

San Diego Regional GIS Council Meeting Minutes

Wednesday April 11th, 2018

Padre Dam Municipal Water District

GEO NEWS

USGS Update – Drew Decker

- 3D Elevation Program (3DEP)
 - 1 meter DEM's going online
 - Lidar now available for download from USGS
 - Lidar will be available for LA County very soon
 - San Bernardino County will be available soon, some in Mojave Desert
- National Hydrography Dataset (NHD)
 - Data being prepared for NHD Plus with value-added attribution
- New topo maps for the state: 2018 topo sheets
 - Available by end of the year
 - Will be all digital
 - 1:24,000 scale, topo intervals vary by elevation:
 - 10' near the coast, 40' inland
 - Topo lines available as GIS layer
 - Can also be used with point cloud or DEM's
- CalGIS
 - Data available online: see CalGIS website for slides and video
 - Liz from Sierra center: slide deck with info on Lidar utility - in online minutes from last CalGIS council meeting

SanGIS Update – Brad Lind

- Published parcel layer will no longer have 2 sets of address fields
 - Only address data from assessor's office will continue to be available
 - So far no major complaints about removal
 - Next month (May 2018) taken out permanently
- New coastal zone layer
 - County, City, and a combo of both, all have coastal layers - consolidate into one new layer
 - Sending out to coastal cities in SD to get recommendations for changes and utility value of layer
- SanGIS to drop Thomas Brothers data
 - Taking Thomas Brothers fields out of published data
 - Expensive dataset to maintain and buy, data isn't updated often enough by Rand McNally
 - Use regional public safety grid or national grid instead

SANDAG Update – Pat Landrum

- Bike routes layer updated via collaboration with local jurisdictions

- Lidar will be used to update elevation field in bikeways data
- Bike to Work Day is May 17th, 2018
- Online interactive bike map: target date for updated map is May 1st
- Server migration
 - New services will be published as HTTPS (ArcGIS Server 10.6)
 - Harry to possibly send out reminder emails of the change
 - 2017 imagery first set of data on new server, then historical imagery, and land use data after
 - Reorganizing data categories
- Regional Forecast – available end of May
 - Jurisdictions helped with housing capacity and scheduled development
 - Took over a year to get all that info
 - Forecasts out to approximately 2035
 - Definite housing shortage in the future based on data forecasts
- Land inventory update under way
 - Annual parcel-based land use and dwelling unit updates
- LUCA updates
 - Subset of data available to all jurisdictions in next couple of weeks
 - LUCA wants to know what changed from 2010 to 2017
 - Reimbursement available, up to \$7500 for larger cities
 - SANDAG is helping some cities like La Mesa
- Regional Data Warehouse
 - About 13,000 registered users
 - Always looking to improve: discussions for improvements in the works
- SB1
 - 50 billion dollars worth of transportation projects
 - SANDAG has been mapping all the projects
 - Any jurisdictions interested in getting data can contact SANDAG
 - Money available for local cities
- Building footprints from Pictometry
 - Mid April delivery, then review from SANDAG staff
 - Final dataset estimated available June 1st
 - One of the most requested datasets from RDW
- Drones
 - SANDAG purchased drone for SBX (South Bay Expressway) for vegetation and erosion data

WORKING GROUP UPDATES

GIS Manager's Working Group - Eric Culp

First meeting was held in January, summary of meeting below:

- Top Challenges:
 - Staffing, Skills and Job Classifications
 - Changing Skill-Sets for Today's Technology

- Budget and Staffing Issues
 - Promoting GIS
 - Open Data and Engagement
 - Tying Success to Budgets
 - Challenge of Maps to Data to Analytics
 - Delivering Enterprise Services
 - Integration with Other Systems (Permitting, CMMS, etc.)
 - Mobile Applications
 - Successful Patterns and Practices
- Future Topics:
 - Role of the SDRGC GIS Managers Working Group
 - The Changing Role of GIS within the Enterprise
 - Regional GIS Mentoring
 - ArcGIS Pro Migration
 - ArcGIS Enterprise and Portal Migration
 - On-Premise vs. Cloud
 - GIS Integration Patterns and Practices
- Next Meeting May 8th, 2018 at 1 pm

Imagery Working Group - Brad Lind

- 2017 imagery wrapped up for the most part
- Imagery delivered and paid up, everything now is maintenance
- Questions or to get set up - contact Brad Lind or Louise Wedley
- Now that 2017 is done, start thinking about next collection
- Imagery Working Group might need to regroup and think of a new approach moving forward now that Brad is leaving
- 9 inch imagery available from SanGIS for \$350 whole county
- SANDAG and SanGIS have services available for imagery
 - SANDAG has 4 inch and 9 inch separately

Geocode Working Group – Pat Landrum

- No update: Pat doesn't have capacity to lead anymore - anyone interested is invited to step up
- Follow up with Ross Martin for more information

Student Showcase - Brad Lind

- No progress in the past few months
- Intent is to provide regionwide educational showcase for GIS programs, have GIS professionals judge student projects in a type of competition
- Show GIS educational opportunities and loop in GIS professionals

Next Generation 911 Data Layer Deployment - Brad Lind

- LUCA data

- Involved with SANDAG, provide Census bureau with updated addresses for 2020 Census
 - SanGIS currently working with local jurisdictions on Census updates (generally residential addresses)
 - Need to complete City and County by June
 - Other cities have other deadlines - summer
 - Better address data will help improve Next Gen 911
- Consultant hired to help SanGIS get from publishing data they have now into a Next Gen 911 format
 - Results should be out by late April 2018
- Data quality for address points is important because it affects both LUCA and Next Gen 911
 - Experian QAS software purchased to run addresses through USPS address database to catch potential errors
 - SanGIS management committee approved purchase of this software
 - Within the next few weeks SanGIS can run address data through QAS and check for errors
 - Carlsbad uses QAS and it seems to work well
- Next Gen 911 has different standards than what SanGIS has been publishing
 - We need to keep up
- Tim Williams asked: is there a data schema?
 - Schema will be completed this summer
 - Tim asked if he can edit data in his city
 - Brad responded: SanGIS actually prefers that cities update address data in their jurisdictions - they're the experts
 - Can add other fields to SanGIS schema without compromising data quality
- Address points need to have non-address dispatchable locations to access places such as hiking trails
 - Should have common place names to help dispatchers
 - Landmark names in data schema
 - Alias names
- SanGIS working with sheriff dispatch center to review current Emergency Service Number (ESN) layer
 - Lines match up with sheriff and fire data
- Abe Coughlin: Google coming out with tile-based address system that can be used for grid referencing
 - Goal is to be able to find locations that are difficult to locate in non-addressable areas
 - What 3 Words similar product
 - Marie Kennedy: longer list of words yields more specific location results

SUPERCHARGING GIS WITH DRONE DATA - UAS INTEGRATION WITH GIS

Wing Cheung, GIS Program Director at Palomar College

- There will be a UAS (Unmanned Aircraft System) certificate available, also a degree in Drone Entrepreneurship
- 2 current students at meeting with licenses to fly drones
- What can you do with UAS?
 - Ortho imagery
 - Double Peak School
 - Comparison to imagery
 - Covered 5 acres of school in 5 minutes
 - Infrared and Thermal Imagery
 - More costly
 - Used for things like energy auditing - heat leaking out of buildings, inspections
 - \$1k vs \$7k camera - \$7k camera used in example image
 - 3D Modeling
 - Upload as scene layers into ArcGIS Online
 - Share scenes in a website with council members, for example
- Using Drones at Palomar College
 - Drone-Con: Drone conference (<https://palomaruas.weebly.com/>)
 - Full attendance last year
 - This year's conference is July 6th, 2018
 - Presenters from The Bahamas, Dudek, military
 - Someone from FAA might be the keynote
 - 27 speakers lined up
 - Associates Degree in Drone Technology
 - Includes business classes for use in contracting out, etc
 - Received grant from National Science Foundation in June 2017 – funded drones
 - GIS Certificate program
 - Python, model builder
 - Migration to Pro
- Questions/comments
 - Space Kraft thought the conference was great and well done, suggested others to go
 - Spatial accuracy concerns
 - Wing says he wants to improve this with control points
 - RTK on certain aircrafts
 - Half centimeter accuracy
 - Drone data processing software
 - Cloud based
 - Could take a while if others using the server
 - Pix 40
 - More configuration options than Agisoft Photoscan Pro
 - Types of drones used: Fixed wing vs inspire (question from Pat)
 - Fixed wing has longer battery time

- Marie: drones used for interior? Not yet, says Wing
- Crowdsourcing between drone imagery and imagery working group?
 - SANDAG (Pat) offered to be the regional repository for that

OPEN DISCUSSION

- Geospatial SD
 - May 15th is the next Happy Hour/networking, at Bitter Brothers in Bay Park
- ArcGIS Pro workshop
 - At ESRI?
 - Limited to 20 people
 - Good discussion on why people are migrating to Pro:
 - Multiple views for layouts and presentations
 - It's the newest thing
- Half day workshop for GIS managers on utilization of GIS
 - Half day workshop on more technical aspects of software might be better
 - Happy hour afterwards
 - Free event, Harry (from ESRI) will keep us posted on when
- Pat wants to find a new champion for imagery collaboration/working group
 - Someone step up!
- Abe: offering new GIS position in Escondido for high level Analyst with experience in model builder and web development/servers

NEXT MEETING

Wednesday July 25th, 2018
9:00 AM – 11:00 AM
San Diego County Operations Center
5560 Overland Avenue – 1st Floor, Room 171
San Diego, CA 92123

SDRGC Attendance April 11, 2018

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