



MIAMI FL



SEPTEMBER 25-28

INTERNET2 TECHEX RESEARCH TRACK

Welcome and Agenda
September 26, 2016

Ari Berman

Vice President and General Manager of Consulting Services, BioTeam

Florence Hudson

Senior Vice President and Chief Innovation Officer, Internet2

Internet2 TechEx Research Track

CONTENTS

- **Welcome:** *Florence Hudson, Internet2, Ari Berman, BioTeam*
- **Review of Research Track Agenda:** *Ari Berman, BioTeam*
- **Internet2 Collaborative Innovation Community:** *Florence Hudson, Internet2*

Agenda for Monday, September 26th

- **Research Track: Collaborative Innovation, Brickell**
 - 9:00AM-9:50AM: CINC Part I: Smart Campus & IoT: *Ed Aractingi, Marshall, Marc Hoit, NCSU, Florence Hudson, Internet2, Scot Ransbottom, Virginia Tech, Donna Tatro, Princeton*
 - 10:20AM-11:10AM: CINC Part II: End-to-End Trust & Security for IoT and TIPSS, *Mark Cather, UMBC, Florence Hudson, Internet2, Ken Klingenstein, Internet2, Scot Ransbottom, Virginia Tech*
 - 11:20AM-12:10PM: From CC* to Science DMZ as a Service: The Penn State Approach, *Ken Miller, Pennsylvania State University*
- **Lunch, Biscayne/Mezzanine/Grand Foyer**
- **Research Track: Researcher Support and Engagement, Brickell**
 - 1:30PM-2:20PM: Globus What's New for Researchers, *Vas Vasiliadis, University of Chicago*
 - 2:30PM-3:20PM: Emergent Virtualization Services in R&E Networks, *Richard Cziva, NORDUNet, Jerry Sobieski, NORDUNet, David Whittaker, Corsa Technology*
- **The Exchange, Darleen Fisher, National Science Foundation, Versailles**



Agenda for Tuesday, September 27th

- **Research Track, Brickell**

- 8:35AM-9:00AM: NSF Cybersecurity Transition to Practice Acceleration EAGER Introduction – *Florence Hudson, Internet2, Emily Nichols, Internet2*
- 9:00AM-9:50AM: CORD: Central Office Re-architected as a Datacenter – *Larry Peterson, Princeton University*
- 10:20AM-11:10AM: Jetstream – A Self-Provisioned Scalable Science and Engineering Cloud Environment – *Jeremy Fischer, Indiana University*
- 11:20AM-12:10PM: NTT and Internet2: 20 years of Joint Collaborative Research, *Tatsuya Fujii, NTT, Hiroyuki Kimiyama, NTT, Junichi Nakagawa, NTT, Hisao Uose, NTT*

- **Lunch, Biscayne/Mezzanine/Grand Foyer**

- Lagopus: High Performance SDN/OpenFlow Software Switch BoF, Merrick I
- Diversity and Inclusion in the Internet2 Community Working Meeting, Junior Ballroom

Agenda for Tuesday, September 27th (Continued)

- **Research Track, Brickell**

- 1:30PM-2:20PM: Report on NSF-Funded Cyberpractitioner Workshop to the Community – *Dustin Atkins, Clemson University*
- 2:30PM-3:20PM: Broaden the Reach (BTR) – Best Practices and Science DMZ Use Case – *John Hicks, Internet2*
- 3:50PM-4:40PM: NSF Cybersecurity Transition to Practice Acceleration EAGER – CONTINUED – *Florence Hudson, Internet2, Emily Nichols, Internet2*

Agenda for Wednesday, September 28th

- **Research Track, Brickell**

- 8:35AM-9:00AM: Data Bloat Spectrum Disorder: Networking Methods in Life Sciences to Treat the Symptoms, *Ari Berman, BioTeam*
- 9:00AM-9:50AM: Challenges When Designing a Distributed SDX – *Geronimo Bezerra, Florida International University, Russ Clark, Georgia Tech, Sean Donovan, Georgia Tech*
- 10:20AM-11:10AM: FeduShare Final Report, *Jill Gemmill, Clemson University*
- 11:10AM-12:10PM: Research Lightning Talks
 - Why Data Disaggregation is Changing the Data Center Landscape – *Adam Nethersole, Verne Global*
 - When IoT Meets Virtual 3D world – *Liane Tarouco, Universidade Federal do Rio Grande do Sul*
 - Federating High Performance Computing to the Public Cloud– *Boyd Wilson, Omnibond*
 - Bridging the High Performance Computing Gap to Maximize Investments – *Jane Combs, University of Cincinnati*

- **Lunch, Biscayne/Mezzanine/Grand Foyer**



Agenda for Wednesday, September 28th (Continued)

- **Research Track, Brickell**

- 2:30PM-3:20PM: CloudLab: From Next Generation Cloud Research to Future of Campus Computing Infrastructure – *KC Wang, Clemson University*
- 3:50PM-4:40PM: Chameleon: A Computer Science Testbed as Application of Cloud Computing – *Kate Keahy, Argonne National Lab*
- 4:40PM-5:00PM: Research Track Closing, *Emily Nichols, Internet2*

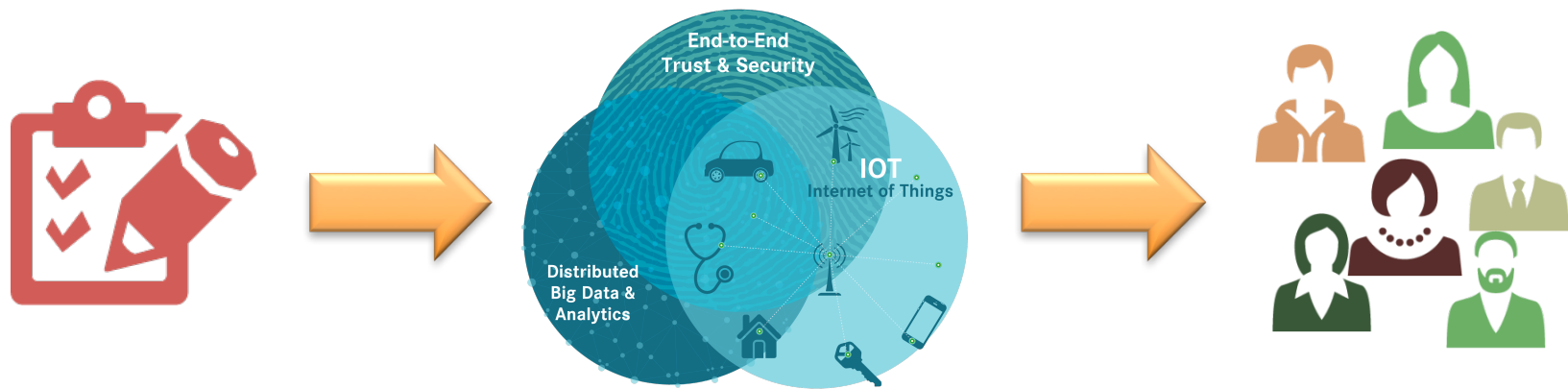


Internet2 Collaborative Innovation Community



Collaborative Innovation Program

Established three new Collaborative Innovation Working Groups
During Global Summit 2015 based on March 2015 Member Survey



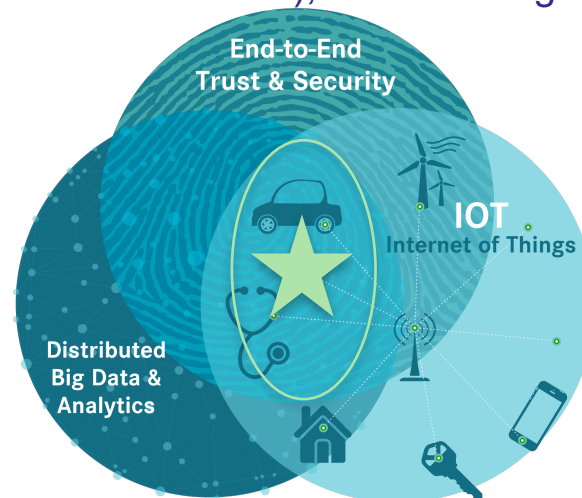
Collaborative Innovation Community Working Groups are exploring future, strategic innovations in advanced networking and trust & identity for the research and education community.

E2E Trust & Security (E2ET&S):

- End to End Trust and Security for the Internet of Things (IoT)
- TIPSS – Trust, Identity, Privacy, Protection, Safety, Security
- SDP (Software Defined Perimeter), Network Segmentation for IoT

Distributed Big Data & Analytics:

- Health & Life Sciences
- Smart Campuses and Cities
- Digital Humanities



Internet of Things:

- IoT Sandbox
- Smart Campuses and Cities
- Smart Grid Testbed

Key:

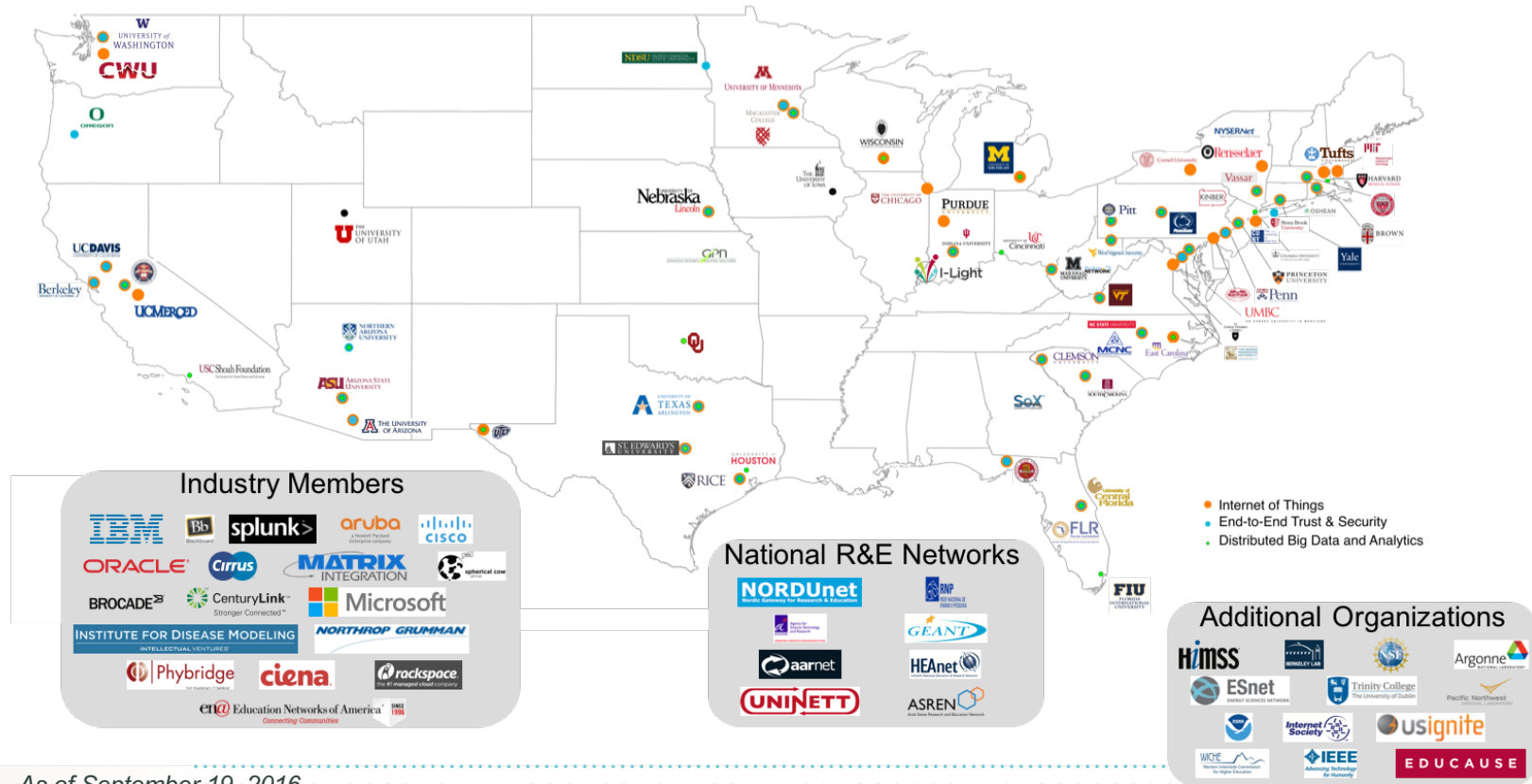
Advanced Networking plus Trust & Identity
Advanced Networking



MIAMI FL SEPTEMBER 25-28

Internet2 Collaborative Innovation Community Working Group

Members: 250+ participants representing 100+ member institutions



As of September 19, 2016



Collaborative Innovation Community CINC UP Calls

- The Collaborative Innovation Community consists of members from all Innovation Working Groups in addition to participants interested in exploring open collaboration with the community
- Monthly calls are held on a variety of topics, including:
 - Network Segmentation for IoT
 - Cisco Digital Ceiling
 - OpenFog Consortium
 - Best Practices for researcher engagement and cyber-infrastructure support
 - Virtual and Augmented Reality
 - LoRa low-power wireless WAN pilot for IoT research
- Interested in participating? Email CINO@Internet2.edu





MIAMI FL



SEPTEMBER 25-28

INTERNET2 TECHEX RESEARCH TRACK

Welcome and Agenda
September 26, 2016

Ari Berman

Vice President and General Manager of Consulting Services, BioTeam

Florence Hudson

Senior Vice President and Chief Innovation Officer, Internet2