

Internet2 CINO Distributed Big Data & Analytics (DBDA) Working Group Collaborative Innovation Community Meeting



## **Meeting Objectives**

- NSF Big Data Innovation Hubs
  - Rene Baston (Northeast) & Renata Rawlings-Goss (South)
- Global Summit 2016





René Bastón, Executive Director Kathy McKeown, Pl *Coordinated by Columbia University* 



## **Regional Data Innovation Hubs**

#### History

2012: White House "Big Data Research and Development Initiative" → \$200 million

2015: NSF → \$25 million to four Hubs and set to award another \$10 million to the Spokes, this year.





## NE Regional Big Data Innovation Hub

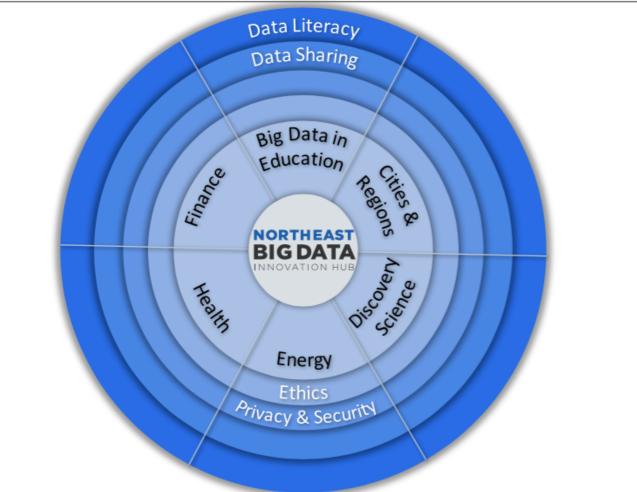
### Mission

Build public-private, multi-sector partnerships to address high-priority challenges with data-driven innovations











# Early Activities

- Workshops/Community-Building
- Spoke Projects
- Northeast Road Trip
- Membership/Partnership
- Infrastructure



# Opportunities

Spokes Call

## CCC Call

- Young Innovators Internship
- Knowledge Exchange
  - Lecture Series
  - Visiting Scholars
- Data Sharing Workshop



# For More Information

## Visit our website:

http://northeastbdhub.dsi.columbia.edu

Email us:

northeastbdhub@columbia.edu

Follow us on Twitter:

@NEbigdatahub



## **BIG DATA** A REGIONAL INNOVATION HUB FOR THE SOUTH

**Renata Rawlings-Goss** 

### The South Big Data Hub



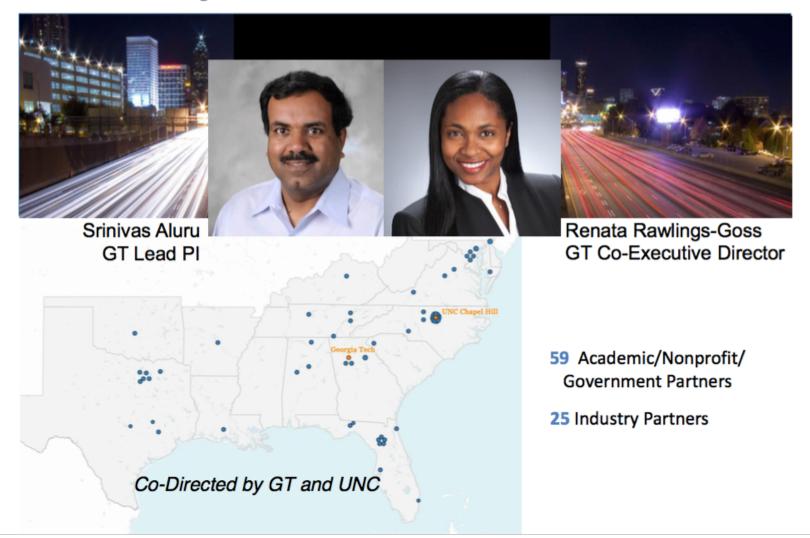






- Co-Directed by The Georgia Institute of Technology and the University of North Carolina's Renaissance Computing Institute (RENCI)
- Serving 16 Southern states and the District of Columbia.
- Phase one NSF funding for the South BD Hub will be \$1.5 million over three years.
- · Vision: To be a Connection Point for Big Data Partnerships in the South

### NSF South Big Data Innovation Hub



### South BD Hub Priority Areas

- NSF Hub investments: \$6M + \$10M/yr for spokes + ... (over four hubs)
- Initial areas of South BD Hub focus are on...



Big Data Sharing and Infrastructure



Healthcare



**Coastal Hazards** 



Economics, Privacy and Policy Issues



Industrial Big Data

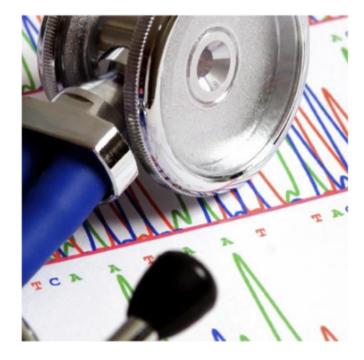


Materials and Manufacturing



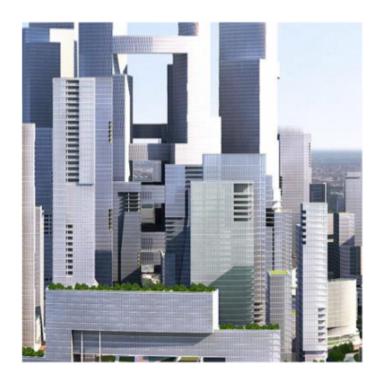
Habitat Planning

### Spoke: Health Disparities, Health Analytics, and Precision Medicine



- Use South region's top health care organizations and resources
- Understand how precision medicine can benefit minority health
- Close the gap on wide disparities in health status, health outcomes, and access to health resources using data driven analytics

## Spoke: Habitat Planning



- Urban infrastructure and resilience planning, transportation, smart cities, urban-rural co-dependent systems, and wildlife habitat planning.
- Collect and integrate population-level data on infrastructure and behaviors and the subsequent development of complex simulation models to guide decisions.
- Topics: food deserts, transportation research, spread of disease, urban and rural infrastructure resilience, and plant and animal conservation.

## Spoke: Industrial Big Data



- Complex physical machinery and networked sensor use increasing.
- Essential to monitor the health of physical systems, dynamically manage their operations, and ensure their security.
- Data abounds in many industries and types of equipment

including power generators, jet engines, railroads, and oil and gas production, transmission, and distribution pipelines.



Chicago Marriott Downtown Magnificent Mile 540 N. Michigan Ave Chicago, IL

Distributed Big Data and Analytics Innovation Working Group: Tuesday, May 17<sup>th</sup>, 7:15-8:45AM CDT

- Join us to discuss our learnings & recommendations, and share your thoughts to help us build the future of Distributed Big Data & Analytics.
- If you haven't **registered** to attend, please do so. **Prices go up after April 15<sup>th</sup>!** 
  - <u>http://bit.ly/1RNQdYg</u>
- Need a hotel room to go along with that registration? Block rate ends April 15<sup>th</sup>!
  - <u>http://bit.ly/21V1uJ0</u>

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Questions & Answers... Thank You dbda-chairs@Internet2.edu CINO@Internet2.edu @FloInternet2 @EmilyNInternet2

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