

## Community Resilience Panel: Data, Metrics, & Tools (DMT) Standing Committee Meeting

**MEETING DATE:** Friday, September 9, 2016

**TIME:** 12:00 – 1:15 PM EDT

**ISSUE DATE:** November 3, 2016

**ATTENDEES:**

Attendee	Affiliation
Megan Clifford [Chair]	Argonne National Laboratory
Paolo Bocchini [Vice-Chair]	Lehigh University
Ting Lin [Secretary]	Marquette University
Duane Verner	Argonne National Laboratory
Eleanore Hajian	DHS S&T Office of University Programs
Floyd DesChamps	The Desner Group, LLC
Howard Harary	NIST
James Arnott	Aspen Global Change Institute
Jason Averill	NIST
Jeff Rubin	Tualatin Valley Fire & Rescue
Jerry Brashear	The Brashear Group LLC and National Institute of Building Sciences
Keely Maxwell	US Environmental Protection Agency
Leanne Aaby	LMI
Louis Conway	Architectural Institute of BC (AIBC) Post Disaster Response Committee
Mat Heyman	Impresa Management Solution
Megan Housewright	NFPA
Michael Molnia	DHS S&T Office of University Programs
Richard (Dick) Wright	American Society of Civil Engineers
Sunil Sinha	Virginia Tech
Wenjuan Sun	Lehigh University

**DISTRIBUTION:** Attendees and Data, Metrics, & Tools Standing Committee

**NOTES BY:** Ting Lin, Marquette University

### 1. Welcome

Megan Clifford (Chair) called the meeting to order. Megan thanked attendees for participating and welcomed new members, Floyd and Wenjuan, who recently joined DMT. Megan encouraged DMT members to reach out for more volunteers.

### 2. Meeting Logistics

The objective of this DMT committee conference call is to prepare for the upcoming CRP meeting in Fort Collins, Colorado on September 21-22, 2016. Megan reviewed the September 9<sup>th</sup> Meeting Agenda and proposed a motion. The committee unanimously approved.

### 3. Updates from DMT Committee Members Serving on Other Committees

**Cross-Collaboration:** To follow up on our previous conference call on June 2, 2016 (meeting minutes available at <https://www.crpanel.org/wp-content/uploads/2015/12/DMT-Committee-Meeting-Minutes-6-2-16.pdf>), DMT committee representatives serving dual roles on another committee gave brief updates. This provided the full committee additional context for our activities and work in Colorado.

Sunil: *Water & Wastewater* (W&W) committee had been holding monthly meetings. Decisions were made to divide the committee into (1) water and (2) wastewater to facilitate group discussions. W&W is figuring out their own taxonomy. Paolo brought up the issue of recovery data sharing by utilities, and discussed the possibility of controlled access with Sunil. Jeff added the differences among states (e.g., Oregon) regarding legislation and protection to encourage willingness to share. Sunil emphasized the upcoming Colorado W&W meeting would be important especially in terms of data – DMT could potentially help with that.

Louis: *Building & Facilities* (B&F) committee divided the large committee into disaster groups covering a range of hazard scenarios in various communities. Templates from the NIST Guide Steps 1-6 were circulated among the groups to fill in details for each specific scenario. Louis is working on earthquake & tsunami in Oregon and fire & drought in California. He found that the same materials sometimes showed up in both scenarios. The experience was valuable in terms of understanding how scenarios were developed, how to use the scenario, and links to various committees (e.g., DMT) where additional inputs would be needed. Megan agreed that it would be important to explore linkage among committees.

**Action Item:** Sunil will make sure to have W&W include Fred Petit from DMT. Megan will follow up with Transportation committee to include Paolo and Social & Economic committee to include Jeff, James, and Keely.

**Resilience Knowledge Base (RKB):** Megan started the RKB subcommittee and the initial teleconference was held on June 21. The upcoming Colorado meeting agenda (available at <https://www.crpanel.org/wp-content/uploads/2016/07/ThirdCommunityResiliencePanelMeetingAgenda.pdf>) will include a RKB meeting on the second day at lunch time.

### 4. Updates from Group Leaders on Working Group Progress

Eleanore is the coordinator of *Group A* – Data. She thanked Joe O’Keefe, Mat, Sunil, Ting, Michael, Fred Petit, and Wenjuan for participating in Group A. She also introduced Michael Molnia, an invaluable addition to the group, who worked tirelessly to deliver the group product. Group A started with a strawman approach looking at the NIST Guide with steps and sub-steps to point out specific data (and metrics) communities would use or need to implement the Guide. Different members proposed various resources for identifying DMT focused mostly on data sources. Ting summarized the first four Group A meetings, potential next steps, Groups A&B coordination especially regarding the White House National Security Council (WH NSC) resilience indicators, and connecting DMT’s step-based approach with Buildings & Facilities committee’s all-step scenario-based approach. Eleanore emphasized that after several working group meetings we would need to come together as a committee now to get more feedback and prioritize value-added next steps. Megan will consider amendments to the Colorado meeting agenda to allow common committee time in addition to working group meetings, and take DMT recommendations forward to help structure RKB. Mat also mentioned Group A’s request for updates from NIST fellows, which Megan is working on.

Aaron Marks is the coordinator of *Group B – Metrics*. Paolo is working with his students on the WH NSC resilience metrics, while Don Byrne plans to work on other metrics not from the WH NSC. Paolo had a summer student map the first half of the metrics through the six steps to address the sectors involved with commentaries, will have another student go through the second half of those metrics by fall, and additional students work on examples with all data needed to use the metrics by the end of the year. Megan applauded Paolo's tremendously helpful efforts.

James raised the issue of uncertainty regarding where we are focusing as a panel/committee. He shared Group B's comments about embracing uncertainty to do work that would be important to the panel, and requested more clarity from the leadership in order to effectively gather smart people with innovative ideas that will be helpful with a common vision. Megan acknowledged the question about Panel vision and purpose as well as the role of RKB. Megan appreciated the feedback and had communicated the request with Jay Raskin (Panel Chair) and Jesse Keenan (Panel Vice-Chair). Jay responded by modifying the Colorado meeting agenda to address the question at the start of the meeting. There will also be updates from the NIST Fellows and Center of Excellence (COE). In response to James's request of clarification regarding the niche of our contributions and how it fits the resilience landscape, Megan mentioned that Jesse talked to Climate Resilience Toolkit contributors regarding lessons learned. Jeff added that part of the concern came from areas such as climate, health, and community services that were substantially further along and better established. Megan welcomed contributions from Jeff especially in RKB.

Megan is the interim coordinator of *Group C – Tools*. She thanked Jerry, Leanne, Frank Lavelle, and Dick for their consistent participation. Bruce Ellingwood and Emily Wasley Seyller did not participate in past calls. Jerry is researching various organizations in terms of resilience planning standards. Leanne is drafting a recommendation white paper regarding portfolio management and project prioritization for review within Group C. In response to Jeff's question about breadth of coverage, Megan mentioned that Group C focused on general processes that could be applied at multiple levels and followed others who did well in project prioritization. Jeff recommended new DMT member, Molly (Luettgerodt) O'Donnell, who could provide perspectives from Boulder County Collaborative.

**Table 1: Working group membership. \* indicates working group members present in Portland. ^ indicates working group members present in conference calls prior to the Colorado meeting.**

<b>GROUP A – DATA (Steps 1&amp;2)</b>	<b>GROUP B – METRICS (Steps 3&amp;4)</b>	<b>GROUP C – TOOLS (Steps 5&amp;6)</b>
Bev Corwin	James Arnott*^	Leanne Aaby^
<b>Eleanore Hajian</b> *^	Paolo Bocchini*^	Jerry Brashear^
Mat Heyman*^	Donald Byrne^	<b>Megan Clifford</b> ^
Ting Lin*^	Roy Emanuel	Bruce Ellingwood*
Michael Molnia^	<b>Aaron Marks</b> *^	Frank Lavelle*^
Joe O'Keefe*^	Jeff Rubin*^	Emily Wasley Seyller*
Fred Petit^	Duane Verner*^	Richard (Dick) Wright^
Sunil Sinha^		
Wenjuan Sun^		

**Action Items:** Group C still needs a coordinator. More volunteers are welcome to actively participate in the working groups. If you are interested in being the Group C coordinator or joining any of the working groups, please contact the corresponding group coordinator and copy Ting and Megan.

## 5. Review Draft Agenda for Colorado

Megan reviewed the draft agenda with the committee for the upcoming in-person meeting on September 21-22, 2016 in Fort Collins, Colorado. There will be a conference line for remote participation. In response to committee working group request of NIST fellow updates, Megan color coded the list of NIST fellows based on DMT Working Groups A, B, and C. She solicited feedback from the committee regarding the best option to have fellow presentations: (1) committee meeting in Colorado; (2) working group breakout sessions in Colorado; (3) conference call after Colorado. Jeff noted very little meeting time for our DMT committee meeting as a takeaway from the previous in-person meeting in Portland, and highlighted non-built environment as the most challenging aspect for metrics. Jeff's proposal to select a few fellows with confirmed availability to present during (2) breakout groups (and perhaps engage later) was seconded by Eleanore. Eleanore welcomed fellow participation in working groups, and added that meet & greet could make further communication easier. Eleanore also mentioned that working groups were already quite far along, e.g., Group A had been meeting for a while prior to Colorado and would look for more interactions with others to get feedback in Colorado. Regarding debrief to get feedback, Paolo expressed the importance of internal checks before going out.

***Action Items:*** In response to Jeff's preference for NIST fellow presentation and Eleanore's request for more committee time, Megan will modify the agenda to have full committee discussions replacing NIST fellow presentations and invite NIST fellows to working group breakout sessions. David Mizzen will coordinate with Megan to match NIST fellows with DMT working groups. Megan will also ask for report out templates and accept any feedback on the agenda.

## 6. New Business

Megan thanked all for the discussions. Megan, Paolo, and Ting would like to organize a social dinner for our hardworking committee on September 21. Jeff welcomed the idea with restaurant suggestions. The upcoming Colorado meeting logistics can be found at <https://www.crpanel.org/?cat=1> with registration links (Deadline: September 18) and call-in information. We look forward to meeting many DMT members in Colorado.