



IoT Use and Implication Meeting: a meeting of experts knowledgeable in the benefits and level of use of the Internet of Things in different areas, and their potential challenges and implications

May 24-25, 2016

National Academies of Science, Engineering, and Medicine
500 5th Street NW; Washington DC 20001

May 24, 2016 – Moderator: **Andrew Stavisky**, Sr. Methodologist, GAO

7:30-8:00 **Participant Registration at the National Academies**

8:00-8:45 **Welcome & Overview of IoT**

Welcome

Naba Barkakati
Chief Technologist,
GAO

Overview of IoT

Karen Rose (Internet Society)

8:45-10:15 **Uses and Opportunities for IoT: Consumer Applications**

- *Wearables*
- *Smart Home*
- *Consumer IoT Health*

Mike Kaeser
Sr. Phys. Scientist,
GAO

Santosh Kumar (University of Memphis)

Sudhi Sinha (Johnson Controls)

Haitham Hassanieh (University of Illinois)

10:15-10:30 **Break**

10:30-12:15 **Uses and Opportunities for IoT: Public and Industrial Applications**

- *Smart Communities*
- *Industrial Internet*
- *Environmental Uses*
- *Transportation*

Brett Caloia
Analyst, GAO

Chris Greer (National Institute of Standards and Technology)

Shoumen Datta (Industrial Internet Consortium/Massachusetts Institute of Technology)

David Lary (University of Texas at Dallas)

Wesley Mukai (GE Transportation)

Kenneth M. Leonard (US Department of Transportation)

12:15-1:15 **Lunch**

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| 1:15-2:45 | <u>Consequences of the IoT: Economic Implications</u> <ul style="list-style-type: none">- <i>Economic impact of IoT in different sectors</i>- <i>New business models</i>- <i>Impact on jobs and skills</i> <p>Daniel Spulber (Northwestern University)(remotely) Lee McKnight (Syracuse University) Robert Cohen (Economic Strategy Institute/Cohen Communications Group)</p> | Jenn Beddor Sr. Engineer, GAO |
| 2:45-3:00 | Break | |
| 3:00-4:30 | <u>Consequences of the IoT: Social Implications</u> <ul style="list-style-type: none">- <i>Safety issues with IoT that controls consumer systems</i>- <i>Reliability of devices that interact with the public—sources of public apprehension</i>- <i>Public expectations of security and privacy</i>- <i>Public awareness of consent, op in/opt out, implications of data collections</i>- <i>Social implications (equitable benefits, digital divide, etc)</i> <p>Batya Friedman (University of Washington) S. Shyam Sundar (Pennsylvania State University) Mark Eichorn (Federal Trade Commission)</p> | Jenn Beddor Sr. Engineer, GAO Marisol Cruz Sr. IT Analyst, GAO |
| 4:30-5:00 | Wrap-up Discussion for Day1 | Ivelisse Aviles Sr. Engineer, GAO |
| 5:00 | Informal Networking Session | |

8:30-8:45 Welcome Back

8:45-10:15 **Consequences of the IoT: Policy and Legal Implications**

- *Policy-oriented security, privacy, data ownership discussions*
- *Liability associated with security, safety, and reliability*
- *Gaps in agency oversight of IoT devices*
- *Existing laws/policies that may keep IoT from realizing full potential*

Emily McReynolds (University of Washington)(remotely)

Kendall Burman (Mayer Brown)

Karen Rose (Internet Society)

Amy Bowser

Sr. Attorney, GAO

Marisol Cruz

Sr. IT Analyst, GAO

Hayden Huang

Sr. Engineer, GAO

10:15-10:30 **Break**

10:30-12:00 **International frameworks**

- *Include International aspects here—research and innovation policies*
- *Strategic frame works of other nations*
- *Differences in US approach to fostering and overseeing IoT*

Sébastien Ziegler (IoT Forum – International)(remotely)

Verena Kantere (Institute of Services Science, CUI, University of Geneva)(remotely)

Gretchen Snoey

Sr. Analyst, GAO

12:00-1:00 **Lunch**

1:00-2:00 **Summary Discussion and Next Steps**

Ivelisse Aviles

Sr. Engineer, GAO

2:00 **Adjourn**