Hello from the Esri Mid-Atlantic User Group,
Please join us for a one-day virtual meeting on **December 4, 2020**. There will a plenary session provided by Esri and a slew of great presentations but together by your peers on a variety of topics. We hope you can find time to attend the conference, even if you only join for part of the day.

Date: December 4, 2020
Agenda: Below
Registration Page: Register in advance for this free Zoom meeting:
https://us02web.zoom.us/meeting/register/tZcpdeioqz8vGN3jeD6FBxkmSgsqTAXzyTEu
After registering, you will receive a confirmation email containing information about joining the meeting.

Thanks, Sue Hoegberg
Esri-MUG Secretary

ESRI-MUG Fall Meeting Agenda 2020

Time	Session	Abstract
9:00-10:00	**Opening Plenary** - Esri Rachel Weeden, Esri Daniel Wickens, Esri	With the ArcGIS platform evolving as we speak, it can be difficult for our users to keep pace with every new update and piece of functionality. In this plenary presentation, we will cover five high-level topics of what's new in ArcGIS that most of you will come across in your daily work. Topics will include: • What's New in ArcGIS Pro – Suitability Modeler • What's New in ArcGIS Online – Map Viewer Beta • ArcGIS Experience Builder • ArcGIS Field Maps • ArcGIS Solutions
10:00 - 10:10	**Break**	
10:10 - 11:00	**Lightning Talks - 10 minutes each**	
10:10 - 10:20	**Title:** Mapping Business Intelligence **Presenter:** Yiman Song, GISP **Organization:** Loudoun Water	Does your organization ask you to put business intelligence in a map? Wouldn't it be nice to have a powerful reporting tool like Microsoft Power BI to along with your spatial intelligence? Loudoun Water spent the summer trying to figure out a robust BI platform for the map lovers. We are delighted to share with you what we learned and what we built.
10:20 - 10:30	**Title:** Python Automation for a Census Response App **Presenter:** Mara Kaminowitz **Organization:** Baltimore Metropolitan Council	In order to assist our local jurisdictions in Census outreach, the Baltimore Metropolitan Council created a web app to track Census self-response rates throughout the region. This app gradually evolved from a manually updated web map to a Python-driven application that automatically updates on a daily basis. This presentation will discuss the app, how the automation process was developed, and the outcomes from the final product.

10:30 - 10:40	**Title:** COVID-19 Vaccine Mapper: An Online Tool to Track Vaccine Candidates Response App **Presenter:** Milan Budhathoki,GISP **Organization:** GIS and Spatial Data Center University of Maryland Libraries	Many researchers and bio-pharma around the world are working diligently to find a vaccine that potentially cures SARS-CoV-2, the virus causing the COVID-19 pandemic. There are more than 200 vaccine candidates for COVID-19 under different phases of development. In this presentation, I will demo an online tool, i.e, a vaccine mapper dashboard that I built to track development of vaccine candidates throughout the world. This dashboard will be continuously updated with public information on COVID-19 vaccines aggregated from various sources and annotated to support meta analyses. The Vaccine Mapper provides an interactive infographics on key scientific information about the different vaccine candidates, vaccine design and their progress.
10:40 - 10:50	**Title:** Hazus AEBM and UDF Data Preparation: Tips and Tricks **Presenter:** Vince Legendre **Organization:** Atkins Global, Inc.	Hazus is a nationally applicable standardized methodology that contains models for estimating potential losses from earthquakes, floods, and hurricanes. Hazus uses Geographic Information Systems (GIS) technology to estimate physical, economic, and social impacts of disasters. It graphically illustrates the limits of identified high-risk locations due to earthquake, hurricane, flood, and tsunami. Users can then visualize the spatial relationships between populations and more permanently fixed geographic assets or resources for the specific hazard being modeled, a crucial function in the pre-disaster planning process. (FEMA).
10:50 - 11:00	**Title:** GIS for Disaster Response: SCAN, Housing Missions, and PHC Program **Presenter:** Michelle Schear and Patrick Kent **Organization:** Dewberry	Over the past year, the Dewberry geospatial team has leveraged a variety of GIS technologies to support the Federal Emergency Management Agency (FEMA) in their response and recovery efforts. The team is involved in many stages of the emergency response and recovery process, from pre-event planning to short-term and long-term recovery. At the onset of a natural disaster event, such as a hurricane or medical disaster (COVID-19), Dewberry is activated as part of a recently developed task force called SCAN (Supply Chain Analysis Network). SCAN's purpose is to research and analyze the private sector resilience and preparedness, enabling FEMA to better plan their response. Shortly after a disaster occurs, the GIS team at Dewberry will often support FEMA's efforts to plan and construct temporary housing for survivors whose homes were damaged or destroyed. Finally, in some circumstances Dewberry is also involved in the permanent repair and reconstruction of residential homes as part of the Permanent Housing Construction (PHC) Program. Through these services, Dewberry's geospatial team has helped FEMA to become more efficient and effective in disaster response and recovery efforts.
11:00 - 12:30	**Break**	

12:30 - 1:30	**Presentations - 15 Minutes Each**	
12:30 - 12:45	**Title:** Facility Asset Management in an ArcGIS Enterprise Environment **Presenters:** John Privot, Maryland Transportation Authority; Sean Schevitz, KCI Technologies	Asset Management is a major initiative for the Maryland Transportation Authority (MDTA). Efficiently managing its facilities assets including HVAC systems, electrical systems, and fire protection is a focus. MDTA and KCI Technologies will show how they are leveraging a new ArcGIS Enterprise environment to inventory their assets in a campus geodatabase model. Leveraging ArcGIS Collector along with 2D GIS floorplans enables accurate location of assets within a building, floor, and room along with specifications, photos, and barcodes. A subsequent goal is to integrate with Maximo Spatial for asset management activities.
12:45 - 1:00	**Title:** Web Based Drainage Area Delineation Tool using LiDAR Elevation Surface **Presenter:** Brett Martin, GISP **Organization:** Fairfax County Land Development Services	Fairfax County, Land Development Services has developed an innovative web GIS solution to streamline the process for delineating drainage areas using LiDAR data. The workflow involves hydro conditioning the LiDAR derived Digital Elevation Model (DEM), creating a flow accumulation grid with drainage area values, and developing a drainage area delineation geoprocessing service. The new tool gives county staff across multiple agencies the ability to easily delineate watersheds using the most accurate elevation surface available. Esri Software Used: ArcGIS Pro, Portal for ArcGIS, ArcGIS Server, Web App Builder for ArcGIS
1:00 - 1:15	**Title:** Cloud 101: Taking ArcGIS to the Cloud **Presenter:** Tim Small **Organization:** GIS Inc.	Why consider the cloud for your GIS? We will introduce the basic considerations and capabilities to be aware of when considering how the cloud can serve your program. Popular use cases and patterns as well as innovative and cutting-edge examples will be highlighted.
1:15 - 1:30	**Title:** Trimble Unity Remote Monitoring and Work Order Management for Water and Gas Utilities Leveraging Esri technology **Presenter:** Russell Vrhovac **Organization:** Duncan-Parnell	The presentation will dive into the complex marriage between GIS technology and utility network monitoring for system variables such as pressure, level, pump-runtime, rain, flow, chlorine and others. Through partnership and integration between Trimble and Esri technologies, Trimble Unity allows users to leverage web-hosted GIS feature services allowing utility providers access to accurate positional data of assets and sensors as well as Key Performance Indicators (KPIs) on utility networks. Information coming from network sensors into Unity also supports Esri dashboarding capabilities pulling data from network sensors into GIS dashboards giving users flexibility to offer Esri dashboard solutions back to users for a richer system-awareness suite of solutions for any sized organization.
1:30 - 1:40	**Break**	
1:40 - 2:10	**Closing Plenary**	
2:10 - 2:40	**Virtual Hang Outs - people randomly put in breakout rooms to network. Redo every 10 minutes.**	