



SOLVANG

CASE STUDY



Your tax dollars at work

Every spring across the United States, potholes and road damages result from drastic temperature changes and regular wear. In many areas, repairs can be reactive and delayed—but not in the City of Solvang, where the Department of Public Works uses Maxar imagery to quickly locate damage and mobilize paving crews to rapidly address repairs and keep all roads travel-ready.

Multiple municipal demands

An overwhelming number of large and incidental projects consistently keep a Public Works department busy. They are regularly active planning neighborhoods, maintaining environmental quality, and improving infrastructure. So it was easy to predict that high-resolution imagery would be useful for many of these projects at the City of Solvang; but the Department of Public Works also needed to measure and interpret the data quickly, without dedicated GIS professionals on staff.

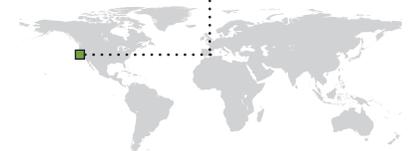
The City of Solvang is a tourist town with loads of vehicle and horse-and-buggy traffic along with the associated wear and tear. The ideal solution for finding and repairing road damage by Solvang's Department of Public Works was orthorectified aerial imagery from Maxar.

The imagery was instantly utilized to streamline operations and fulfill many aspects of the department mission. Road repaving was one of the immediate applications that afforded substantial savings in time and resources. Viewing the imagery, engineers could survey all the roads at once and determine which roads to repair soonest; and using the imagery as a base layer, they produced markup drawings with accurate measurements for ordering materials and descriptive notes and instructions for road crews.

The city of Solvang took advantage of the exceptional value and versatility of Maxar's high resolution imagery. Their open communications and creative applications make the imagery an essential tool for planning and completing large projects and performing day-to-day operations. This benefit is compounded by the immense savings in time and resources previously spent on visiting sites and validating conditions.

COMPANY INFORMATION

Solvang is a Danish replica village in California that is a tourist attraction with quiet streets, windmills, gentle rolling hills, horse ranches and wineries.



MAXAR

Exceptional value and versatility

Word of this extraordinary tool spread to other city departments and now almost everyone consults the high-resolution aerial imagery to plan and execute daily operations for the city. Aside from addressing road resurfacing, construction, and environmental issues like storm water, tree removal and agricultural use in Solvang, Maxar imagery serves a multitude of other creative solutions implemented across city departments:

- Fire protection: Locate hydrants and accurately layer addresses of all buildings before a fire occurs.
- Accidents: Identify stationary reference points, measure intersections, and evaluate pre-impact and post impact conditions.
- Code enforcement: Match permits, permit applications, and complaints to imagery to verify or determine violations.
- Inventory: Quickly survey infrastructure objects from road markings and buildings to manholes and fire hydrants.
- Purchasing: Determine quantities of materials needed in a given area (concrete, equipment, manholes, hydrants, parking meters) and calculate the associated cost.
- Parades: Establish traffic control and station route marshals, sheriffs and outhouses.
- Paparazzi: Protect celebrities; for example, know property boundaries for police to restrict photographers from hospital property.
- Citizen inquiries: View area, find answers and avoid troubled locations.

“The Maxar imagery paid for itself with the first few projects and since then I think first of the imagery and use it everyday for everything from street striping projects to resident calls about encroaching shrubs from a neighbor’s property.”

BRIAN JUST, MANAGER, CITY OF SOLVANG PUBLIC WORKS DIVISION

Challenge	An overwhelming number of large and incidental projects consistently keep a Public Works department busy: planning neighborhoods, maintaining environmental quality and improving infrastructure.
Solution	High resolution Aerial Imagery was needed to instantly streamline operations, fulfill many inefficiencies in the department mission and create substantial cost savings.
Results	Open communications and creative applications make Aerial imagery an essential tool for planning and completing large projects as well as performing day-to-day operations.

INDUSTRY

- Civil government

USES

- Public works

PRODUCTS USED

- Orthorectified aerial imagery