Agenda

• Slalom (Sean Murphy / Asad Hosseini)
  • Host, Company Presentation
• City of St. Louis (Robert Gaskill-Clemons, CTO)
  • Smart Cities Initiative and Geospatial Technology
• University and R&D Subcommittee Update (Patricia Hagen)
• National Geospatial-Intelligence Agency (Mike Fitzpatrick)
  • USGIF St. Louis Area Working Group and Partnerships
• GeoSaurus Unleashed (Madeleine Swanstrom)
  • Review of the upcoming meetings / agenda topics
• Lightning Talks
  • Joe Driskill, Missouri Military Advocate
• SubCommittee Updates
  • Workforce Development (Enbal Shacham)
  • K-12 Subcommittee Update (Dr. Roz Norman / Sekhar Prabhakar)
Introductions

• Name
• Organization
What is the SLAWG?

The SLAWG is a volunteer-based group formed under the U.S. Geospatial Intelligence Foundation (USGIF), a 501c3 educational nonprofit dedicated to supporting the geospatial intelligence tradecraft. It is a group of industry, government, academic and community partners with a goal to clarify pathways for education and training for geospatial careers and certifications in the St. Louis region, and identify needs for new pathways to integrate with existing efforts.
Calendar of Events

• August
  • 14 - Geosaurus Unleashed, T-REX, 5-7:00 PM
    • Sign Up for Emails: https://mailchi.mp/f9a5983f8ead/geosaurus
  • 16 – Seiler STL Drone Demo Day 2019, 10:00-2:00p
  • 22 - Esri UC Highlights, CIC – Havana, 4240 Duncan, 1-3:00 PM
    • Register here: https://www.eventbrite.com/e/esri-intel-at-cic-uc-highlights-tickets-64637327988
  • 28 - USGIF SLAWG Monthly Meeting, T-REX, 3-5:00 PM

• September
  • 11 - Geosaurus Unleashed, T-REX, 5-7:00 PM
  • 25 - USGIF SLAWG Monthly Meeting, Herbert Hoover Boys & Girls Club/Best Buy Teen Tech Center, 2901 N. Grand Blvd, 1-3:00 PM

• October
  • 7-8 - USGIF Tech Showcase West, (TBD)
  • 9 - Geosaurus Unleashed, T-REX, 5-7:00 PM
  • 30 - USGIF SLAWG Monthly Meeting, Taylor Community Science Resource Center (SLSC), 4900 Manchester Ave, 2 to 4 pm

• November
  • 13 - Geosaurus Unleashed, T-REX, 5-7:00 PM
  • 20 - USGIF SLAWG Monthly Meeting, Clyde C. Miller Career Academy High School, 1000 N. Grand Boulevard, 3 to 5 pm

• December
  • No official meeting, possible holiday social.
  • 11 - Geosaurus Unleashed, T-REX, 5-7:00 PM
SEILER GEODRONES: STL DRONE DEMO DAY 2019

STL Drone Demo Day 2019

Where: The Lodge Des Peres | 1050 Des Peres Rd., Des Peres, MO 63131

When: Friday, August 16, 2019

Time: 10:00am to 2:00pm

Registration: Please register below.

About:
Join us for our drone demo day on Friday, August 16th. We're going to discuss the latest in the technology as well as show off the capabilities in the field (weather permitting). We'll have manufacturer's representatives on-hand to present and discuss the latest industry trends. Meet industry peers for networking and discussion of drone applications. Lunch will be served (RSVP required).

Timeline:
10:00-11:15 LEARN: Present the latest drone technology and sample data from recent drone flights
11:15-12:30 SEE: Fly the latest drones and demonstrate the capabilities
12:30-1:00 EAT: Enjoy lunch* and network with industry peers (RSVP required)
1:00-2:00 FLY: Get behind the sticks and fly a drone for yourself or learn more information

Contact us for more details at 314-218-6378 or emergingtech@seilerinst.com.
Industry in the News: Accenture

Accenture, St. Louis Partner for IT Skills Development Program

Posted By: Darwin McDaniel  on: June 04, 2019  In: News

The city of St. Louis has partnered with Accenture to help some local residents develop information technology skills and pursue careers in that field through a new program aimed at people who are unemployed, face the risk of job automation and lack the resources to receive training.

The company said Monday its partnership with the St. Louis Promise Zone introduced the “My Path, My Future” program with the intent to guide individuals in pursuing technical careers.

Promise Zone is a federal program that works to help high-poverty areas boost economic activity and employment.

Accenture added it plans to introduce its national apprenticeship program to the city as part of the public-private partnership.

“Professional apprenticeships can play an important role in creating opportunities for individuals who might not otherwise have access to digital economy jobs, while helping to close the skills gap for employers,” said Julie Sweet, CEO of Accenture North America.

Program partners include the state government of Missouri, St. Louis County Human Services, St. Louis Agency on Training and Employment, NPower, LaunchCode, Lyft, Family and Workforce Centers of America and CyberUp.

Training is scheduled to begin in the summer and Accenture plans to select residents for employment by end of 2019.
Slalom Consulting – Host Company

Sean Murphy / Ahad Hosseini
Slalom is a modern consulting firm focused on strategy, technology, and business transformation.
Year founded: 2001
Headquarters: Seattle, WA
Local offices: 29
Consultants: 7000+
Clients: 1100+
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<td>Cloud enablement</td>
<td>Strategy + architecture</td>
<td>Change management</td>
<td>User research</td>
<td>Program + portfolio management</td>
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<td>Devops</td>
<td>Modern data architecture</td>
<td>Culture + employee experience</td>
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<td>Business + technical analysis</td>
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<td>Strategy + enterprise architecture</td>
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<td>Information architecture</td>
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<td>Visual design</td>
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What we do

Technology

Organization Strategy & Transformation
We help clients from
global brands to
emerging companies
We have helped a breadth of public sector entities reach for and realize their vision.

- The State Bar of California
  Implementation of a cloud-based admissions information management system

- City of Santa Monica
  Facilitating workplace modernization to transform how public services are delivered

- WSP®

- CDSS

- King County

- Washington State Department of Health

- Denver

- DBHDD

Assessing organizational culture, strategic planning, and procurement of the Statewide Sexual Assault Kit Tracking System
K-12

Higher Education

[Logos of various educational institutions]
Georgia State University
200+ technology platforms

Alteryx
Anaplan
Dell Boomi
Sitecore
Snowflake
Acquia
Adobe

Chef
Databricks
DataRobot
DocuSign
HashiCorp
Informatica
Matillion

New Relic
nCino
Talend
Qlik
Workday
Workplace by Facebook
We put people first.

We believe in a world in which every person loves their work and life.
Our core values

Do what is right, always.

Drive connection and teamwork.

Take ownership. Get it done.

Inspire passion and adventure.

Focus on outcomes.

Celebrate authenticity.

Fuel growth and innovation.

Stay humble and curious.

Shape and build a better future.

Smile.
Committed to St. Louis

We are helping build St. Louis into a city in which every person loves their work and life.

Community Engagement is about creating a social impact and making a better future we can all love.

- **Community Service**
  Giving back to our community through service and investment

- **STEAM Education & Mentoring**
  Inspiring and educating the next generation of STEAM leaders at various local institutions

- **Startup Community**
  Supporting and engaging the flourishing tech & innovation scene here in St. Louis

- **Civic Engagement**
  Working to be an integral part of the fabric that binds St. Louis
Community Engagement in Action

Working with our Partners to uplift and grow St. Louis.
City Greens most immediate mission is to provide access to healthy food for the Grove neighborhood. However, their long-term goal is to improve the food justice system in Saint Louis.

To achieve their short term and long-term goals they need to focus on developing an integrated accounting system, improving their customer experience, changing their inventory system, connecting with more community partners, and developing a network of providers.

Client
In 2008 the “Midtown Mamas” saw a need for healthy and affordable food so they did something about it. City Greens Market Non-Profit was their solution.

Solutions
New accounting methodology improvements
Integrated accounting solution Community Partnership development
New inventory management
Customer experience

Industry
Non Profit

Platforms
Revel, QuickBooks Salesforce, DonorBox

Contact: Alex Carnes
Public Cloud is one of the ways organizations are driving the modernization needed to transform business for the future.
“Through 2022, 75% of successful digital strategies will be built by a transformed IT organization, with modernized and rationalized infrastructure, applications and data architectures.”

Source: IDC 2018
What is Transformation?

Business model change focuses on the features that impact revenue: the markets, propositions, and brands and clients.

Operating model change focuses on the features that impact cost: core business processes, operational infrastructure and technology, organizational structure, governance and risk controls, and people and culture.
Cloud drivers are aligned with a number of measurable outcomes.

<table>
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<tr>
<th>Technology Modernization</th>
<th>Organizational Evolution</th>
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<tr>
<td>Optimize application development</td>
<td>Eliminate tech debt and provide a catalyst for change</td>
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<td>Create a competitive advantage, including cloud native competitors</td>
<td>Reduce headcount to manage costs and streamline resources</td>
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<td>Outsource commodity infrastructure and platform services</td>
<td>Increase speed to market for changes, features and products</td>
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<td>Reduce down-time and increase productivity</td>
<td>Reduce IT costs, transitioning from CAPEX to OPEX</td>
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<td>Support international market expansion</td>
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<td>Increase flexibility and scalability</td>
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Slalom has some key ingredients to cloud success.

Beyond the technology

Executive Alignment
Executive alignment across key functional areas on the cloud vision, goals, approach and outcomes builds a sponsorship alliance.

Know the Why
A realistic analysis of investments and desired benefits provides a guidepost for executive alignment and for measuring success.

Cloud Center of Excellence (CCoE)
A CCoE comprised of cross-functional experts drives the overall cloud transformation effort and establishes a mechanism for continuous learning and improvement.

Operating Model
Current organizational structures and service models must evolve to support building and running applications and services in the cloud.

Support the People
Cloud has broad-reaching impacts to the business. New technology, org structures and work processes are successful when the people are aware, understand and have the tools they need for success.

New Skills and Behaviors
The successful cloud workforce will demonstrate different skills and ways of working. Define roles, hiring, training and transition plans.
Thank you
Smart City Initiative & Geospatial Technology

Robert Gaskill-Clemons (CTO- City of St. Louis)
Scope of Smart City Initiative

- Public Safety
- Infrastructure
- Citizen Engagement
- Resilience
- Mission & Vision
- Economic Development
- Service Delivery
- Transportation
- Public Health
- Environment
- Transparency & Open Data
Scope of Smart City Initiative: Infrastructure
Equitable Infrastructure Growth Program

- **Objective:** *Improve the Quality of life for the citizens of St Louis through:*

  - **Equal Access to Internet and Technology Outcomes**
    - **Support affordable access** to high speed internet for all citizens/homes
    - **Ensure** the opportunity for the **same level of access** to the internet and quality of service for all citizens
    - **Increase access** to internet and technology via free public WiFi in all public locations such as parks, recreation centers, civic centers, etc.
    - **Accelerate** the deployment of new technologies such as 5G wireless (cell) technology across the city
Equitable Infrastructure Growth Program

- **Community Resilience Outcomes**

  - **Make utilities less likely to fail** due to things like natural disasters and extreme weather events: Reduce the time it takes to detect failures and restore service after failures or outages
  
  - **Implement smart infrastructure technologies** to prevent outages
  
  - **Replace** aging infrastructure such as old power lines, pipes, etc. before they fail or become hazardous
  
  - **Reduce** the number of times and frequency for opening streets and sidewalks which disrupt the flow of vehicle and pedestrian traffic
Roadmap of Smart City Initiative: Infrastructure

- Establish Partnerships
- Board of Public Service
- Water Department
- Streets Department
- Ameren
- Metropolitan Sewer District
- XG Communities
- ESRI
- Bi-State Metro
- Spire

- Establish Infrastructure Growth Grids
- Establish Public Facing Map of Historical, Current, and Future Construction/Progress
- Establish Consolidated Map of Capital Improvement Projects Including All Participants
- Establish Coordinated Communications Strategy Among Partners
- Develop Specifications for New Modular Poles
- Establish Policy for the Use of City Assets
- Establish Ordinance for the Use of City Assets
- Transition Local Fiber Network Builders from Per Foot Fee to Gross Receipts
- Establish Dig Once Strategy
- Establish Dig Once Policy
- Establish Dig Once Ordinance
- Expand Undergrounding Ordinance
- Establish Small Wireless Facilities Ordinance
Tools: Geospatial

Develop tools to meet the following objectives:

- **Deconfliction**
  - Identify projects that could interfere with other projects

- **Synergy Identification**
  - Identify opportunities based on shared priorities, funding availability, etc.

- **Opportunity for Collaboration**
  - Identify opportunities to share costs, reduce time, etc. based on outcomes, business rules, etc.

- **3D Infrastructure mapping**
  - **Prototype** includes all of St Louis County, St Charles County, and East St. Louis

- **Project Coordination & Collaboration**
  - Coordinate on projects before it's too late
  - Provided automated status updates
  - Notify other members of issues or delays that could affect them
  - Notify the public Infrastructure related geospatial data clearing house
  - Data for internal EIG use
  - Data for use by the public
Tools Example: **Opportunity for Collaboration & Cost Sharing**

3 projects in same 9 block area

**Project:** (Collectively and per participant)
- Cost
- Time
- Road closures / disruption

**Variables:**
- Cost
- Time
- Road closures
- Business rules
- Design standards
- Location details

**Opportunity:** (Collectively and per participant)
- X Cheaper
- Y Faster
- Z Fewer road closures and disruptions
Scope of Smart City Initiative: Operations and Service Delivery
Common Operating Picture: Interaction using a Digital Twin

Sensor Control, Configuration, and Access: Common Operating Picture Integration Concept

- Sensor Locations on 3D Common Operating Picture Map Interface
- Settings / Configuration
- Video Stream and PTZ Control
- Operating Status
- User Selects Sensor to Access
- All Sensors in the Package
- User Selects Sensor Package to Access

Symbols:
- Camera
- Traffic
- Weather
- Air Quality
- Gun Fire
- Package
Roadmap of Smart City Initiative: Technologies

- Single Mobile Workforce Application
- Common Operating Picture
- Establish 3D Basemap to Create a Digital Twin of the City
- Establish Informational Common Operating Picture
- Establish Interactive Common Operating Picture
- Establish Planning, Modeling, & Simulation Common Operating Picture
- Dynamic Dispatch
- Data Driven Decision Making
- IoT and Sensors
- Mapping
- Modernize and Revamp Mapping Platform
- Procure Mapping Platform
- Architect and Implement Mapping Platform
- Onboard Departments
University and R&D Subcommittee Update

Patricia Hagen, PhD
Subcommittee Co-Chair
University/R&D Subcommittee Update

1. Committee is working on mapping university and other training assets in the region and throughout state with a goal of identifying gaps and opportunities.
2. As a starting point, committee will seek to understand industry needs, as several faculty pointed out a lack of feedback from industry and others regarding current skills needed for tradecraft. Committee will begin with examining work that has already been done regarding tech talent pipeline (e.g. ITEN study, Regional Chamber, state resources, Teconomy study), and then do outreach to industry partners.
3. Coordinating with Mitch Horowitz, principal of Teconomy Partners to ensure that we are not being redundant to work that has been accomplished or planned.
4. University representatives want to ensure that Teconomy study has complete information on university assets, thus we have requested that Mitch H. present to the Committee at our August meeting regarding that aspect of his work.
National Geospatial-Intelligence Agency Partnerships

Michael Fitzpatrick, Technology Transfer Program Manager
Office of Ventures & Innovation (NGA)
GeoSaurus Update
Madeleine Swanstrom
Research and Development Coordinator, T-REX
Geosaurus Unleashed @ T-REX!

- Every second Wednesday, 5-7 PM
- Networking/happy hour and speaker series
- Sign up for the mailing list: https://mailchi.mp/f9a5983fbead/geosaurus
- Upcoming events:
  - August 14
  - September 11
  - October 9
Lightning Talks

Joe Driskill
Missouri Military Advocate
Executive Director, Missouri Military Preparedness and Enhancement Commission
Workforce Development Subcommittee Update

Enbal Shacham, PhD, Subcommittee Lead
Workforce Development Sub-Committee Kickoff Meeting

• First meeting was June 25th, and a follow up meeting was held on Jul 15th.

• New members:
  • Carlos Suarez - Clockwork Productions
  • Michael Ruiz – SLU
  • Bob Lee – Missouri Jobs Center, St. Louis County
  • Andy Dearing – Spatial STL Advisors

• Updates from group, leverage TEConomy study, Jobs Posting, etc.

• More are welcomed to join – next mtg. on Aug 20th.
Workforce Development Subcommittee Updates

• Identified priority areas:

1. What are the workforce needs of industry partners
   • Conducting survey of current employers to better understand skillsets needed
   • Teconomy will inform what has already been done and questions to ask

2. What are the training programs that currently exist and share with the community?
   • Conduct audit of the current programs both within traditional and nontraditional settings

3. How to identify open positions in the geospatial work arena?
   • Working to establish process with county and state workforce development/job banks
K-12 Subcommittee Update
Sekhar Prabhakar
Subcommittee Chair
BSA: Invention Jamboree

Esri will be conducting an ArcGIS Online “Train the Trainer” session for Search & Rescue on August 10th in Columbia, MO, with Dr. Annie Sobel and Thomas Yang BSA/Invention Scouts POC.

Esri will be showing how to use in Search & Rescue context so they can use with Boy Scouts at the jamboree in September down in Lake of the Ozarks (Hohn).
GatewayGIS Update

GatewayGIS forges ahead based on the following:

**Question**
What does St. Louis, NGA, and GatewayGIS have in common?

**Answer**
Advancing geospatial science and technology by developing tomorrow’s workforce
GatewayGIS Update

Organizational Goal

GatewayGIS strives to include various partnerships and to collaborate with the USGIF St. Louis Area Working Group subcommittees for K-12 Initiatives, Entrepreneurship, Research and Development, and Workforce in a holistic approach for its tripartite structured model.
GatewayGIS Update

Summer Program Components

• Clyde C. Miller Career Academy High School
  ➢ Introduction to Esri ArcGIS for Story Maps
• Best Buy Teen Tech Center at Herbert Hoover Boys and Girls Club
  ➢ Introduction to design of the GatewayGIS App
• Saint Louis Science Center Youth Exploring Science (YES) Program
  ➢ Development of a logo design for GatewayGIS
GatewayGIS Update

Saint Louis Science Center YES Program “Networking Extravaganza” (July 18, 2019)
Projects & Partners

• Justine Petersen and Good Life Growing LLC
  ➢ Year-Round Paid Internship Program (2019/2020)
• GoodVoice STL and CEdge Software Consultants
  ➢ Logo Design Challenge Winner Selection (July 2019)
• GeoSLU co-sponsorship of GatewayGIS Seminar
  ➢ “The Use of GIS in Countering Wildlife Trafficking” by Dr. Odean Serrano at COLLAB, a joint innovation center of Saint Louis University and Washington University in the Cortex Innovation District (September 25, 2019)
GatewayGIS Update

Research & Publication

• **GeoSLU and GatewayGIS collaboration**
  ➢ Research project for students, working alongside some collaborating partners of GatewayGIS, at Clyde C. Miller Career Academy High School
  ➢ Publication of the research project in a scholarly, peer-reviewed journal by Dr. Ness Sandoval, Co-Leader for GeoSLU: The Saint Louis University Geospatial Research, Training, and Innovation Enterprise, and co-authors from GatewayGIS
Takeaways

Career Opportunities (Full-Time/Internships)
• Submit opportunities for marketing to slawg@usgif.org for distribution

Events/Messaging
• Submit calendar events to Tara Mott
• Flashtalks for the Next Meeting?

Members should look to join at least one sub committee and share GEOINT Opportunities!
Next Meetings

• August 28th, T-Rex, 911 Washington Avenue
  • 3 to 5 pm
• September 25th, Herbert Hoover Boys & Girls Club/Best Buy Teen Tech Center, 2901 N. Grand Blvd
  • 1 to 3 pm
• October 30th, Taylor Community Science Resource Center (SLSC), 4900 Manchester Ave
  • 2 to 4 pm
• November 20th, Clyde C. Miller Career Academy High School, 1000 N. Grand Boulevard
  • 3 to 5 pm
Thank You for Attending!