One Bridge at a Time: Bridging the Digital Divide for the Well-Being of Aging Populations in Smart and Connected Communities

Anil Yazici and Jacqueline Mondros, Stony Brook University; Eren Ozguven and Walter Boot, Florida A&M and Florida State University; David Eby, University of Michigan

Research Coordination Network (RCN) - FY 2017

The *objective* of this Smart and Connected Communities (S&CC) Research Coordination Network (RCN) project is to develop a collaborative, multidisciplinary research platform to study the relationship between S&CC and the built environment (e.g., varying urban densities), centered on creating S&CC that incorporate the aging population

Problem Statement

The physical, cognitive, and/or perceptual challenges prevent older adults from taking advantage of SCC technologies. There is a need for older adults to have venues to communicate their issues with researchers and practitioners from a wide range of backgrounds – engineers, health professionals, social scientists, community activists, homemakers, to name a few.

Activities: Three workshops

- "Challenges and Solutions for Involving the Aging Population in Smart and Connected Communities" at Stony Brook University, 4/19-20/2018
- "Bridging the Digital Divide for the Well-Being of Aging Populations in Smart and Connected Communities" (virtual), 10/29/2021
- "Bridging Resilience Divides: Technology, Transportation, and Communications" at Florida A&M and State University, 4/14-16/ 2022

Immediate Broader Impacts

- training Developed education and • Direct interactions with older adults during sustained and programs, resear RCN events regarding ongoing research and collaborations fostered by RCN activitie practice initiatives, and technology products e.g., "Grow Your Ridership by Welcomi • Wider dissemination of RCN presentations, Older Adults" course by Karen Alexand findings, and research needs statements for (Rutgers University), funded by Federal the aging population and research Transit Administration, with support from communities through RCN channels Virginia Dize (National Transit Institute)

Intellectual Merit

Connecting national and international researchers and community organizations who otherwise carry out studies in their respective fields with limited interaction and tackling S&CC challenges within a network which is true to the interdisciplinary nature of S&CC in the areas of transportation, public safety/emergency services, and housing.

Activities: Special Conference Sessions and Journal Issues

Long-Term Broader Impacts

Intelligent Transportation Systems and Disadvantaged Populations: Technology Adoption Challenges and Bridging the Digital Divide -21st IEEE International Conference on Intelligent Transportation Systems Conference (ITSC2018)

Bridging the Digital Divide for the Well-Being of Aging Populations in Smart and Connected Communities - Transportation Research Interdisciplinary Perspectives Journal (open access)

	Next Steps for 2022-2023
nal rch ies,	 Preparing concluding remarks of Re activities based on FL workshop roundtal discussions
ning der aral	 Keeping the journal special issue active receive and publish more papers

• Finalizing the RCN initiated survey on older adults' short and long term technology adoption following COVID19 period











