



**Homeland
Security**

Science and Technology

IOT AND SMART CITIES

Sokwoo Rhee

Associate Director of Cyber-Physical Systems Innovation

National Institute of Standards and Technology (NIST)

U.S. Department of Commerce

Global City Teams Challenge (GCTC)

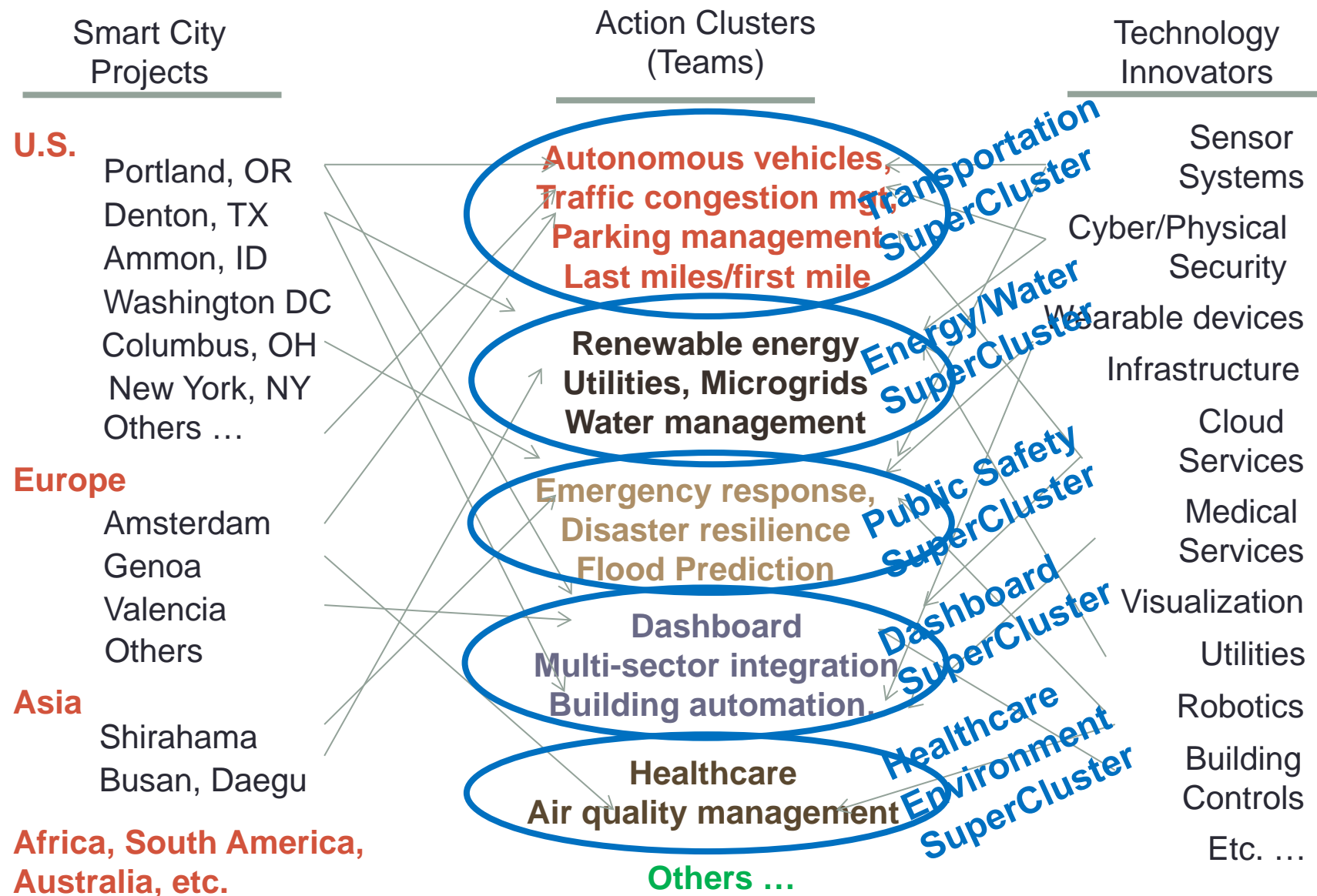


Homeland
Security

Science and Technology

- Establish and demonstrate replicable, scalable and sustainable models for collaborative incubation and deployment of interoperable, standard-based Internet of Things (IoT) solutions and demonstrate their tangible and measurable benefits in communities and cities
- Tackle the cybersecurity, privacy, and trustworthiness issues as the first order concern.

GCTC Approach “SuperClusters”



GCTC Clusters

- Over 200 Action Clusters since 2014
 - 160+ cities and communities, 400+ companies, universities, non-profits
 - <https://pages.nist.gov/GCTC/action-clusters/>

- 7 SuperClusters

- Transportation
- Public Safety
- Utility
- Wireless
- City Data Platform
- **Data Governance/Exchange SuperCluster (New)**
- **Agriculture and Rural area SuperCluster (New)**
- <https://pages.nist.gov/GCTC/super-clusters/>



2018 GCTC-Smart and Secure Cities and Communities Challenge (SC3)

NIST-DHS S&T CSD Partnership

- Many cities and communities are aware of the cybersecurity, privacy, trustworthiness risks in their deployments, but not many of them have a clear vision and expertise to address them.
- Industry stakeholders are eager to address cybersecurity, privacy, and trustworthiness issues in smart cities/communities as well, but struggling to find a clear business and engagement model.
- 2018 GCTC, in partnership with US Department of Homeland Security Science and Technology Directorate (DHS S&T) will tackle these issues as the first order concern.

2018 GCTC-SC3 Concept

Smart Cities Partnership



- Building on NIST's Global City Teams Challenge (GCTC) program, NIST and DHS S&T will run a 12 months program for teams of cities and innovators to demonstrate value and return on investment for designed-in trustworthiness for smart city deployments.
- A team building conference ("Kickoff") is planned for February 6-7, 2018 in Washington DC.

For More Information

- Contact
 - Sokwoo Rhee (sokwoo.rhee@nist.gov)
- 2018 GCTC-SC3 Kickoff Conference in Washington DC
 - <https://pages.nist.gov/GCTC/event/gctc-kickoff-2018/>
- GCTC web site:
 - <https://pages.nist.gov/GCTC/>
 - <https://www.nist.gov/el/cyber-physical-systems/smart-american-global-cities>
- To sign up for updates:
 - [Mailto:gctcinfo@nist.gov](mailto:gctcinfo@nist.gov) with “Subscribe” in the subject line.