MetroLab Network 2018 Annual Summit

Newark, NJ | October 15-16 | Hosted by New Jersey Institute of Technology and the City of Newark

https://metrolabnetwork.org/2018-summit/

Sunday, October 14
6:30 pm to 9:00 pm
Welcome Reception at
Hotel Indigo Rooftop

Monday, October 15
8:00 am to 5:30 pm
Conference at NJIT
Wellness & Events Center

Tuesday, October 16
8:00 am to 5:30 pm
Conference at NJIT
Wellness & Events Center

6:30 pm to 9:00 pm
Reception at
Newark Museum

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NEXT
CITY
Monday, October 15th

8:30 AM  Registration, Light Breakfast

9:15 AM  Welcome

Joel Bloom, President of New Jersey Institute of Technology
Mayor Ras Baraka, City of Newark

9:45 AM  Civic Leadership, Technology & Urban Innovation

This panel will explore how Mayors foster civic participation, drive technology transformation, and support innovation economies. It will tell these stories through the lens of three cities that continue to define their own pathways to success.

Moderator: Governor Martin O’Malley, 61st Governor of Maryland and 47th Mayor of Baltimore
Mayor Ras Baraka, City of Newark
Mayor Andrew Berke, City of Chattanooga
Mayor Bill Peduto, City of Pittsburgh

10:30 AM  Break

10:45 AM  Technology for Civic Data Integration

This panel will introduce a new paper from MetroLab, Actionable Intelligence for Social Policy, and National Neighborhood Indicators Partnership focused on how governments are building integrated data systems from a technology perspective.

Moderator: Natalie Evans Harris, Consultant, Harris Data Consulting
TC Burnett, Associate Director, Actionable Intelligence for Social Policy
Jason Lally, Data Services Manager, City and County of San Francisco
Emily Wiegand, Researcher, Chapin Hall
Bill Yock, Chief Data Officer, Santa Clara County

11:30 AM  Using Data to Understand People & Place

This panel will explore how data, mapping, visualization, and prediction are helping cities understand their residents, neighborhoods, and communities.

Moderator: Debra Lam, Managing Director of Smart Cities and Inclusive Innovation, Georgia Tech
Jason Jones, Analytics & Innovation Manager, Guilford County, NC
Santi Garces, Chief Innovation Officer, City of South Bend
Nancy LeaMond, EVP & Chief Advocacy and Engagement Officer, AARP
Bill Skerpan, Innovation & Analytics Manager, City of Boulder
Ken Steif, MUSA Program Director, University of Pennsylvania

12:15 PM  Morning Wrap-up

12:20 PM  Lunch

1:15 PM  Breakout Sessions

How Data Use Varies Across Sectors

This panel will build upon both morning discussions by exploring the strategic use of data from a technology and policy perspective. Panelists will share experiences with data integration across a number of sectors: transportation, air quality, workforce development, human services, and more. Panelists bring extensive experience navigating academic and public sector stakeholders in driving forward civic data efforts.

Commercializing Research to Solve Urban Challenges at Scale

The process of moving a research project from lab to market is fraught with hazards. Intellectual property missteps, team dynamics, and a misunderstanding of customer needs and channel economics are but a few of the areas where teams struggle to scale their impact. Despite these risks, this is arguably the optimal time for new startups focused on solving urban problems to succeed. In this interactive session, the panelists will provide researchers interested in the startup journey with actionable insights and clear pitfalls to avoid.

Mapping for Air Quality Impact

Cities have a powerful and underappreciated resource for understanding and fighting air pollution and climate change. Recent developments show how fleets equipped with new mobile air quality systems can map air pollution at a hyperlocal level, with just 10 to 20 vehicles. This session will explore how city leaders can design – and see the results of – climate and clean air investments that maximize local impact.

as of 10.8.18– tentative and subject to change
Wi-Fi: username (UCID): guest674; password: measure46
### Civic Data

**Dan O’Brien, BARI:** Pursuing Equity in the Age of Algorithms: Evaluating a Technological Approach to School Choice and Assignment in Boston, MA

**Julia Koschinsky, Univ. of Chicago:** Identifying Spatial Gaps in Service Access

**Geoff Arnold, City of Pittsburgh:** Analytics in Fire Prediction

### Mobility & Transportation

**Ellen Dunham-Jones, Georgia Tech:** Redesigning User Experience on Shared Autonomous Shuttle Busses

**Abhishek Dubey, Vanderbilt Univ:** Using Neural Networks to Predict Transit

**Charlie Catlett, Univ. of Chicago:** Update on the Array of Things Partnership Program

### Civic Research Networks

**Jon Fink, PSU & Kevin Martin, Portland:** Creating a network of academic, corporate & nonprofit campuses as testbeds

**Kim Lucas, Boston:** Developing a Civic Research Agenda

### Housing & Health

**Carl DiSalvo & Chris LeDantec, Georgia Tech:** Smart Home Development

**Meghan Cook, Univ of Albany:** Community Officials Data Exchange

**Dan Hoffman & Ariella Bak, Gainesville:** The Evolution of Community Medicine

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30 AM</td>
<td>Registration &amp; Light Breakfast</td>
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<tr>
<td>9:00 AM</td>
<td>Welcome – Angela Garretson, Chief External Affairs Officer, New Jersey Institute of Technology</td>
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<td>9:05 AM</td>
<td>MetroLab Network Updates and the Year Ahead</td>
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<td><em>Ben Levine, Executive Director, MetroLab Network</em></td>
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<td>9:45 AM</td>
<td>Making Civic Research a University Priority</td>
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<td>Universities are increasingly harnessing their intellectual assets – their faculty, researchers, and students – to drive civic innovation. This panel will explore how a number of universities have created an academic culture that encourages and incentivizes engagement with civic partners, including cities, industry, and non-profits. It will address how universities have created programs and institutes that house city-university collaboration. It will review the successes to-date and the challenges that remain.</td>
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<td><em>Moderator: Meghan Houghton, Program Officer, National Science Foundation</em></td>
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<td><em>James Bean, Provost, Northeastern University</em></td>
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<td><em>Ramaya Krishnan, Dean, Carnegie Mellon University</em></td>
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<td><em>Miroslav Krsic, Senior Associate Vice Chancellor for Research, University of California, San Diego</em></td>
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<td><em>Suzanne Rivera, Vice President for Research and Technology, Case Western Reserve University</em></td>
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<td>10:00 AM</td>
<td>Break</td>
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<td>11:15 AM</td>
<td>Land Use in the Age of Smart Cities &amp; Smart Mobility</td>
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<td>This panel will explore how technology and data affects cities at a macro- and micro-level. It will explore how data, mapping, visualization, and prediction are presenting opportunities for city planners; it will also explore how new technologies affect cities at the street level — including the on-demand economy, dockless bikes, and increased freight.</td>
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<td><em>Moderator: Bill Fulton, Director of the Kinder Institute, Rice University</em></td>
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<td><em>Karina Ricks, Director of Mobility and Infrastructure, City of Pittsburgh</em></td>
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<td><em>Nick Tyler, University College London</em></td>
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<td><em>Chris Watson, Planning Officer, City of Newark</em></td>
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<tr>
<td>12:00 PM</td>
<td>Morning Wrap-Up and Lunch</td>
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<td>12:45 PM</td>
<td>Breakout Sessions and Workshops</td>
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<td><strong>Ethics and Algorithms Workshop</strong></td>
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<td>Use of algorithms is inevitable. All algorithms and the data that feed them have bias. During this workshop, a team from the Center for Government Excellence, part of What Works Cities, will introduce a new toolkit that helps assess risk factors and identify mitigations, all in a real-world context.</td>
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<td><em>Facilitators: Miriam McKinney, Center for Gov’t Excellence, Johns Hopkins Univ</em></td>
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<td><em>Andrew Nicklin, Center for Gov’t Excellence, Johns Hopkins Univ</em></td>
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<td><strong>Programs that Strengthen City/University Partnerships</strong></td>
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<td>This session will build upon the morning’s discussion by diving deep on a number of efforts at cities and universities that provide structured mechanisms for faculty and students to engage with cities on real-world priorities.</td>
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<td><em>Moderator: Karen Lightman, Metro21</em></td>
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<td><em>CMU</em></td>
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<td><em>Bartosz Bonczak, NYU CUSP</em></td>
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<td><em>Jen Duthie, City of Austin</em></td>
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<td><em>Emily Robbins, Boston Univ</em></td>
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<td><em>Sarah Stone, Univ of Washington</em></td>
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<td><strong>Future of Privacy Forum Workshop</strong></td>
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<td>This workshop will introduce FPF’s Smart Cities Privacy Research Collaborative, whose mission is to provide resources for stakeholders to incorporate privacy considerations and assessments into smart city projects and develop widely acceptable principles, processes, and best practices. The project is supported by NSF and done in partnership with MetroLab.</td>
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<td><em>Facilitators: Kelsey Finch, Future of Privacy Forum</em></td>
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<td><em>John Verdi, Future of Privacy Forum</em></td>
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<td>1:00 PM</td>
<td>Break</td>
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## Breakout Sessions

### Implementation of Technology for Community Referral Services

This section will discuss the implementation of a community resource referral technology in a preventive Child Welfare services setting. The principles discussed will be applicable to multiple settings and will introduce the technology, present results on the feasibility of implementation, and include a moderated discussion of barriers and facilitators of community resource referral technology adoption. You will leave this session with ideas for experimental evaluation of client and cost outcomes using this tech in your own setting.

Sylvie Doppelt, NowPow  
Julia Miller, IL Dept of Children & Family Services  
Chenab Navalkha, Univ. of Chicago  
Mike Stiehl, Chapin Hall

### Incentivizing Engagement by Faculty and Students

This session will build upon a theme throughout the day: how cities and universities can foster collaboration. This discussion will address two critical questions: first, how can universities incentivize faculty to conduct research with civic purpose, including how these projects intersect with pressures caused by the need to publish and secure tenure; second, how can students get involved in a city-university collaboration? How can universities use courses, capstones, and other mechanisms to encourage their engagement?

Moderator: Jonathan Sprinkle, NSF  
Lisa Camp, CWRU  
Andrei Lapets, Boston Univ  
Mina Sartipi, Univ of Tenn.-Chattanooga  
Thaisa Way, Univ of Washington

### What Urban Technology Means for Equity and the Future of Work

This panel will unpack the role of technology in creating opportunity and taking it away. It will explore how new tools and methods will increase the precision and availability of services but also risk driving inequality and joblessness. It will explore tech's impact on economic development, manufacturing, human services, and housing. It will introduce new ideas and policy approaches that will allow us to manage rapidly changing economies and communities.

Moderator: Santi Garces, City of South Bend  
Aisha Glover, Newark Community Economic Development Corporation  
Signe-Mary McKernan, Urban Institute  
Michael Shaw, Kresge Foundation

## 3:00 PM Break

### 3:15 PM Lightning Talks

#### Civic Technology

- Ari Anisfeld, Univ. of Chicago: Civic Scopeathon: A people-centric approach to civic tech education
- Eli Turkel & Betsey Suchanic, Univ of Delaware: The Hackathon Revisited

#### Resilience & Sustainability

- Matthijs Bouw, One Architecture: Designing Circularity from the Ground Up
- Jason Whittet, 100 Resilient Cities: Selling the Future- How to Leverage Innovation to Catalyze Urban Resilience
- Yuan Lai, NYU CUSP: Big Data for Local Climate Change

#### Mobility & Transportation

- Branislav Dimitrijevic, NJIT: Empowering the Traveling Public Through Urban Transportation and Travel Analytics
- Kyle Rakow & Mike Watson, AARP: Leveraging Data to Improve Driver Safety and Community Mobility for Older Adults

## 4:00 PM Break

### 4:15 PM Keynote – Beth Noveck, Chief Innovation Officer, State of New Jersey

*Introduced by: Thomas Motyka, Senior Executive Director, New Jersey Innovation Institute*

### 4:45 PM Planning for Urban Technology Transformation

The final panel of the MetroLab Summit will focus on how are cities transforming and who is transforming them. This panel will explore the opportunities and challenges associated with driving tech change in government and communities at the city-scale. It will explore how cities are approaching a range of issues: advanced connectivity, driverless vehicles, technology inequality, urban sustainability, and more. It will create a vision for the future, shared through the stories of those shaping the present.

Moderator: Heather Hardman, Innovation Design Manager, Grant Thornton LLP  
David Graham, Deputy COO, City of San Diego  
Kevin Martin, Smart City PXD Manager, City of Portland  
Samir Saini, City-wide CIO and IT Commissioner, City of New York

## 5:30 PM Closing Remarks and Conclusion of Summit

*Ben Levine, Executive Director, MetroLab Network*