

Global City Teams Challenge (GCTC)

What is the GCTC?



GCTC is a collaborative platform for the development of smart cities and communities led by the National Institute of Standards and Technology of the U.S. Department of Commerce, and in partnership with other U.S. federal agencies. The aim is to create groundbreaking Cyber Physical Systems (CPS) and Internet of Things (IoT) applications within a city by international project teams. These technologies will enable cities and communities to improve services, promote economic growth, and enhance the quality of life.

What is an Action Cluster?

An Action Cluster is an assembly of partners committing to work on specific issues related to smart cities, by sharing the knowledge and expertise with their peers, giving added-value to their national and local experience and identifying gaps that need to be fulfilled at the European level.

Smart and Secure Cities and Communities Challenge (SC3)

The on-going SC3 program has been created in order to encourage participating teams to focus on cybersecurity and privacy issues.

Participation guide for GCTC/SC3 events

Join the Network of 2018-2019 Action Clusters

A new action cluster must submit a full worksheet. All approved action clusters will be added to the latest action clusters list and offered a space on the GCTC Wiki page.

Partner to build an Action Cluster

The GCTC Team Building discussion board provides a platform to search for municipal and/or private sector partners. Post your needs or capabilities and find suitable partners.

Submit a Worksheet

To create an action cluster, each team must complete and submit a project worksheet to gctcinfo@nist.gov. This will be reviewed and accepted after verification that all requirements are met.

Attend the GCTC/SC3 Expo

[GCTC/SC3 Expo - planned for July 10-12, 2019, in Washington, DC](#) - is the largest smart city and Internet of Things (IoT) annual event hosted by the U.S. federal government. Anyone can attend the event, but the opportunity to exhibit and speak is offered to approved action clusters and SuperClusters. To speak or exhibit, visit:

<https://pages.nist.gov/GCTC/about/participation-guide/>

Domains of Interest

- ❖ Transportation
- ❖ Public safety
- ❖ Utilities (energy, water, waste management)
- ❖ Wireless
- ❖ Data (platform, governance, exchange)
- ❖ Agriculture and rural area
- ❖ Education
- ❖ Smart Building
- ❖ Other domains of smart communities, cities, IoT

Cybersecurity and Privacy should be included in every domain!

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What is a SuperCluster?

SuperClusters are multi-city, multi-stakeholder collaborations organized around common project objectives and shared solutions within a sector. These teams create blueprints to be used by cities and communities around the world to implement smart city strategies. Examples include:

Transportation SuperCluster (TSC)

Forward-looking municipalities manage the TSC as a means to prepare their infrastructure for new technologies that will provide better, more equitable services at lower cost. Advanced transportation models and environmental sensors are developed for use. Projects focus on autonomous vehicles and parking management.

Public Safety SuperCluster (PSSC)

The PSSC is a public-private partnership dedicated to developing, piloting and integrating technology applications; testing new operating procedures and employment methods; improving situational awareness before, during, and after an emergency; and integrating current and future IoT technologies.

Wireless SuperCluster (WSC)

In order to develop best practices for the deployment of wireless systems, the WSC focuses on vertical segments within the wider wireless ecosystem. This includes conducting analysis of successful deployments, and producing blueprints based upon stakeholder input from interviews, workshops, and reviewed case studies.

Utility SuperCluster (USC) - Energy/Water/Waste Management

The USC addresses leading sustainability issues in cities for Energy, Water and Waste by bringing cities and counties together in the United States and around the world with academia and technology partners to demonstrate real world class examples and best practices.

Data SuperCluster (DSC)

As data is at the heart of Smart City, it is important to focus on data governance and exchange challenges. For example, in order to handle all the data from thousands of IoT sensors, this group is collecting best practices and producing blueprints for data exchange and governance.

Agriculture and Rural SuperCluster (ARSC)

The ARSC focuses on ensuring viable rural communities for farmers and other residents by improving educational resources, healthcare and economic development. Special attention is given to farming best practices for precision agriculture and livestock management, such as improved broadband-enabled access.

Education SuperCluster (ESC)

The ESC was formed to serve an integrating function between and across the SuperClusters in order to address critical challenges facing communities in the areas of education and workforce development.

Cybersecurity and Privacy Advisory Committee (CPAC)

The CPAC is a public-private partnership dedicated to built-in cybersecurity and privacy best practices and considerations in Smart Secure Cities and Communities. CPAC provides champions to support SuperClusters' leadership teams and invite SuperClusters' leaders into CPAC leadership to guide its direction and priorities. Membership is open to all communities, private sector enterprises, non-governmental organizations, and government agencies (at all levels).