. The plan is to expand that combined infrastructure into additional areas of the community to coincide with the expansion of the autonomous vehicle transportation service delivery routes. The City will work with Foxconn Technology Group, University of Wisconsin-Madison College of Engineering, and Gateway Technical College to ensure the small cell units procured meet optimal specifications for the testing and operations for autonomous vehicle transportation. The City also will work closely with the telecom industry and other sector leaders to determine devices needed to launch, operate, and maintain an effective 5G-enabled network. In addition to investing in the hardware necessary to establish a 5G network, the City of Racine also will partner with the private sector and invest in developing/adopting new applications to make city data more available to residents and businesses; leverage technology to make city-community communications more interactive; and enable the city to analyze more effectively city data to advance more effective service solutions. The City of Racine already has adopted CitySourced, and is in the process of conducting a rollout to residents and businesses in Second or Third Quarter 2019. CitySourced is an application specifically designed to support city-citizen interaction with data collection, analysis, and reporting as well as email and push notification functionality all built within the platform. The Connecting Our Community project is underway, and the City of Racine is looking forward to a myriad of positive impacts to be achieved as a result.

Please briefly describe any ways in which the project may contribute to your economic growth.

[1 Points]

The Connecting Our Community project will establish the foundation for public-private innovation by combining the City's fiber optic network with small cells. This combination will lead to ubiquitous connectivity throughout the community and offer low latency, ingredients for a new era of invention. By making low latency 5G-enabled connectivity ubiquitous, the City will be able to introduce autonomous vehicle transportation; reduce commute times; make high-speed internet access available to households of all socioeconomic backgrounds and age cohorts, including those who currently do not have any access; the City of Racine will set the stage for more inclusive economic growth. Indeed, Foxconn



Technology Group—the world's fourth largest technology company, already has announced it will open an Innovation Center within the city's lakefront/downtown area. The Innovation Center will house approximately 125 engineers and other professionals, and will serve as a hub for research and development. Other corporations have approached city officials as well about the potential of expanding their existing research and development facilities and/or building new facilities to meet their future needs. Besides the economic development the City of Racine is already seeing in anticipation of new, more technology-driven tools fueling the future, CTIA, the wireless communications industry association, estimates that installation of 5G-enabling technology and adoption of high-speed internet access will result in an additional \$118 million in GDP and 724 jobs for the City of Racine. The association estimates the increase in GDP to be \$1.18 billion across Southeastern Wisconsin; over 7,200 jobs are expected to be created, all because of the integration and adoption of this powerful new tool. [Source: Retrieved February 10, 2019 from: <https://www.ctia.org/the-wireless-industry/the-race-to-5g>, CTIA, 5G Economic Impact by State: Wisconsin] In its publication, "Smart Cities: How 5G Can Help Municipalities Become Vibrant Smart Cities," Accenture offers similar estimates, indicating that small-medium-sized cities with population of 30,000-100,000 could see 300 to 1,000 jobs created as a result of embracing 5G technology. [Source: Retrieved February 9, 2019 from: https://www.accenture.com/t20170222T202102_w_us-en/_acnmedia/PDF-43/Accenture-5G-Municipalities-Become-Smart-Cities.pdf, Accenture, Smart Cities: How 5G Can Help Municipalities Become Vibrant Smart Cities] To accelerate the adoption of 5G technology and innovation deriving thereof, the City of Racine will partner with the private sector, including leading corporations, educational institutions, and philanthropies to develop a series of challenges. In the 1870s, following the invention of the steam-powered automobile in Racine, the Wisconsin State Legislature established a challenge with a \$10,000 prize—the first U.S. long-distance automobile race—for the inventor who designed a self-propelled automobile capable of winning a 200-mile race from Green Bay to Madison, Wisconsin. Building on that Wisconsin challenge as well as the Smart Cities Council Readiness Challenge itself, the City of Racine and its partners envision issuing a series of challenges to encourage innovation that leverages the new technology to improve the quality of life in the community and beyond.

Expected project budget range

[1 Points]

- Less than \$1 million
- Between \$1 million and \$5 million
- ☒ Between \$5 and \$10 million
- Between \$10 and \$50 million
- Between \$50 and \$100 million
- Between \$100 million and \$500 million
- More than \$500 million

Describe any efficiencies or cost savings made possible by the project.

At least four city departments may be involved in conducting inspections of a given property: Building Inspections, Health, Police, and Fire. In some instances, data required for one inspection also may be required in an inspection conducted by another department. However, there is no universal database regarding inspections. Neither has an analysis been conducted to streamline the inspections processes, share data as appropriate, and eliminate redundancies. Undoubtedly, addressing this area will lead to efficiencies for residents and businesses as well as cost savings for the City of Racine and its citizens. As of this writing, the City of Racine Water Utility is working with the private sector to launch an app within the next two quarters that would allow residential and corporate customers to track and analyze their water consumption trends and act accordingly. This, too, will lead to cost savings as consumers alter behaviors and/or identify with the Racine Water Utility possible breaks. The City of Racine responds annually to thousands of public health and safety requests for service from the Police Department, the Fire Department, Building Inspection, and Health Department. Yet, the City does not currently have the means to analyze and track over time trends in service demands, including understanding if/where there are high-demand geographic areas and whether a cross-departmental service approach might be beneficial. The City of Racine is currently using Cityworks, an application which would allow that level of ongoing data collection and analysis, and is working with the private sector to develop new applications and metrics that would inform city officials and the public more effectively and make local government more responsive. Clearly, savings and more innovative service delivery will be possible. The combination of the existing fiber optic network with 5G-enabling small cells will make it possible to introduce autonomous vehicle transportation, reduce commute times and public transit's carbon footprint. The City of Racine, like so many other cities across the nation, has to find innovative ways to examine its expenses and translate as much of them as possible into investments that will yield future returns for local government and its citizens. This project is a prime example of investing for a future stream of efficiencies and savings.

Check each potential procurement option that your organization is willing to consider.

[1 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.



- **Conventional procurement.** Public sector defines its requirements and procures them via traditional procurement methods
- **Direct delivery.** Public sector provides proprietary services directly to customers using public sector assets and staff (e.g. selling Internet access)
- **Franchising.** Agreement to operate government-owned assets to generate revenue streams
- **Licensing.** Perpetual license is a one-time, up-front expense funded from the CAPEX budget. Subscription license is ongoing payments funded from the OPEX budget
- **Long-term lease.**
- **Operating contracts.** Contract with private sector vendor to provide services
- **Public private partnership.** A long-term contract between a government and a private party for providing a public asset or service, in which the private party bears significant risk and management responsibility
- **Privatization.** Private sector becomes responsible for assets or services previously provided by the public sector

- ☒ Conventional procurement
- ☒ Direct delivery
- ☒ Franchising
- ☒ Licensing
- ☒ Long-term lease
- ☒ Operating contracts
- ☒ Public private partnership
- ☐ Privatization

What problem or challenge will the project address?

[2 Points]

The Connecting Our Community project will make possible low latency, high-speed 5G wireless technology. It will address a number of socioeconomic and cross-departmental challenges. Nearly three-quarters of all households in the City of Racine have an internet subscription of some type. However, internet access is not universal. In fact, U.S. Census data indicate that over 90% of all Racine households with annual earnings of \$75,000 or more have internet access at home. However, only slightly more than one in five Racine households has annual earnings of \$75,000 or more. Approximately, one quarter of all Racine households annually earn \$20,000 or less. Nearly half (49%) of Racine households in this income range have no internet subscription of any kind at home, according to the U.S. Census Bureau. In the case of Racine households annually earning incomes between \$20,000 and \$75,000, more than a quarter (26%) of them do not have an internet subscription of any kind at home either. Access to the digital highway—the new infrastructure for future success—has proven to be highly dependent on a family's current financial standing. Lack of access to the internet is having a daily impact that will be felt for decades into the future. Take for example the fact that Racine Unified School District—the fifth largest school district in the State of Wisconsin—has invested in software applications to enrich student learning and provide opportunities for all enrolled youth to learn beyond the classroom. However, in a majority minority school district in which over 60% of students are eligible to receive free or reduced-price lunch, many youth simply do not have the internet access needed to complete homework assignments and compete more effectively with their more affluent counterparts. As mentioned earlier, this project also will provide tools to address cross-departmental challenges, such as the inefficiencies and redundancies in a number of areas, including those experienced in building inspections and public health and safety service requests. This project will give our citizens of every socioeconomic background cutting-edge tools to compete. Likewise, it will provide the city government new tools to make its operations more transparent and base its decision-making on more comprehensive data. It will do all this while also providing the infrastructure needed to support and promote private-sector innovation.

Describe the project risks, including but not limited to technology obsolescence, policy and regulatory blockers, cash flow, and construction delays.

[1 Points]

The following are among the potential project risks: --TECHNOLOGY OBSOLESCENCE...The generations of cellular technology continues to accelerate. There are already mentions of 8G research and development. However, each generation has built to some degree on the infrastructure of the last generation. Accordingly, the City of Racine believes it is important to invest in building a robust network now in order to be competitive when subsequent generations are deployed. To mitigate its risks, the City is working closely with university researchers and private-sector leaders to ensure technology investments are prudent and aligned with the direction of future developments, to the greatest degree possible. --POLICY & REGULATION...Regulations pertaining to installation of small cells and the siting of those assets are incomplete. The City of Racine will establish its own pro-technology policies and reflect them in local ordinances as well as work with industry partners to educate relevant State of



Wisconsin administrators and members of the Wisconsin Legislature. --FINANCIAL CONSTRAINTS...As with every project and municipality, there are numerous worthy initiatives all competing for resources. The City of Racine has prioritized its investment in its Smart City Initiative and projects comprising it. Monies for initial phases of the projects have already been allocated in the Fiscal Year 2019 budget; additional resources will be allocated in the Fiscal Year 2020 budget as that process gets underway in May. Lastly, the City of Racine is working with the private sector and advisors to consider how it can monetize the investments it is making in Smart City infrastructure, and would welcome Smart Cities Council technical assistance with respect to this topic. Monetization is a key strategy for continuing future investments.

Why is Environmental Services a priority area for you?

[5 Points]

Why is Human Services a priority area for you?

[5 Points]

Why is Public Safety a priority area for you?

[5 Points]

There is no more important role of government than protecting the safety of its residents, businesses, and visitors. The City of Racine has made public safety one of its top priorities, and it is clearly demonstrated in the City's sustained record of continuous improvement. Like police departments across the nation, the Racine Police Department reports violent and property crimes, sometimes referred to as Part 1 Crimes, to the U.S. Department of Justice. Those crimes include homicides, rapes, robberies, aggravated assaults, burglaries, thefts, motor vehicle thefts, and arsons. Between 2007 and 2016 (the most recent year for which data are available), the Racine Police Department successfully reduced violent and property crimes by 43.4%. From 2011 to 2016, these Part 1 Crimes declined by 35.2%. Similarly, the Racine Fire Department has continued to offer an increasingly diverse array of value-added services. Indeed, its original mission of fire suppression equals just 15% of all calls the Department receives annually. Some 85% of all calls for service received by the Department are for emergency medical services, with the majority of those calls requiring advanced life support. Today, not only does the City of Racine recognize the Fire Department as providing so much more value in terms of public safety, so does the State of Wisconsin. The City of Racine Fire Department is the designated Regional Type 2 Hazardous Materials Team for Southeastern Wisconsin, and also is the agency providing emergency water, confined space, and high angle rope rescues. Why is the Public Safety Area a priority? Continuing the trend of making the city and its citizenry safer will require augmenting its experienced and highly trained public safety/emergency services staff with new and broader technological tools. Specifically, the City of Racine Public Safety project will improve public safety by: --integrating OptiCom or similar technology that would allow activated emergency services/public safety vehicles to communicate with traffic control systems; provide those vehicles prioritization; and align traffic signals accordingly to expedite such services --leveraging a combination of Cityworks, G.I.S., and other software and private-sector stakeholder engagement to obtain, store, and make accessible in real time to police and fire officials the three-dimensional layouts of office, commercial, civic, social, and industrial facilities as well as the location of toxic or other dangerous materials, which would be invaluable during emergencies—from fires to active shooter crime scenes --installing high-resolution and thermal cameras along the lakefront to provide emergency services with greater ability to pinpoint individuals who may be in distress in Racine Harbor or other areas along Lake Michigan—areas which have proven to be particularly difficult in darkness --incorporating the use of autonomous vehicles equipped with cameras and other crime-detering equipment to conduct random public safety tours through blocks/neighborhoods with higher rates of burglary activity, thereby reducing windows of opportunity without requiring additional personnel --ensuring the City of Racine autonomous vehicle public transit fleet is equipped with technology to prioritize activated emergency vehicles The Public Safety project will reduce response times, improve outcomes, and literally save lives.

Why is Buildings a priority area for you?

[5 Points]

What other area is a priority area for you?

[5 Points]

Why is Payments a priority area for you?

[5 Points]

Why is Emergency Response and Resilience a priority area for you?

[5 Points]

Why is Transportation a priority area for you?

[5 Points]

Not only is the City of Racine faced with a digital divide, it also faces a transportation divide. There is a real divide between the location of



family-supporting jobs—particularly in manufacturing—compared to the location of available labor. Additionally, the City of Racine is facing rising costs for a public transit system that cannot financially support operations of smaller passenger shuttles needed to transport workers to outlying employers. For well over a century, the City of Racine has been known for its manufacturing sector. Since the wrenching losses in manufacturing jobs during the 1980s recession, the City of Racine has had a persistently high unemployment rate. In fact, its unemployment remains the highest of any major city in the State of Wisconsin. The countywide unemployment rate is 3.1% and the unemployment rate of Mount Pleasant—the suburban community surrounding the City of Racine, where many newer manufacturing plants have been constructed—is 3.0%. In comparison, the unemployment rate for the City remains a full percentage point higher at 4.0%. The contrast is much greater when considering poverty rates: City of Racine, 20%; Racine County, 10.9%; Mount Pleasant, 6.6%. The City of Racine has a significant population available to work. However, given the high level of poverty, many lower-income city residents do not have the personal transportation to reach the high-job areas outside the city's corporate limits. Staffed bus routes to job growth pockets dispersed outside the city have proven cost prohibitive for relatively small ridership. The development and expansion of an autonomous fleet of shuttles would support more flexible transit solutions; reduce the cost; attract new corporate partners desiring to participate in testing driverless technologies; and allow more city residents to gain those manufacturing job opportunities. City resident employment, earnings, and benefit coverage would increase, which would translate into greater economic impact and activity in the City of Racine. More families would be able to afford to buy and improve a home, rather than rent. Autonomous vehicle transportation is about jobs, economic prosperity, equity and inclusion, and continuing Racine's legacy of being an "Invention City." If the City of Racine can achieve autonomous vehicle transportation in a small-to-medium-sized community with its partners and the technical support of the Smart Cities Council, it will be a model for rest of the nation's municipalities—the vast majority of which are similarly sized.

Why is Waste Management a priority area for you?

[5 Points]

Why is Economic Development a priority area for you?

[5 Points]

Why is Health a priority area for you?

[5 Points]

Why is Education and Workforce Development a priority area for you?

[5 Points]

Why is Digital City Services a priority area for you?

[5 Points]

In many ways, the Digital City Services project the City of Racine is proposing is its most important in that it serves as the foundation for achieving the other two priority areas: Autonomous Vehicle Transportation and Public Safety, and addressing so much more. By way of summary: --The City of Racine faces a significant digital divide as well as extraordinary poverty...challenges that has been linked inexorably to race and household income for years. A major goal of the Digital City Services project is to address these challenges and help both youth and adults of all socioeconomic and ethnic backgrounds leverage communitywide connectivity technology to realize their full potential to compete in, and contribute to, the economy. --The City of Racine has historically high unemployment rates following an extended period of deindustrialization. According to CTIA research, the City of Racine stands to gain an additional \$118 million in GDP and 724 jobs through installation and adoption of low latency, high-speed 5G wireless technology—a foundational element of the Digital City Services project. --The City of Racine aims to become first Smart City to test, operate, and evaluate autonomous vehicle transportation. The public infrastructure development to take place under the Digital City Services project will build and expand the network necessary to support driverless transportation. --The City of Racine seeks to make services and service-related data more accessible to the public and engage residents and businesses more meaningfully. Part of the Digital City Services is focused on integrating technology that will afford residential and corporate citizens greater opportunities to inform municipal government officials and get involved. --The City of Racine has been known as the "Invention City" because of the wide-ranging inventions that were borne out of this small community, from the blender and hair dryer to the self-propelled, steam-powered automobile. The Digital City Services will build the public infrastructure needed to encourage a new generation of innovation, particularly as relates to the Internet of Things (IoT). Access to the digital highway—the new infrastructure for future success—is having a daily impact that will be felt for decades into the future without the successful implementation of the Digital City Services project.

Why is Energy a priority area for you?

[5 Points]

Why is Water and Wastewater a priority area for you?

[5 Points]



Why is Sports, Culture, Leisure and Tourism a priority area for you? [5 Points]

Why is Street Infrastructure a priority area for you? [5 Points]

What are your long-term goals for making progress in is other area? [5 Points]

What are your long-term goals for making progress in the Digital City Services area? [5 Points]

The City of Racine Digital City Services project aims to accomplish a number of important long-term goals: --advance equity and inclusion, --enhance the competitiveness of its human talent across all socioeconomic backgrounds and age cohorts --make city services more accessible to residents, businesses, and visitors, and --accelerate the community's economic growth by embracing high-speed ubiquitous 5G wireless technology installation and encouraging rapid adoption. Because of the importance of the project to the future of this city, its people, and business community, municipal officials and project partners very much encourage the Smart Cities Council to select the City of Racine as an example of how small-mid-sized can be transformed with local public-private commitment and world-class technical assistance.

What are your long-term goals for making progress in the Energy area? [5 Points]

What are your long-term goals for making progress in the Buildings area? [5 Points]

What are your long-term goals for making progress in the Sports, Culture, Leisure and Tourism area? [5 Points]

What are your long-term goals for making progress in the Public Safety area? [5 Points]

The City of Racine seeks to achieve the following long-term goals through its Public Safety project: --reduce all forms of crime impacting residents, businesses, and visitors, particularly violence- and property-related crimes, --reduce loss of life and property due to fire and other emergencies, and --improve resident and business perceptions about public safety If technology is integrated meaningfully into the performance of public safety/emergency services, the City of Racine will experience a number of positive impacts, including: --INCREASED ECONOMIC ACTIVITY...The City of Racine should see more economic activity as businesses find it increasingly safer to locate and operate in neighborhoods and areas of all backgrounds. This economic activity will help fuel further funding for additional services and service improvements. --INCREASED RESIDENCY...More individuals and families should take advantage of lower-than-average housing costs. The median housing price for a home in the City of Racine is \$50,000 less compared to the statewide median housing price.

What are your long-term goals for making progress in the Payments area? [5 Points]

What are your long-term goals for making progress in the Economic Development area? [5 Points]

What are your long-term goals for making progress in the Health area? [5 Points]

What are your long-term goals for making progress in the Waste Management area? [5 Points]

What are your long-term goals for making progress in the Education and Workforce Development area? [5 Points]

What are your long-term goals for making progress in the Transportation area? [5 Points]



Long-range goals for the Transportation project are ambitious, including: --testing, operating, and evaluating the integration of an array of autonomous vehicles on public roads among conventional transportation --augmenting the City of Racine public transit system with autonomous vehicle transportation to allow drivers to continue focusing on high-volume routes while still accommodating more flexible transportation to outlying employers --informing the state and federal dialogue regarding autonomous transportation and the adoption of new policies and regulations relating to its use and operations on public roads and highways --reducing the City of Racine public transit carbon footprint --establishing a sustainable transportation strategy to support City of Racine residents gaining family-supporting jobs with outlying employers

What are your long-term goals for making progress in the Emergency Response and Resilience area? [5 Points]

What are your long-term goals for making progress in the Environmental Services area? [5 Points]

What are your long-term goals for making progress in the Street Infrastructure area? [5 Points]

What are your long-term goals for making progress in the Human Services area? [5 Points]

What are your long-term goals for making progress in the Water and Wastewater area? [5 Points]

Which, if any, of the following does your long-term vision address for this other area? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Environmental Services? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Health? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Economic Development? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Payments? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Energy? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Sports, Culture, Leisure and [5 Points]

**Tourism?**

Please click in the area

below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Digital City Services?

[5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☒ Economic development
- ☒ Social equity
- ☒ Digital equity
- ☒ Resilience
- ☒ Sustainability
- ☒ Efficiency
- ☒ Citizen engagement
- ☒ Safety
- ☒ Public Health

Which, if any, of the following does your long-term vision address for Emergency Response and Resilience?

[5 Points]

Please click in the area

below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Water and Wastewater?

[5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Education and Workforce Development?

[5 Points]

Please click in the area

below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Human Services?

[5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Public Safety?

[5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☒ Economic development
- ☒ Social equity
- ☐ Digital equity
- ☒ Resilience
- ☒ Sustainability
- ☒ Efficiency
- ☒ Citizen engagement



- ☒ Safety
- ☒ Public Health

Which, if any, of the following does your long-term vision address for Transportation? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

- ☐ Not applicable
- ☒ Economic development
- ☒ Social equity
- ☒ Digital equity
- ☐ Resilience
- ☒ Sustainability
- ☒ Efficiency
- ☒ Citizen engagement
- ☒ Safety
- ☒ Public Health

Which, if any, of the following does your long-term vision address for Waste Management? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Buildings? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Which, if any, of the following does your long-term vision address for Street Infrastructure? [5 Points]

Please click in the area below to add an option to your list. You can click additional items and add all options that apply. Use the 'x' to delete an item from your list.

Briefly describe your efforts to date and their results in this other area? [5 Points]

Briefly describe your efforts to date and their results in the area of Transportation. [5 Points]

Autonomous vehicle transportation is an ambitious project, no matter the size of the community attempting it. However, the City of Racine and its partner's are moving aggressively, and have made the following progress, to date: --analyzed the location, age, and density of the City of Racine's 27.5 miles of conduit and fiber optic network as well as its light poles --identified potential testing grounds as well as public road routes for Phases 0-3 --developed a preliminary timeline and milestones --met with leadership of Wisconsin Department of Transportation regarding its participation in the project and associated policy-making --formed a public-private project team

Briefly describe your efforts to date and their results in the area of Economic Development. [5 Points]

Briefly describe your efforts to date and their results in the area of Street Infrastructure. [5 Points]

Briefly describe your efforts to date and their results in the area of Waste Management. [5 Points]



Briefly describe your efforts to date and their results in the area of Public Safety.

[5 Points]

There are a number of initiatives underway to integrate technology in public safety, including: --introducing and rolling out body cameras for all Racine police officers --using the more than 250 City-owned cameras --leveraging the camera assets of individual residents, as needed (Example: Racine Police Department solved within 24 hours a shooting by gaining voluntary access to a nearby private citizen's Ring security system video) --positioning Community-Oriented Policing (COP) Houses in high-risk areas with neighborhood, equipped with cameras and ability to increase lighting --locating mobile unit(s) equipped with cameras and other devices to deter crime in high-risk areas

Briefly describe your efforts to date and their results in the area of Environmental Services.

[5 Points]

Briefly describe your efforts to date and their results in the area of Education and Workforce Development.

[5 Points]

Briefly describe your efforts to date and their results in the area of Energy.

[5 Points]

Briefly describe your efforts to date and their results in the area of Human Services.

[5 Points]

Briefly describe your efforts to date and their results in the area of Payments.

[5 Points]

Briefly describe your efforts to date and their results in the area of Health.

[5 Points]

Briefly describe your efforts to date and their results in the area of Digital City Services.

[5 Points]

The City of Racine has initiated a number of activities to drive forward its Digital City Services, including but not limited to: --adoption of Cityworks, which has provided the City of Racine and its various departments a common platform for data collection and analysis, including geospatial --adoption of Legistar, which has provided the residential and corporate citizens alike access to the agendas and minutes of the Common Council and city committees as well as opportunities to serve on boards --installation of 27.5 miles of conduit and fiber optic network, which supports public safety and emergency services and will contribute toward making autonomous vehicle transportation and Internet of Things (IoT) 5G technology possible --development of a public-private partnership with technology and higher education leaders capable of helping the City of Racine identify certain technology investments and mitigate risk of technological obsolescence

Briefly describe your efforts to date and their results in the area of Water and Waste Water.

[5 Points]

Briefly describe your efforts to date and their results in the area of Sports, Culture, Leisure and Tourism.

[5 Points]

Briefly describe your efforts to date and their results in the area of Emergency Response and Resilience.

[5 Points]

Briefly describe your efforts to date and their results in the area of Buildings

[5 Points]



Section: Smart City Plans and Progress

Smart City Plans and Progress Instructions

- This section provides a quick overview of your past, current, and planned smart city projects. Please provide a name and a summary paragraph for each project.
 - This section will not be scored, but it will provide important context for the judges. There are no wrong or right answers in this section. Applicants will NOT be graded on their progress to date, only on their ambitions for the future.
 - Questions labeled with a red * are required questions.
 - Use the arrows at the top of the page and the [next] and [back] buttons at the bottom of the page to navigate to the different pages of the section.
-

I have completed some smart city projects in the last two years?

- ☒ Yes
- ☐ No

Please list the smart city projects completed in the last two years.

The City of Racine has completed a number of Smart City projects over the last two years, including: --adopted Cityworks as its platform for data collection and analysis --selected CitySourced, an application supporting greater citizen engagement, and will roll out the application in early or mid-2019 --continued to expand its fiber optic network, which now totals 27.5 miles in coverage --continued to expand and maintain municipal Wi-Fi, which supports traffic signals and over 250 City-owned cameras

I have smart city projects underway but not yet complete?

- ☒ Yes
- ☐ No

Please list smart city projects underway but not yet complete.

The City of Racine has a number of Smart City projects underway, but not yet complete, including: --launching body cameras for 100% of Racine Police Department's sworn officers --rolling out CitySourced, the aforementioned citizen engagement application --rolling out new citizen engagement application for the Racine Water Utility's 120,000 residential and corporate customers, allowing them to monitor water usage and modify behaviors accordingly

I have smart city projects approved but not yet underway?

- ☐ Yes
- ☒ No

I have smart city projects planned but not yet approved?

- ☐ Yes
- ☒ No
-



I have smart city projects under consideration, but not yet approved or planned?

- ☒ Yes
☐ No

Please list the smart city projects under consideration, but not yet approved or planned.

The City of Racine established its Innovation Officer position in mid-January 2019. A number of potential projects have been discussed, but not evaluated or programmed. Following submission of the City of Racine 2019 Smart Cities Council Readiness Challenge application, the City Innovation Officer will host a planning session with senior city management and principal partners to begin developing an official pipeline of projects under consideration.

I have infrastructure projects approved but not yet underway (telecommunications, roads, highways, bridges, airport expansions, stadiums)?

- ☐ Yes
☒ No

I have large developments approved but not yet underway (neighborhoods, large apartments or condos, housing, re-development)?

- ☐ Yes
☒ No

Please list the large developments approved but not yet underway (neighborhoods, large apartments or condos, housing, re-development).

The City of Racine is garnering extraordinary interest in (re)development of prime locations, particularly but not exclusively throughout the downtown area adjacent to the Lake Michigan shoreline. A \$50 million lakefront redevelopment was just announced in December 2018, which will include nearly 250 market-rate housing units and close to 365,000 square feet of new construction. Groundbreaking will take place in early 2019. For more information, please visit The Journal Times article: https://journaltimes.com/business/local/with-video-racine-unveils-details-of-million-lakefront-development/article_0ba88fa0-eda9-5e4d-9645-3b6d659d9fd3.html Future redevelopments which are currently under consideration exceed \$600 million. The Mayor and Innovation Officer are working to raise a substantial amount of private capital to support these and a number of other developments, leveraging such federal investment tools as Opportunity Funds and New Market Tax Credits, as part of an Invest Racine campaign. The City of Racine does not see the Invest Racine campaign as separate from its Racine Smart City Initiative. Rather, it is part of the City's continuum of smart (re)development and tools to finance/accelerate them.



Section: Statements, Confirmations and Attachments

Statements, Confirmations and Attachments Section Instructions

- This section will help the judges better understand what the Smart Cities Readiness Challenge means to you and your community. It's also where you can share letters of support from stakeholders who would assist in making your Smart Cities Readiness Program a success.
- This section will be scored. If you look at each question you will see a number in the top right corner of the question if there is a point value for that question.
- Questions labeled with a red * are required questions.
- Use the arrows at the top of the page and the [next] and [back] buttons at the bottom of the page to navigate to the different pages of the section.

Why did you enter the Readiness Challenge?

[5 Points]

The City of Racine is excited to enter the 2019 Smart Cities Council Readiness Challenge. The City of Racine, Racine County, Gateway Technical College, the University of Wisconsin System, and Foxconn Technology Group, and so many other local public- and private-sector partners have invested significant time researching Smart Cities and conducting fact-finding tours nationally and internationally to see firsthand Smart Cities initiatives in action. The following are among the reasons the coalition has entered the Readiness Challenge: -- The Smart Cities Council Readiness Challenge has been an excellent exercise to help the greater Racine area coalition to organize around the lessons learned from others and the projects we collectively believe will have the greatest impact in advancing our community in an inclusive and sustainable way. --The Readiness Challenge presented a real challenge locally as the members of our broad public-private partnership considered what it would truly take to launch and implement the Racine Smart City Initiative. --The City and its partners see the Racine Smart City Initiative as a way of leveraging technology, public infrastructure, and public-private partnerships to address community challenges more proactively. The coalition sees the Readiness Challenge as an opportunity to test local assumptions and proposed strategies against the expertise of Smart Cities Council leaders, past Readiness Challenge winners, and private-sector judges. --The City of Racine, like so many communities that thrived because of industrialization, has had to confront extraordinary challenges in the aftermath of deindustrialization. The Readiness Challenge is helping the local coalition to envision how to embrace the Digital Age and harness technology to accelerate inclusive and sustainable growth. --Simply having dedicated public servants work more hours no longer constitutes a strategy or sufficient investment to change the future direction of the City of Racine. Local government staff need access to the tools that will help them offer the community more efficient and effective services, and the Smart Cities Council's mentoring can guide the City of Racine and its staff in making better choices sooner on behalf residents and corporate citizens.

Are you authorized to submit this application on behalf of your organization?

- ☒ Yes
☐ No

I would like to upload a letter of support from your organization's top executive?

I can earn [5 Points] if I upload a document.

- ☒ Yes
☐ No

Please upload a letter of support from your organization's top executive.

[5 Points]

Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4



Uploaded file(s):

- Mayor.pdf

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

In the event your organization wins the competition, are you prepared to supply venue, food, audio-visual, and other event expenses, either directly or by securing contributions?

☒ Yes

☐ No

What would winning mean for your community?

[5 Points]

Winning the 2019 Smart Cities Council Readiness Challenge will: --provide the City of Racine with access to the Smart Cities Council's expertise, technical assistance, and other extensive resources, which would help local public-private partners crystallize the Racine Smart City Initiative --raise the visibility of the City of Racine as several hundred million dollars of major (re)development projects are at various levels of consideration and planning --introduce corporations to the City of Racine and assist in forming new public-private partnerships --allow the City of Racine to accelerate its concept of blending the local Smart City Initiative with its nascent Invest Racine campaign—a proposed effort to establish a substantial private equity fund that would leverage federal tax benefits for individual and corporate investors while investing monies into both Smart Cities projects and other major (re)developments in eight targeted Racine census tracts The City of Racine also believes its winning would have meaning for the other similarly sized cities, particularly those which need to reimagine themselves in a post-industrial period. No city with a population under 100,000 has ever been selected by the Smart Cities Council as a Readiness Challenge winner. Racine's selection would demonstrate that small-to-medium-sized cities also have relevance in the Digital Age and can contribute toward advancing the Smart Cities movement.

I would like to upload a letter of support from a utility, agency or similar organization relevant to one or more of your priority projects?

I can earn [5 Points] if I

upload a document.

☒ Yes

☐ No

What is the total population of the Applicant and all supporting local governments?

- No Greater than 10,000
- 10,001 to 25,000
- 25,001 to 50,000
- ☒ 50,001 to 100,000
- 100,001 to 150,000
- 150,001 to 200,000
- 200,001 to 350,000
- 350,001 to 500,000
- 500,001 to 750,000
- 750,001 to 900,000
- 900,001 to 1,500,000
- Greater than 1,500,001

What will you do with the help provided?

[5 Points]

First, the City of Racine and its public-private partners will celebrate with the Smart Cities Council, its corporate affiliates, and other interested



parties. Then, the City of Racine would like to meet with the Smart Cities Council to develop an introduction to the resources available as well as the frequency of their availability. Upon understanding the resources and availability, the City of Racine would seek to establish a schedule and tentative itineraries that would maximize the use and impact of Smart Cities Council's invaluable help over 2019. It is important to note that the City of Racine is not simply interested in taking, but also seeks to give. Should the City of Racine be selected as a 2019 Readiness Challenge winner, the City offers to partner with the Smart Cities Council to document Smart Cities lessons learned from the unique perspective of a small-to-medium-sized city in the post-industrial era. The combination of the Smart Cities Council's global expertise and perspective twinned with the City of Racine's experiences and unique vantage point would provide a powerful partnership for educating others.

Please upload a letter of support from a utility, agency or similar organization relevant to one or more of your priority projects.

[5 Points]

Please upload a DOC,

DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Uploaded file(s):

- Racine_Water_Utility.pdf

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

How will you factor vulnerable and underserved populations into your smart city program?

[5 Points]

Equity and inclusion are a central pillar of the City of Racine's Smart City Initiative. Among those benefiting from the: --Digital City Services project being proposed are the significant number of individuals and families who currently have no access to the internet...those who are on the wrong side of the Digital Divide --Public Safety project being proposed are the individuals and families who are impacted by a crime, fire, or medical emergency, and for whom response times could mean the difference between life and death, salvaging one's property or losing it all -- Autonomous Transportation project being proposed are job candidates and workers who may not be able to afford their own personal transportation; those seniors and persons with disabilities that may not be able to drive independently and whose destinations may be beyond the high-demand routes currently being managed by the City of Racine public transit system As is reflected in the Stakeholder Engagement section, the City of Racine will invite and welcome the involvement of people of every background in the planning and evaluation of Smart Cities projects. What is more, the City of Racine just created the Strategic Initiatives & Community Partnerships Officer position, which will focus heavily on equity and inclusion challenges and opportunities, including engaging vulnerable and underserved populations.

I would like to upload a letter Letter of support from a college or university?

I can earn [4 Points] if I upload a document.

☒ Yes

☐ No

Please upload a letter of support from a college or university.

[4 Points]

Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Uploaded file(s):

- UW-Parkside.pdf

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

What else should judges know when considering your application?

[5 Points]

Judges should know that the City of Racine has embraced the Smart Cities movement as a meaningful way to advance equity, inclusion, livability, workability, and sustainability. Not only has the City's new Mayor traveled domestically and internationally to meet with Smart Cities



officials and partners and understand the types of projects they are implementing to benefit residents and businesses, the City's Common Council adopted a resolution endorsing the advancement of the Racine Smart City Initiative. The City of Racine is not only stopping at investing in expanding its existing 27.5 miles of conduit and fiber optic network, rolling out new mobile applications to provide residents and corporate citizens greater access to their local government and data, and participating in advancing autonomous vehicle testing, operations, and evaluation. The City recently appointed its first Innovation Officer to coordinate and oversee Smart Cities and other related development initiatives. Equally importantly, the City has established two other positions that also will play important roles in advancing Smart Cities principles: the Strategic Initiatives & Community Partnerships Officer, and Sustainability & Conservation Officer. The City of Racine is a ready, willing, and eager partner for the Smart Cities Council and its corporate partners. The City brings with it: --the University of Wisconsin-Madison College of Engineering, which is a leader in autonomous vehicle research and development, --University of Wisconsin-Parkside, which is already teaching courses, hosting a speakers' series, and presenting an annual conference on Smart Cities --Gateway Technical College, America's first publicly funded technical college --Foxconn Technology Group, the world's fourth largest technology company Lastly, the judges should know that small-to-medium-sized cities have a resilience, creative spirit, and passion for partnering that is uniquely borne out of both necessity and their civic DNA. Often, America's largest cities—"first-class cities"—have flexibility under state law that simply does not exist for cities of smaller populations. This impacts everything from the types of taxes and fees that may be levied to the types of services it may control locally. Cities of smaller cities have to confront an array of social and economic challenges without the same range of tools, requiring them to explore different strategies and approaches in order to compete and thrive. Racine is such a city. To use a boxing phrase, Racine—its diverse people and businesses—punches above its weight. If judges are going to select a small-to-mid-sized city for the 2019 Smart Cities Council Readiness Challenge, Racine is the city ready to represent and make the most of the opportunity!

Why should they choose this application over others?

[5 Points]

The City of Racine believes it would be an ideal selection for the 2019 Smart Cities Council Readiness Challenge. The City has provided a number of reasons throughout the application, particularly in this section. Undoubtedly, the City, its residents, and businesses would benefit from being selected as one of the 2019 Smart Cities Council Readiness Challenge winners. However, as mentioned earlier, the City of Racine also recommends its selection because of what it would mean for similarly sized communities across the country. In the 2017 and 2018 Smart Cities Council Readiness Challenges, the winners included the cities of Austin, Texas; Indianapolis, Indiana; Miami, Florida; Orlando, Florida, and Philadelphia, Pennsylvania; Birmingham, Alabama; Cary, North Carolina; Las Vegas, Nevada; and Louisville/Jefferson County, Kentucky, ranging in population from 165,000 to 1.6 million residents. There are approximately 300 U.S. municipalities with populations over 100,000. To put it into perspective, cities with a population of 100,000 or more represent just 1.5% of all incorporated U.S. municipalities. The City of Racine is representative of the 98.5% of all U.S. incorporated municipalities, which have populations under 100,000. Selecting the City of Racine would provide the Smart Cities Council with an enthusiastic small-to-medium-sized municipal laboratory and partner that could more effectively inform the advancement of Smart Cities efforts of similarly sized communities nationwide.

I would like to upload a letter Letter of support from a chamber of commerce or business improvement district?

I can earn [4 Points] if I

upload a document.

☒ Yes☐ No**Please upload a letter of support from a chamber of commerce or business improvement district.**

[4 Points]

Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Uploaded file(s):

• RAMAC.pdf

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

The Council seeks to make a lasting difference. Should you win, please discuss how you would continue your smart city efforts after the conclusion of the Readiness Program.

[5 Points]

Even without any



designation from the Smart Cities Council, the City of Racine has budgeted funding in both its operations and capital budgets to continue making investments. It has invested in the creation and continuation of the Innovation, Sustainability & Conservation, and Strategic Initiatives & Community Partnerships Officer positions reporting directly to the Mayor. It has made commitments to continue investing in expanding its conduit and fiber optic network, as the City has done for well over 20 years. The traditional approaches taken to fund these efforts will allow the City of Racine to continue investing. However, as the Racine Smart City Initiative grows, it will require greater resources to maintain and continue expanding it. To provide greater resources to continue advancing the Smart Cities movement in Racine, the City will: --leverage its recently conceptualized Invest Racine campaign, which would raise private equity as part of an Opportunity Fund to invest in Smart Cities projects and related (re)developments in Racine's three Opportunity Zones—allowing individual and corporate investors to defer, discount, or eliminate unrealized capital gains liability while also making a reasonable rate of return from Racine-based investments --leverage an array of federal and state tax credits and other incentives, including New Market Tax Credits, Housing and/or Historic Preservation Tax Credits that can be incorporated as part of the capital stack for Smart Buildings/Smart Cities projects --monetize its Smart Cities-related public infrastructure, including its existing 27.5 miles of fiber optic network and more than 3,000 light poles, and reinvest proceeds into maintaining and expanding the Smart Cities assets The City of Racine is committed to the Smart Cities movement, and views it as an initiative of strategic importance to the community and its future success.

I would like to upload a letter Letter of support from a neighboring city or regional association?

I can earn [4 Points] if I upload a document.

- ☒ Yes
☐ No

Please upload a letter of support from a neighboring city or regional association.

[4 Points]

Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Uploaded file(s):

- RCEDC.pdf

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 4

I would like to upload a letter of support?

I can earn [3 Points] if I upload a document.

For cities: A letter of support from your county. For counties: A letter of support from at least one city in your jurisdiction. For states: A letter of support from at least one city or county in your jurisdiction. For regional authorities, ports, districts, and private developments: A letter of support from a significant entity in your region, such as a city or county.

- ☒ Yes
☐ No

Please upload a letter of support.

[3 Points]

For cities: A letter of support from your county. **For counties:** A letter of support from at least one city in your jurisdiction. **For states:** A letter of support from at least one city or county in your jurisdiction. **For regional authorities, ports, districts, and private developments:** A letter of support from a significant entity in your region, such as a city or county.

Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 4

Uploaded file(s):

- Racine_County.pdf

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx



Maximum uploaded files is: 4

I would like to upload something else: Other, including background documents, RFIs, smart city plans, etc?

I can earn [4 Points] if I

upload a document.

- ☒ Yes
☐ No

Please upload a something else: Other, including background documents, RFIs, smart city plans, etc.

[5 Points]

Describe and upload each document separately.

Please upload a DOC, DOCX or PDF File. Maximum size: 50Mb. Maximum number of files: 10

Uploaded file(s):

- City_of_Racine_Common_Council_Resolution_Advancing_Racine_Smart_City_Initiative.pdf

Maximum upload file size: 50MB

Allowed Extensions: pdf,doc,docx

Maximum uploaded files is: 10

End of Application

This is the end of the application. If you feel you have completed the application and uploaded all required files you can go to the top of the page and click the orange SUBMIT APPLICATION button located on the top right

WARNING: Please make sure to check everything twice before you submit this application. Once you have submitted your application you can not make any changes or updates.

**Office of the Mayor
Cory Mason**



City of Racine, Wisconsin

City Hall
730 Washington Ave
Racine WI 53403
262 636-9111
262-636-9570 FAX
mayor@cityofracine.org

February 14, 2019

Jesse Berst, Chairman
Smart Cities Council, Inc.
1900 Campus Commons Drive, Suite 100
Reston, VA 20191

Dear Chairman Berst:

The City of Racine is an incredible community with a storied history. No city has more of a claim on being home to innovation. From the first self-propelled, steam-driven automobile and gasoline-powered lawnmower to the blender, garbage disposal, hair clippers, and malted milk, all were invented here.

The combination of the ingenuity of our people and the investments both public- and private-sector entities made led to an explosion of innovation. S.C. Johnson, Hamilton Beach, Case (now CNHI), Modine, Twin Disc, and so many more internationally recognized companies all were founded here.

Such was the economic growth that the City of Racine became the second largest city in Wisconsin by population. Jobs were plentiful and family-supporting, and success was available to all, irrespective of race, nationality, gender, or religion.

Confronted with the aftermath of deindustrialization, the City of Racine has faced significant economic and social challenges like so many other cities. As the Digital Age continues to unfold, the City of Racine is poised for an economic comeback. My fellow city officials and I believe the formula for future success includes investing in our people, our public-private partnerships, and our infrastructure; integrating and leveraging technology; and being intentional about equity, inclusion, and sustainability every step along the way.

The City of Racine has embraced fully the potential that the Smart Cities approach could mean for its people, businesses, and the quality of life for the overall community. The City's submission for the 2019 Smart Cities Council Readiness Challenge represents our best efforts based on lessons learned from research and fact-finding tours to Smart Cities as diverse as Nanjing, China and Kansas City, Missouri. However, to realize that full potential, the City needs access to the expertise, technical assistance, and other resources of the Smart Cities Council.

The City of Racine has been home to innovation for nearly 200 years. With the support of the Smart Cities Council, this community will ignite a new era of innovation, equity, and sustainability. Together, our respective entities can make this community a laboratory capable of informing the future work of hundreds of similar-sized, post-industrial cities.

On behalf of the City of Racine, I urge you, your colleagues, and panel of judges to select this community as one of the five 2019 Smart Cities Council Readiness Challenge winners.

Sincerely,


Cory H. Mason
Mayor



JONATHAN DELAGRAVE

Office of the County Executive

730 Wisconsin Avenue

Racine, WI 53403

262-636-3273

fax: 262-636-3549

jonathan.delagrave@racinecounty.com

February 14, 2019

The Honorable Cory Mason, Mayor
City of Racine
Racine City Hall
730 Washington Avenue
Racine, WI 53403

RE: 2019 Smart Cities Council Readiness Challenge

Dear Mayor Mason:

With Foxconn Technology Group—the world's fourth largest technology company—establishing locations in the City of Racine and Village of Mount Pleasant, there has been an explosion of interest in finding new innovative ways to use technology to serve our communities' residents and businesses more efficiently. Together, we have had the opportunity to research Smart Cities initiatives, visit metro areas that have become nationally recognized leaders in the Smart Cities movement, and discuss what Smart Cities could mean for our local governments and region.

Racine County is pleased to partner with the City of Racine as it continues to develop the Racine Smart City Initiative and competes in the 2019 Smart Cities Council Readiness Challenge. Located along Lake Michigan and home to nearly 80,000 residents and 5,000 companies, the City of Racine is poised for extraordinary redevelopment and economic growth. The Racine Smart City Initiative will accelerate that redevelopment and economic growth, while increasing residents' access to quality city services.

The City of Racine is leading the way on Smart Cities initiatives in Wisconsin, and Racine County is proud to support the City's efforts.

Sincerely,

A handwritten signature in cursive script that reads "Jonathan Delagrave".

Jonathan Delagrave
Racine County Executive

**Racine Water and
Wastewater Utilities**

Keith E. Haas, P.E.
General Manager



Michael L. Gitter, P.E.
Chief of Operations
Kenneth M. Scolaro, C.P.A.
Administrative Manager

Chad W. Regalia, P.E.
Chief Engineer

February 13, 2019

The Honorable
Cory Mason, Mayor
City of Racine
Racine City Hall
730 Washington Avenue
Racine, WI 53403

Dear Mayor Mason:

The Racine Water Utility is pleased to participate in the Racine Smart City Initiative and support the City of Racine 2019 Smart Cities Council Readiness Challenge submission.

The Racine Water Utility supplies potable water to over 120,000 residential and corporate consumers across much of Racine County. Already, in conjunction with the Racine Smart City Initiative, the Racine Water Utility is actively working to launch a mobile application that will allow consumers to monitor their water usage. Empowering consumers by providing them with greater access to data is an important pillar of the Racine Smart City Initiative.

The 2019 Smart Cities Council Readiness Challenge has served as a catalyst for shaping community leaders' thinking about leveraging technology to improve services and the quality of life of residents. The Racine Water Utility is proud to be a partner in the Racine Smart City Initiative's planning and implementation, and urges the Smart Cities Council to designate the City of Racine as one of the 2019 winners.

Sincerely,

A handwritten signature in black ink, appearing to read 'Keith Haas', is positioned below the word 'Sincerely,'.

Keith Haas
General Manager
Racine Water Utility



February 14, 2019

The Honorable
Cory Mason, Mayor
City of Racine
Racine City Hall
730 Washington Avenue
Racine, WI 53403

Dear Mayor Mason:

For nearly two centuries, Racine has been an ideal location for business and innovation. Over that period of time, native Racinians and immigrants alike have recognized Racine as a special place to dream big, and translate those dreams into products and services that have changed the quality of life literally for millions of people around the nation and world.

Now, as a way of laying a solid foundation for future public- and private-sector innovation in the digital age, the City of Racine is competing in the 2019 Smart Cities Council Readiness Challenge. Racine Area Manufacturers and Commerce supports your efforts to invest in the City's own innovative uses of technology providing greater access to local government for residents and businesses; its development of public infrastructure to foster greater entrepreneurship, particularly focused to innovative applications relating to the Internet of Things (IoT); and its partnership with global corporations, such as Foxconn Technology Group—which will be launching an Innovation Center in downtown Racine.

On behalf of its more than 500 members, Racine Area Manufacturers and Commerce endorses the City of Racine Smart City Initiative, and encourages the Smart Cities Council to select the City of Racine as one of the 2019 Smart Cities Council Readiness Challenge winners.

Sincerely,

Matt J. Montemurro
President/CEO



Connecting Communities | Facilitating Jobs | Growing Businesses

February 13, 2019

Cory Mason, Mayor
City of Racine
Racine City Hall
730 Washington Avenue
Racine, WI 53403

Dear Mayor Mason:

For years, Racine County Economic Development Corporation (RCEDC) has partnered with the City of Racine and Racine County in recruiting new businesses and development to Racine County. The arrival of Foxconn Technology Group and its \$10 billion investment in the development of the Wisconsin Valley Science & Technology Park has prompted each of us to consider how technology is changing so many sectors of the economy and creating new ones. The fact-finding visit to Kansas City to meet with Smart City leaders challenged regional leadership to think about how local government can reinvent itself in the digital age.

The City of Racine is taking a leadership role in convening public- and private-sector partners to discuss municipal challenges and how the community may be able to integrate technology as part of a more comprehensive strategy to solve them. Its submission for the 2019 Smart Cities Council Readiness Challenge reflects the best of lessons learned through our research and fact-finding as well as the expertise of Racine officials, corporate leaders, and associations.

RCEDC strongly supports the City of Racine submission to the Smart Cities Council and I look forward to the Smart Cities Council's technical assistance and other support upon award.

Respectfully,

A handwritten signature in dark ink, appearing to read "Jenny Trick", is written over a horizontal line.

Jenny Trick
Executive Director

February 14, 2019

Hon. Cory Mason, Mayor
City of Racine, Racine City Hall
730 Washington Avenue
Racine, WI 53403

Dear Mayor Mason:

The University of Wisconsin-Parkside has been an enthusiastic partner with the City of Racine in embracing the Smart Cities movement. Like the City, the University of Wisconsin-Parkside believes Smart Cities initiatives—when conceptualized and implemented with equity as a guiding principle—can be powerful accelerants for inclusive and sustainable economic growth.

As part of its commitment to advancing Smart Cities, the University of Wisconsin-Parkside has hosted a Smart Cities speaker series; has developed curricula and begun offering Smart Cities classes; and has planned and hosted an annual Smart Cities conference. It also has partnered with the City of Racine as part of its Smart City Initiative, and is pleased to offer this letter of support for the 2019 Smart Cities Council Readiness Challenge.

From the City to the University of Wisconsin-Parkside to Gateway Technical College to our newest major employer—Foxconn Technology Group, Racine has come together as a region around the proposition of using technology to realize greater livability, equity, workability, and sustainability. The submission for the Smart Cities Council Readiness Challenge reflects our public-private partnerships and provides an ideal opportunity for the Smart Cities Council to learn from the next phase of Smart Cities planning and implementation in this small-to-mid-sized Midwestern city.

I encourage the Smart Cities Council to give careful consideration to the City of Racine and its Smart City Initiative, and believe that the Racine Smart City Initiative is worthy of selection as a 2019 Smart Cities Council Readiness Challenge winner.

Sincerely,



Dr. Deborah L. Ford
Chancellor
University of Wisconsin-Parkside

A RESOLUTION ON ADVANCING THE RACINE SMART CITY INITIATIVE

WHEREAS, no municipality has demonstrated a greater spirit of innovation or had a stronger claim to the title of “Invention City” than the City of Racine over nearly a 200-year span, having been the birthplace of so many important advancements with global impact; and

WHEREAS, Racine’s spirit of innovation has been driven by the ingenuity of its people combined with the City’s enduring commitment to building and maintaining public infrastructure—from roads and rail to the port and utilities—forming the solid foundation needed to support advancements in every sector; and

WHEREAS, a Smart City is a community that uses new technology to accelerate the delivery of benefits to city residents by improving livability, equity, workability, and sustainability; and

WHEREAS, the City of Racine seeks to continue its commitment to innovation by becoming Wisconsin’s first Smart City, harnessing the power of today’s new public infrastructure of emerging information and communications technologies; and

WHEREAS, the City of Racine seeks to launch a Smart City Initiative that will leverage its wide array of data—from emergency management, public safety, and water consumption to public health, transit, and traffic control—to drive more intelligent, effective, and efficient decision-making while protecting the privacy of its people; and

WHEREAS, its Smart City Initiative will provide the City of Racine with a key competitive advantage to fuel future economic development and vitality for its residents and businesses, alike;

**NOW, THEREFORE, BE IT RESOLVED BY THE COMMON
COUNCIL OF THE CITY OF RACINE:**

That we hereby acknowledge, endorse, and support the Mayor’s efforts to:

1. Establish a Smart City Initiative to generate a broad range of benefits for businesses and residents
2. Seek Designation as a Smart City
3. Draft a Smart City Implementation Strategy

4. Participate in the Smart Cities Council Readiness Challenge, allowing the City to access best practices in use of integrated technology and systems implementation
5. Educate the public about the Smart City Initiative and its role in increasing citizen engagement, equity and inclusion, and economic growth
6. Create public-private partnerships to advance a Smart City Initiative
7. Solicit public and private funding and investments to continue expanding and upgrading the City's Smart Cities technological infrastructure

FILE NUMBER RES. 0079-19

Agenda Date: February 5, 2019

File Type: Resolution

2019 SMART CITIES COUNCIL READINESS CHALLENGE

Resolved, that permission is granted to the Mayor to authorize the City to apply for the 2019 Smart Cities Council Readiness Challenge.

Date Passed by Common Council: February 5, 2019


MAYOR CORY MASON

I, Tara Coolidge, certify that this is a true copy of Resolution No. 0079-19 passed by the Common Council on February 5th, 2019.

Attest:


CLERK TARA COOLIDGE

Date: February 11, 2019