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# CARTA

## Center for Accelerated Real Time Analytics

A National Science Foundation-Funded IUCRC
[ INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER ]

**ASU** Arizona State University

**RUTGERS** UNIVERSITY | NEW BRUNSWICK

**TEL AVIV UNIVERSITY**

**UMBC** AN HONORS UNIVERSITY IN MARYLAND
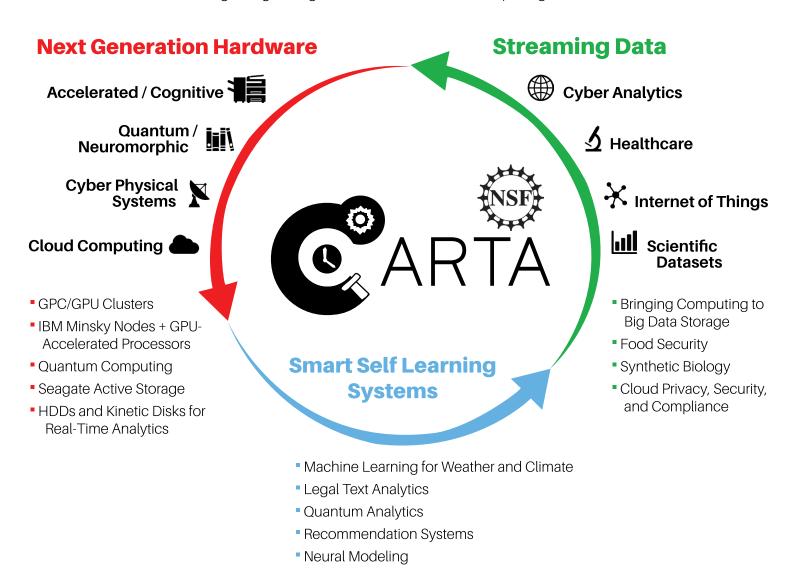
**UNIVERSITY OF MIAMI**

NSF  CARTA

# NSF CARTA

Together, Rutgers University New Brunswick, Arizona State University, the University of Maryland Baltimore County (UMBC), Tel Aviv University, and the University of Miami form the National Science Foundation (NSF) Center for Accelerated Real Time Analytics (CARTA).

Formed in 2018, CARTA is part of the NSF's IUCRC (Industry/University Cooperative Research Centers) program. CARTA has an extraordinary roster of industry and government partners who are focused on cutting-edge interdisciplinary research in real-time analytics to address problems of national significance.

CARTA works with next-gen hardware technologies to build Cognitive Analytics systems and Active storage devices for real-time analytics. This will lead to the automated ingestion and simultaneous analytics of Big Datasets generated in various domains including: Cyberspace, Healthcare, Internet of Things (IoT) and the Scientific arena, and to the creation of self-learning ''smart'' systems.

To become a CARTA member, or you have any questions, please contact us:

carta@miami.edu
305.243.4962

The National Science Foundation **Center for Accelerated Real Time Analytics**, NSF CARTA, brings industry, academia, and government together to work on cutting-edge research in data analytics with a focus on real-time decision making using next-generation accelerated computing.



## Next Generation Hardware

**Accelerated / Cognitive**

**Quantum / Neuromorphic**

**Cyber Physical Systems**

**Cloud Computing**

- GPC/GPU Clusters
- IBM Minsky Nodes + GPU-Accelerated Processors
- Quantum Computing
- Seagate Active Storage
- HDDs and Kinetic Disks for Real-Time Analytics

## Streaming Data

**Cyber Analytics**

**Healthcare**

**Internet of Things**

**Scientific Datasets**

- Bringing Computing to Big Data Storage
- Food Security
- Synthetic Biology
- Cloud Privacy, Security, and Compliance

## Smart Self Learning Systems

- Machine Learning for Weather and Climate
- Legal Text Analytics
- Quantum Analytics
- Recommendation Systems
- Neural Modeling

NSF CARTA is supported by more than 20 members from industry and government agencies. Our research teams include 50+ faculty from six universities, and 15+ graduate students.

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