Regional Aerial Imagery Questionnaire Summary

San Diego Regional GIS Council Meeting
April 11, 2013
2014 Imagery Questionnaire

• Background

In March 2012 SANDAG, SanGIS, the NGA, the LECC and Regional Public Safety GIS worked out an agreement to acquire aerial imagery for San Diego County. All products delivered (GeoTIFs, and MrSIDs) are in the public domain and available for use by all jurisdictions in the county.

The 2012 aerial imagery collection project showed that regional entities can come together to provide value to all citizens in the County at a cost to each agency that is less than the total of individual efforts.

This model, however, is not sustainable for future collection projects. Funding for region-wide projects must be shared among all beneficiaries to be sustainable.
2014 Imagery Questionnaire

• Action

The agencies involved in the 2012 project were interested in collecting aerial imagery again in calendar year 2014 but for the reasons stated, additional participation would be necessary to make that happen.

For that reason a questionnaire was sent to regional agencies to determine what, if any, interest there was in participating in a similar project to acquire 2014 imagery.

To that end, SANDAG and SanGIS teamed up to create a 2014 Regional Aerial Imagery Questionnaire that was sent to 58 individuals in the County representing federal, state, regional, and local governments.

Following are the results of that survey.

Note that in the charts that follow percentages made not add to 100%. Percentages are based on the total number of responses to the survey (29) – not the number of responses to the question.
## 2014 Imagery Questionnaire

### Requests and Responses

<table>
<thead>
<tr>
<th>Category</th>
<th>Questionnaires Sent</th>
<th>Responses Received</th>
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</thead>
<tbody>
<tr>
<td>Airport</td>
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<td>Tribe</td>
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<tr>
<td>Water District</td>
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<tr>
<td><strong>Grand Total</strong></td>
<td><strong>58</strong></td>
<td><strong>29</strong></td>
</tr>
</tbody>
</table>
What is the minimum resolution your agency requires?

- 1 meter: 6.9%
- 1/2 meter: 3.4%
- 1 foot: 41.4%
- 6 inch: 27.6%
- 4 inch: 10.3%
- 3 inch: 3.4%
2014 Imagery Questionnaire

What is the resolution your agency would prefer?

- 1 meter: 0.0%
- 1/2 meter: 3.4%
- 1 foot: 20.7%
- 6 inch: 31.0%
- 4 inch: 41.4%
- 3 inch: 13.8%
What imagery area are you interested in acquiring?

- I need the entire County of San Diego: 27.6%
- Up to 10 miles outside my jurisdiction: 17.2%
- Up to 5 miles outside my jurisdiction: 17.2%
- Up to 1 mile outside my jurisdiction: 27.6%
- Just within my jurisdiction boundaries: 17.2%
2014 Imagery Questionnaire

How important is it to have a fourth, near-infrared band?

Why would I want it?
- Really need it, can't get by without it: 3.4%
- Could really use it, can get by without it: 27.6%
- Don't need it, would use it if available: 37.9%
- Don't need it, wouldn't use it: 17.2%
2014 Imagery Questionnaire

What time of year do you prefer the imagery be flown?

- In the Fall, leaf off: 38.5%
- No preference: 38.5%
- In the Spring, leaf on: 23.1%
2014 Imagery Questionnaire

What imagery delivery format do you need?

- Just the Geotiff files: 15%
- Just MrSID or ECW files: 30%
- The Geotiff files and MrSID or ECW: 55%
2014 Imagery Questionnaire

What licensing requirements do you have or need? (Multiple choices selected)

- Would like to have it in the public domain: 31.0%
- Would like to provide as a web map service: 55.2%
- Would like to share with consultants: 62.1%
- Would like to share with other jurisdictions: 51.7%
- Internal use only, no need to distribute: 24.1%
2014 Imagery Questionnaire

Would you be interested in acquiring elevation data? (Multiple items selected)

- We would like raw LIDAR data: 41.4%
- We would like a DEM/DTM model: 48.3%
- We would like a 40 ft contour layer: 0.0%
- We would like a 20 ft contour layer: 0.0%
- We would like a 2 ft contour layer: 69.0%
2014 Imagery Questionnaire

Are you interested in acquiring oblique imagery (such as Pictometry data)?

- No, we don’t need this type of data (34.5%)
- Maybe, but not sure what it is exactly (3.4%)
- Maybe, but not sure how we would use it (17.2%)
- Yes, we might be able to use this in our work (24.1%)
- Yes, this would be very useful to us (17.2%)
• So Where Are We Now?
  We’re a little bit behind on getting things organized but what we need to do next is:
  – Get a commitment form those agencies that want to participate
  – Determine which products will be acquired and how much they will cost
  – Develop a cost model to fairly allocate the costs among participants
  – Verify that we have the funds available to acquire the products desired
  – Select a vendor and sign a contract
2014 Imagery Questionnaire

What Does the Timeline Look Like?

Fiscal Year (budget-related) Activities

Calendar Year (project-related) Activities