Crossing Invisible Lines: City/County Partnerships

By: Anne Payne, Wake County, NC, Colleen Sharpe, City of Raleigh, NC, Mike Mull, Town of Cary, NC

The jurisdictional lines that separate Counties and Cities throughout the United States often evolve into an invisible barrier between the different governmental units. However, citizens of Wake County, North Carolina are witnessing an impressive level of cooperation that provides significant opportunities. Wake County and its municipalities have risen above interjurisdictional politics and continue to cross the lines beyond which many cannot see.

Wake County, the City of Raleigh, and the Town of Cary all work cooperatively to leverage the efforts of their GIS departments. The three entities have diverse responsibilities and objectives, but they work beyond their differences towards a common goal. They share expertise, advice, and data, on a handshake, with benefits to all.

The Start of the Relationship

The relationship between the GIS departments began in 1989 when Wake County invested in its first GIS system. The County contracted to develop County-wide digital property mapping data and made it available to all twelve of its municipalities. The City of Raleigh and Town of Cary both took advantage of this rich data source to serve as a basemap for meeting their individual mapping needs. The three entities worked together to select GIS software that would provide a sound foundation for their GIS systems. In subsequent years, the remaining municipalities within the County have also adopted the County Property data layer as their GIS basemap.

The Relationship Today

Working together means no duplication of data, no duplication of data maintenance, and a better product for all involved. Wake County and the City of Raleigh share the same network, both use ESRI software tools and access the others’ databases in real-time. As a matter of fact, they met together and made joint decisions regarding the software purchases and system designs. Both organizations use Oracle SDE databases to share their data with each other and the citizens via various applications.

On the other hand, the Town of Cary uses MapInfo, yet Town staff still work in cooperation with Wake County. Each month Cary spends a few hours converting the shape files to their system, but it is still much quicker and cheaper than re-collecting or updating the data on their own.

The Town of Cary, City of Raleigh and other jurisdictions use the property data maintained by the County as the basis for their individual GIS programs. Everyone works together to enhance the data and define the attributes, even though some users have implemented different software platforms and operate independent GIS systems.

Working Together

In 1999, Wake County, the City of Raleigh, and the Town of Cary worked in unison to choose Surdex Corporation to meet some combined outstanding data needs of the three entities. Wake County purchased countywide black and white and color digital orthophotography at scales of 1” = 100’ and 1” = 200’, respectfully. The County also contracted for hydrographic feature collection countywide, and for 2’ contours for all areas outside of the jurisdictions of the City of Raleigh and the Town of Cary. Raleigh and Cary then “piggybacked” on the project and contracted for 2’ contours and planimetric features for their jurisdictions. At the time, the Town of Cary had money allocated for digital orthophotography, topographic features and impervious feature delineation. However, Cary was able to use the County’s aerial photography for their additional mapping needs, thereby saving considerable money and time. The City of Raleigh was also able to use the County photograpy as the basis for their topographic update project and were able to take advantage of Cary’s research and database design for impervious surface features as a starting point, resulting in additional savings on their project. The end result

“Our shared interests have a greater influence on how we work together than simple jurisdiction lines that separate the municipalities. The reality is that those lines should be invisible in the field during a crisis. Working together gives us all better solutions for our communities while saving our taxpayers money.”

- Steve Nelson, The Town of Apex

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Important URISA Dates to Remember

Saturday, October 12, 2002
GIS Workshops—Los Angeles, CA
Cosponsored by URISA and IAAO
Introduction to GIS
Managing GIS Implementation

October 15, 2002
Integrating GIS & CAMA 2003
Abstract submission deadline

October 26-30, 2002
URISA’s 40th Annual Conference
Chicago Hyatt Regency
Chicago, Illinois

March 30-April 1, 2003
Integrating GIS & CAMA 2003
Hyatt Regency—Columbus, Ohio

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Article submissions, calendar items and industry news should be sent to the attention of Wendy Francis.

Coastal GeoTools 2003 Announced
Coastal GeoTools ‘03, a national conference showcasing coastal uses of geospatial tools and technologies, such as GIS, GPS, remote sensing, and the Internet, will be held January 6–9, 2003, in Charleston, South Carolina. Registration deadline is November 29. For conference details, see www.csc.noaa.gov/GeoTools/ or e-mail conference organizers at Geo.Tools@noaa.gov.

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The Urban and Regional Information Systems Association (URISA) is the premier professional association for those involved in improving our urban and regional environments through the effective use of information technology. Professionals in planning, economic development, information systems, emergency services, natural resources, public works, transportation, and other departments within state and local government have depended on URISA for professional development and educational needs since 1963. Through its international, national and local chapter operations, URISA serves nearly 8,000 professionals.
of these efforts is a County-wide topographic map with two-foot contours at a consistent scale, built on a consistent basemap, using a consistent database design, benefiting not just the three entities involved, but all other municipalities and the citizens.

There are numerous other examples of cooperative efforts. The City of Raleigh and Wake County have worked on several joint development projects including a casual user application employed by 250+ users in the two jurisdictions and an internet mapping application. In most instances the City and County shared in the cost of development by providing funding and/or resources. The City of Raleigh and Wake County have also cooperated by sharing application development resources. In a recent example, Raleigh developed an emergency response application that is used to cite road closures, power outages and other situations for use by an Emergency Operations Center during a storm event. The County took the system and enhanced it to meet their individual needs.

The Benefits of Working Together
Everyone has discovered the benefits of working together and even though each entity uses the data differently, they all find the relationship valuable. Wake County completes all of the parcel, street centerline and annexation updates, and then each month updates and distributes the data via shape files on an FTP site to all the municipalities except Raleigh. Raleigh has direct links to the Wake County databases and the data is used daily to support multiple processes. Since the County shares the data with the other municipalities, they quickly get feedback if mistakes have been made, and they are able to make corrections that might otherwise go unnoticed. Exposure to each other’s data improves the overall products provided to internal and external customers because each entity acts as additional quality control for the others.

The three organizations have over 100 layers of data, including: parcels, topographic features, planimetric features, soils analysis, flooding, administrative districts, police and emergency response zones, zoning, zip codes, schools, street centerlines, electoral districts, and water line information. The data is shared amongst the organizations for projects as needed and is available for use by the public as well.

Another benefit of cooperation is in the area of sharing data with the public. Wake County now serves some of Wake’s, Raleigh’s and Cary’s data from an Internet website to the public. This has reduced the number of direct requests from the public thereby allowing GIS staff to concentrate on their daily activities. Anyone can now go to the Internet and find the information they are seeking without assistance from the jurisdictions’ GIS staffs and without cost - the data are available to the public at no charge.

Working together also allows the Town of Cary to complete some tasks more efficiently. Using its GIS and information supplied by the County, the Town of Cary discovered some annexations that were not recorded, which resulted in collection of over $250,000 in additional revenues. Furthermore, the Town of Cary discovered that zoning for their Planned Unit Developments (PUDs) was not being properly taxed. By adjusting the tax rate to reflect the actual land use within the PUDs, an additional $42,000 in tax revenue was generated for the Town of Cary.

The Town of Cary also recently purchased impervious surface data that will allow them to calculate the amount of water run-off on each parcel, which will allow them to more accurately determine the impact on each property. The City of Raleigh is now expanding their data sets to include impervious features as part of a Stormwater Utility implementation and the database design work done previously by Cary served as the model for Raleigh’s database.

Why it Works
So what is the tie that allows those in Wake County, North Carolina to work in cooperation when so many find it impossible? It is a simple thing that is hard to accomplish - communication and coordination. Each entity looks out for the community it serves; however, teaming together benefits all parties by providing data and expertise that each entity would otherwise wait years to

“I have conversed with many friends in my career field of local government GIS who are outside of our area and in other states. When I talk with them about their organization and data, it seems to always be a point of frustration and frequent aggravation for them. In listening to their concerns, I am grateful to work with a County government staff such as yours.”

- Bryan Hicks, Town of Wendell
URISA Announces HQ Staff Reorganization

The URISA Board of Directors is pleased to announce a new streamlined management structure at its headquarters’ office in Park Ridge, Illinois.

URISA will now be managed by its senior management team of Wendy Francis, Christine Dionne, and Barbara Hirsch.

Wendy Francis has been URISA’s Director of Marketing and Member Services since 1997 and will continue to be responsible for membership, vendor, and outreach relationships. Chris Dionne, URISA’s Director of Conferences, has twenty years of association management experience and will have responsibility for URISA’s many current and future educational programs and events.

Barbara Hirsch, CPA, URISA’s Director of Finance, is responsible for all fiscal matters and office operations. Scott Grams, URISA’s Education Manager, will continue to lead URISA’s certification effort and coordinate journal and publication activities. Verlanda McBride, Michele Meng and Katie Morehead will continue their important office functions of member support, website management, customer service, conference registration processing, and other key responsibilities.

According to Peirce Eichelberger (URISA President) and Martha Lombard (President-Elect), “These changes will allow for a ‘faster-cycle’ URISA and improved communications between the HQ staff, URISA members, the Board and the vendor/consulting community. The changes will also result in improved Chapter relations, proper initiation of the certification program, and enhanced member and volunteer coordination.”

Eichelberger continues, “These improvements should be evident at URISA’s upcoming 40th anniversary conference to be held in Chicago, October 26-30. The conference is shaping up as a ‘not to miss event’ as URISA recognizes its forty years of helping government staff and officials network and develop best practices.”

Bill Gentes, URISA’s Executive Director, will be leaving to pursue other opportunities.

For additional information please contact URISA Headquarters at (847) 824-6300.

NCEES Approves Revision to Model Law for Surveyors

Bruce Joffe, GIS Consultants, Inc. and URISA Board Member

Those of you who have been following the resolution of legal responsibilities for licensed surveyors in the creation and maintenance of GIS-based maps/data may recall that in October, 2000, a Task Force comprised of representatives from fiveSurveyor professional associations and two GIS professional associations issued recommendations for clarifying respective GIS roles and responsibilities. The recommendations were sent to the National Council of Examiners for Engineering and Surveying (NCEES) with the objective of changing the national Model Law, a document from which most State surveyor licensing laws are derived.

The recommendation for modifying the Model Law was passed by the full NCEES Council during the week of August 8 in San Diego. The acceptance of the report by the Council now triggers the actual implementation of the revised language into the NCEES model law and model regulations, a process that will occur at the NCEES committee level throughout this year. The final passage of that language and adoption of the revised model law and regulations by the full Council will occur Summer, 2003. The NCEES Council is comprised of representatives from each state’s Board of Registration.

The full text of the Task Force recommendations may be seen at http://www.asprs.org/asprs/news/NCEES_frame.html The report title is “GIS/LIS Addendum to the Report of the Task Force on the NCEES Model Law for Surveying”. Most notable in the report is “Appendix B” which lists examples of practices related to GIS data which should be included in, or excluded from, the definition of the ‘practice of survey’ for which licensure is required. A general description of the Task Force recommendations may be downloaded from FTP://joffes.com (the file name is “GIS-Surveyor_Accord.pdf”).

For more information, contact James Plasker, ASPRS Executive Director (jplasker@asprs.org), or Bruce Joffe, URISA Board Member (GIS.Consultants@joffes.com).
As I write this last column of my URISA Presidency, yesterday was the one-year anniversary of the 9/11 attacks. I had just returned from the Chicago URISA HQ where a reorganization of staff responsibilities will lead to a “faster cycle,” improved URISA, and recently returned from Portland, OR and the Fourth Annual Street Smart and Address Savvy conference. My column is truly miscellaneous this month!

1) I wanted to thank the membership for the opportunity to serve you. Gee, as I was just getting the swing of it, I am off to something else (URISA related, I’m sure), but as Ed Crane reminded me … “Peirce, you will always be Past President.” Martha Lombard will be an excellent President and I look forward to assisting her and staying involved.

2) URISA has reorganized the Park Ridge HQ office of URISA. (More elsewhere in this issue.) We have given more responsibility to Wendy, Chris, Barb, Scott, and our other office staff—Verlanda, Michele and Katie—and they are quite eager to move URISA ahead. We are most fortunate to have such a dedicated staff. These changes will provide for much improved communication with the board, our members and our vendor/consulting community.

3) With Martha’s input, I will be forming some URISA Task Forces. They will be tasked with policy/organizational duties that will positively impact the URISA membership. URISA needs to be more involved with last breaking, policy initiatives so it can help speak with a united voice for its members. This is especially important as new Federal and State initiatives are announced. These could develop into Task Forces:
   ■ National Map initiatives, homeland defense, etc. (Bruce Joffe to lead effort)
   ■ Geoauditing, model ordinances, growth management, etc.—possible new specialty conferences for early 2004
   ■ Certification publicity and roll-out
   ■ Design, content and implementation of the URISA website

Send me an email if you are interested in any of the above topics, peichelberger@chesco.org

4) The Street Smart conference in Portland, OR was very successful. Many thanks to our Oregon and Washington members and attendees. Half of our attendees were from the Northwest. See the special map in this issue. Look for more of these maps on a regular basis. The conference committee is forming and the location for 2003 will be selected soon. A new feature this year was “Stump the Experts”. The street sign contest was again memorable. Thanks to Louise Wennberg and Mike Kevany for all their hard work to make Street Smart a success. Thanks to the URISA staff for all their help, especially Scott and Chris.

Footnote: Of all my columns this past year the one that generated the most email was the GIS/911 address/integration column, #2 was the column on “geoauditing”.

Crossing Invisible Lines (continued from page 3)
In 1962, the year URISA was founded, 28 young men came to St Louis, MO from across the country to begin careers in map-making with the USAF organization known as the Aeronautical Chart and Information Center (ACIC).

This past June, 13 of those 28 gathered with spouses to reflect on their social bonds and share personal and professional memories of the last four decades. Six of the 28 left ACIC shortly after hire but 22 remained with ACIC a number of years and most completed careers in the geospatial field. Sadly, four are deceased and we have lost touch with the other two (three more had last-minute conflicts and could not attend).

In 1962, ACIC was in the midst of a staffing build-up to help meet this Nation’s challenge of the Cold War. The Space Age had begun, providing a major source of information via satellite reconnaissance. With the assistance of electronic computing, the people of ACIC were pioneers of what we now often call the geospatial industry. As an organization, ACIC can trace its heritage to the Army Air Corps in WWII and the Army Map Service. By the 1950’s, ACIC was a robust organization meeting the mapping, charting, and geodetic needs of the Air Force.

The management of ACIC was hiring hundreds of college graduates in small groups and providing intensive training in the cartographic sciences before placing them in production environments. These individuals witnessed and participated in significant advances in what we now call GIS. Among them would be the World Geodetic System (WGS) as it went from its crude form in the 1950s to the highly defined form that supports the Global Positioning System (GPS). The development of digital representations of topographic relief over broad areas began at ACIC to support flight simulators and is now a technology that supports a wide range of GIS applications from the production of line maps, orthophotos, and geographic planning and analysis documents.

This gathering after 40 years was a pleasant occasion bringing friends from Seattle, WA; Sun City, CA; Vienna, VA; Bangor, ME; and the rest from here in Missouri. Besides sharing our personal lives there was some time to reflect on the growth of technology in which we participated as well as organization changes.

The ACIC was morphed into and became an element of the Defense Mapping Agency (DMA) in 1972 and again in 1996 became an element of the National Imagery and Mapping Agency (NIMA). And forty years ago, the City of St. Louis’ Gateway Arch was still on the drawing board.
URISA is pleased to announce the winners of its 2002 Exemplary Systems in Government (ESIG™) Awards. The awards recognize exceptional achievements in the application of information technology that has improved the delivery and quality of government services. Award winners in each of the two ESIG™ categories (Single Process Systems and Enterprise Systems) will be honored during the Opening Ceremony at URISA’s 2002 Annual Conference in Chicago, Illinois.

The following organizations join the exclusive list of ESIG™ (award winners (the ESIG™ Committee’s summary review follows each):

**Single Process Systems** - Systems in this category are outstanding and 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.

**ESIG™ Winner:**
Fire Department of New York City (FDNY)
*World Trade Center Disaster Response - GPS Recovery System*
Submitted by: Michael Forbes, LinksPoint, Norwalk, CT

This system is exemplary for the multiple jurisdiction cooperation as well as the quick development of a relatively easy-to-use system that automates and organizes the task of locating and cataloging human remains and debris.

The system is an easy-to-use application that allowed for fast and accurate data entry into mobile units in an emergency situation. This played an important role in collecting the data and analyzing it further during a crucial time.

**Honorable Mention:**
New York Department of IT and Telecommunications (DoITT) - *Emergency Management Online Locator System (EMOLS)*
Submitted by: Jim McConnell, Mayor’s Office of Emergency Management, New York, NY

This system was developed to help citizens locate a variety of emergency services. The system has been modernized so that there is web access to a series of maps that provide data for a number of emergency response services.

The system provided emergency information to 8 million residents of New York City at the most crucial times 24 hours a day/7 days a week. That played an important role in increasing the public’s confidence in government and on how they were handling the September 11, 2001 disaster.

The second category of submissions was in the Enterprise Systems category:

**Enterprise Systems** - Systems in this category are outstanding and 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.

**ESIG™ Winner:**
MetroGIS Data Initiative
Submitted by: Randall Johnson, Metropolitan Council, St. Paul, MN

The system is an ambitious project and one that is still evolving. It has brought many units of regional and local governments together in order to create a comprehensive geo data system and a collaborative environment for its members to communicate and benefit from one another. These efforts, and the wealth of datasets and ease of access from a web-based interface, make the system an exemplary one that others can learn from and replicate.

This system is exemplary because it provides a one-stop clearinghouse for a variety of data that citizens, companies and public agencies can use. The main differentiation from the other finalists is that there is a much greater depth of data and database designs that can be used as a way to develop a canned GIS. It appears that several Minnesota communities have used the data and database designs and standards to hot-start their local GIS efforts.

This year, the committee recognized two honorable mentions within the Enterprise System category.

**Enterprise System Honorable Mention:**
State of Arkansas - GeoStor
Submitted by: Shelby Johnson, Arkansas Geographic Information Office, Little Rock, AR

The system is an impressive state-wide initiative that is well worth imitating. It encourages cooperation and data sharing among users from all levels of government and provides them with an exemplary portal to accomplish the task.

This system is exemplary because it provides a one-stop clearinghouse for a variety of data that citizens, companies and public agencies can use.
The main differentiation is that users can easily access portions of data for every community in the State.

Enterprise System Honorable Mention:
Chester County, PA - Land Record Modernization
Submitted by: Susan Jeanne Brinkman, Chester County GIS, West Chester, PA
This enterprise system has integrated various databases into an environment optimized for data querying and sharing. It has become a reliable source of information and a revenue generator. It has eliminated redundant data entry and as a result has decreased errors in data entry.

Congratulations to all award winners and to all who participated in this process. The Committee was extremely impressed with this exceptional group of candidates.

Thank you to Sanjiv Gandhi - Chair, Shoreh Elhami - Associate Chair, and the rest of the committee members: Gurdeep Singh, Gary Hunter, Trevor Feagin, Ken Sipos, Steve Johnson, Dave Dubauskas, Curt Hinton, Shilpam Pandey, and Evan Preston for their time and expertise in evaluating these amazing systems.

Applications for 2003 ESIG™ Awards will be made available in January, 2003.
ESRI® ArcGIS™ is a family of software products that form a complete GIS, built on industry standards that provide exceptional, yet easy-to-use capabilities out of the box.

The software follows standards for user interface design and interoperability. ArcGIS uses the following standard information technology (IT) components: VBA for customization, commercial DBMS for data storage, and TCP/IP and HTTP for networks. The geographic data model supports business logic for versioning and intelligent features.

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Autodesk announced that the Taipai (Taiwan) City Government has deployed Autodesk’s GIS technology as part of its “CyberCity” initiative to bring government services online.

Intergraph Mapping and GIS Solutions announced support of the Critical Infrastructure Protection Initiative (CIP), an Open GIS Consortium (OGC) program. CIP-I is the first of several interoperability pilot programs addressing the challenge of critical infrastructure protection. As part of the OGC Strategic Membership agreement, Intergraph has dedicated a staff resource to the OGC program, whose focus is advancing interoperability in the area of critical infrastructure protection.

Great Arc Technologies announced the release of MapCellar, an Enterprise GIS application for automating the cutting, packaging and delivering of map data on the desktop and through E-commerce functionality on the web. Features include: a complete authoring tool, map service and automation service; the scheduling of automation processes by hour, day and month; the option of joining associated non-spatial data; and tools to detail users, orders, and invoices.

Together with ESRI and AirZip, the City of Laguna Beach, California is now making all maps and information of the area available via the Internet for the first time in the City’s history. “Enabling our citizens and businesses with full access to the entire range of geographic data on our city positively affects the manner in which property will be developed, bought and sold in Laguna Beach,” said John Montgomery, the city’s assistant director of community development. “It simplifies the research process for developers, enables prospective owners to better scope out land for sale, and allows property owners to view configurations on and around their property for redevelopment planning. The system will save our city valuable tax dollars in staff time and resources which can be allocated elsewhere, because it is completely self-service,” he said. The GIS section of the City of Laguna Beach web site can be found at www.laguna-beach.ca.org.

Mapping Science, Inc. announced GeoP2, its image compression and management solution developed specifically for the mapping and GIS community.

DigitalGlobe recently recognized ImageLinks as the top reseller of the company’s high-resolution QuickBird image data in the United States.

Telemorphic, Inc. was recently awarded “Best Internet Application” during the 2002 ESRI International User Conference.

Autodesk has added two applications to its Homeland Security Initiative: CivicCenter Emergency Support and a Geographic Security Portal.


Intergraph Mapping and GIS Solutions announced it has released version 5.0 of GeoMedia Transportation Manager and GeoMedia Transportation Analyst. The company also announced the availability of GeoMedia WebMap 5.0. Built as a collaborative effort with Keigan Systems, Intergraph has also announced the availability of GeoMedia Grid 5.0.

PCI Geomatics and Supersoft Inc. have announced the formation of a new promotion and distribution agreement, allowing equal two-way distribution of their products.

Advanced Technology Associates, Inc. (ATS) of Lancaster, Pennsylvania recently participated in a technology demonstration that was part of the United States exhibition at the United Nations World Summit for Sustainable Development in Johannesburg South Africa held August 24th to September 4th, 2002. ATS took part in the Geographic Information for Sustainable Development (GISD) project, an initiative funded by USAID and coordinated by the Open GIS Consortium (OGC) to demonstrate how mapped data can be more easily shared across the world.

Kucera International Inc. announces two new services, Ortho-Express and TOPVIEW. Ortho-Express is production of high quality new and updated digital orthophotography, using a combination of traditional photogrammetric processes and advanced georeferencing and image processing technologies. TopView is production of high resolution, large-scale, high accuracy, true digital orthophotography and other map products to supplement field surveys for capital improvement projects, plant sites, and other planning and design-specific areas.

People News

The Geographic Technologies Group, Inc. has recently named Brian Sovik as their Florida Regional Manager.

Neil Carney has been promoted to Chief Executive Officer of SPOT Image Corporation and Diana Clemente has been named to the new position of Chief Operating Officer.

EarthSat is pleased to announce that the U.S. Government has awarded a Certificate of Appreciation to R. Peter Kollasch, Technical Project Manager of the GeoTools project. He was recognized for his effort in supporting the project, a multiyear, $1 million contract to design software for regional agricultural area assessments.

Autodesk has appointed Ernesto Diaz as Senior Director of Marketing for its GIS Solutions Division.

International Land Systems (ILS) is pleased to announce that Andrew Fox, Ph.D. has joined the company as the Vice President for Programs.

Contract Awards, Project News

Merrick & Company has been selected to provide Pima Association of Governments, the Metropolitan Planning Organization in the Tucson, Arizona metropolitan area, with its third major digital orthophoto data acquisition effort. The contract includes capturing color digital orthophotography for 3,260 square miles at a 1’ pixel resolution and black and white digital orthophotography for 354 square miles at 1/2’ pixel resolution.

Spatial Focus, Inc. (Birmingham, AL) is pleased to announce that it has been selected to provide on-going consulting assistance to the Office of the Chief Technology Officer for the District of Columbia, in the implementation of its Master Address Repository. Spatial Focus recently completed a Strategic Implementation Plan for Addressing, and Address Standards for Washington, DC.

Intermap Technologies, Inc. announced it has been awarded a contract to demonstrate its newly acquired technology that literally ‘sees through trees’. King County Department of Transportation, Renton, Washington, awarded Intermap a US $164,600 contract to demonstrate its proprietary foliage penetrating technology for terrain elevation mapping.

The Government of Jamaica and the Inter American Development Bank recently launched the Cadastral Mapping and Tenure Regularisation component of the Land and Administration Management Program. The two-year project is the largest cadastral mapping initiative in the English-speaking Caribbean. Thirty thousand parcels of lands will be mapped and regularized under the project. Spatial Innovation is leading the project.

Great Arc Technologies, Inc. was recently awarded a contract to develop both Internet and Intranet applications for the Historical and Archaeological Resources Geographic Information System (HARGIS) project for the Illinois Historic Preservation Agency.

The Sidwell Company has been awarded a contract by the County Commissioners for Delaware County, Indiana (City of Muncie) to convert the county’s existing tax maps.

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The Maine Department of Transportation has selected Exor Corporation to provide Highways by Exor software applications and implementation services.

RADARSAT International will design and carry out the first phase of its Salvadoran Property Information Network (SPIN) project in El Salvador. SPIN will provide the Government of El Salvador and others with equitable access to property information and user applications in support of land regularization, investment and property rights in the country.

RADARSAT International and the Danish Meteorological Institute have signed a contract for the near-real time processing and delivery of RADARSAT-1 and ENVISAT data, to use in creating ice charts and reports-critical information for ships navigating the Greenland Sea.

Intergraph Mapping and GIS Solutions announced that the City of DeKalb, Illinois, Public Works Department, has chosen Intergraph’s GeoMedia-Hansen Interface to complete its geospatial infrastructure environment.

ISTAR Americas has delivered a fully processed natural-color TrueOrtho image of the City of Baltimore to the Mayor’s Office of Technology in ten weeks. ISTAR acquired one-foot resolution, digital aerial data for the entire city in March and delivered its image mosaic by early June.

Spatial Focus, Inc. was recently awarded contracts for quality control of mapping projects for Cumberland County, NC, and Robeson County, NC.

Geographic Technologies Group, Inc. has recently been awarded software implementation contracts with the following clients: New York Department of Transportation; Boosier City, LA; Washington County, VA; Toole County, UT; Missouri City, TX; Normal, IL; Hemet, CA; Lake Havasu, AZ; and Portland, ME. In addition, GTG has contracted with Columbia County, GA for GPS Collection and Data Conversion, and with Mirimar, FL for GIS Implementation Planning.

PlanGraphics, Inc., teaming with ESRI and Landata Airborne Systems, has been awarded two open-ended contracts with the Metropolitan Water District (MWSD) of Southern California’s Engineering and Information Technologies Divisions providing engineering, data integration, and implementation services.

PlanGraphics, Inc., has been awarded a contract with the District of Columbia’s Emergency Management Agency to develop a plan which will ensure that the appropriate GIS resources are available to all agencies and staff involved in emergency responses. The project will be coordinated through the District of Columbia’s Office of the Chief Technology Officer.
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Chicago on the Riverwalk

Contribute to URISA’s future: encourage a coworker or colleague to join URISA this month!

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Urban & Regional Information Systems Association
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Date ___________________________  Job No. __________________________  02-160

Job Description ________________________  2002 Sept/Oct Newsletter

No. of Pages (Including Cover Sheet) _________

Comments:

________________________________________________________________________

When reviewing typesetting, it is important to check for the following:

✓ Layout and design match specs
✓ Information that was supplied is all included
✓ Spelling and grammar are correct
✓ All requested edits have been made
✓ Color breaks are set as you want them
✓ Pictures have correct captions and are cropped to your specs

You are being sent the following:

<table>
<thead>
<tr>
<th>Draft Type</th>
<th>Date Sent (JL Design)</th>
<th>Date Returned (Client)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First draft</td>
<td>Sept 15 (PDF) 2p</td>
<td>Sep 17 (fax)</td>
</tr>
<tr>
<td>Draft No. 2 with revisions</td>
<td>Sep 18 (PDF) 4p</td>
<td>Sep 19 (email)</td>
</tr>
<tr>
<td>Draft No. 3 with revisions</td>
<td>Sep 23 (PDF) 1:30p</td>
<td>sep 23 (fax)</td>
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<tr>
<td>Draft No. 4 with revisions</td>
<td>Sep 23 (PDF) 10p</td>
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<td>Draft No. 5 with revisions</td>
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<tr>
<td>Draft No. 6 with revisions</td>
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</table>

If this is a final proof of your job, carefully review and sign off. NOTE: You should re-review all copy before approving—not just last round of revisions.

❑ Please make the following noted revisions before approval. (Do not sign below if changes need to be made.)

❑ Proof is OK—please go to print.

I have examined this proof for spelling, color breaks, photos, and all other elements I requested. I understand that any errors found at a later time are my responsibility.

For Approved Final Proofs

I have reviewed the final proof of my job and approve it.

Signed ____________________________  Date ____________