



Taking care of spatial business

Insite July 2018

CEO Update



Collaborating for a strong industry

On Sunday night I watched The Third Industrial Revolution again, with my team. Regardless of your beliefs about climate change, or environmental motivations for change, most would agree we are seeing change right across the industrialised economy. The motivation for change influences speed and outcome; technological progress is a wave that will happen regardless. My sense is the trends for technology enabled change in communications, energy and transport are well established now. And underpinning all of it is data. Spatial data.

In fact, so many developments are reliant on quality spatial information I feel like the proverbial “kid in a candy store”. These range from predicting crop yields from satellite imagery to surveys for major infrastructure projects.

At the same time, I am constantly surprised by the holes in our national spatial information. I’m not alone in feeling that way. As technology moves faster, community expectations increase disproportionately, it becomes more difficult to fill in these holes, and more important that the spatial community is well networked.

Building digital twins of our environment that are secure, accessible, dynamic, accurate etc requires considerable specialised knowledge almost exclusively possessed by spatial and surveying professionals. The dynamic between these professions is changing, and in so doing, is showing more clearly the critical contribution each makes to the smart communities we are building.

One thing I’ve observed in the past several months is an increased focus by all representative groups in our sector on collaboration. Some of us will always jostle for market share; that’s the nature of commercial reality. What’s becoming obvious is that all of us contribute something unique to the spatial community, and each of those contributions requires deliberate attention if we are to grow capability as a sector and capitalise on the exponential growth in front of us.

What I’m really saying is, the task of skilling a workforce requires different skills and relationships than the task of developing the industry and its markets, which is different from supporting individual

business needs, advocating for better business or worker conditions, or undertaking early stage commercial research, building national critical infrastructure or providing a public service. All these functions are necessary for growing a regional spatial industry with global relevance and reach.

Why global reach? The invisible borders and firewalls protecting regional practice areas are not. Not effective, not there, not what we think, not relevant anymore. The internet has made the market a global one. We trade in data that can be acquired, processed, stored, delivered and accessed from anywhere on the planet. And it is. The barriers to entry for international competitors are lower than ever. Not one of the organisations I've met with since I joined SIBA|GITA has said "there's not enough work for us to do, we're really questioning our future." On the other hand, conversations go something like "there's so much to do and we have limited resources, how do we stop duplicating and stay relevant?" How do we pick winners? I would go as far as saying businesses and government agencies are also having this discussion. There is so much opportunity, how do we pick winners?

This is an excellent set of discussions. Difficult, courageous, necessary, value creating. Now it's time to focus on having this discussion better together.

Deanna Hutchinson CEO

SIBA|GITA welcomes New Members

Data Farming.



Field consultation with a grower

DataFarming is a Toowoomba-based agtech company delivering Precision Agriculture (PA) solutions for farmers and agronomist around the world. It was established in 2017 by leading Australian PA specialists, Tim and Peta Neale (pictured above) who have been PA consultants for 15 years.

Our team

The DataFarming team of spatial data professionals, software developers, field technicians, and consultants are closely aligned to agronomists and the service industry. Together, we strive to



Data Farming tablet PC used in the field

assist farmers, agronomists, and industry players to derive measurable value from spatial data.

Our solutions

The DataFarming team is unlocking the potential of spatial data and PA products for farmers and agronomists, by developing products and services that are simple, automated and low cost, and provide on-ground actionable solutions.

In October 2017, DataFarming launched its cloud-based mapping platform which included its first product, a satellite imagery Crop Monitoring Tool, allowing free global access to 10m resolution imagery. Mapping platform users have so far mapped over three million hectares of farms worldwide, including: Australia, UK, Africa, the Middle East, USA, and Canada. The platform will soon host more products including auto-zoning and yield data tools.

Who we work with

DataFarming has a collaborative approach to business, delivering benefits to Australia's agricultural sector and beyond. We are proud to work with agribusinesses, universities and R&D organisations, government agencies, and individual producers across Australia and the world.

For more information visit www.datafarming.com.au

Members in the News



Pictured: (left to right) Laren Collen (AAM), Dylan Frank (Wumara Group) and Braith McClure (AAM)

AAM Partners with Local Indigenous Surveying Company Wumara Group

AAM is supporting and co-working with Wumara Group to enable advancement of their spatial capabilities. Wumara Group is assisting and co-working with AAM in developing indigenous engagement policies and cultural awareness training. Both groups are working together on multi-disciplinary projects across a wide variety of applications. Together, AAM and Wumara strive to empower Indigenous Australians by providing educational and employment opportunities.

About AAM Group

AAM is an Australian company and a leading provider of geospatial technology services, specialising in construction, infrastructure and development, surveying, laser scanning, smart city 3D modelling and cloud-hosted solutions.

We capture, measure, map and analyse location data. Our products and services enable businesses, governments and communities to plan, build and manage the spaces where we live, work and play.

AAM operates globally, with offices located across Australia, New Zealand, South-East Asia, India and Africa.

[Visit AAM Website here](#)

About Wumara Group

Wumara Group is a Sydney-based Land Surveying company that is 100% Indigenous owned and managed. It is certified by Supply Nation as an Indigenous business and is a member of the New South Wales Indigenous Chamber of Commerce (NSWICC)

[Visit Wumara Website here](#)



Pictured (left to right) Brazier Motti Directors Peter Murphy & Stephen Motti, Rotary Club of Ross River Rotarians, Charlie Rasmussen & Tim Brazier, and Brazier Motti Director Raneir Melick.

Brazier Motti Honoured by Rotary Club of Ross River

In June, Brazier Motti was presented with a Paul Harris Fellow from the Rotary Club of Ross River in Townsville. "We are extremely honoured to have received this acknowledgement in recognition of our community work alongside Rotary in Townsville over the years" said Stephen Motti in accepting the award.

"North Queensland is a fantastic community, in no small part thanks to the contribution of organisations like Rotary. It is a privilege to be able to work with Rotary clubs across the region, including as a supporter of the Townsville Rotary Markets and a regular sponsor of the annual Rotary Charity Golf Day in Cairns.

We were also excited to see one of our Drafters, Sara Rosso, honoured by the Rotary Club of Ross River with a Pride of Workmanship award. Sara makes an outstanding contribution to our team and we congratulate her on receiving this recognition for her work", said Stephen.

Congratulations from SIBA|GITA

[Visit Brazier Motti website here](#)



University of the Sunshine Coast CAVE2 Virtual Reality Teaching Space

Recently SIBA|GITA staff were taken on a tour of Cave2™, a world class 3D virtual reality teaching space at University of Sunshine Coast (USC) state of the art, 5-Star Green Star rated Engineering Learning Hub (ELH).

Can you help?

Are any of our readers able to provide USC with data suitable for student use at Cave2?

Dr Sanjeev Srivastava (Senior Lecturer in Geospatial Analysis) is specifically interested in:

- Terrestrial and aerial lidar scans
- Hyperspectral data
- Multispectral high resolution aerial images
- High resolution stereoscopic aerial images

If you can assist please contact Sanjeev.Srivastava@usc.edu.au

CAVE2: Cave Automated Virtual Environment is one of only four of its kind in the world (one in Melbourne and two in the USA), which provides a near-seamless, 320-degree, immersive, panoramic 3D virtual environment.

We donned our 3D glasses and were treated to some spectacular imagery, BIM models of water treatment plants, and other student learning videos.

Many thanks to Sanjeev and Mark for hosting us.



SIBA|GITA staff enjoying amazing 3D visuals of Lucerne, Switzerland [Watch Video](#)

[Visit USC CAVE2 here](#)

Eagle View Technologies sets new standard for aerial image capture with acquisition of Spookfish

US based Eagle View Technologies, Inc. (“EagleView®”), the leading provider of aerial imagery and data analytics, is proud to announce its intention to acquire Spookfish Limited (ASX:SFI) (“Spookfish”), an Australian listed public company focused on the development and commercialization of premium next generation geospatial imagery products and services.

With this acquisition, EagleView simultaneously secures advanced Spookfish aerial camera technology for mass adoption in North America and establishes a presence in the Australian market.

The acquisition follows an initial investment in Spookfish by EagleView in May 2016, and more than two years of joint development work to optimize Spookfish image capture technology.

[Read more](#)





ESRI's innovative GIS approach that helped US Border Patrol seize almost 1 tonne of cannabis

Australia's federal, state and local law enforcement and border patrol agencies are facing unprecedented challenges in their fight to secure Australia's borders and stay a step ahead of criminals. Advancement in technology – such as biometrics, automation and Artificial Intelligence – offer opportunities to improve capabilities – however, as the technology used by national security agencies becomes more sophisticated, so too does the approach of the criminals they are working to apprehend.

So how can we effectively plan, prepare and respond to outpace the would-be perpetrators?

The answer lies with geospatial technology.

Read how US Border Patrol are working with ESRI's ArcGIS to achieve these outcomes

[Read more](#)

News from around our Network.



Women in STEM - PhD Internships

AUSTRALIAN GOVERNMENT 50% REBATE

APR.Intern is driving innovation and accelerating women in STEM through short-term 3-5 month PhD industry internships. A new Australian Government rebate is now available to all Australian businesses through the program.

Our PhD students stem from all disciplines and universities across Australia, providing businesses from all sectors in major cities, regional and rural area, access to specialist PhD expertise. Every PhD internship is supported by an academic mentor from the university, who provides academic guidance to the intern and the project.

Through these internship, APR.Intern aims to support industry-based training of PhD research students, giving them the opportunity to apply their research skills in an industry setting

Benefits to your Organisation:

Accelerate Gender Equality

Champion change & drive innovation in your sector

Rapid Results

Quick outcomes through high impact research projects

Access New Government Funding

50% R&D rebates available for all businesses

Fill a Skills Gap

Access PhD & academic mentor research expertise

Retain Intellectual Property

All project-related IP remains with the business

Minimal Administration

No HR costs, all facilitation by APR.Intern

Applications closing soon. [Learn more here](#)



Spatial businesses in Australia welcome the Australian Space Agency

The \$10 billion Australian spatial industry says the renewed focus on ownership of space assets by Australia and Australian companies will enhance our national ability to secure a strong long term future in this rapidly growing industry.

The spatial industry is one of the fastest growing areas of the both the global and domestic economies. The industry has previously raised concerns that Australia is missing opportunities to optimise its role in the development of the global space industry.

Deanna Hutchinson, CEO of the Spatial Industries Business Association says the Australian Space Agency has come at a critical time for Australian industry.

“We have a particular interest in space and space technologies (earth observation and remote sensing, positioning, navigation and timing, and communications) because these space-based assets supply the streams of data that power the commercial activities of many of our members servicing most areas of the Australian economy; agriculture, surveying, construction, mining, energy, transport, advanced digital analytics, location based service,” she said.

Recent studies have stated that the global geospatial technology industry is worth around \$400 billion and growing at 13.8% annually. Remote sensing is the fastest growing subsector, with the majority of growth reported in the Asia Pacific region.

“This represents considerable opportunities for Australian industry, and the Australian Space Agency will fill a key role in

supporting the emergent growth in jobs and economic activity,” Ms Hutchinson said.

The spatial industry welcomed the recent budget night commitment by the Australian Government to put around \$300M into space through the Space-Based Augmentation System and Digital Earth Australia initiatives.



Australian Government
Geoscience Australia

Geoscience Australia awarded for bathymetric survey in MH370 search

Geoscience Australia has been selected from over 100,000 organisations world-wide to receive a global award for its ground-breaking work in mapping the world's deep-seabed in the search for missing Malaysian Airlines flight MH370.

The **Esri Special Achievement in GIS (SAG) Award**, recognised Geoscience Australia's innovative use of Geographic Information System (GIS) technology to advance mapping of the deep oceans.

The search for MH370 led to discoveries including underwater volcanoes, mountains and trenches, and improved the accuracy of ocean depths by up to 2,000m.

A key requirement from the outset of the search was to create a detailed and accurate picture of the ocean floor, so that what may have happened to the debris could begin to be determined.

“To do this, ESRI GIS technology was used to map and analyse an unprecedented volume of data, including over 278,000 square kilometres of shipboard bathymetry data, and another 432,000 square kilometres of data collected on the journey to and from the search zone.

The outcomes of the data analysis are expected to support benefits to science, industry, and government cooperation for future marine search and rescue.

Phase Two underwater search data has recently been released by Geoscience Australia

[Read more](#)

National Spatial Excellence Awards



Have you got your entry in? It's not too late

Closing Dates have been extended:

Queensland:	Closed
New Zealand:	Closed
Tasmania:	10/8

Victoria:	24/8
Western Aust:	17/8
South Australia:	28/9
NSW/ACT:	1/10
Pacific Islands	31/10

The Spatial Excellence Awards celebrate the achievements of top spatial information enterprises and individuals and showcase the finest projects and most significant performance of professionals that the Surveying and Spatial Industry have to offer. Projects and individuals attaining recognition at this premier event are deemed to be truly outstanding achievers and pre-eminent in their field.

The APSEAs will look a little different this year. The biggest change is the establishment of an international awards coordination team with SIBA|GITA and SSSI representatives from every region represented in the awards.

The team meets approximately each month, and together has:

- agreed a single open and close date for submissions via the online platform – closing 20 July so enter now!
- incorporated feedback from entrants and judges to improve the industry awards judging criteria and instructions
- coordinated the awards celebration calendar - in Australia awards nights are timed to coincide with SSSI regional conferences, and in the Pacific the awards continue to be held in conjunction with the RS/GIS conference. [See dates here](#)
- jointly developed one sponsorship package for the awards series, with the introduction of series level sponsorships for extra visibility – [download here](#)
- worked with designers in Adelaide to refresh the logo and APSEA website (new site coming soon to apsea.org.au). The refreshed logo highlights the regional contributions to an Asia Pacific grand final for branding consistency and international oomph, renaming regional events to Asia Pacific Spatial Excellence Awards – Queensland, instead of QSEA for example
- commenced the collation of a full honour roll of previous winners all the way back to 2005 – [see the list of industry winners here](#) – if we've missed your win, please let us know! Alex Webster is also generously helping us to collate a Wikipedia entry for the APSEAs – thanks Alex! – stay tuned
- commenced the development of a suite of communications materials telling the stories of our APSEA winners
- launched an APSEA Facebook and Twitter presence – follow us now on @apseaawards
- started planning for the 2019 and 2020 seasons

We're really excited about this awards season! Dinner tickets are on sale now.

Queensland Spatial Excellence Awards - Friday 24th August 2018

Queensland is the first State to host the Awards this year.

You are invited to join SIBA|GITA and SSSI for an evening celebrating the brightest in our industry in Queensland on **Friday 24th August at Brisbane City Hall** from 6pm.

Tickets include drinks and canapes, a delicious two course meal and of course, the opportunity to network with professionals from across the Queensland surveying and spatial sciences industry while celebrating our awards recipients.

Tickets can be purchased through the following link: <https://www.eventbrite.com.au/e/asia-pacific-spatial-excellence-awards-queensland-tickets-46131814499>

And there is a 10% discount if you purchase a table (8 tickets)

We look forward to seeing you at the APSEA-Q Awards night..

External Events



Brisbane Geospatial Network

Wednesday 1 August 2018
5pm to 7pm AEST
Dining Car, Grand Central Hotel (beneath Central Station)
270 Ann Street
Brisbane, Queensland 4000

Brisbane Geospatial Network (BGN) is Brisbane's most successful monthly geospatial networking event, with 300+ active members and up to 50 participants attending each event.

Please come and join us for a few drinks at our favorite venue (the Dining Car, which is the little room between the Main and Platform Bars) at the Grand Central Hotel - close to public transport).

You can chat to other local geospatial professionals, and learn more about what's happening in the Brisbane GIS community.

As always, it's FREE to attend. The bar, with plenty of beer varieties and snacks to purchase, is close at hand.

[Register here](#)



World of Drones Congress 2018

Brisbane Convention & Exhibition Centre
August 9 and 10 2018

SIBA|GITA CEO Deanna Hutchinson will be speaking on "Geospatial in Australia; the next ten years"

The World of Drones Congress brings together industry and government leaders with drone experts and enthusiasts to discuss, display and explore all things drone-related. Around the world, drones are increasingly being used for a wide range of applications – from data collection to defence, photography to agriculture, and recreational to humanitarian purposes.

Last year's inaugural World of Drones Congress in Brisbane attracted more than 630 delegates from across the Asia-Pacific and beyond, and featured an extensive conference program, drone expo, tournament and outreach program.

Congress topics include:

- advances in drone technology
- the 'drone economy'
- industrial and environmental applications
- drone risks, safety and regulation.

[Find out more and register here](#)



RMIT School of Sciences Geospatial Forum

Monday 13th August, 2018
3:30 – 4:30 pm
12.05.02 City Campus, RMIT University



Topic: Recent Developments in Precise GNSS-Based Positioning and Near-Term Opportunities

Presenter: Sunil Bisnath
Department of Earth and Space Science and Engineering, York University, 4700 Keele St, Toronto, ON M3J 1P3, Canada



Abstract: While GPS is considered a mature technology to most people, a great deal of research continues in the fields of GNSS-based positioning, navigation and timing (PNT). GNSS constellations are growing and evolving, bringing benefits from new signals and more measurements, and challenges from a host of measurements biases that must be managed. GNSS measurement processing has advanced to provide new and improved solutions, such as Precise Point Positioning (PPP) and more recent advances of this approach. The development of more capable low-cost hardware is being driven by commercial applications to provide greater accuracy and precision. The result is near-term opportunities for smaller, cheaper, autonomous solutions for emerging markets, such as driverless cars and UAVs in the full spectrum of outdoor environments.

Note that the seminar is free, and SSSI members can get one Continuing Professional Development (CPD) point for attendance.



BrisBIM Gathering

Wed. 22 August 2018
5:15 pm – 8:15 pm AEST
QUT – Level 6 Atrium, Science and Engineering Centre (P Block)
2 George Street, Gardens Point Campus
Brisbane, QLD 4000

The purpose of the BrisBIM Community is "to facilitate and bring together the built environment community within the greater Brisbane region, to share and exchange thoughts and knowledge in respect to technology innovation across the industry."

The committee believes in providing an avenue for asset owners, practitioners, contractors and interested parties to come together in an informal gathering to discuss, learn and share from others in the industry.

Now in their sixth year the non-profit group meets bi-monthly and presents a range of topics from technical, managerial, through to business and aspirational. We are seeking speakers from a wide variety of backgrounds. We welcome sponsors to help provide an atmosphere of support and openness in our meetings.

[Visit the BrisBIM website here](#)



ITS Summit 2018

28 August, 2018 – 29 August, 2018 all-day
ICC Sydney
14 Darling Dr, Sydney NSW 2000

ITS Australia will host the 6th Australian Intelligent Transport Systems Summit 2018 that will bring together 450+ Australian and international executives from the emerging transport technology sector over 2 days to share information, learn, do business and network.

With a conference theme of SHAPING FUTURE TRANSPORT, the Australian ITS Summit will be a multi-stream conference with over 120 speakers over 6 concurrent sessions over 2 days, Keynote and Plenary presentations, panel discussions and with optional Technical Tours.

The program has been developed from the Call for Papers and invitations to national and international industry leaders.

[Read more at ITS Website here](#)



SSSI Tasmanian Surveying & Spatial Conference 2018

Positioning, Property, People, Now

Understanding the power of the new positioning paradigm
and the intersection with people and property

Friday 14th September 2018, Launceston Country Club

SIBA|GITA CEO Deanna Hutchinson will be contributing to a Panel Session on "The Future of Professional Institutes" at 4:15pm with Paul Mather (General Manager at Acsis Ltd.) Kellie Dean (President-Elect of the Institution of Surveyors Victoria), and Peter Olah (CEO SSSI)

[Visit SSSI website here](#)



Smart Cities Week Australia 2018

October 29 – 31, 2018 | Sydney

Smart Cities Week Australia will showcase the best innovations and brightest ideas from New Zealand, Singapore, Hong Kong, Japan, South Korea and other the ASEAN nations.

This is more than just a conference – it's an experience. And this experience is at the heart of our program. Just a few of the experiences you can choose to engage with include:

The Boardroom

Focussed on dialogue around leadership, policy, and key national and regional smart cities issues

The Lab

A space for learning, testing and networking

The Institute

A space for training and education

The Stage

Showcasing, inspiring and sharing leading best practice

The Agora

The perfect platform for fast-paced presentations and interaction. You will see the latest technology up close and personal. This is official website of Smart Cities Week Australia 2018. Learn more here.

[To Register and Find out more, click here](#)



Australian Esri User Conference

Ozri 2018 is this year's best opportunity to expand your GIS knowledge and network with your geospatial peers.

Registrations are now open for the Australian Esri User Conference. Tickets are strictly limited – so get in early to secure your place at Ozri 2018.

[View Preliminary Program](#)

[Secure your seat](#)



Pacific GIS and Remote Sensing Council (PGRSC) User Conference 2018

Theme: "Transforming Pacific Resources and Infrastructure Management Using GIS&RS"

Conference Content: Day 1: Organisations and Data, Day 2 and 3: Forestry and Land Use, Disaster Applications, Software and Cloud Computing, Marine Applications, GNSS and Geodetic Issues, Geospatial Education and Training.

SIBA|GITA Asia Pacific Spatial Excellence Awards will be presented at the closing cocktail event on Thursday 29th November.

Dates: 26th-30th November 2018

Location: Suva, USP Japan Pacific ICT Auditorium

[Click here for more information](#)

Job Seekers

In this Newsletter section we post details of students seeking employment through Destination Spatial Queensland.

Kieran Anderton:

Education:

Apr. 2017 – June 2017: Certificate III in Screen and Media - QSFT

Feb. 2016 – Feb. 2017: Certificate III in Surveying and Spatial Information Traineeship, Logan City Council

June 2015 : Cert III in Information, Digital Media and Technology (Network Administration)

2005 – 2015: (Grade 12) Emmaus College, Jimboomba, Queensland

Skills:

Microsoft Word, Microsoft Powerpoint, Microsoft Outlook, Adobe After Effects CS6
Adobe Photoshop CC, Adobe Dreamweaver CS6, Sony Vegas Pro 12,
ArcMap/ArcGIS programs, MeshLab, AutoCad 2010, Autodesk Inventor 2010

About Kieran:

When working for Logan City Council I enjoyed Surveying work thoroughly and was trained in using equipment; such as theodolites, Prisms and Levels. I worked with senior surveyors on jobs around the Logan area while completing study online for the Canberra Institute of Technology. During my traineeship I found the work to be challenging and liked the balance of both indoor and outdoor aspects of the job. This has contributed to the choice in my career.

Contact: kierananderton9@gmail.com
Phone: 07 5548 7420 / Mobile: 0405 671 098

For more information and access to student's CV's please
contact: chipwa@cookiedoughmarketing.com.au

Calendar

APSEAs

Queensland - 24 August 2018
Victoria - 4 October
Tasmania - 14 September 2018
Western Australia - 19 October 2018
New Zealand - 17 October 2018
South Australia - 26 October TBC
New South Wales & ACT - 29 November 2018
Pacific Islands - 29 November 2018

Locate'19

Melbourne 8 - 10 April 2019

Corporate Sponsors

