Smart and Connected Communities Technology and Social Science Working Together for Better Society

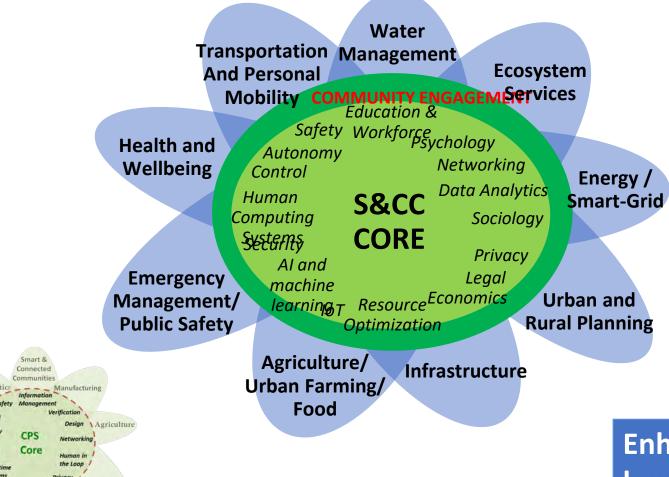
Dr. David Corman

Program Director Directorate for Computer and Information Science and Engineering National Science Foundation December 17, 2019

Smart and Connected Communities video

https://www.youtube.com/watch?v=Wm4Elder 2CQ&feature=youtu.be

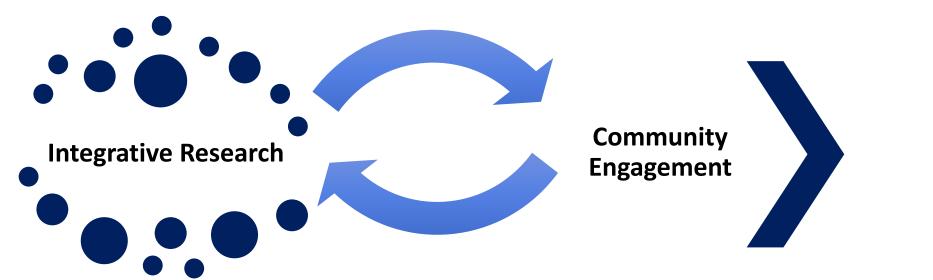
The value of fundamental research in smart and connected communities (S&CC)



A fundamental understanding of the complex, dynamic interactions between technology and society is essential for unlocking the potential benefits of smart and connected communities.

Enhances scientific and engineering knowledge in ways that improve the quality of life within communities.

Successful Smart & Connected Communities Research



term Scientific and Community Impact

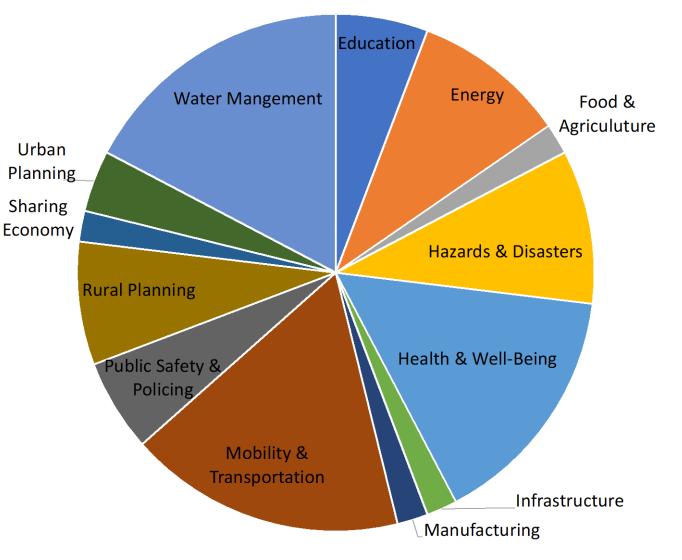
Near- and Long-

Research that integrates and advances social, behavioral, and economic sciences, policy and implementation, and technical disciplines.

Research questions inspired by community needs and iterative cycle of conducting research, and piloting and evaluating solutions in the community. Enabling university community partnerships, civic engagement, and education and workforce development to facilitate long-term benefits of innovation.

NSF's Smart and Connected Communities program

- Advancing technological and social research dimensions
- Integrating community stakeholders within projects
- Managing across disciplines, institutions, and community entities
- Evaluating short, medium, and long-term impacts of the activities



52 Awards; \$42.3 million

S&CC website: <u>NSF.gov/SCC</u>

International Collaborations for SCC

- NSF recognizes value of international collaborations and how they can significantly grow the research impact
- NSF plans to discuss with JPI Urban further opportunities for collaborative funding
- Meanwhile:
 - Researchers with existing NSF funding can always propose supplements to extend research with international collaboration - NSF funds US portion, other agency funds international side
 - Individual PI initiated for specific proposals leveraging existing agreements with various countries – for example - Joint Solicitation or international track to an existing solicitation CPS solicitation NSF 19-553 included a track with DGF Germany on Networked CPS
 - PI can propose NSF sponsorship of International / collaborative workshops