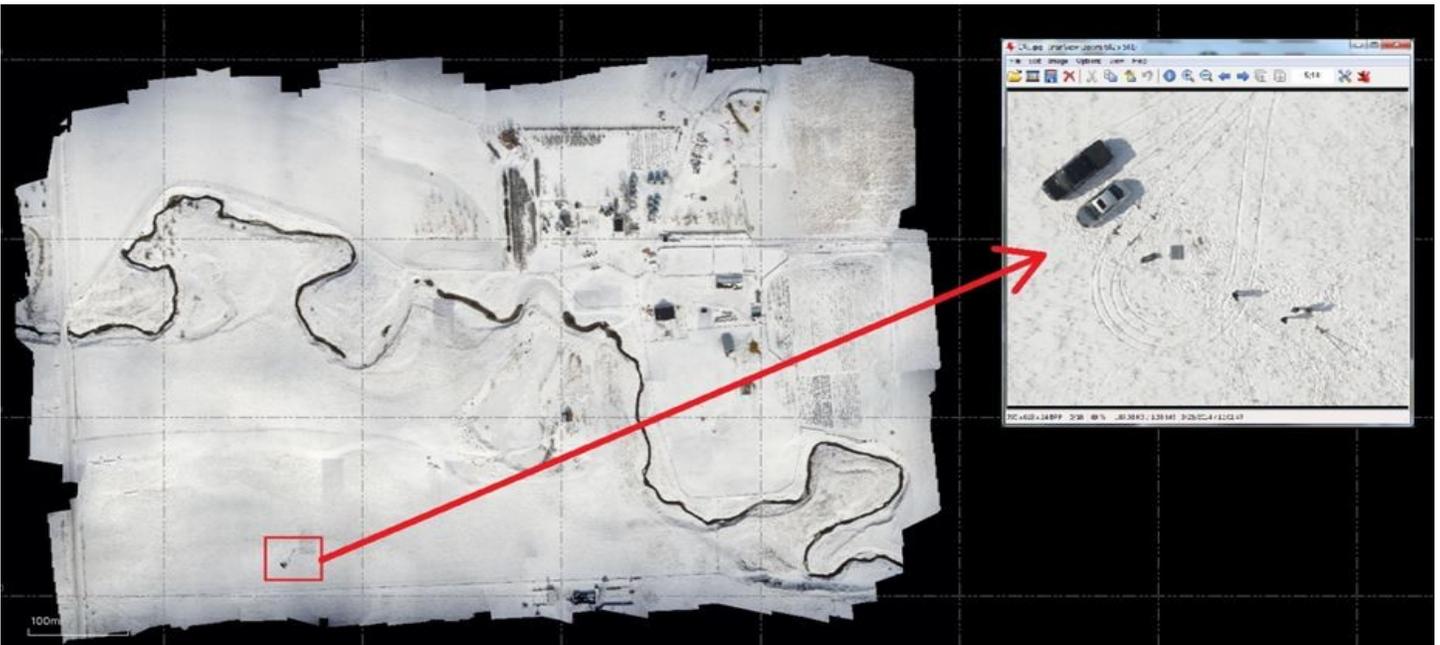


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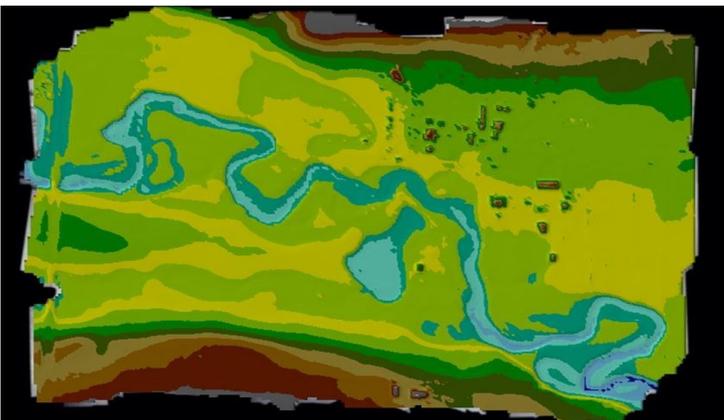
Unmanned Aerial System (UAS) Technology: Client Specified, High-Resolution, Aerial Imagery Collection

What imagery collection mechanism can be scheduled independent of cloud cover, at a fraction of the cost of contracting an aerial survey, at resolutions tens of times more detailed than satellite images, and with custom collection areas editable by you, the customer, up to minutes before flight time? Answer: Unmanned aerial systems (UAS). CompassData is ready to provide this cost efficient imagery solution. We have three Trimble certified remote pilots ready to fly a state of the art Trimble UX5 UAS (where allowed) for your high resolution imagery needs.

For example, what if you were a rancher near Calgary, Alberta, Canada who needed to prepare for spring flooding? As part of the pilot training, CompassData flew the UX5 for fifteen minutes on a snowy March day (before the spring melt) and gathered the high resolution images shown in the final ortho mosaic shown below (note the piloting crew's vehicles in the close up).



Once the imagery was on the ground, our staff created a Digital Surface Model shown below, and used it to create the ortho mosaic shown above – all within a day! Unlike traditional DEM creation requiring stereo pairs from aerial or satellite sensors, a UAS uses extensive mono image overlap to generate the elevation points. Imagine how valuable this quick turnaround could be in scenarios of natural disaster or other events posing public safety concerns.



DSM – Digital Surface Model of ranch in Alberta, Canada. Note the risk posed by flooding to the structures located closer to the stream. Also note the low elevation of the road on the left side of the model.

CompassData was in 71 different countries in 2013 surveying ground control points, and we are excited about collecting UAS imagery domestically and internationally where allowed. Imagery collected will be very detailed and as accurate as the user needs (through orthorectification and use of GCPs). The “sky’s the limit” with potential applications: utility corridor mapping, crop analysis, terrain modeling, mine mapping, tree height calculations, disaster relief, wildfire monitoring, border patrol, livestock management, wildlife management and ranch mapping to mention a few.

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