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CARTA
Center for Accelerated Real Time Analytics

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

NC STATE UNIVERSITY

RUTGERS UNIVERSITY | NEW BRUNSWICK

TEL AVIV UNIVERSITY

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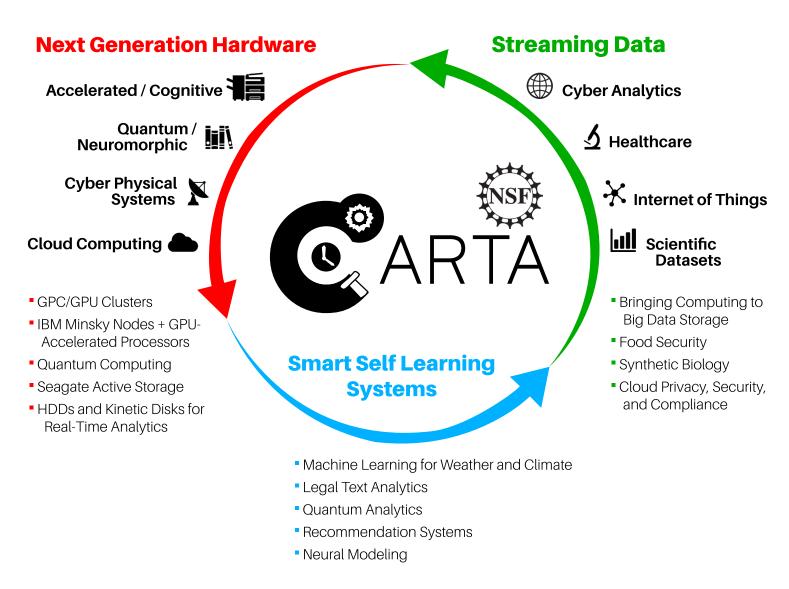
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NSF · CARTA

NSF CARTA

The University of Maryland, Baltimore County (UMBC), Rutgers University New Brunswick, North Carolina State University (NCSU), Tel Aviv University, and the University of Miami, together, form the National Science Foundation's (NSF)Center for Accelerated Real Time Analytics (CARTA).

Formed in 2018, CARTA is part of NSF's IUCRC (Industry/University Cooperative Research Centers) program. It 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-generation 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 the creation of self-learning "smart" systems.

If you or your company has an interest in becoming a member, or you have any questions or comments, 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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