Unmanned Aircraft Systems (UAS) are commonly referred to as drones. UAS was one of APWA’s Top Trending Technologies in Public Works for 2018 and APWA has created a variety of educational offerings about UAS. APWA has created this toolbox to share with you so that you can learn more about UAS/Drones.

PUBLIC WORKS PROFESSIONALS USE UNMANNED AIRCRAFT SYSTEMS (UAS) FOR:
- Bridge Inspections
- Pipe Inspections
- Damage Inspections
- Special Events – Emergency Management
- Disasters – Emergency Management
- Surveying
- Construction Observation/Monitoring
- Zoning Observations

ENGINEERING AND TECHNOLOGY COMMITTEE GUIDANCE STATEMENT
Local Agency Usage of Unmanned Aerial Systems

APWA EDUCATION AND CREDENTIALING BLOGS
Top 10 Things to Know Before You Fly a Drone
Preparing for Takeoff: what public works needs to know about UAV courses

APWA REPORTER ARTICLES
January 2020
Applications of Unmanned Aerial Systems in engineering
August 2019
Drones: Can they benefit public works
July 2019
What’s the buzz about drones?
March 2019
Considerations for Public Works Drone Programs
June 2016
Drones as a tool for bridge inspections

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CLICK, LISTEN & LEARN WEBINARS

UFO or UAV? The Welcome Invasion of Drones in the Public Works World
Just a few short years ago the sight of a multi-rotor, Unmanned Aerial Vehicle with flashing colored lights may have invoked a reaction similar to spotting a flying saucer. Now there are an estimated 600,000 Small UAVs—or drones as they are commonly called—registered with the Federal Aviation Administration.

CLL Managing Change and Improvement with Technology Tools
A group of speakers will discuss how various current and trending technologies such as GIS, aerial drones, asset management systems, smart vehicles, and others are changing how Public Works leaders are managing their responsibilities. The discussion will cover how to prepare to use, implement, and sustain the technology in a range of settings and operations. The speakers will discuss the requirements for skills and tools, along with management support, that must be in place prior to implementation and utilization of technology, and to institutionalize the capability.

TALKING TOP TECH WEBINAR
Talking Top Tech: Unmanned Aircraft Systems (UAS)/Drones
Join us for a look at UAS/Drones through the perspective of different lenses including Public Works, Consultants, and industry. Leaders in each field will participate in a panel discussion and answer APWA member questions.

PWX EDUCATION SESSIONS
Unmanned Aircraft Systems (UAS) for Bridge Inspection
The Minnesota Department of Transportation (MnDOT) has conducted a research project to evaluate unmanned aerial system (UAS) technology, safety, and effectiveness for bridge inspection. They've looked into the effectiveness of the technology, current and proposed FAA rules regarding UAV safety, and a cost comparison between UAS and traditional inspection tools.

Taking Flight to the Next Level — Practical Public Works Applications of Unmanned Aerial Vehicles
Explore how the City of Rancho Palos Verdes, California, has used UAV technology to create 3D maps of a local landslide, and employed them as part of parks and building maintenance and disaster response and damage assessment. UAVs were integrated into a summer intern program to engage local high school students to expose them to real world public works issues.

SNOW CONFERENCE EDUCATION SESSION
New Technology Trends for Winter Maintenance
There are many new technologies that could transform winter maintenance operations.

For more information at APWA’s Top Trending Technologies in Public Works please visit www.apwa.net/toptech.