Community Resilience By the Numbers

In June 2019, URISA’s Community Resilience Task Force conducted a survey to collect information about how individuals and organizations use, or would like to use, GIS tools and techniques to inform and advance community resilience to natural disasters. The survey was distributed to researchers and practitioners through the URISA contact list and to contacts through the Association of State Floodplain Managers. In total, we received 241 responses from 44 states and 9 different countries (Figure 1 and 2).

While 70% of respondents were part of a public organization such as a government agency, slightly less than 20% were from private organizations and the remaining participants were from academia, non-profit and other types of organizations. Nearly 50% of the respondents’ identified planning as a primary interest followed by hazard mitigation (included approximately 40% respondents), emergency management (included 35% of respondents) and environmental management (included approximately 30%). Slightly over 40% of respondents identified other things, such as flood plain mapping or engineering, as areas of interest. Approximately 20% of respondents indicated their organizations serve national government, approximately 25% serve regional government, slightly less than 30% serve state or provincial government, 40% of respondents are in organizations that serve city or county government, and slightly less than 20% serve town government.

The Task Force defines community resilience as the ability of individuals, communities, organizations and jurisdictions to incorporate geospatial technologies and data to reduce risk and impacts of natural disasters. It identifies seven GIS-related elements, based on current research, that continue on page 2
inform resilience. These include risks, vulnerabilities and impacts; social networks; transportation and utility infrastructures; public health risks and services; governance procedures for addressing a crisis; economic investments and preparedness. We are currently evaluating responses to questions associated with this definition by examining how, or if, they differ by interest area, organizational priorities, and more. These questions include:

For which ‘elements’ do you or your organization use GIS to support visualization, analysis or management of information that informs community resilience and what are the most important data you use for each?

Other than GIS data, what additional types of resources would you like to have to help you more effectively leverage GIS to support community resilience?

We analyzed the responses of the 70% of participants who identified themselves to be part of public institutions to the above-mentioned questions. Based on the responses (Figure 3), the three main areas where GIS tools and techniques are used widely are for (i) risk, vulnerability and impact assessment, (ii) transportation and utility infrastructure mapping and analytics, and (iii) preparedness. GIS data and tools are also used in public health related analysis, economic investments and governance procedure. Although social network is a major component of community resilience, GIS data and tools are less likely to be used for such analysis.

Due to the open-ended nature of the responses, we created a word cloud (Figure 4) of the responses we received about what other resources are needed to support community resilience efforts in addition to GIS data. Evidently, access to data, tools and infrastructures, skilled staff to help with analysis, training and education to help with skillset development, imagery access as well as increasing awareness about using GIS data for community resilience efforts and a community of practitioners undertaking this effort is needed. While FEMA, USGS, NOAA and other federal level institutions are active in community resilience efforts, that is not the case at the local level, where access to all the requisite hardware, software and human resources are lacking for successful implementation of community resilience activities.

Another Task Force objective is the encouragement of effective partnerships between government, the private sector, academia, and other stakeholders. Accordingly, the survey incorporated questions about how or if respondents currently engage in partnerships. Nearly 90% indicated they partner with government organizations while between 55% and 60% partner with private, academic or not-for-profit organizations. Only 5% do not partner with any other organization. We are currently examining this data to understand how partnerships may differ depending on the organizational type and interests of respondents.

In the coming weeks and months members of the Community Resilience Task Force will be leveraging the valuable information collected in this survey, along with other inputs, to guide the development of webinars, best practices, and more. The survey also collected examples of lessons learned by participants in their application of GIS toward community resilience in addition to many participant contributed URLs of web-based resources designed to inform community resilience that we plan to share. We are also making significant progress toward completing a soon to be published cascading Story Map from which you will be able to access these resources.

If you would like to get involved in the activities of the Community Resilience Task Force or have questions about its work, contact the Task Force Chair, Kevin Mickey at kmickey@iupui.edu.
URISA is pleased to announce the recipients of 2019 Exemplary Systems in Government (ESIG) Awards. Since 1980, URISA’s ESIG Awards have recognized extraordinary achievements in the use of geospatial information technology that have improved the delivery and quality of government services. The award competition is open to all public agencies at the federal, state/provincial, regional and local levels. Applications were submitted in the Enterprise System and Single Process System categories.

This year a total of 28 entries were received – 20 in the Enterprise System category and 8 in the Single Process System category. A team of 14 volunteer reviewers, chaired by Dr. Gary Hunter, conducted detailed assessments of the 28 entries a total of 117 times. In Round 1 of the assessment process every entry was reviewed by three independent assessors who each scored it out of 50 on the basis of five award criteria. Of these, 11 high-scoring entries were selected to progress to Round 2 of the assessments where they were then reviewed a further three times. The average of the six assessment scores for each Round 2 entry was then calculated and used to determine the winners and close runners-up.

In 2019, an unusual situation arose with equal scores occurring for the winning entries in both award categories.

**ENTERPRISE SYSTEM CATEGORY -**

Systems in this category are outstanding, working examples of using information systems technology in a multi-department environment as part of an integrated process. These systems exemplify effective use of technology yielding widespread improvements in the process(es) and/or service(s) involved and/or cost savings to the organization.

This year there are two exemplary system winners and one distinguished system to be awarded in this category. The system summaries shown below have been taken directly from reviewers comments.

**The 2019 Enterprise System Category Winners are:**

“Land Information Management System (LIMS)”. Submitted by Nadine Clah GISP, IT Analyst/GIS Coordinator, Navajo Housing Authority, Arizona.

**System Summary:** This housing project includes a centralized secure GIS, a state-of-art data center, a document management system, a routing system and an asset management system. Also created were management tools, reporting dashboards, field data collection tools and an interactive web portal. So this once quite modest housing GIS project has subsequently grown in popularity within the NHA to the extent that it now supports the entire Navajo nation administration across three states and 27,000 square miles. Clearly, it was the use of the LIMS to act as an authoritative source of parcel information that gave them the platform to use it as an all-encompassing land management tool. Thus the unintended results from the original design were very impressive. Vacant houses can now be quickly identified, sewerage ponds are no longer built on floodplains, and new homes are not constructed where natural hazards occur. In turn, the NHA demonstrated to HUD that by leveraging the power of the LIMS, they could more efficiently manage their assets and resources which resulted in the receipt of additional grant funding that paid for the cost of the LIMS. The efficiencies are truly staggering when you see the physical constraints of the area and that the system they were previously using had not been modernized in over 50 years!


**System Summary:** This project is an impressive and creative use of technology by the City of Naperville to streamline both data maintenance and workflows in order to manage the deployment of 5G small cell wireless infrastructure within their jurisdiction. It represents an excellent response to a new mandate to provide prompt services to the telecommunications private sector while also minimizing duplicate work. The implementation is highly exemplary due to the use of agile project management practices in a GIS context, in addition to tight deadlines mandated by legislation, many users, and complex processes. It was implemented in an unusually rapid timeframe and had many difficult requirements, such as interacting with outside agencies, and a wide range of user skills and needs. The project represents a highly effective response to a State mandate where city staff were challenged to come up with an effective solution. The amount of cooperation needed was extreme and this system built trust between all parties. This project is a great example of how 5G will impact local government and could be a great ‘how to’ example for other jurisdictions to follow.

**Distinguished Enterprise System:** “The City of Roswell GIS”. Submitted by Patrick Baber, GIS Manager, City of Roswell, Georgia.

**SINGLE PROCESS SYSTEM CATEGORY -**

Systems in this category are outstanding, working examples of applying information system technology to automate a specific SINGLE
process or operation involving one department or sub-unit of an agency. The system application results in extended and/or improved government services that are more efficient and/or save money.

There are two exemplary system winners in this category and, as before, the system summaries are taken directly from the reviewers comments.

**The 2019 Single Process System Category Winners are:**

**“The City of San Antonio Solid Waste Management Department Service District and Route Optimization System”**. Submitted by Chelsie McNicol and Team, City of San Antonio, Texas.

**System Summary:** This route optimization process considers more than just the usual mileage and equipment costs associated with waste collection, and includes factors such as personnel, disposal costs, tonnage, and household distributions to help refine their waste collection service. Thus, it represents a more holistic, data-driven approach to creating efficiencies in the three waste streams of garbage, recycling and organics. As a result, enabling this type of data-driven analysis has created better collection routing. The process had a clear objective and has delivered significant ROI with projected savings of $1 million (decreased fuel, decreased overtime and lower equipment costs) and better service to the general public. User feedback has been incorporated into the design and automation of data mining and reporting is faster and more accurate. In summary the system was well-planned and executed, and provides great cost savings.


**System Summary:** This system provides a streamlined approach for resolving a unique public sanitary issue which impacts upon public, environmental and general visibility perceptions in the City of Charleston. To go from a paper-based system with flag markers, to a completely digital and GPS-based system has greatly improved the efficiency and accuracy of spill cleanup. The design of this system is a good example of numerous GIS best practices, combining several technologies (such as GeoEvent, mobile data collection and heat mapping) to create a focused workflow, and the overall project delivery was done in a very efficient manner. This design and implementation team really thought out of the box for how to solve this issue. The reduction of complaints, as a result of quicker clean-up of spills, permits city staff to give greater attention to other matters and other ordinance enforcement. The improvement to workflows, public health and safety, efficiency, and use of internal staff are all indicative of exemplary practice when evaluating the success of a project, and this application hits them all.

The accomplishments will be recognized during the Awards Ceremony at GIS-Pro 2019 in New Orleans, Louisiana, Monday September 30, 2019. The recognized systems in each category will be discussed in featured sessions during the conference. In addition, each system may be highlighted in an upcoming URISA webinar series.

To review the winning submissions for this year’s ESIG Awards, visit [http://www.urisa.org/awards/exemplary-systems-in-government/](http://www.urisa.org/awards/exemplary-systems-in-government/).

For details about GIS-Pro 2019, visit [www.gis-pro.org](http://www.gis-pro.org)

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**Workshop and Presentation Proposals Invited for #GISValTech2020**

URISA and the International Association of Assessing Officers (IAAO) are pleased to announce the 2020 GIS/Valuation Technologies Conference in Louisville, Kentucky. Formerly known as GIS/CAMA, the event has been re-branded to take into account the abundance of technologies that, when integrated with GIS, make valuation and assessment more accurate, efficient and applicable for jurisdictions of all sizes.

Workshop proposals are due by August 26 and presentation proposals are due October 7. Please check out the suggested topics and submission details here.
8 Steps to Transform your Corporate Culture
By: Magi Graziano

The engagement level of your workforce expands beyond the limits of offering tangibles such as a great benefits package, competitive market rates, flexible work schedules and challenging projects. Your company culture is truly your competitive advantage.

Most leaders are intent on shaping a constructive, collaborative and innovative workplace; however, accomplishing this eludes most. The following 8 steps are tried-and-true advances to creating a great place to work.

1. Understanding That the Organization is a ‘Human’ System
The human system is made of people and poses a higher degree of competency from all those who operate inside it. A human system requires much more cultivating as a living and breathing system is made up of many different people with thousands of perspectives, thoughts, beliefs, points of view, preferences, etc.

In a highly functional human system, such as a constructive corporate culture, the functionality of the system as a whole empowers individuals to fully participate with one another outside the limits of personal agendas and ego and inspires people to collectively collaborate and contribute to the group cause.

Understanding the realities of the human system allows you to become responsible for intervening in the ‘drift’ and consciously shaping a culture that operates outside the automatic, normal human conditioned patterns. When leaders of organizations understand the fundamental human operating mechanism and how thoughts work, they can proactively intervene and intentionally create an experience for people operating in the human system to thrive. This intentional experience is a constructive corporate culture.

2. Getting Curious About What Is So
When you take the time to peel back the onion and analyze the current condition of the human system in your organization at a macro level, it gives you insights into the root causes of labor disputes, stifled workforce productivity, unwanted employee turnover, and lack of employee engagement.

It is imperative that you inform your people what you are up to and why. When you do reach out and let them know that you want to have a conversation or send a survey about culture, share the purpose behind your curiosity. If you are unclear about your reason and purpose for learning more, wait until you are filled with purpose or compelled by a real business need to move forward.

Before you begin your inquiry process, ask yourself what you really want to learn and what will you do with the information once you learn it. As you are speaking to people and reviewing the results of the survey, embrace your most curious, non-judgmental, non-reactionary, authentic self. Staying in the neutral zone during your conversations allows you to sense patterns and discern systemic organizational themes.

3. Acknowledging the Unworkability
Every executive has an image of how the ideal organization operates. The first step in any positive organizational change effort is getting real—the acceptance of what needs to change and what needs to happen to have the change last.

Make a list of the areas uncovered in the data collection process (interviews, focus groups, surveys) and prioritize the highest impact areas. The highest impact areas are highest because if improved, they would glean the highest return on time, money and effort invested. Next connect the underlying behaviors, operating values and organizational processes or mindsets that intentionally or unintentionally constrain the overall engagement, performance, collaboration, and innovation among your workforce. Once you believe you have a handle on what is not working, it is important to allow the impact of this unworkability to move you into action.

4. Owning the Impact
Like it or not, the most senior executive is the ultimate guru with regards to how the organization operates. They decide what behavior is tolerated and how people treat each other. Introspection and self-awareness allows you to get real with yourself about what is really going on in the organization. If you are able to let go of self-judgment and defensiveness, you are much more able to see yourself as at the source of the unworkability. It is not about accepting blame or feeling guilty and taking responsibility for the problem; rather it is about seeing how you as the leader set the tone and create the space for constructive or destructive behavior to exist in the workplace.

5. Creating an Inspiring Vision
A mission statement is meant to guide the way for people to know and understand how to behave, act, react and work in sync with one other to accomplish the collective goal. In the absence of a continued on page 6
grounded, motivating mission, human beings naturally focus on their individual experience and personal goals. The power and detriment of personal thinking in a human system is that it produces silo mentality, unnecessary competition and friction throughout the organization.

6. Enrolling Others
Enrollment creates the possibility for others to feel connected and inspired in the workplace. Once you gain clarity of your mission and vision, communicating the message to the workforce is essential. Communication is often where messages break down. Realize that every person in your workforce has a unique perspective and way of listening, and target your message to the greater population and the varying degrees of listening. When crafting the message discern the impact it will have on the people hearing or seeing it.

7. Designing and Following a Road Map
Once you have inspired the troops and promised a bright future for all who lead and follow in the organization it is time to formulate a specific action plan. A cultural alignment road map includes desired outcomes, initiatives, programs, training, projects, people, and timelines.

Each person involved and engaged in shaping a constructive corporate culture needs to understand their specific role, the amount of effort required outside of normal responsibilities, the goals, and the desired organizational outcomes. Laying out a plan for what comes first, second and third as well as who is ultimately responsible for keeping the overall action items and constructive culture initiatives on track is necessary to move forward. As with any major organizational improvement, meeting regularly, tracking progress and publishing results is what empowers forward movement.

8. Measuring What Matters
Now that all the groundwork has been established, you know the why, what, how, and who, it is critical for success that you measure the benefits of the systemic changes you are making. Many organizations utilize the balanced score card approach as a framework for setting the right metrics. Additionally articulating and tracking the key result areas impacted by shaping a constructive culture gives insight and information that tells people in the organization what is working and what is not, what needs to pivot or realign, and what needs to stop. Without system wide accountability from the top to the bottom and every one in between, the organization won’t flourish. A core component of a constructive culture is achievement. When you measure what matters, people pay attention. Through accountability and transparency people get to see their impact, how the team is doing and how the culture improving is elevating the organizations’ operating effectiveness.

In Conclusion
The eight steps to transforming your corporate culture from the inside-out are not difficult to walk through. They are not revolutionary. These steps are simply a common sense approach to bringing out the best in people in the places they work.

ABOUT THE AUTHOR:
Magi Graziano is a speaker, author, and Chief Evangelist for KeenAlignment, a global people optimization consultancy firm and Inc. 5000 award recipient. Her book, The Wealth of Talent, was written from over 20 years of real-world, hands-on experience. Those who experience Magi’s programs, on average, reduced operating expense 8%, improve net profit 5.6% and increase revenues by as much as 200%. For more information, please visit: www.KeenAlignment.com.
Understanding the Weight of Words in the Workplace

3 Ways Words Work Wonders in Elevating Professional Performance
By: Jennifer Powers

You can create an awesome shift in your business or professional career right now. One of the easiest ways to do that is with your words. Yes. Words.

Your words have a direct influence over your results. All. The. Time.

Tell yourself you’ll never get the promotion. Done. Tell yourself you’re always a day late and a dollar short and you will be. Tell yourself you won’t close the sale. That’s right. Tell yourself you’ll bomb the interview. OK. No problem. Curious about how this works?

What you say will influence what you think. What you think will influence how you feel. How you feel will influence what you do. What you do will influence your results. …Every time.

You may already know this. Yet, it’s possible that you rarely give enough attention or credit to the effects that words can have on your every day. Think about it this way…

You are given a blank canvas everyday. Your words are your paint.

For example, if you say, “This is going to be a difficult day at the office.” then chances are, it will be. However, if you say, “This day will bring me lots of opportunities for growth.” then you’re one step closer to manifesting that reality. When you choose words that are in alignment with the experience, life, relationships, and business you want to create, you are standing in your power and taking greater control over your desired outcome.

Words give you power and control. Are you using them in ways that serve you or defeat you? Here are a few ways to help you use your words to get you more of what you want.

Eradicate and replace

Take stock. Examine the words you use to describe the status of your business? Or take a good look at the clients you are attracting into your practice (or not attracting) and consider how your words may have played a part in that reality. Because they did.

Next, commit to eradicating those non-productive words from your vocabulary and choose words that you will use in their place. For example, maybe you notice that you respond to the question “How’s business?” with words like “Slow” or “Not like it used to be”. Doing so will just create more of that reality for yourself. Consider replacing those responses with words like “Pretty good, thanks!” or “Getting better every day”. And watch what happens.

Remember, you have the ability to attract more of what you want by choosing your words with thought and intention.

Watch your tone

If you can think of the words that you choose as the cake, then the tone that they are delivered is the icing on said cake. In other words, tone can easily cover up or hide the true meaning of your words, if you’re not careful. When you want to use your words to positively affect your results you can’t discount your delivery.

Studies show that 7% of any spoken message is conveyed through words, 38% through certain vocal elements, and 55% through non-verbal elements (facial expressions, gestures, posture, etc).

Quite unlike email correspondence, telephone communications rely 18% on words and 82% on tone.

How often are you focusing on the tone of your spoken words and the effects it can have on the receiver?

Here’s a quick exercise to examine the dramatic differences. Try saying the following statements in three different tones: Enthusiastic, Neutral, and Angry

- “I don’t know.”
- “It’s no big deal.”
- “You’re unbelievable.”

You get it. Watch your tone.

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Share the love
As leaders and professionals, you know that the words you say to your colleagues, superiors, and direct reports can have a tremendous impact on them, affecting their outlook, job performance, creativity and efficacy.

Why not use that to your advantage AND theirs?

There are at least two dozen opportunities each day for you to offer others a word of praise, a compliment, a congratulations, or a thank you. It’s so easy, but I am willing to bet that you are not doing it as often as you could.

Taking time to share positive words with the people you work with will LITERALLY change them, change you, and change the dynamic of your relationship. This has immediate payoffs. Too many to list here.

Instead here’s a list of a few things you might say to someone else to share the love:

- Nice job!
- I appreciate you.
- You make a difference here.
- I believe in you.
- Thanks for your hard work.

If this feels awkward at first, that’s natural. But if you can step out of your comfort zone and make the effort, the results will blow you away. Best part? Words are free, accessible and so abundant. Use them to help others be their best and build relationships that grow.

In summary, using your words to positively affect your life and others’ lives is a choice. Now that you know how, I challenge you to give it a try and reap the benefits. You so deserve that.

ABOUT THE AUTHOR:
Jennifer Powers, MCC is an international speaker, executive coach, author of the best-selling book “Oh, shift!” and host of the fun and binge-worthy “Oh, shift!” podcast. Since founding her speaking practice, Jennifer has worked with hundreds of professionals and delivered powerful keynote addresses to over 250,000 people around the globe. For more information on bringing Jennifer Powers to your next event, please visit www.ohshift.com.
Take the Next Step in your GIS Journey

As president, I get to sit in on a number of committees to offer support and to see how things are progressing. I sat in on the recent meeting of the Marketing Committee and was excited to see some good work coming from that group. One person was tasked with creating a “two pager” about why someone should join URISA. It is a concise, fact filled document that will be used to spin off several marketing products and will be a great foundational document for the committee’s future work. Then, another member was tasked with creating a 30 second elevator pitch and he proceeded to read off a really well thought out piece. As he recited it, a string of words really caught my attention: “take the next step in your GIS journey”. It just sums up my whole career in GIS and with URISA. There has always been a next step, and my URISA community has always been there beside me.

As GIS has evolved and grown, so has URISA. The topics we cover in conferences and in articles have changed right along with that evolution. Now, I see the eagerness of our young professionals mixing with the wisdom of our experienced senior members and the synergy is really exciting. And we aren’t just following the industry, we are leading it. A great example were two events that URISA took a stand on that will have a positive impact on GIS down the road. In the first, URISA was asked to review, and then endorse, a proposed Address Standard Template for Puerto Rico. This is a very important effort that will help the territory respond more effectively to future natural disasters. URISA has been closely involved in addressing for many years and so it reflected on our standing in the field that the Federal Government would seek our endorsement. After our addressing leaders reviewed the template, we found that it was lacking and so withheld our endorsement and explained our reservations. We did not blindly endorse this proposal, but examined it objectively and submitted a constructive critique.

It demonstrated to me that when an agency comes to URISA for its opinion, they know our response will be knowledgeable and professional.

The second incident involved a piece of Federal legislation called the Digital Coast Act. We had been following this bill for quite a while and had discussed it at length in the Policy Advisory Committee and with the other members of the Coalition of Geospatial Organizations (COGO). There was a strong desire for us to endorse this legislation since overall, it should have an important impact on GIS data collection and use for coastal management. But the PAC kept coming back to the language in one section dealing with procurement. Initially, the words concerned us, but since they were prefaced with “may” many thought that the section was not a problem. But after much debate, the PAC came to the position that those words could be used to restrict the definition of GIS practice and therefore could create problems for GIS professionals engaged in coastal mapping and analysis and possibly beyond even that scope. So, we came out in opposition to the bill as written, specifically citing the language of that section. Many might question why this would even matter to the majority of us, but it is important because it is part of the ongoing effort to protect this profession. As a result of our insistence on changing this language, other participants in COGO have agreed to consider a revision that would make this bill fully acceptable to URISA and that, in turn, will make it possible for the legislation to receive a unanimous endorsement from COGO. By standing our ground, we have served to insure the standing of GIS as a profession into the near and distant future.

So, GIS, as a technology, as a profession, as a career, marches onward. And URISA is right there, with conferences, the leadership academies, workshops, webinars, advocacy and one of the best communities of professionals you will find. So keep moving forward in your career, URISA is right there as you take that next step.

Grab your spot at the URISA GIS Leadership Academy in Phoenix soon. It’s filling up!
Thank you to all of the members who took the time to vote in this year’s Board of Directors’ Election! It is very much appreciated.

URISA is pleased to announce the results of its 2019 URISA Board of Directors’ election. Kevin Mickey will serve in the position of President-Elect and Tom Fisher, Susan Kamei, and John Nolte will serve as Directors. They will all begin their three-year terms at the conclusion of GIS-Pro 2019 in New Orleans.

Kevin Mickey, GISP, Director Professional Development and Geospatial Technologies Education, The Polis Center-IUPUI, Indianapolis, Indiana

“I am deeply honored to have the opportunity to serve URISA’s membership as President-Elect.

URISA has had a long and successful history as a leader in the GIS community. Through its work GIS professionals have found the guidance and support to further their own careers as well as to help others achieve success. URISA has also served as an important voice in guiding many decisions that have impacted how GIS is practiced.

As our profession continues to evolve, URISA must continue to serve its members as well as the broader GIS community in these ways and more. We are fortunate to have a dedicated and skilled group of leaders and volunteers who are committed to ensuring that URISA fulfills its potential. I look forward to working with this team as we guide URISA into a bright and productive future.”

Newly-Elected mURISA Board of Directors:

Thomas Fisher, AICP, GISP, GIS Applications Administrator, Cuyahoga County, Cleveland, Ohio

Susan Kamei, Managing Director, USC Spatial Sciences Institute, Los Angeles, California

John Nolte, GISP, GIS Manager, Denver Water, Denver, Colorado

Keri Brennan was elected by the membership as President-Elect last year and will begin her term as President of URISA at the conclusion of GIS-Pro 2019.

Kim McDonough will begin his term as Immediate Past President after a great (and busy) year as President.

At the close of GIS-Pro 2019 in New Orleans, the terms of service for these URISA Board members will conclude and we thank them all, in advance, for their amazing dedication and service to URISA:

Immediate Past-President: Teresa Townsend, AICP Planning Communities Raleigh, North Carolina

James Armstrong, AICP, GISP Spatial Relationships, LLC Boston, Massachusetts

Brent Jones, PLS Esri Vienna, Virginia

Robert Kirkman, GISP Metro Portland, Oregon
PROVIDE
Mapping for recovery, rescue operations and development in underprivileged countries; analysis, cartography, app development, needs assessments, and technical workshops

RESPOND
Coordinating and mobilizing volunteer services to provide humanitarian, recovery and disaster relief assistance; hurricanes, earthquakes, tsunamis, volcanoes, cyclones

CARE
Over 1500 volunteers, completing over 200 missions in 66 countries, contributing over 60,000 hours

FUND
Travel costs for volunteers
Recruitment of volunteers
Technology, communication and outreach
Emergency assistance fund

Your charitable donations today can help us continue our mission to assist impoverished communities and provide global disaster relief. GISCorps, a 501c3 Charitable Organization, is funded by donations and volunteers. Donate online www.giscorps.org
The conference will start with workshops (one full or half-day course included with full registration).

**Half-day Workshops:**
- Achieving High Accuracy in GIS Mapping with Easy to Use Highly Efficient Mobile Tools
- GeoSpatial Data Science: A Notebooking Approach for Interactive Spatial Data Analysis
- GIS and Business Value – A Way Forward
- Modernizing Land Administration Systems
- Caribbean GIS Mapathon
- Global Census Solutions

**Full-day Workshop:** Processing of LiDAR and Photogrammetry Point Clouds

We are honored to announce that Dr. June Soomer, Secretary General of the Association of Caribbean States (ACS) and Allen Carroll, Founder of Story Maps, are the featured keynote speakers.

**Check out the detailed program with sessions covering important topics such as:**
- Disaster Management and Resilience
- Utilizing Geospatial Tools in Local Area Planning and Citizen Science
- Land Information for Smarter Cities
- Business Efficiency Improvements through Geospatial Information Solutions
- Data for Disaster Response
- GIS for Resilience and Sustainable Development

The Exhibition is always a busy spot during the conference with an abundance of solutions providers, agencies and academic institutions discussing their programs.

**Background:** The URISA Caribbean GIS Conference developed out of discussions that took place during the 1999 Esri International User Conference in San Diego, California between URISA staff and members in the Caribbean. An unmet educational need was identified, a business case was made, and the first conference took place September 9-12, 2001 in Montego Bay, Jamaica. Since then, the conference has successfully taken place eight times and has come to be known as the premier geospatial event in the region. Join us in Trinidad and Tobago for the Ninth URISA Caribbean GIS Conference!
Switching to ArcGIS Pro from ArcMap
by Maribeth H. Price
Esri Press, 2018
Paperback: 162 pages
ISBN: 9781589485440

Adding to the list of Esri Press books already published on ArcGIS Pro, Switching to ArcGIS Pro from ArcMap fits nicely in a series of publications aimed to assist experienced end-users in migrating to ArcGIS Pro. At 162 pages, this text is organized as half tutorial, half introductory text and covers the concepts, best practices, navigation techniques, and suggestions for how to switch to Esri's new desktop and ArcGIS Online hybrid GIS application.

This book was written by a professor of geology and dean of graduate education for South Dakota School of Mines and Technology. The author has been using Esri products since 1991 when Esri desktop GIS was called ArcInfo. Having gone through not only the transition between ArcInfo and ArcMap, but now another move from ArcMap and ArcGIS Pro. The author's input and experience make this text all the more verifiable.

The first chapter, titled Contemplating the Switch to ArcGIS Pro, is probably the most pivotal chapter in the book. This chapter will help readers understand when to make the switch, the functions that have been added or removed, terminology changes, and layout and workflow changes. The second chapter builds off the first as a lead-in to the many similarities and differences between ArcMap and ArcGIS Pro that users may struggle with. For instance, ArcGIS Pro is designed with a GUI ribbon style layout that is reminiscent of new versions of Microsoft Office products.

The largest hurdle for users who are switching is described in Chapters 3 and 9, with the introduction of the ArcGIS Pro project document. Projects will be the working document type for work done in ArcGIS Pro instead of MXDs. Everything that is setup by the user will be tied to a specific project including folder connections, toolboxes and geodatabases, and layouts. One of the biggest enhancements of ArcGIS Pro is the allowance of multiple layouts in each project; an improvement over the one layout at a time limitation in ArcMap (also covered by Chapter 8). Chapter 9 provides more details on how users can turn ArcMap MXD documents into project documents, and how best practices can be applied to managing data through geodatabases and making edits to data.

Chapter 4 covers how users will navigate ArcGIS Pro with best practices for using the mouse to pan and zoom maps and scenes. Users now can show 2D maps and 3D scenes at the same time in a linked view allowing for concurrent feature identification and panning.

Changes to symbology is described in Chapter 5. Readers will be reminded of the concept of contextual changes by seeing that when layers are clicked on, the symbology can be changed without having to go through several clicks for each layer. The same holds true with feature labeling. Once a layer is selected, then a label tab is activated giving easier access to these controls.

ArcMap users who conduct analyses will be interested to learn about changes to geoprocessing in Chapter 6. The fundamentals of geoprocessing will be the same between the two applications, but the look and feel will be different. Basic tools like selecting have been replaced by tools, so that all that a user would need can be searched for or as a button on the ribbon. A useful enhancement to geoprocessing that’s described in this chapter is that once a tool is run, its parameters are saved and can be run again. Also praised by the author is the elimination of the default geodatabase structure in ArcMap. With the creation of a new ArcGIS Pro project document, all output files are saved to the project geodatabase in a known location.

Chapters 7 and 10 cover the changes and enhancements to attribute tables and how edits are conducted in ArcGIS Pro. Functions that used to be done from within tables are not accessed from geoprocessing tools. It is worth mentioning the editing capabilities that ArcGIS Pro comes with for tables. All layers and tables in a project document are always editable by default, thus saving users multiple clicks each time changes need to be made. Furthermore, field names can be changed in the table without having to run a separate tool or creating new fields.

Switching to ArcGIS Pro from ArcMap is for users who don’t want to feel they have to completely learn a brand-new GIS application. This book is a proper lead-in to ArcGIS Pro without making you feel overwhelmed. The major caveat here is that the text is only a guide and it’s up to the user to put the effort in to go beyond what’s covered to make the switch from ArcMap a little more palatable. Chapter 10 will help readers with this by supplying tips for what resources to review next. Though ArcMap will be around for the foreseeable future, the future of Esri’s desktop GIS is trending more and more towards ArcGIS Pro so the time to take the plunge is now with guides like Switching to ArcGIS Pro from ArcMap.

Review by Dave Grolling, MPSGIS
dgrolling@gmail.com
FGDC Seeks Nominations for National Geospatial Advisory Committee

The Department of the Interior and the Federal Geographic Data Committee (FGDC) are seeking nominations for appointment to the National Geospatial Advisory Committee (NGAC). The NGAC provides advice and recommendations to the Secretary of the Interior through the Federal Geographic Data Committee (FGDC) related to management of Federal geospatial programs, development of the National Spatial Data Infrastructure, and the implementation of the Geospatial Data Act of 2018. The NGAC reviews and comments on geospatial policy and management issues and provides a forum for views of non-Federal stakeholders in the geospatial community. The NGAC conducts its operations in accordance with the provisions of the Federal Advisory Committee Act (FACA) and functions solely as an advisory body.

Nominations for appointment to the NGAC should be submitted electronically to ngacnominations@fgdc.gov by August 27, 2019. Nominations may come from employers, associations, professional organizations, or other geospatial organizations. Nominations should include a resume providing an adequate description of the nominee’s qualifications, including information that would enable the Department of the Interior (DOI) to make an informed decision regarding meeting the membership requirements of the Committee and permit DOI to contact a potential member. Nominees are strongly encouraged to include supporting letters from employers, associations, professional organizations, and/or other organizations that indicate the support by a meaningful constituency for the nominee. Additional information may be requested from nominees.

The NGAC includes up to 30 members, selected to generally achieve a balanced representation of the viewpoints of the various stakeholders involved in national geospatial activities. NGAC members are appointed for staggered terms, and nominations received through this call for nominations may be used to fill vacancies on the NGAC that will become available in 2019 and 2020. Members of the Committee serve without compensation. However, members will be reimbursed for per diem and travel expenses incurred while attending Committee meetings in accordance with the Federal travel regulations as implemented by the Department of the Interior. The Committee meets approximately 3-4 times per year.

Nominations will be reviewed by the FGDC and additional information may be requested from nominees. Final selection and appointment of NGAC members will be made by the Secretary of the Interior. Individuals who are Federally-registered lobbyists are ineligible to serve on all FACA and non-FACA boards, committees, or councils in an individual capacity. The term “individual capacity” refers to individuals who are appointed to exercise their own individual best judgment on behalf of the Government, such as when they are designated Special Government Employees, rather than being appointed to represent a particular interest.

The NGAC Charter includes additional information about the NGAC’s roles and responsibilities. For more information: https://www.fgdc.gov/ngac/2019ngacnominations

Call for Volunteers:

The Professional Education Committee is looking for a few volunteers to assist with the development of articles for The GIS Professional. We are in the process of virtually assembling a small group to assist in writing and/or procuring regular columns. We are open to new ideas for columns in addition to some we already have planned that are ready for someone to shepherd them. Those include Story Map of the Month, Member of the Month (just a short interview with members), and Committee activities. Your time commitment will be small, but your support will make a huge difference by helping UIRSA continue to provide a publication to its members that contains current, useful and interesting information about the GIS profession.

If being part of the fun and creative GIS Professional team is something that interests you, contact Judy Colby-George at jcg@spatialalternatives.com.
URISA is pleased to announce the upcoming release of the second edition of The GIS Management Handbook. This is a major revision of the 2009 book by author Peter Croswell. Planned for release in early September, the book has greatly expanded and updated content and comes with a valuable set of supplemental digital materials. It is a valuable resource and tool for practitioners in all types of organizations and is suitable for use in upper level college and university courses.

Read the overview of the 2nd edition and learn more during GIS-Pro 2019 in New Orleans where Pete is teaching the GIS Program Management full-day workshop.

We need to make room! TAKE ADVANTAGE OF THE CLEARANCE PRICE (more than 75% off) BEFORE THE NEW EDITION IS RELEASED IN SEPTEMBER!

SAVE on THE GIS MANAGEMENT HANDBOOK (First edition, published 2009)

Author: Peter L. Croswell, PMP, GISP, ASPRS-MS
Published by Kessey Dewitt Publications in association with URISA in 2009
The book is comprehensive guide and reference to the field of GIS management. It provides practical information on the development, implementation, and operation of GIS programs and projects and is valuable resource for seasoned and new GIS managers and aspiring managers. IT managers with a requirement to understand more about GIS programs in their organizations will benefit from this book as will providers of technical and management services needing to learn more about the GIS programs they serve. The book is also a useful reference for academicians and students studying or researching GIS management issues.

This book takes a practical approach providing clear descriptions of concepts, issues, and practices that may be used in operational settings, in public and private sector organizations to improve and maximize the efficiency of GIS programs and projects. The book will cover all pertinent topics including: a) organizational structures, b) program governance, c) strategic and implementation planning, d) project planning and management, e) financial management, f) human resources and team building, g) legal concerns, policies and standards, h) technical management and administration, j) GIS office operations. Many real-world examples are provided and appendices provide detailed examples of management tools and documents that can be used by GIS managers. A full section on “additional resources” provides an excellent guide to GIS and IT organizations, web sites, publications, and well-organized set of suggested readings.

I have written this book to serve as a guide and resource for GIS managers and staff. My intention is to provide GIS professionals and researchers with a tool to make them more effective, to support organizational improvements, and to deliver increased benefits to GIS user communities.

- Peter Croswell
Start reviewing the comprehensive workshop and training opportunities, featured speakers, professional development and networking events, and the abundance of concurrent breakout sessions in these focused program tracks:

- GIS Leadership & Management
- Community Resiliency and Sustainability
- Social Justice and Equity Implications of GIS
- GIS Supporting Health and Human Services
- Data Management and Analysis
- Geospatial Technology Innovations
- Inspiring the Future of GIS and Education

Take advantage of additional focused education and attend a workshop (one workshop is included with full registration). Select from these important opportunities:

1. Emergency Preparedness for GIS - limited availability
2. Introduction to GIS for Equity and Social Justice
3. GIS Program Management - limited availability
4. GIS Strategic Planning
5. Managing Addressing For the 21st Century
6. Small Unmanned Systems (sUAS) for Mapping
7. Preparing for GISP Certification
8. Building Community Using Geospatial Tools
9. NG9-1-1 and the GIS Workflow

Continuing Education: URISA is an AICP-approved Certification Maintenance (CM) provider and GIS-Pro 2019 was approved for a total of 73.0 CM credits! For the breakdown, click here or download the PDF summary. This event also earns ample Education points toward GISP initial certification and renewal. Individuals who are pursuing GIS professional certification, are encouraged to attend this full-day workshop in New Orleans for a valuable overview: Preparing for GISP Certification.
Welcome New URISA Members

Delaney Almond — GeoAdaptive — Boston, MA
Lisa Amarillas — Kern County — Bakersfield, CA
Stephen Beimborn — City of Seattle — Seattle, WA
Rajas Bhalaria — Auburn University — Auburn, AL
Harrison Bloom, GISP — Strouganth Environmental — Baltimore, MD
Byron Bluehorse — Fairbanks, AK
Ryan Blum — Works Consulting LLC — Gilbert, AZ
Jennifer Brann — University of Southern California — Los Angeles, CA
Taston Brookshire — Els Environmental — Hammond, LA
Tyson Burger — Digital Map Products — Costa Mesa, CA
Ryan Cameron — University of Southern California — Los Angeles, CA
Jared Carvalho — Santa Barbara County Association of Governments — Santa Barbara, CA
Christina Chefl — GeoEngineers — Tacoma, WA
Adison Chiang — Southern Alberta Institute of Technology — Victoria, TX
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Stewart Henderson — City of Atlanta — Atlanta, GA
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Heather Kelley, GISP — SSP Innovations — Oceanside, CA
Krysten Laine — SPUC - Natural Resources — San Francisco, CA
Forrest Lamb — Marine Forces Reserve — Gretna, LA
Rachel Layko — Apex, NC
Andrew Leung — University of Southern California — Los Angeles, CA
Mita Mathur, GISP — Loudoun County — Leesburg, VA
Mike McGuire — Ascent GIS, Inc — Spokane, WA
Jesse McQuigg — Els Environmental — Hammond, LA
Catrina Meyer — Fehr & Peers — Los Angeles, CA
Jonathan Miller — Delaware County Regional Planning Commission — Columbus, OH
Steven Moore — Ada County Assessor — Boise, ID
Jessica Moran — Ada County Assessor — Boise, ID
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Adam Parker Skeete — St Tammany Parish Government — Mandeville, LA
Lane Penn — 120 West Ventures — Truckee, CA
Katie Pickett — University of Central Arkansas — New Orleans, LA
Jennifer Pilapil — Global Urban Strategies Inc — Cerritos, CA
Richard Poche, GISP — GCR, Inc — Metairie, LA
Safa Ridene — Kelibia Nabeul, Tunisia
Celine Seefluth — TeachMeGIS — Houston, TX
Garth Sullivan — Richland Parish Communications District — Rayville, LA
Alexa Todd — Metro — Portland, OR
Quinn Tracy — City & Borough of Juneau — Juneau, AK
Joshua Viers — University of California, Merced — Merced, CA
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University of California, Merced — Merced, CA
- Joshua Viers, Ph.D
Welcome New Partners

GeoJango Maps
https://geojango.com/
Our goal is to inspire people to learn more about our world with maps.
Why Maps? We think of them as a window to the world. They provide the context for understanding cultural, environmental, and physical patterns and relationships in the world. We like how maps provide spatial context and serves as a visual tool for learning. Scale the maps down further and you can learn more about nature, geology, and culture. We think that is why people like to travel, as it provides the opportunity to learn and experience the essence of Earth!

TeachMeGIS
Contact: Jennifer Harrison, President, TeachMeGIS
http://www.TeachMeGIS.com
713-278-7883
As an Esri® business partner, the TeachMeGIS team has been teaching GIS around the world for over 15 years. We have a training center in Houston, Texas and we also provide on-site, instructor led courses.

Some of the applications that we teach include ArcGIS Pro®, ArcMap®, FME®, GISP Test Prep, ArcGIS Online®, Portal for ArcGIS, Python, Spatial Analyst®, Collector® and Survey 123® for ArcGIS.

We have special courses for certain industries, such as oil and gas, 911 (Addressing), transportation, public health, environmental, and global security. We can customize our courses for your industry by request.

Call us. Our trainers don’t just show up to deliver a class. We show up to teach.

TomTom
TomTom website:
https://www.tomtom.com/en_us/
Contact: Robert Hoyler, Senior Partner Development Manager, Sourcing Operations: Robert.Hoyler@tomtom.com

TomTom is the leading independent location technology specialist. TomTom licenses maps, navigation software, and online services as components for applications, offering tailor-made solutions to meet customers’ specific needs. TomTom Regional Sourcing Operations is comprised of geographically distributed regional experts embedded into local networks of geospatial enterprises and government. The TomTom Regional Sourcing Operations team members are skilled in data acquisition and analysis and focused on delivering the freshest real world scalable sources.

New Educational Institution Partners
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Michael Baker International
Since 1940, Michael Baker International has built its global legacy – and full continuum of solutions – on a diverse culture of innovation.

Solving our clients’ most complex challenges often requires new ideas, new processes, new technologies – new solutions where none existed previously. Our success always has drawn on the collaborative creativity of our dedicated employees, who leverage our diverse backgrounds, expertise, experience and can-do attitudes to make the communities we serve safer, more accessible, more environmentally sustainable, and more livable.

The result: a growing portfolio of exclusive innovations at Michael Baker that add significant dimension and value to our ability to deliver our full continuum of solutions. Michael Baker innovations – and the innovators behind them – serve as game-changing differentiators the industry and demonstrate once again how We Make a Difference for our clients and the communities we serve.

• A suite of products and services to support the NG9-1-1 call-routing environment
  Michael Baker International’s DataMark suite of software solutions and services support public safety answering points (PSAPs) and their GIS stakeholders in this mission critical transition. DataMark solves upgrade challenges, helps improve public-safety communications and ensures the data meets the precise NG9-1-1 requirements. The software considers all aspects of the data that is provisioned to a NG9-1-1 system (data creation, clean up, quality and maintenance workflows). With extensive expertise in GIS and public safety, Michael Baker can help GIS departments determine what they need to do in order to support NG9-1-1.

• GIS-based mobile app for managing infrastructure assets
  Michael Baker International engineers created a mobile phone-based computer software platform, MICAP (Mobile Infraction Capture) to collect and analyze data and images over broad geographic areas to help monitor utility equipment for changes and compliance problems. The GIS-based MICAP platform provides access to licensed data, as well as the collection and analysis of new data and images, delivering an improved workflow interface for managing assessments, repairs, and geographic changes to infrastructure assets. It is designed for state agencies, municipalities, utility companies, land developers and other engineering firms that need to effectively monitor and manage utility poles, underground cables, utility pipelines, bridges, runway infrastructure and other assets. MICAP is free and available via the App Store and Google Play.

• Local watershed assessment at the push of a button
  iWATR (Integrated Watershed Assessment Tool for Restoration) is a mobile app-based innovation developed by Michael Baker International’s water services team to add speed, capability – and value – to provide an easy-to-use assessment tool for any city, county or state planner across the U.S. to develop or better manage local land. The app combines GPS features and data from the U.S. Environmental Protection Agency and other government sources, to compile local data at the push of a few buttons. It tabulates a comprehensive assessment, and provides several solution options with cost estimates to solve specific water quality-impairment problems in watershed areas.

• Analyzing bridge data with ease
  iUSBridges, is a geographic information system (GIS)-based app that allows users to locate nearby bridges, explore details of those bridges, save information on favorite bridges, and share feedback. iUSBridges uses data retrieved from the Federal Highway Administration’s (FHWA) National Bridge Inventory. State departments of transportation provide updated bridge information on a cyclical basis to the FHWA.

For more information, click here.

For information about URISA Partnership, please visit: http://www.urisa.org/main/join-urisa-as-a-corporate-or-business-partner/ or contact Wendy Nelson at URISA Headquarters.
Since 1996, Cityworks | Azteca Systems, LLC has created and designed public asset management software for cities, counties, utilities, and authorities (i.e. local government). Cityworks pioneered the web GIS-centric paradigm and approach for public asset management to help organizations improve service and maintain the public infrastructure. Cityworks is a major software system used by organizations throughout North America and Internationally for managing utilities, public works, parks, planning and development, and airports. Daily, Cityworks is used by over 40,000 public sector employees to service and maintain the vital public assets for communities with a combined population of more than 80 million people.

For more information please go to cityworks.com

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Cyclomedia is the market leader in systematic imaging of large-scale environments from cities to complete countries. Cyclomedia’s smart imagery solution creates Cycloramas – 360-degree panoramic photos – with high accuracy, providing current and clear views of street-level environments.

The Cyclomedia recording system is like no other. It uses patented technology to determine the exact position and orientation of every picture taken. By creating a dense network of geometric street images, Cycloramas are always focused on the correct address or feature from multiple vantage points.

Our solution revolutionizes the way asset and property assessment is managed and reported. It reduces field visits and provides accurate feature measurements with convenient spot-checking. It simplifies maintenance and enables automated inventory and controlled processes. It also saves valuable resources while simplifying the decision-making process, improving operations and increasing efficiency.

We provide ready-made solutions throughout Europe, North America, and Asia. Our technology is widely used in government GIS, public safety, and security markets, as well as in construction, infrastructure management, and insurance.

We provide a full range of services related to 3D mobile mapping. Data is captured and delivered worldwide.

Our primary market segments include:
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• Transportation and Infrastructure Management
• Public Safety and Homeland Security
• Engineering and Construction Planning

Cyclomedia offers the following licensed products:

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- **Hosting Solutions**
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- **Developer Tools**
  - GlobeSpotter API – Integrate GlobeSpotter components into your user’s existing business workflow.
  - Panoramic Rendering Service – Extract pictures for reports and texture map buildings with Cycloramas

- **Data Transfer Solutions**
  3680 Avalon Park Blvd East, Suite 200, Orlando, FL 32828
  Phone: (407) 382-5222
  aibaugh@dtsgis.com

Headquartered in Orlando, DTS is a leader in asset management, geographic information systems, and transportation planning. We specialize in creating solutions to help clients automate their worlds, reduce their workload and organize their data through customized technology.

DTS is comprised of seven divisions, each with its own scope of services. Often however, a single project spans several divisions before completion because we uniquely offer all the necessary cutting-edge services, integrated within one company.

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Our clients leverage our expertise and rely on our long history of proven performance to develop geo-related solutions, including Geographic Information Services, GPS survey and map grade data collection, geo-enabled photogrammetry, aerial imagery analysis and processing, and cloud mapping.

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2019 Partner Directory

**Evari GIS Consulting**
Evari GIS Consulting, Inc. (Evari) was founded in 2009 with the mission of providing high quality, custom GIS solutions for municipal projects. Evari has a wide array of project experience supporting municipalities, utilities, and energy service companies, providing As-Needed GIS support for Transportation, Civil Engineering, Storm Water, Undergrounding Master Planning, Street Lighting and Planning projects. Evari is driven to innovate, employing GIS to streamline data management, empower field crews with mobile GIS technology, and facilitate Smart City, IoT solutions. With a focus on producing clear, accurate and valuable data, maps and figures, Evari’s provides its clients with effective decision-making and project communication tools. Evari leverages the Esri Technology Stack (ArcGIS) and the Amazon Web Services Cloud Computing platform for a broad range of municipal GIS applications.

**New Light Technologies**
New Light Technologies Inc. (NLT), a small business based in Washington DC, provides comprehensive information technology solutions for clients in government, commercial, and non-profit sectors. NLT specializes in DevOps enterprise-scale systems integration, development, management, and staffing and offers a unique range of capabilities from Infrastructure Modernization and Cloud Computing to Big Data Analytics, Geospatial Information Systems, and the Development of Software and Web-based Visualization Platforms.

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- Take advantage of best in class capabilities
- Leverage existing technology investments
- Be more integrated, scalable, secure, adaptable, and sustainable
- Reduce cost and risk
- Meet & exceed mission requirements

Learn more about NLT today: https://newlighttechnologies.com/

**GeoDecisions**
GeoDecisions is an international consulting firm specializing in geospatial information systems, cloud technology, and analytics for commercial, municipal, state, and federal government organizations. We offer a suite of Software as a Service and custom-designed solutions that equip decision makers with the data, intelligence, and visual information critical to planning, logistics, public safety and emergency response, security, asset management, incident management, resource management, and mass notification. We improve existing infrastructure and implement new systems that integrate vast collections of location-based data assets to help clients streamline processes, boost productivity, and push the boundaries of data-based insights. We are ISO 9001:2015 Certified, which assures clients that we meet the most rigorous and independently audited quality standards.


**Pond & Company**
Pond, an Atlanta-based company founded in 1965, is a progressive, full-service architecture, engineering and planning consulting firm, and was recently named Engineering News Record’s (ENR’s) Southeast Design Firm of the Year. With over 550 employees, Pond provides technology-driven full-service engineering, architecture, planning, construction and geospatial design solutions to defense, government, corporate and private sector clients worldwide. With 25 locations throughout the world, Pond is one of the fastest growing A/E/P and Geospatial firms in the country.

Pond provides comprehensive GIS solutions to a variety of clients throughout the continental US and overseas including Department of Defense, Federal, State, Energy and other private sector clients. Our hub for Geospatial services is located in New Orleans, with support offices in Huntsville, AL, Colorado Springs, CO, and San Diego, CA.

For more information please visit us at www.ponco.com

**Amigo Partners**

**AmigoCloud**
Based in San Francisco with an additional location in Lima, Peru, AmigoCloud was founded by a team of GIS experts in 2013 to empower companies and individuals to collect, manage, visualize, and analyze location data to better understand their business and reveal hidden patterns to reduce costs and increase operational efficiency.

AmigoCloud has developed the first Collaborative Mapping Platform, offering two products, amigoCollect and amigoPlatform. amigoCollect is a mobile application, built for Android and iOS devices, that helps your field crew collect data, whether online or offline, and collaborate with as many people as your team needs.

With a streamlined and quick workflow, you can collect, store, transform, enrich, visualize, and analyze data as well as easily create, embed, and publish meaningful maps. We reduce, and in some cases completely eliminate, mapping workflows that would normally take several days or weeks. Our software is designed to require no GIS training or any other kind of specialized hardware.

amigoPlatform enables companies to build a custom mapping solution, analyze big location data and real-time data, even a petabyte scale, and add location intelligence to your own software.

A powerful enterprise-ready platform to manage from remote sensing data and satellite imagery to Internet of Things data coming from sensors.

**Connected Nation**
Connected Nation is a national leader in broadband expansion programs. Our mission is to improve lives by providing innovative solutions that expand the access, adoption, and use of high-speed internet and its related

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**RFP Distribution**
URISA members, remember that URISA will distribute your RFP/RFQ announcements to our corporate and business members at no charge. Simply email your announcement to info@urisa.org (Subject: RFP Service) and we'll send it right out for you!
technologies to all people. Everyone belongs in a Connected Nation.

Since its start in 2001, Connected Nation has been offering programs and initiatives across the United States to help bridge the Digital Divide. From state-based technology planning and mapping programs to national educational technology initiatives, Connected Nation has partners in all sectors including libraries, schools, state and local governments, large technology companies, and small businesses.

Connected Nation offers the following core competencies:

- Mapping & Analysis: We provide more accurate and granular mapping of broadband service areas to empower local, state, and federal leaders to make better analytics-driven decisions that positively impact people.
- Community Solutions: We measure and evaluate the state of technology and broadband access, adoption, and use in towns, cities, counties, and regions to develop community-specific Technology Action Plans.
- Digital Training & Jobs: We provide digital training and job placement assistance for veterans, single parents, senior citizens, and others in rural and urban areas. Our approach focuses on the demand for a nontraditional, remote workforce.
- Transforming Education: We believe all children should have adequate access to the latest technology in schools. Our work includes school technology assessments, E-rate program assistance, and more.

**Environmental Science Services, Inc. (Es²)**

Es² is a registered engineering firm in Louisiana, Mississippi, Florida, and Texas that provides a wide range of environmental consulting, engineering, and science support services for both government and private sector entities. Established in 1996, the foundation of Es² has always focused on the leading-edge technologies in GIS, Global Positioning System (GPS), photogrammetry, and remote sensing to support its environmental and engineering projects. Es² offers an industry-leading array of GIS services. Our diverse background, experienced and professional teams, combined with the most current Enterprise GIS technology allow Es² to provide customized, web-based, enterprise-wide solutions using the Esri platform.

Additionally, Es² also offers:
- Enterprise GIS Consulting Services, Including Installation, Setup, and Configuration of ArcGIS Enterprise and SQL Server
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- CAD / GIS Data Conversion and Import
- Survey-Grade Field Data Collection Utilizing RTK GPS and Robotic Total Station Systems
- Mapping and Data Analysis
- UAS Aerial Photography Acquisition and Digital Photogrammetry
- Esri Silver Partner with the following specialty designations:
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  - Federal Small Business
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MGP is an information systems services company that specializes in geo-spatial solutions. Our comprehensive range of geographic, data modeling, and business process solutions provide you new opportunities to find a better way. We believe that innovation creates opportunity and collaboration breeds success. MGP was formed as a shared business model in which clients are partners. This philosophy enables significant cost savings and makes it possible for any client, regardless of size, to get where they need to go. MGP is the managing partner of the GIS Consortium.

**Planning Communities, LLC**

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townsend@planningcommunities.com

Planning Communities, LLC provides a wide range of multi-disciplinary planning services for local, state and federal agencies, tribal nations and community organizations. Community, transportation, environmental and GIS services include local/regional planning, visioning/ scenario planning, land use, socioeconomic, market and cost-benefit analysis, community asset mapping, tool/ application support and development, process improvement/integration, consensus-building and facilitation.

Headquartered in Raleigh, North Carolina, Planning Communities has additional offices in Charlotte (NC) and Seattle (WA). Planning Communities is a North Carolina certified Small Professional Service Firm (SPSF) and is certified as a DBE in North Carolina, Tennessee, Florida and Delaware.

**Solv3D, Inc.**

Solv3D creates tools that enable people to effectively use large 3D point clouds and immersive imagery within their existing workflows. Using the 3DPointLogic™ toolkit, individuals can easily turn massive point clouds into manageable data sets. With the SiteVisit360™ collaborative platform, companies can merge 3D point cloud data, panoramic imagery and other photography, resulting in a virtual project environment, allowing them to more effectively leverage the value of their datasets for estimation, planning, design, and decision-making.

**Spatial Relationships, LLC**

800 Boylston St #590756
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(857) 400-8920
Contact: Kathryn Brewer
James Armstrong

Spatial Relationships, LLC is a consulting firm that provides on-demand teams of expert Geospatial Professionals to ensure organizations have the capability to deliver on existing and future goals, manage business risk, and increase profitability.

Think of us as your geospatial concierge. Our “concierge services” provide resources and solutions for planned or abrupt disruptions as well as future projects. These can include:
- Being a key person down – planned leave or unexpected departure
Spatial Relationships, LLC was born out of the necessity to create new flexible and affordable ways to work that support organizations to manage ever-increasing demands as well as the need to support the community of Geospatial Professionals.

**COMPANY MISSION:** We partner with our clients to deliver government financial solutions, which generate fair and equitable assessments, on-time tax bills, and collections/distribution of funds through the effective and efficient use of CAMA and Tax software.

**Educational Institution Members**

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Brandman University is a private, non-profit regionally accredited institution that provides educational opportunities for working adults. There are over 25 campuses throughout California and Washington, and a virtual campus online.

Undergraduate Certificate, GIS Use in Non-Profit Organizations - An innovative, problem-solving approach to learning and using GIS.

**Lakeland Community College — Kirtland, OH**
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August 19-23, 2019
URISA GIS Leadership Academy
Toronto, Ontario Canada

September 28-October 2, 2019
GIS-Pro 2019: URISA’s 57th Annual Conference for GIS Professionals
New Orleans, Louisiana

October 21-25, 2019
URISA GIS Leadership Academy
Phoenix, Arizona

November 18-21, 2019
URISA 2019 Caribbean GIS Conference
Port of Spain, Trinidad

March 23-26, 2020
GIS/Valuation Technologies Conference (formerly GIS/CAMA)
Louisville, Kentucky

September 27-October 1, 2020
GIS-Pro 2020
Baltimore, Maryland

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