



**How Far Can “Big Data” Take Us Towards Understanding Cities?**  
**September 19<sup>th</sup> – 21st, 2013**  
**Santa Fe Institute**

**Agenda**

**Thursday, September 19th, 2013**  
**Workshop DAY 1**

**SANTA FE INSTITUTE**  
**Robert Noyce Conference Room**

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| <b>8.15</b>          | <i>Shuttle from Hilton Hotel to Santa Fe Institute</i>  |
| <b>8.30</b>          | <b>BREAKFAST</b>  |
| <b>9.00 – 9.40</b>   | <b>Welcome and opening remarks</b>  |
| <b>9.40 - 10.30</b>  | <b><i>The History and Promise of Urban “Big Data”</i></b><br>Colin Harrison (IBM Smarter Cities Project, retired)   |
| <b>10.30 – 10.45</b> | <b>COFFEE BREAK</b>   |
| <b>10.45 – 12.15</b> | <b><i>Big Data and Smart Cities: New Research, Educational Possibilities and Business Opportunities I</i></b><br>David Maier (Department of Computer Science, Portland State University)<br>Mansour Raad (ESRI)<br>Alaina Harkness (MacArthur Foundation)   |
| <b>12.15 – 1.30</b>  | <b>LUNCH</b>  |
| <b>1.30 - 3.00</b>   | <b><i>Big Data Application: Urban Mobility</i></b><br>David L. Bragdon (Executive Director, Transit Center)<br>Eric Miller (Department of Civil Engineering, University of Toronto)<br>Marta C. González (Department of Civil and Environmental Engineering, Massachusetts Institute of Technology) |
| <b>3.00 – 3.50</b>   | <b><i>Big Data and Cities: Urban Planning’s Perspective</i></b><br>Paul Waddell (Department of City & Regional Planning, UC-Berkley)<br>Clio Andris (Santa Fe Institute)  |
| <b>3.50 – 4.10</b>   | <b>TEA</b>  |

<b>4.10 – 5.30</b>	<b>Plenary Discussion</b>
<b>5.30</b>	<b>Cocktails at SFI</b>
<b>6.00 – 6.30</b>	<b>Keynote Address: <i>What Did We Learn About the Scientific Payoff from Big Data From The Human Genome Project?</i></b> Ari Patrinos (Center for Urban Science and Progress, New York University) <i>Noyce Conference Room</i>
<b>6.30 – 8.00</b>	<b>Dinner on the portal at SFI</b>
<b>7.30 and 8.00</b>	<i>Shuttle will leave for Hilton Hotel</i>

**Friday, September 20th, 2013**  
**Workshop DAY 2**

**SANTA FE INSTITUTE**  
**Robert Noyce Conference Room**

<b>8.15</b>	<i>Shuttle from the Hilton Hotel to Santa Fe Institute</i>
<b>8.30</b>	<b>BREAKFAST</b>
<b>9.00 – 10.10</b>	<b><i>Big Data + Science = Understanding. So What?</i></b> Luis M.A. Bettencourt (Santa Fe Institute) Geoffrey West (Santa Fe Institute)
<b>10.10 – 11.20</b>	<b><i>Opportunities for Big Data in Architecture &amp; Planning</i></b> Nicholas de Monchaux (College of Environmental Design, UC-Berkeley) Gerhard Schmitt (Information Architecture, Swiss Federal Institute of Technology Zurich)
<b>11.20 – 11.35</b>	<b>COFFEE BREAK</b>
<b>11.35 – 12.45</b>	<b><i>Big Data and Smart Cities: New Research, Educational Possibilities and Business Opportunities II</i></b> Constantine Kontokosta (Center for Urban Science and Progress, New York University) Charlie Catlett (Urban Center for Computation and Data, University of Chicago)
<b>12.45 – 2.00</b>	<b>LUNCH</b>

- 2.00 - 3.10** ***Big Data Application: Crime***  
 Martin Short (Department of Mathematics, UCLA),  
 Rob Sampson (Department of Sociology, Harvard University)
- 3.10 - 4.20** ***Big Data Application: Urbanization, Energy and Sustainability***  
 Kelli Stokes (School of Forestry & Environmental Studies, Yale University)  
 Kevin Gurney (School of Life Sciences, Arizona State University)
- 4.20 - 4.35** **TEA**
- 4.35 - 6.00** **Plenary Discussion**
- 6.00** *Shuttle will leave for the Hilton Hotel*

**Please enjoy exploring Santa Fe's fine restaurants on your own for dinner this evening**

**Saturday, September 21st, 2013**  
**Workshop DAY 3**

**SANTA FE INSTITUTE**  
**Robert Noyce Conference Room**

- 8.15** *Shuttle from the Hilton Hotel to Santa Fe Institute*
- 8.30** **BREAKFAST**
- 9:00 - 10:10** ***Urban Big Data and Federal Government Databases***  
 Deborah Strumsky (Department of Geography & Earth Sciences, University of North Carolina-Charlotte),  
 Cavan Capps (U.S. Census Bureau)
- 10:10 - 11:20** ***Big Data for Development***  
 Frank Neffke (Center for International Development, John F. Kennedy School of Government, Harvard University)  
 Joe Hand (Informal Settlements Project, Santa Fe Institute)
- 11:20 - noon** ***Synthetic Remarks***  
 José Lobo (School of Sustainability, Arizona State University)
- Noon - 2:00** **Working Lunch / Plenary Discussion**
- 1.00 and 2.00** *Shuttle will leave for the Hilton Hotel*