The Center to Stream HealthCare In Place (C2SHIP) promotes industry, academia, and government partnerships to develop innovative technologies for a decentralized healthcare model. This *Care In Place* model supports healthcare delivery where people live, work, and play, which enables more personalized management of chronic health conditions and real-time medical care to remote areas.

C2SHIP's cutting-edge research accelerates innovation through multi-specialty collaborations and resource sharing, and trains a workforce in the development of self-care technologies. This effort has great potential to transform health care delivery and remote patient care, reduce health care cost, and improve quality of life.

C2SHIP creates breakthroughs by

- Extracting and validating clinically meaningful information from sensor technologies designed to manage chronic disease
- Conducting quick proof of concept clinical studies
- Designing clinical trials to scientifically validate newly designed technologies or explore new health informatics applications
- Determining market fit and gaining customer insights
- Facilitating learning opportunities for users of new technologies designed to manage chronic disease
- Determining application-centered criteria (e.g., form factor, machine learning, data visualization, and multi-modal interfaces) to optimize interaction with patients, care givers, and care providers
- Designing protocols to secure streaming data that is compatible with different healthcare protocols (e.g., clinical trials, FDA regulations, HIPAA/HITECH compliance, VA healthcare system)
- Delivering effective healthcare through state-of-the-art infrastructures (e.g., drones, wireless, cloud, smart transportation)

C2SHIP members have access to unique resources and collaboration opportunities:

- State-of-the-art resources including access to the Texas Medical Center, the largest medical complex in the world, and TigerPlace, a unique Aging-In-Place senior housing facility, to validate the usefulness of healthcare technologies efficiently, clinically, and scientifically
- Real time medical care delivery for urgent needs in organizations serving the defense community
- Recruitment opportunities to attract outstanding graduate students, clinical experts, and postdoctoral fellows
- Royalty-free non-exclusive licensing of intellectual property developed through C2SHIP projects
- Significant cost saving to conduct prototype testing, clinical trials, and applied research and development in the university environment through a pre-negotiated 10% Indirect Cost Rate
- Significant cost savings to organize clinical and educational workshops for patients, care givers, and clinicians in uses and advances of new technologies designed to better manage chronic disease

- One-stop access to an interdisciplinary team that includes world renowned clinical and research faculty to assist with: a) determining market fit, b) gaining patient insights, c) understanding unmet needs in managing chronic illnesses, d) identifying the criteria needed to successfully scientifically validate and translate new technologies to manage chronic illness
- Access to an expert team with skills in programming, cloud/edge computing, blockchain, and manufacturing of new technologies to assist with designing clinical studies, writing FDA protocols, overseeing patient recruitment, mining data, and securing data
- Ability to access and learn from the results, outcomes, and intellectual property of research efforts across the diverse Center projects
- Opportunities for leveraged/joint grant funding for larger programs and projects

The five funded sites include the University of Arizona, Baylor College of Medicine, University of Southern California, California Institute of Technology, and University of Missouri, with the University of North Dakota as an Affiliate member, pending their funding as the sixth site.

Join the weekly C2SHIP Think Tank on Fridays at 8am PT / 10am CT via Zoom

at: https://bcm.zoom.us/j/98007575414 where you will find talks given by industry and academic partners. See also https://c2ship.org for a schedule and contact information.

The IUCRC program funds pre-competitive research, cooperatively defined, with shared value:

- Industrial members pool their funding investments to address pre-competitive shared needs
- The shared project portfolio is cooperatively defined and selected
- $50K per year for Full membership
- The NSF IUCRC agreement provides an organizational framework for coordination of industry-inspired research
- Royalty-free nonexclusive access to IP by members
- Requires trust to be built in the model and among all partners in the center