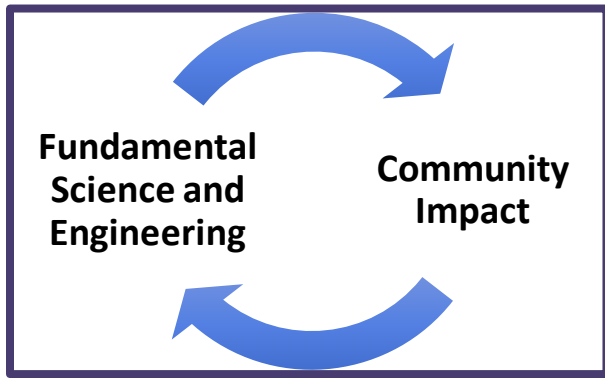


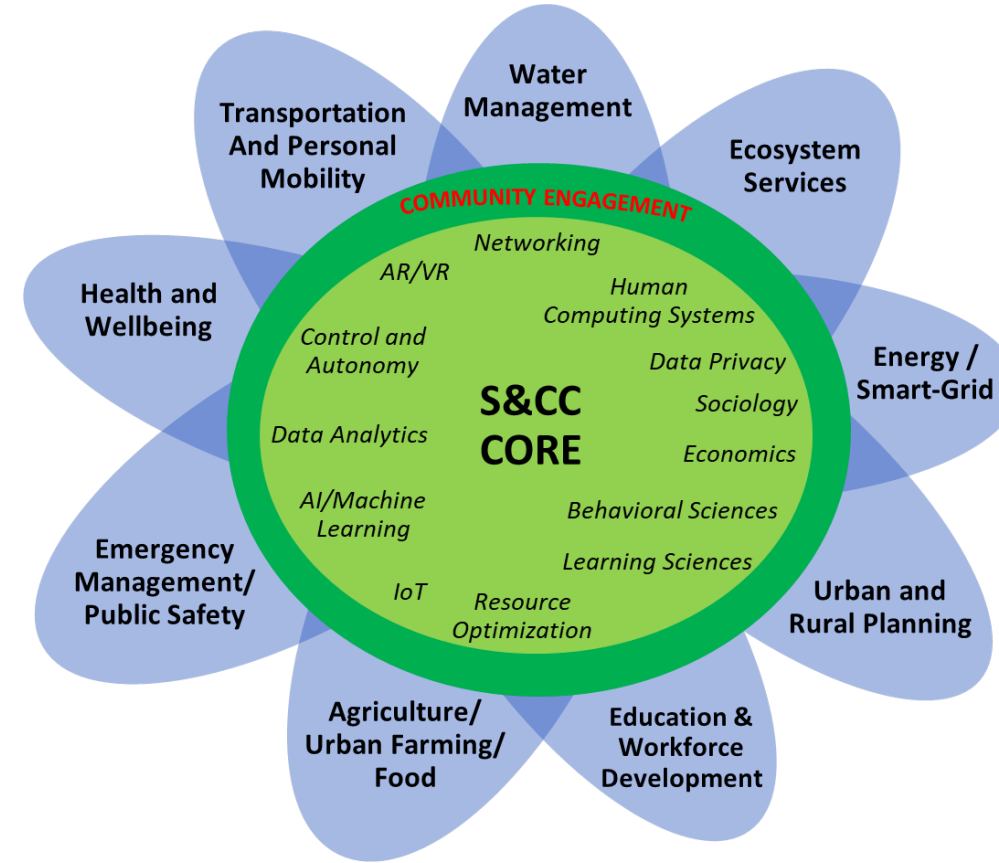


# **NSF's Smart and Connected Communities Program**

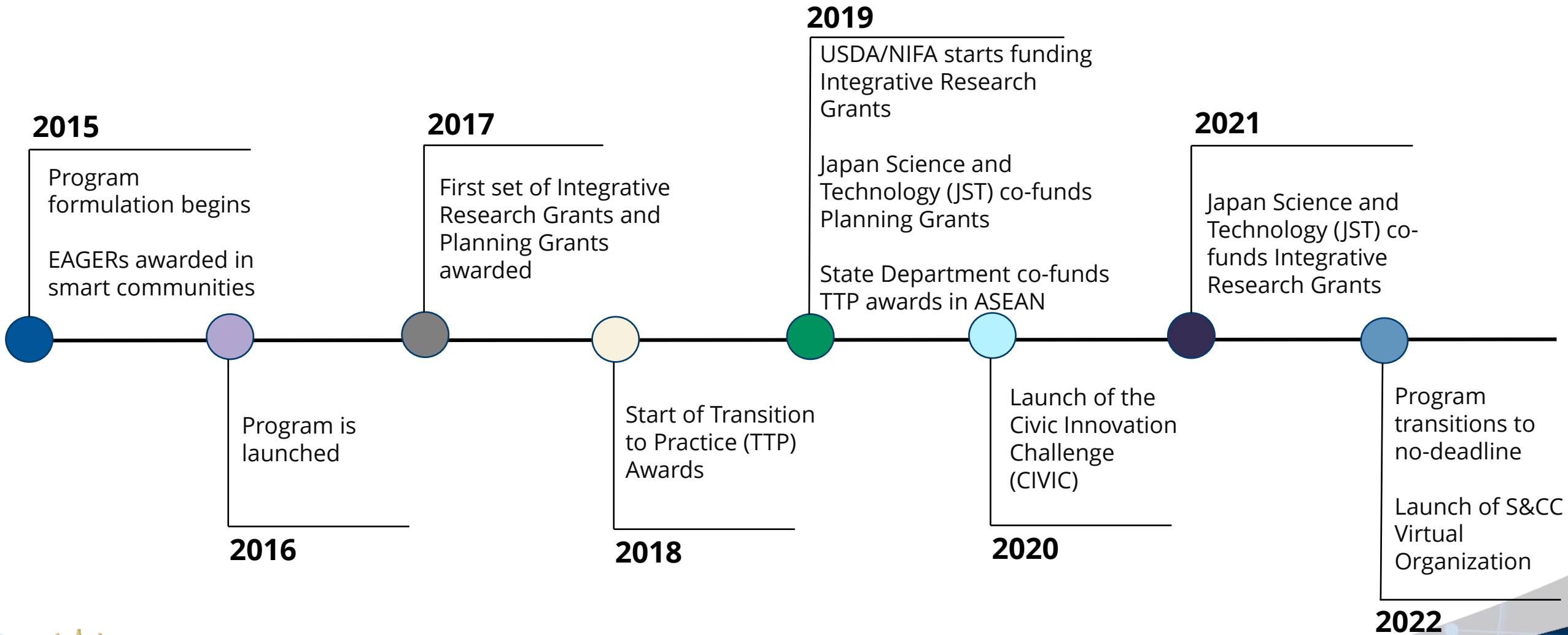
# Program Goals and Motivation



- **Use-inspired, community-focused research** to improve quality of life.
- Fundamental **technological and social science dimensions** of smart and connected communities.
- **Pilot research activities** together with communities.
- **Scalability and transferability** of research outcomes; sustainability beyond the life of the NSF award.



# Evolution of the Program

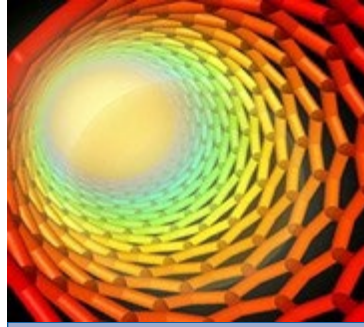




# S&CC Integrates Research Across NSF Directorates



**Computer & Info  
Science &  
Engineering**



**Engineering**



**Education &  
Human  
Resources**



**Social,  
Behavioral &  
Econ. Sciences**



**Geosciences  
(including Polar  
Programs)**



**International  
Science &  
Engineering**



# Federal and International Partners



**Awards Supporting Research in  
Smart Ag, Food Security, and  
Rural Resilience**



**Transitioning Emerging  
Technologies to the ASEAN region**



**Co-Funding Research in  
Emerging Mobility Platforms**



**Japan Science and  
Technology Agency**

**Co-Funding of US and Japanese  
Teams Addressing Disaster and  
Pandemic Resilience**



# S&CC Awards: By The Numbers

|   |                        |                                       |
|---|------------------------|---------------------------------------|
| <b>Integrative Research Grants</b>  | <b>Planning Grants</b> | <b>Research Coordination Networks</b> |
| 68 Awards<br>\$117M   | 102 Awards<br>\$14M    |                                       |
| <b>Transition to Practice</b>   | <b>International</b>   | 5 Awards<br>\$2.5M                    |
| 7 Awards<br>\$2.5M  | 17 Awards<br>\$4M      |                                       |
| <b>190 Awards with over \$140M in funding (over \$9M in Co-Funding from Partner Agencies) across 44 States + DC, including 21 Awards in EPSCoR States</b> |                        |                                       |

## People Supported:

Over

**800** PIs, Co-PIs, and other Senior Personnel

**70** Postdoctoral Investigators

**750** Graduate Students

**210** Undergraduate Students





# Communities Supported by S&CC



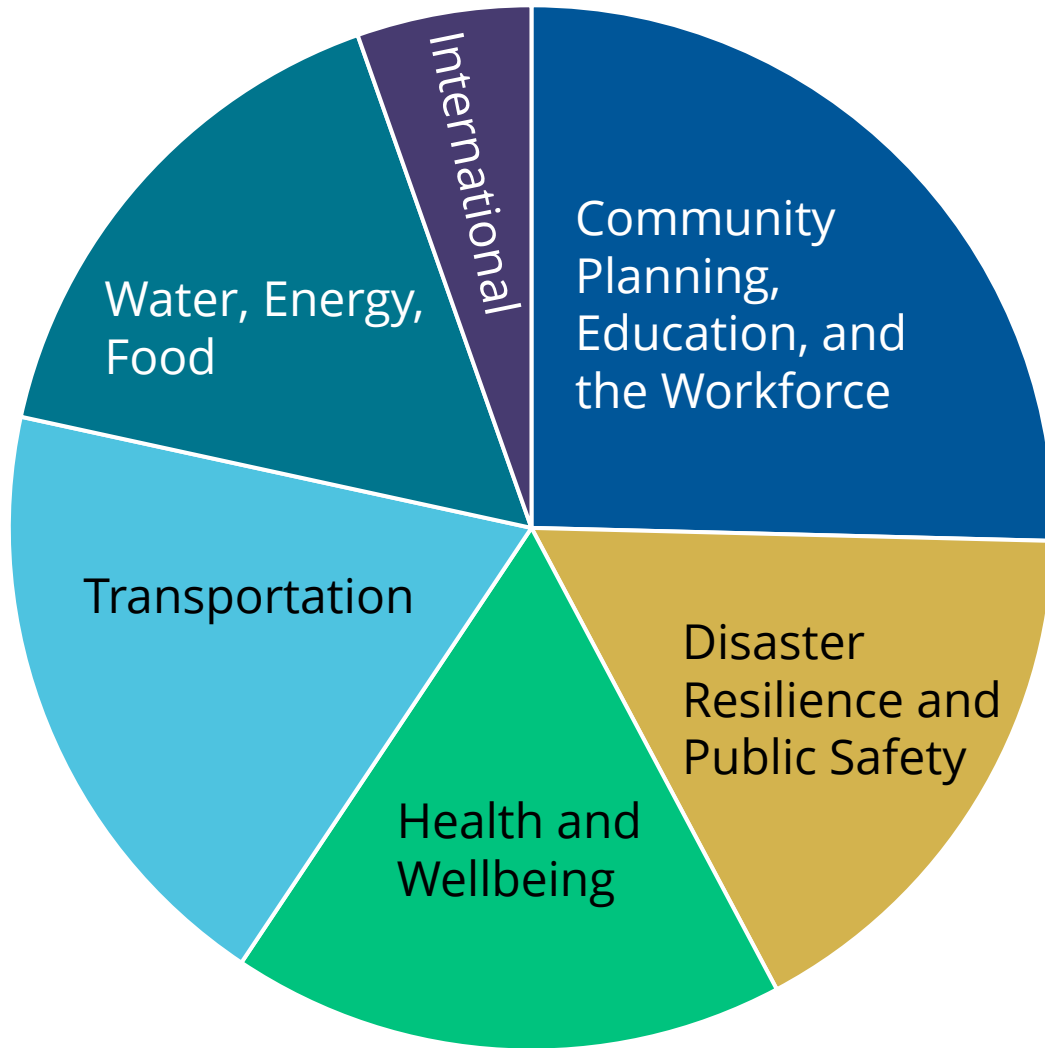
## S&CC Community Examples

|                    |  |
|--------------------|--|
| Large Cities       | Seattle (WA), Los Angeles (CA), New York City (NY) |
| Mid-Sized Cities   | Indianapolis (IN), Buffalo (NY), Baltimore (MD)    |
| Rural Communities  | Elma (IA), Platte County (NE)                      |
| Tribal Communities | Sitka (AK), Rio Arriba County (NM)                 |
| International      | Makassar (Indonesia), Tokyo (Japan)                |

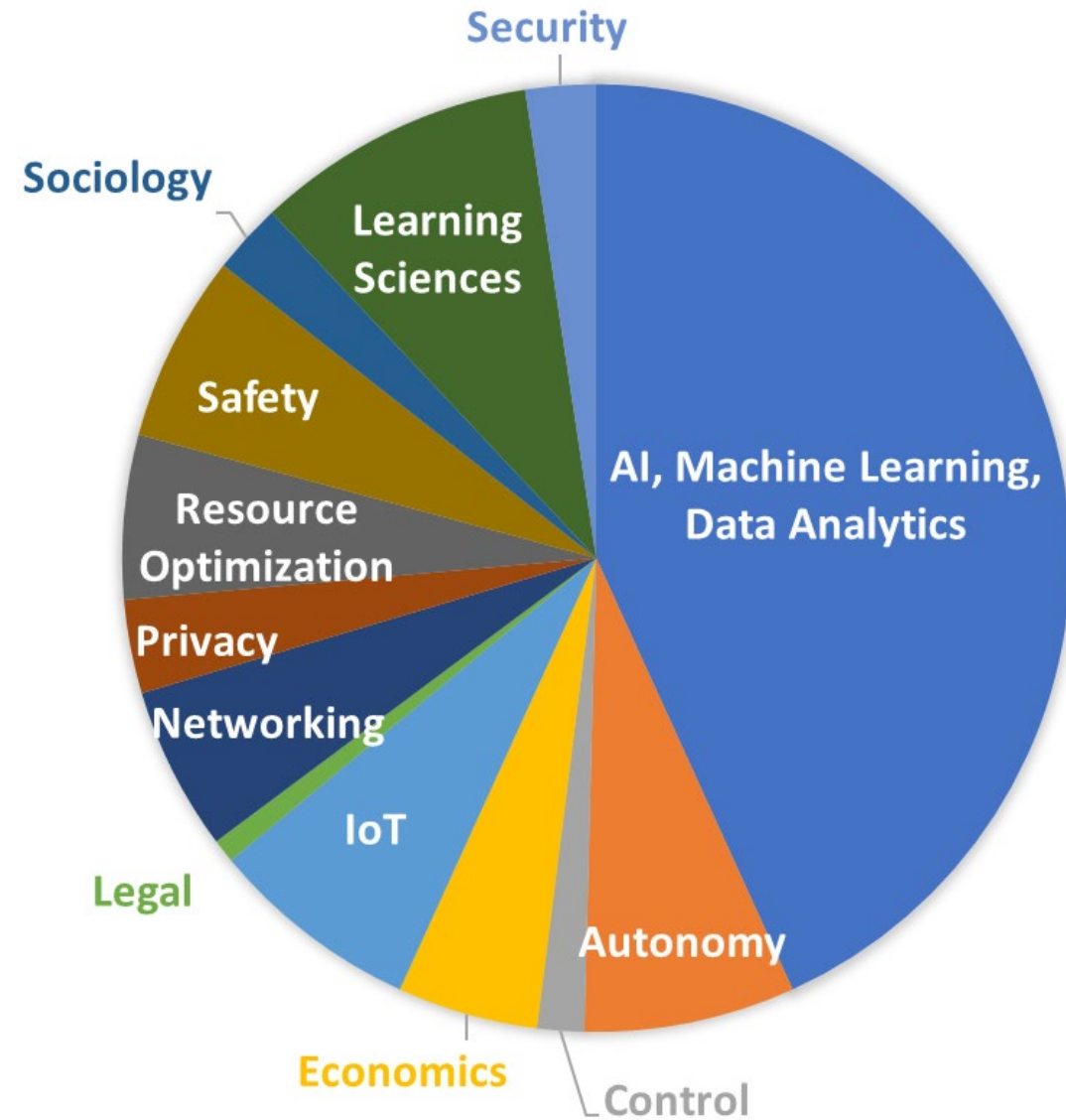
## Community Stakeholder Examples

|   |
|---|
| Local/State Government Offices/Agencies   |
| NGO's                                     |
| Utility Providers                         |
| Faith-Based Organizations                 |
| Neighborhood Associations/Advocacy Groups |

# Program Portfolio



**Application Domains**



**Research Areas**

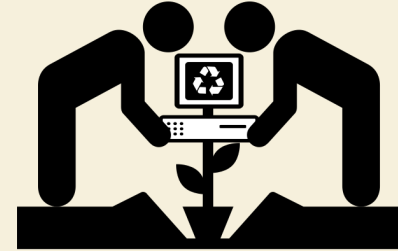




# Defining Impact and Success



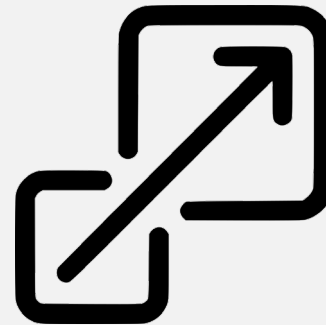
**Foundational Research Advancements  
Integrating Social and Technical Disciplines**



**Working with Communities to Address  
Challenges and Create New Capabilities**



**Training of Students in Sociotechnical  
Research and Community-Engagement**



**Life Beyond the NSF Award; Scaling  
Sustaining, and Transferring of Outcomes**

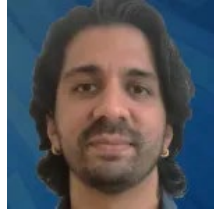
# Program Team



David Corman  
Program Director  
(CISE/CNS)



Michal Ziv-El  
Program Director  
(CISE/CNS)



Vishal Sharma  
Assistant Program Director  
(CISE/CNS)



Linda Bushnell  
Program Director  
(CISE/CNS)



John Taylor  
Program Director  
(CISE/CNS)



Ralph Wachter  
Program Director  
(CISE/CNS)



Wendy Nilsen  
Deputy Division Director  
(CISE/IIS)



Sylvia Spengler  
Program Director  
(CISE/IIS)



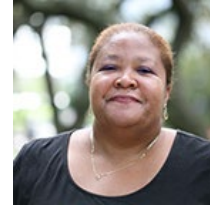
Yueyue Fan  
Program Director  
(ENG/CMMI)



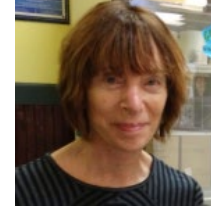
Daan Liang  
Program Director  
(ENG/CMMI)



Leilah Lyons  
Program Director  
(EHR/DRL)



Chrystal Smith  
Program Director  
(EHR/HRD)



Sara Kiesler  
Program Director  
(SBE/SES)





SCC VO: <https://sccvo.org/>