



## 2019 Municipal Technology Conference - Agenda

**8:00 a.m. – 8:45 a.m. - Registration & Continental Breakfast/Visit with Partners**

**8:45 a.m. – 9:00 a.m. - Welcome**

*Stephen W. Gove, Executive Director, Maine Municipal Association  
Sarah Nichols, Mayor, City of Bangor*

**9:00 a.m. – 9:45 a.m. - Keynote Address – The State of Maine, Technologically Speaking**

Come hear Brian Whitney, president of the Maine Technology Institute, give his assessment of Maine's preparedness for the technology demands of 2019 and beyond and how we must rise to the challenge of working and competing in a more complicated and technically focused global marketplace. Brian will also explore how the Maine Technology Institute can play a key role in helping to grow the economies of Maine's towns and cities through their funding and support of innovative new products and companies, in turn leading to the creation of quality jobs for Maine people.

*Presenter: Brian Whitney, President, Maine Technology Institute  
MTCMA Certification – .75 points Leadership and Finance/Budget categories*

**9:45 a.m. – 10:00 a.m. Morning Break/Visit with Partners**

**10:00 a.m. – 11:00 a.m. Concurrent Sessions**

**Using Partnerships to Get Energy Projects Done (Well)**

Learn how municipalities can work together to mitigate the worst impacts of climate change and transition to clean, efficient, renewable energy. Municipal energy projects done in partnership – from LED street lights to efficient buildings and solar power – can help us reach these goals, reduce energy costs and be economically competitive.

*Presenters: Julie Rosenbach, Sustainability Coordinator, City of South Portland; Tex Haeuser, Director of Planning & Economic Development, City of South Portland  
MTCMA Certification – 1 point Leadership and Finance/Budget categories*

2019 Municipal  
Technology Conference

- [Agenda](#)
- [Sponsors](#)
- [Presentations](#)

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### Municipal Banking in the 21<sup>st</sup> Century

Are you tired of paper checks, multiple deposit slips and manual payment processing? During this hour, attendees will learn about remote check scanning, electronic payments, handheld devices and credit card swipes – and much more. Today's technology can make municipal banking faster, easier, more secure and less time-consuming. It can also require updating controls and improving risk management. If you want to run an efficient and secure town office, taking advantage of what today's technology offers, this is the presentation for you.

*Presenters: Jamie Haining, Vice President, Business Development Officer; Patty Hersey, Vice President, Business Development Officer, Katahdin Trust Company  
MTCMA Certification – 1 point Finance/Budget category*



### Generating a 3D Point Cloud from UAV Images

These days, it seems that more and more people are discovering creative uses for UAVs or drones. Whether it's Amazon's plans to deliver packages, film makers looking for that perfect shot, or law enforcement officials keeping an eye on the bad guys. The GIS industry is eagerly jumping on this proverbial band wagon, with the rapid proliferation of UAVs opening the broad field of remote data collection and processing to an ever wider audience. In this presentation we will explore how overlapping geotagged images are processed to create a high-density 3D point cloud. We'll also address the challenge of calculating the volume of a landfill represented in a surface model derived from a photogrammetrically-generated point cloud.

*Presenter: Katrina Schweikert, Blue Marble Geographics  
1 CMA/CAT re-certification credit through Maine Revenue Services*



### GIS & Drones: An Easy (and Free) Way to Marry the Two (30-minute session)

This session will provide a brief introduction to drones and their application to municipal projects as well as demonstrate how to use DroneDeploy to automate flight plans, collect aerial data and process it into a product usable in ArcGIS Online mapping.

*Presenter: Sue Bickford, Wells Research Reserve  
.5 CMA/CAT re-certification credits through Maine Revenue Services*



### Generating Individualized Tax Assessment Maps (30-minute session)

For the past several years, an innovative product has been delivered to taxpayers outlining the basis for their tax assessment. This product includes individualized maps depicting recent sales near the taxpayer's parcels as well as comparables and other useful information designed to help the parcel owners understand their assessment. Mr. White will describe the development and production of these mailers, which was awarded the 2017 IAAO Public Information Award.

*Presenter: Mike White, Global Information Systems  
.5 CMA/CAT re-certification credits through Maine Revenue Services*



**11:00 a.m. – 11:15 a.m. - Morning Break/Visit with Partners**

**11:15 a.m. – 12:15 p.m. - Concurrent Sessions**

### The Essentials of Data Back-Up and Disaster Recovery

In municipal government, critical data is everywhere: property assessments, mil rate calculations, license applications, permits, zoning codes, etc. Naturally, it only makes sense

to back up that data. Not so long ago, merely having back-up tapes stored off-site was enough of a safeguard. But times – and the rate of data proliferation – have changed. The cloud and high-speed fiber connectivity afford more sophisticated ways to store, back-up, and recover data. And backing up data is only part of the battle. Municipalities need a clear and detailed disaster recovery plan to ensure the right data is restored in the event of a natural disaster, human error, or cyber-attack – and management within the organization is on the same page. Join Rob Williams, as he reviews the basics of back-up and recovery, disaster recovery planning, and how to protect critical municipal data.

*Presenter: Rob Williams, Director of Product Marketing, FirstLight  
MTCMA Certification – 1 point Finance/Budget category*

### **The Law and Protecting HIPAA Data**

Learn about the laws that govern the retention and disclosure of a public entity's electronic records. What electronic records are public records under Maine's Freedom of Access Act and what electronic records are confidential under Maine law or federal law, such as the Health Insurance Portability and Accountability Act (HIPAA)? This session will also cover best practices for maintaining such records and providing access to them when appropriate under the applicable laws. This topic is important for all municipal officials and may be of particular interest to human resources professionals, public safety officials, public access officers and General Assistance administrators.

*Presenters: Mark Bower and Natalie Burns, Attorneys, Jensen Baird Gardner & Henry  
MTCMA Certification – 1 point Legal and Human Resources categories*

### **The Future for Maine GIS Data (30-minute session)**

This session will address the need to increase state support for data acquisition and distribution, what those data acquisition needs are and how communities benefit from having access to accurate data, how to reduce project costs, support economic development, and plan for improving resilience to climate change and mitigating exposure to natural disasters. It will also address pending legislative initiatives.

*Presenter: Joe Young, GIS Consultant*

### **All Those Darn Data Collection Devices! (30-minute session)**

There are so many devices out there on the market it today – which one is right for you? What the heck is survey-grade? Is there any free part? This talk will center around enlightening you as the data collector about devices that exist, services that are out there, and other various facets of devices on the market.

*Presenter: Bradford Folta, Honey Badger Analytics  
.5 CMA/CAT re-certification credits through Maine Revenue Services*

### **Integration: Documents Made Interesting, Connected to a Map (30-minute session)**

Over the last 10 years, the Town of Hampden has employed part time help to scan in vast amounts of property record documents – basically any document that can be tied to a parcel or parcels (over 150,000 documents and 4000 parcels). These documents are public record – available to anyone that comes in the office – so why not make them available online? Not only would this cut down on calls and office traffic, it can provide a powerful, easy-to-use tool for staff and public alike. Find out how Hampden was able to implement this and now has a town full of GIS users!

*Presenter: Kyle Severance, Town of Hampden  
.5 CMA/CAT re-certification credits through Maine Revenue Services*



**Equity, Social Justice and GIS (30-minute session)**

How does GIS intersect with issues of equity and social justice? What are the responsibilities of GIS professionals? What do our maps say about us? How do the boundaries of our maps matter? How does the way we provide data make a difference? What data do we use, what data do we reject? We will have an open discussion about how we can be thoughtful about the impacts of our work as GIS professionals.

*Presenter: Judy Colby-George, GISP Spatial Alternatives*

**12:15 p.m. – 1:30 p.m. Buffet Luncheon****12:45 p.m. – 1:30 p.m. Luncheon Address: Assets, Maps and Data – Oh My!**

Pete Coughlan and Nate Kane will discuss the various resources available to support transportation asset management, including local road inventories for funding assistance, emergency response, sign/drainage asset inventories, locally-funded road repairs and planning capital/maintenance repairs. They will also provide an overview of Geographic Information Systems at MaineDOT and show capabilities of the [MaineDOT Map Viewer](#).

Presenters: Pete Coughlan and Nate Kane, Maine DOT

**1:30 p.m. – 1:45 p.m. - Afternoon Break/Visit with Partners****1:45 p.m. – 2:45 p.m. - Concurrent Sessions****Cybersecurity for Elections**

In a connected world, cybersecurity is a concern for every industry, and our Elections Infrastructure is not immune. This session will review the threats our elections systems face as well as the tools and resources available to state and local elections offices. In particular, we will focus on a no cost, elections-focused cyber defense suite available through the Elections Infrastructure Information Sharing and Analysis Center (EI-ISAC) and Center for Internet Security (CIS), including sector-specific threat intelligence products, incident response and remediation, threat and vulnerability monitoring, cybersecurity awareness and training products, and tools for implementing security best practices.

*Presenters: Christopher Satanek, Senior Cyber Intelligence Analyst; Jessica Cone, Elections Infrastructure Information Sharing and Analysis Center  
MTCMA Certification – 1 point Elected Relations and Leadership categories*

**Municipal Broadband – Public/Private Partnerships**

*Are they working? Where will the money come from? Community perspectives! What does the future hold?* Join Brian Lippold as he shares his views on the state of broadband in Maine.

*Presenters: Brian Lippold, President, Casco Bay Advisors, LLC  
MTCMA Certification – 1 point Leadership and Finance/Budget categories*

**New Geospatial Technology for Local Government**

Governments of all sizes want to share information and data about themselves in meaningful ways. In this session we will cover three areas of developing technology showing how agencies can inform and engage the public about government initiatives through data, maps and apps. Using an open data approach with focused apps for one, how planners can easily show proposed zoning/building changes and analysis on city projects in 3D second, and a new way to for mapping and navigating large campuses and buildings.

**Certification**

*MTCCA (Maine Town & City Clerks' Association) is offering 5*

*Presenters: Matt Deal and Timothie Biggs, Account Managers, ESRI*

### **Municipal Benefits of Terrestrial LiDAR**

Utilization of LiDAR for municipal projects allows for data extraction of almost limitless value. When implemented into existing municipal records, scan data can provide invaluable insight when analyzing condition, location, variability and other factors. Consumers of LiDAR data are only beginning to understand new uses for LiDAR scanning and the value it provides. The robust amount of information contained in the data can be leveraged for planning and removing major obstacles before they cause delays in a project, thereby saving money on your projects.

*Presenter: Levi Ladd, GISP, James W. Sewall Co.*

### **2:45 p.m. – 3:00 p.m. - Afternoon Break/Visit with Partners**

### **3:00 p.m. – 4:00 p.m. Concurrent Sessions**

#### **Mobile Device and the Internet of Things (IoT) Security**

This session will focus on common cybersecurity threats that many municipalities face and introduce the concept of the Internet of Things (IoT). We will look at the risks and vulnerabilities of mobile devices and other devices that are connected to the internet, methods to secure these devices within the workplace, and methods and practices to mitigate these common threats.

*Presenter: Henry Felch, Associate Professor, Cybersecurity, University of Maine at Augusta  
MTCMA Certification – 1 point Human Resources and Leadership categories*

#### **Status of the Public Safety Broadband Network (FirstNet) in Maine**

The wireless public safety broadband network in Maine is operational and is in the third year of a five-year build-out. Learn more about the status of the project and what work remains to be completed in order to provide required coverage in Maine by 2022.

*Presenters: David Maxwell, Program Director, FirstNetME, State of Maine Office of Information Technology; Bruce Fitzgerald, Principal Consultant, AT&T FirstNet  
MTCMA Certification – 1 point Leadership category*

#### **Municipal Broadband: Mapping, Money, and Models**

Municipal broadband projects are happening all over Maine. There are many models for funding, build out and delivery that are being tried. This panel will explore some of the GIS foundations of municipal broadband, as well as the Open Access fiber model.

*Panelists: Will Mitchell, CEO, NBT Solutions/ VETRO FiberMap; Brian Snider, CEO, Lit Communities; Jim Stegeman, President/CEO, CostQuest Associates; Erin Austin, Regional Market Manager, Neighborly*

#### **Remember How Long It Took Before We Had GIS? (30-minute session)**

Municipalities large and small are embracing the value of using GIS to increase staff efficiency. Today's available technologies allow for faster creation and deployment of affordable applications focused to meet particular needs. See examples of how some are using online GIS services and mobile Apps for distributing data, managing/improving workflows, inventorying/tracking assets, as well as for planning and making more informed decisions.

*points for attending the full conference toward MTCCA certification. **Certificate of attendance or proof of registration and payment required.***

***MTCMA (Maine Town, City and County Management Association)** is offering points toward MTCMA certification for attending select sessions. See session descriptions for more information.*

***Certificate of attendance or proof of registration and payment required.***

***MMTCTA (Maine Municipal Tax Collectors' and Treasurers' Association)** is offering 10 points for attending the full conference toward certification as treasurer. **Certificate of attendance or proof of registration and payment required.***

***Maine Revenue Services** is offering CMA/CAT re-certification credits for attending select sessions. See session descriptions for more information. **Attendees must sign-in to receive credit.***

*Presenter: Aaron Weston, CAI*

*.5 CMA/CAT re-certification credits through Maine Revenue Services*

**Assessing the Impact of Rising Sea Levels on Maine's Coastal Communities** (30-minute session)

The Coastal Risk Explorer, a tool customized for Maine, ties the projected impacts of rising sea levels on the transportation lifeline for emergency services with the social vulnerability of Maine's coastal communities. In this talk, you will get an introduction to this web-based tool, the data behind it, and will leave understanding how to use it.

Presenters: Jeremy Bell, The Nature Conservancy; Elizabeth Hertz, Blue Sky Planning Solutions; Eileen Johnson, Bowdoin College

**4:00 p.m. – 5:00 p.m. - Maine GIS User Group Board Meeting**