

UAS Center at SBD/Drone Bridge Inspection Video

<https://youtu.be/Czjm9ofeyes?si=CvMTZXBZMfSJLtlK>

FADE IN on daytime aerial shot of older San Bernardino bridge.

(V.O.)

Aging infrastructure is an expensive and hazardous problem for many communities. It's a particular challenge in Southern California, with six percent of Los Angeles County and San Bernardino County bridges classified as structurally deficient.

DISSOLVE between aerial shots of aged city bridges or similar infrastructure as VO continues.

(V.O. cont'd)

In San Bernardino County alone, there are more than 1,400 bridges. With many in need of repair, government leaders are turning to innovative new solutions that improve safety while driving costs down, like infrastructure inspections using unmanned aerial vehicles, or drones.

DISSOLVE to shots of drone pilots working with structural engineer at the Mountain View Avenue Bridge.

(V.O. cont'd)

In May 2022, the Inland Valley Development Agency engaged a team of professional drone pilots to work with a certified structural engineer on an aerial inspection of San Bernardino's Mountain View Avenue bridge.

The collaboration was made possible through the new UAS Center at SBD, which seeks to develop, test, exhibit and commercialize unmanned aerial systems technologies while demonstrating cutting-edge product applications at San Bernardino Airport.

The UAS Center at SBD represents a unique public-private partnership between San Bernardino County, the Inland Valley Development Agency and Caltech's Center for Autonomous Systems and Technologies.

KIMBERLY BENSON/UAS CENTER SOUNDBITES HERE ABOUT CENTER AND BRIDGE INSPECTION

DISSOLVE to drone shots of the bridge inspection, intercut with pilot and engineer reviewing live flight video.

(V.O.)

With drones, engineers can conduct infrastructure inspections that are significantly safer, faster, less expensive, and less disruptive than conventional inspections.

CUT TO DAVE KRAUSE, Co-Founder, Influential Drones, at bridge site, explaining the many technical aspects of the drone inspection, with accompanying visuals.

(V.O.)

This is the first of several planned flybys of the San Bernardino bridge, which will create a baseline of structural data allowing city staff to monitor its future strength and safety against that benchmark.

CUT TO GERARDO DE SANTOS, Syrusa VP, at bridge inspection site.

GERARDO DE SANTOS

The opportunity with the drones is, it's a visual inspection. They're able to capture data, locations, everything that's very important to the bridge inspection. There's a lot more accuracy with the drone, which is nice, and a lot more data that can be collected in a very efficient and safe manner.

DISSOLVE to shots of FoxFury lights in use on the drone or on the ground.

(V.O. cont'd)

Using drones equipped with specialized lighting and assisted by ground-based lights, engineers can analyze high-resolution images of hard-to-reach, dimly lit areas like the underside of bridges, photos that can be used to spot any structural deficiencies.

ONE SOUNDBITE HERE from MARIO CUGINI, CEO of FOXFURY Lighting Solutions.

DISSOLVE to shots of engineers reviewing drone footage and data on office computer screens, like 3D and infrared models.

(V.O.)

Drones also can generate 3D and infrared models of the structures they inspect to identify areas of corrosion, scour, and fracture.

CUT TO GERARDO DE SANTOS at bridge inspection site.

GERARDO DE SANTOS

So, part of our bridge inspection is visually looking at the structure. There're many elements we have to look at and evaluate. [Explains working with pilot on a flight plan to capture needed imagery.] We're looking for cracks, any kind of deterioration...

GERARDO DE SANTOS (cont'd)

The pilot was mentioning his pattern... He can do one of the patterns in like seven minutes, OK? I can't walk across this bridge in seven minutes.

CUT TO DAVE KRAUSE at bridge site and use his comments comparing the efficiency of a drone inspection to the cost and disruption of a conventional inspection with a snooper truck. You can end with this line in VO:

DAVE KRAUSE (V.O.)

A bridge inspection using a drone makes everything a lot easier for everybody.

DISSOLVE to various shots of the UAS Center at SBD that illustrate the voiceover.

(V.O.)

Infrastructure inspections are just one of the ways drones and other unmanned aerial systems are transforming public works projects and public policy at a time of critical need.

That's where the UAS Center at SBD can assist. Located just an hour's drive east of downtown Los Angeles, the Center serves as a thriving hub for the advancement, commercialization, and adoption of autonomous technology in the U.S. and globally.

Our clients include leading government agencies, drone manufacturers, software providers, and research institutions. We consult on drone policy,

standardization, and integration as well as product evaluation.

KIMBERLY BENSON SOUNDBITE HERE

(V.O.)

Our San Bernardino Airport site offers comprehensive drone pilot training and certification as well as a 78,000-square-foot, state-of-the-art facility for test flights and demonstrations.

We also partner with public and private sector organizations in support of regional workforce development initiatives.

CUT TO DAVE KRAUSE at bridge site talking about the growing benefits of drones and expanding opportunities for their use, and the UAS Center.

DISSOLVE TO UAS Center at SBD logo.

After a beat, FADE OUT then FADE IN and HOLD on the web address and social media icons.

(V.O.)

To learn more about the Future in Flight, visit us at uascentersbd.com.

(DISPLAY ON SCREEN)
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