Overview of December 4, 2018
Unmanned Aerial Systems Information Exchange Forum

January 22, 2019
Overview

- **Funding Sponsors:**
  - Baltimore Metropolitan Council
  - Maryland State GIS Committee (MSGIC)
  - KCI Technologies

- **BMC/BRTB Supporting Committees:**
  - Baltimore Region GIS
  - Transportation & Public Works
  - Baltimore Region Cooperative Purchasing Committee

- **Agenda Developed with Input From:**
  - MDOT SHA
  - MACo

- **Over 150 Attendees from All Over Maryland:**
  - Public and private sectors
  - Academia and non-profits
  - Local, regional, state, and federal agencies
9:30 a.m. Introduction and Purpose of Forum
Eileen Singleton, Principal Transportation Engineer, Baltimore Metropolitan Council

9:35 a.m. Welcome
Michael Kelly, Executive Director, Baltimore Metropolitan Council

9:45 a.m. Getting Started and Regulatory Framework
- Unmanned and Unbound: The Future of Commercial UAS
  - Justin Towles, Founding Partner, Ascension Global
  - Pam Cohn, Managing Partner, Ascension Global
- Getting a UAS Pilots License: Why You Need It and What It Takes to Get It
  - Professor Scott Jeffrey, Center for Mapping and Analysis Program Director, Community College of Baltimore, Catonsville
  - Dr. Doug Williams, Aviation Technology Program Director, Community College of Baltimore, Catonsville

10:30 a.m. Federal, State, and Local UAS Overview
- Update from Federal Highway Administration
  - Connie Yew, Team Leader for Construction Management, Office of Infrastructure, Federal Highway Administration
- Overview of Maryland Association of Counties Activities to Support Local UAS Use
  - Robin Eilenberg, Research Director, Maryland Association of Counties
- Summary of Maryland Department of Transportation UAS Activities
  - Laurie Goudy, IT Director, MDOT State Highway Administration
  - Ross Cutts, Engineering Geology Field Manager, MDOT State Highway Administration

11:35 a.m. Sponsor Lightning Round
- Maryland State GIS Committee (MSGIC)
- KCI Technologies, Inc.

11:50 a.m. Lunch and Networking
12:40 p.m.  Local and State Use Cases of UAS Part 1: Public Sector Perspective
- Queen Anne’s County Drone Program: A Local Government Approach to Drones
  - Sam Stanton, GIS Coordinator, Queen Anne’s County GIS
  - Tyler Pease, GIS Specialist II, Queen Anne’s County GIS
- Maryland Transportation Authority Crash Response and Reconstruction
  - Cpl. Mike Lamont, Commander – Collision Reconstruction, MDTA Police
- Procurement of UAS for Local Use
  - Kim Cluney, Program Manager, Anne Arundel County Department of Public Works

2:00 p.m.  UAS on the Leading Edge of Technology
Matt Scassero, Director, UAS Test Site

2:20 p.m.  Break

2:35 p.m.  Local and State Use Cases of UAS Part 2: Private Sector Perspective
- Why UAS Will Help Your Organization
  - David Headrick, Project Manager, KCI Technologies, Inc.
  - Dustin Henry, Assistant Director, KCI Technologies, Inc.
- UAS Photogrammetry: Stormwater Management Existing Conditions Survey
  - Eric Cooper, Associate – Chief of Surveys, Wallace Montgomery & Associates
- Pushing Engineering & Construction Boundaries with UAS
  - Bryan Haynie, Vice President/Chief of Surveys, Century Engineering, Inc.

3:35 p.m.  Panel Discussion: Key Points from the Day
- Facilitator: Ross Cutts, Engineering Geology Field Manager, MDOT SHA
- Procurement: Andrew Hime, Purchasing Agent and Michelle Kraft, Buyer, Anne Arundel County
- GIS: Patrick Callahan, GIS Manager, Office of Information Technology, Prince George’s County
- DPW/Transportation: Jeff Hobbs, Chief of Surveys, Howard County Department of Public Works
- Private sector: Al Wainger, Vice President, Michael Baker, Inc.

4:25 p.m.  Closing Remarks
Mara Kaminowitz, GIS Coordinator, Baltimore Metropolitan Council

4:30 p.m.  Adjourn
Highlights

• Professors from the Community College of Baltimore County (CCBC) explained the requirements needed to get a commercial UAS pilot’s license.

• MACo continues to advocate for more control of UAS regulation by local government in their own jurisdictions.

• Presentations also covered federal and state policy, along with the current and future state of UAS services as a commercial enterprise.

• FHWA staff provided examples of how the Every Day Counts program will help foster innovation in the UAS field.
The director of the University of Maryland UAS Test Site provided a look at where UAS technology may go in the future and some of the technical issues to consider such as sensors packages, airspace integration, balancing cost vs. quality, and cybersecurity.

Agencies are already using UAS in the field, both in-house and contracted, for functions including:

- crash reconstruction
- storm water management
- construction site monitoring
- bridge inspection
The final session featured a panel of representatives from different sectors (GIS, DPW, procurement, consultant) sharing what they learned at the event.

- They discussed government contracting and procurement, UAS regulations, how to better coordinate between the public and private sectors, and economics of UAS programs.
- One concern from the panel was that with constantly emerging technology, an organization that purchases a UAS risks having it become obsolete before they can use it.
- The panel also discussed a comparison of the benefits of contracting vs. developing capacity internally.
- Speakers from the private sector discussed how UAS services are forcing a change in how contracts are billed from hourly to a model based on the amount of data acquired.
Presentations

• Available at:
  – https://sites.google.com/a/baltometro.org/december-4-uas-forum
For More Information

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