

Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter from the [Global Spatial Data Infrastructure Association \(GSDI\)](#) which is available in both English and Chinese language versions. The newsletter is produced for people interested in Spatial Data Infrastructure, GIS, remote sensing and geospatial data issues in Asia and the Pacific. It aims to raise awareness and provide useful information to strengthen SDI initiatives and support synchronising these activities across the region. Support for the newsletter is also provided by the [Permanent Committee on Geographic Information for Asia and the Pacific \(PCGIAP\)](#), a regional forum to enhance cooperation in the development of a regional geographic information infrastructure. The newsletter is currently being produced for GSDI by the [Centre for Spatial Data Infrastructures and Land Administration](#) at the University of Melbourne.



To subscribe to SDI-AP use [this link](#). Back issues of the newsletter are at the [GSDI website](#). You can also sign up for [GSDI News List](#) to receive alerts of special news and announcements as well as notification of new issues of the SDI-AP newsletter. To subscribe and access archives of thematic or regional discussion lists [please visit](#).

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## Message from the editors

Welcome to the September issue of the newsletter for the year 2012.

If you have news or information related to SDI, GIS, RS or spatial data that you would like to share with the community (e.g. workshop announcements, publications, reports, websites of interest etc.), kindly [send us](#) the materials by the 25<sup>th</sup> of the each month for your contribution to be included in the next newsletter.

Malcolm Park and Serryn Eagleson ([Editors](#)), at the [Centre for Spatial Data Infrastructures and Land Administration](#), The University of Melbourne.

## Contributions

Thank you to the following people and organisations for their contributions to this issue: Baek Wonkug for news feeds, Sean Lin and Bruce Lan and colleagues for the Chinese translation as well as Shivani Lal, *G/S Development, GeoSpatial World* and *Asia Surveying & Mapping* magazine for directly contributing to the newsletter.

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## GSDI News

### **[International Geospatial Society \(IGS\) Free Memberships](#)**

At its recent meeting, the GSDI Board of Directors passed a motion that allows individuals in low and very low income nations to join the International Geospatial Society (IGS) by providing specific information of value to the global community in lieu of annual cash dues. To join, simply add your professional profile to the growing interconnected network of geospatial specialists across the globe. Benefits of membership in IGS are listed at <http://www.igeoss.org/benefits>. For further information, contact [Harlan Onsrud](#), Executive Director, GSDI Association.

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## SDI News, Links, Papers, Presentations

### **[Indonesia: launch of geoportal for disaster mitigation](#)**

The Geospatial Information Agency, formerly known as the National Coordinating Agency for Surveys and Mapping or BAKOSURTANAL, launched an [interactive map](#) called "Ina-GeoPortal" which aims to assist public sector organisations in their disaster mitigation and environmental conservation efforts.

The Ina-GeoPortal will give government agencies and the general public real time access to authoritative spatial information on areas that are prone to natural disasters such as earthquakes and floods.

According to a report from the United Nations International Strategy for Disaster Reduction, Indonesia is vulnerable to natural disasters such as tsunami, landslide, earthquake and flood. Out of the 4408 natural disasters that have occurred over the past years in Indonesia around 70 have been caused by earthquakes, two by tsunami, 24 by volcanic eruptions, and 470 have been brought about by landslide events.

With the Ina-GeoPortal in place, first responders and decision makers in government agencies will be able to plan, organise and coordinate emergency response activities in an integrated manner. The information available in the portal will heighten their overall situational awareness enabling them to arrive at well informed decisions during such critical times.

The portal uses the same system as Google maps but has more accurate coordinates and content which is provided by various government agencies. In addition, it can be linked to the US Geological Survey so that users can view historical data on earthquakes that occurred in Indonesia.

Ina-GeoPortal is part of Indonesia's National Spatial Data Infrastructure. It was introduced in 2011 as tool that would help disseminate geospatial information between agencies to reduce duplication, improve data quality and save production costs.

### **[Indian state to develop spatial data infrastructure](#)**

Haryana Space Application Centre (HASRSAC) is developing Haryana Spatial Data Infrastructure (HSDI) to provide satellite data and thematic maps to user departments for planning and monitoring various programmes and schemes.

Source: Geospatial World

### **[Turkey conducts national spatial data infrastructure feasibility study](#)**

Turkey has a long history of protection of property rights. More than 99 percent of land in Turkey is mapped and registered, and the Turkish Land Registry and Cadastre Agency (TKGM) completed the registration by 2008. Nevertheless, significant improvements are needed to fully modernise the TKGM and bring it at par with the European standards. Depending upon the core data set cadastre, TKGM has been implementing some projects which will support NSDI portal.

Source: Geospatial World

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## SDI Spotlight



This month's "Spotlight" feature is from **Ali Aien** who is a PhD candidate and member of the Centre for Spatial Data Infrastructures and Land Administration (CSDILA) within the Department of Infrastructure Engineering at the University of Melbourne. Ali's main focus is the "3D Cadastral Data Modelling" research project which is currently under investigation by the researchers at CSDILA. In fact, this "Spotlight" feature is an update to those previously published in October 2010 (Vol.7, No.10) and November 2011 (Vol.8, No.11).



### 3D Cadastral Data Modelling



Cadastrals as the engine of land administration systems while integrated with spatial data infrastructures (SDI) are required to help manage interests in land and its resources. Until the present, land administration systems have used 2D land parcels as a base to determine, record and disseminate required information regarding land. Land administration systems should be complete, comprehensive, and constant to enable sustainable development. However, they are 2D and cannot adequately manage and represent the real 3D world.

The cadastral map should be able to represent and also provide spatial information related to land rights, restrictions and responsibilities (RRRs) not only in 2D space for land parcels, but also in 3D space for 3D properties, apartment units and underground infrastructures. Such a system can be described as a 3D cadastre.

3D cadastres would assist management of 3D RRRs. A 3D cadastre should be capable of storing, manipulating, querying, analysis, updating, and supporting the visualisation of 3D land rights, restrictions and responsibilities. 3D cadastral aspects should be considered in any modern system. The legal, institutional and technical aspects of a 3D cadastre provide the framework for its successful development and implementation. However, data modelling is one of the most important elements of a successful 3D cadastre. As architectural models of houses and high rise buildings help their users visualize the final product, 3D cadastre data model supports 3D cadastre users to understand the structure or behavior of the system and has a template that guides them to construct and implement the 3D cadastre.

Many jurisdictions have developed their own cadastral data model. Examples of data modelling developments are the core cadastral data model, FGDC Cadastral Data Content Standard for the National Spatial Data Infrastructure, ArcGIS Parcel Data Model, ePlan, Legal Property Object, and ISO 19152- LADM. The variation between these data models is evidence of the varying expectations of a 3D cadastre. However, there is a basic common thread among them all. Existing cadastral data models have been developed based on the definition of a 2D land-parcel, while 2D land-parcel is no longer an efficient spatial component for cadastres.

This research aims to develop a developed 3D Cadastral Data Model. This data model includes 3D cadastral objects and (3D legal and physical objects) and provides a practical framework to model 3D cadastral requirements.

#### More Information

For more information about this research project, [please visit](#).

A list of publications related to this research project are:

Aien, A., Rajabifard, A., Kalantari, M., Williamson, I., Shojaei, D., (2012). Developing and Testing a 3D Cadastral Data Model- A Case Study in Australia (2012). ISPRS Annals of Photogrammetry, Remote Sensing and the Spatial Information Sciences. Volume I-4, pp.1-6, Melbourne, Australia.

Aien, A., Kalantari, M. Rajabifard, A., Williamson, I., Bennett, R., (2011). Advanced Principles of 3D Cadastral Data Modelling, 2<sup>nd</sup> International Workshop on 3D Cadastres, 16-18 November, 2011.

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Aien, A., Rajabifard, A., Kalantari, M., Williamson, I., Shojaei, D., (2011). 3D Cadastre in Victoria, Converting Building plans of Subdivision to LandXML. *GIM International*, 25(8), 16-21.

Aien, A., Rajabifard, A., Kalantari, M., Williamson, I., (2011). Aspects of 3D Cadastre- A Case Study in Victoria. Paper presented at the FIG Working Week 2011, Marrakech, Morocco.

The editors remind our subscribers and readers that we welcome contributions for the *Spotlight* feature.

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## GIS Tools, Software, Data

### [Sparse microwave can improve imaging performance](#)

Compared with optical sensing, microwave imaging has the ability to provide all-weather round-the-clock observation, and can be applied to deal with some special sensing requirements, including moving target detection and digital elevation model extraction.

Source: [Geospatial World](#) and Science Newsline

### [Mars rover Curiosity phones home with a Panoramic view from its landing spot](#)

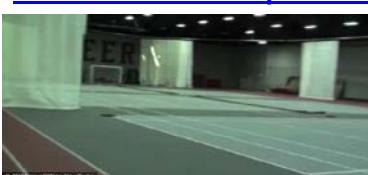


So far, most of the excitement about the Curiosity rover has sprung from its precise landing and its first surroundings, the floor of the Gale Crater. But the rover is meant to rove, and rove it will.  
 [An enlarged (or “enbiggened”) panorama can be

accessed [here](#)]

Source: The Atlantic

### [Researchers develop robotic plane that navigates without GPS](#)



Researchers at Massachusetts Institute of Technology (MIT) have developed a plane that can navigate itself without GPS. MIT researchers have developed a fixed-wing plane that can travel at high speeds while dodging obstacles and manoeuvring through tight spaces. The aircraft is able to navigate itself by using on-board sensors, a laser and a basic Intel Atom processor.

Source: [Geospatial World](#) and Daily Mail

### [Aerial imagery used in down-to-earth farming decisions](#)

Aerial and satellite mapping is becoming so sophisticated that, with additional development by researchers and commercial mappers, it will soon be available to help farmers make decisions about fertilising or harvesting crops, moving livestock, and other typical economic and land-management decisions.

The idea is not as futuristic as it might first seem. AusCover data captured from instruments aboard satellites or aircraft is being used in a variety of ways, and that includes the means to assist in sustainable land management.

At the broad continental or regional scales, the data can help monitor seasonal changes in vegetation cover, land degradation, and habitat fragmentation in natural and managed ecosystems, in response to large scale climatic and other factors that affect crop productivity and ecosystem services. And at higher levels of detail, remote-sensing imagery derived from either high-resolution satellites or aircraft-mounted systems is able to provide much more detail, and in three dimensions, on the structure, physiology and precise location of different crops and forest plantations, and adjoining patches of native vegetation.

Thanks to Ross Johnson for this item

### [New Zealand NOT utilising location-based intelligence](#)

New Zealand is failing to reap the benefits of location-based intelligence because the government's Geospatial Office is tucked away as part of Land Information, said the chairman of the Spatial Industries Business Association. Huge amounts of data around place and time, which is increasingly accessed as data visualisation displays in real time by smart phone and tablet devices, could add value to New Zealand.

Source: Geospatial World and [NZ NBR](#)

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## New Zealand: report from the interoperability solution workshop held in May 2012

### Christchurch Plugfest 2012 Final Report

This report provides the context for, and details the results of, a workshop designed to improve the interoperability of Geographical Information Systems (GIS) used by the main partners in the earthquake recovery process for Canterbury, New Zealand.

The need for such a workshop, colloquially referred to as a plugfest, was identified as a priority task during the scoping the Canterbury SDI Acceleration project, the background to which is described in more detail in Section 1.1.

The report is written for both the New Zealand and international audience. Decision makers should focus in on this summary and the conclusions and recommendations in section 8, whilst those involved with geospatial information as practitioners or managers will hopefully find the whole report informative.

The plugfest concept is centred on a short-duration, collaborative and hands-on event - a formula that has been well proven for GIS interoperability in other geographies and applied successfully to other software development challenges. The core element of the plugfest is that engineers from all parties bring their services to the table (literally), and connect them to enable cross-agency and cross-system workflows to be tested and solutions to existing issues resolved quickly and pragmatically. Central to the success of this plugfest was the support and active participation of Stronger Christchurch Infrastructure Rebuild Team (SCIRT), Christchurch City Council (CCC) and CERA plus their system suppliers, Intergraph, ESRI and Critchlow (NZ distributors for Pitney Bowes Software).

Watch the [Plugfest presentations](#).

Christchurch Plugfest 2012 Final Report ([PDF](#)).

## Singapore steps up geospatial capacity building

The Singapore Land Authority pushed another step forward increasing the awareness and the use of geospatial technology by awarding the winners of the annual Spatial Challenge Awards 2012.

The Spatial Challenge Awards have been organised annually since 2008, and are part of the SLA's initiatives to encourage the creative use of GeoSpatial Information and Technology in schools, as well as to equip young students with the relevant competencies and skills in order to build the country's geospatial capacity.

"SLA and the Ministry of Education (MOE) are exploring the development of a web-based application for A-level Geography students. SLA is also formulating a Geospatial Competency Framework in consultation with academic, industry and public agency partners." said Senior Parliamentary Secretary for Education and Law Sim Ann.

Supported by the Ministry of Education, the competition starts in March each year, with training sessions for both teachers and students conducted by SLA and Esri Singapore as the main sponsor.

There are 33 teams of students from 18 institutions taking part in this year's challenge and having spent six months of hard work,

The winner in the Pre-University GIS Analysis category is Team Geogability from Catholic Junior College. The runners-up are Team Space Invaders from Hwa Chong Institution (College Section) and Team Nanyang Geographers from Nanyang Junior College.

For Tertiary GIS Analysis category, the winner is Team GeoTrio from National Institute of Education, and the runners-up are Team 117570 from National University of Singapore and Team GTMS from National Institute of Education.

The winner in the Tertiary GIS Application category is Team Edify from Nanyang Polytechnic, followed by Team Mapwork from Singapore Management University and Team Razzle Dazzle from SIM University.

The Spatial Challenge competition was firstly introduced in 2008 with the aim of increasing the awareness of geospatial technology among students and encouraging the innovative use of GIT in schools. It is supported by the Ministry of Education. Each year, the competition starts in March, with training sessions for both teachers and students conducted by SLA and Esri Singapore, the main sponsor and the world's leading GIS software company.

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## Hurricanes, cyclones and typhoons mapped magnificently as Hurricane "Isaac" menaces New Orleans



Source: Melbourne Herald-Sun and [Atlantic "Cities"](#)

The latest creation of information architect John Nelson, who has previously charted earthquakes and tornados, this new map shows a "bottoms-up view" of known tropical storms and hurricanes dating back to 1851. The storm map offers an unusual perspective of the Earth from below, centered on Antarctica, with the rest of the planet unfurling around the southern continent like flower petals.

<http://www.heraldsun.com.au/news/world/hurricanes-cyclones-and-typhoons-mapped-magnificently-as-isaac-menaces-new-orleans/story-fnd134gw-1226459564879>

<http://www.theatlanticcities.com/design/2012/08/map-all-worlds-hurricanes-1851/3084/>

Source: Melbourne Herald-Sun and [Atlantic "Cities"](#)

## Google Traffic Conditions Maps Go Global

With more than 400 million Android smartphones in use worldwide, that each contain a Google-provided mapping function, the live traffic condition service has gone global. Every time someone uses this function they send anonymous data back to Google on position and current speed, allowing the company to provide a service that displays current conditions.

This crowdsourcing approach has enhanced the mapping, traffic, transit and directions features for these smartphone users. The more people that participate, the better the traffic data becomes for everyone.

Source: Asian Surveying & Mapping

## How public actually uses local government web maps: metrics from Denver

With ever-present budget pressures, GIS heads are wrestling with which combination of server admin and paid cloud subscriptions make the most financial sense as well as serving user needs. Having real, actual data enables a useful discussion of the ROI of web mapping services. In Denver, Colorado, Allan Glen, head of the city's web GIS team has collected granular usage data that provides a glimpse into how the public actually uses maps. Starting last November, Denver's team started rolling out "single-topic" maps (e.g. city parks) as embeddable widgets throughout the city's website as a complement to the more typical everything-but-the-kitchen-sink map "portal". This blog highlights some of the findings.

## Soils-to-Satellites tool

One of the great challenges to increasing the sustainability of land management is the need to integrate many different kinds of data at many different scales. In a step towards addressing this problem, cyber-infrastructure professionals from a number of the Australian Government's National Collaborative Research Infrastructure Strategy (NCRIS) program capabilities, including TERN, have joined forces and been awarded funding from the Australian National Data Service (ANDS) to build an online tool called Soils-to-Satellites. Among those involved is Mr Craig Walker, the Director of TERN's Eco-informatics facility at the University of Adelaide.

'This one-year project unifies and combines spatial, multi-spectral remote sensing, ecological and genomics data in a single tool to meet the interdisciplinary data needs of scientists studying and managing Australian terrestrial ecosystems,' says Craig. 'Soils-to-Satellites will enable data users to analyse and display different types of research data more effectively.'

Thanks to Ross Johnson for this item

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## News from abroad

*"This section has been included to highlight some of the developments happening outside the region which demonstrate SDI in action.*

## UNITED KINGDOM: Ordnance Survey Goes International

From September 2012, the UK geospatial information agency Ordnance Survey will be launching a new international organisation, Ordnance Survey International. It will harness the skills and expertise within

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Ordnance Survey to primarily support other national mapping agencies and countries. Ordnance Survey International will be headed by Steven Ramage, former executive director at the Open Geospatial Consortium (OGC), a global body developing open geospatial standards.

The aim is to provide advice and services across the full spectrum of Ordnance Survey's expertise, including data collection and maintenance, product development and geospatial data management.

.... Over the last decade, Ordnance Survey has frequently engaged with international audiences, either through overseas visits to Ordnance Survey or via the established Cambridge Conference. Staff from Ordnance Survey have also delivered a number of presentations, sharing knowledge and best practice, at many high profile overseas conferences. Last year Dr Lawrence, undertook an investigation into the spatial capability of Australia. The study was commissioned by the Australian Government and was carried out in 2011 by Vanessa, acting on behalf of the British Government.

### [Are Our Transit Maps Tricking Us?](#)

Public transit maps are distorted, quite on purpose. All of them enlarge city centers. Many use a fixed distance between stations out in the boonies, even if, in reality, they're spaced wildly differently. Curvy lines are made straight.

Transfers are coded with dots, lines, and everything in between. ...

Not that transit map distortions are malicious. A lot of these simplifications are necessary for good design. If people could keep a geographically accurate map in their heads, we might use them more—but, as we've known for decades, we can only remember so many discrete bits of information at once (between five and nine, as per George Miller's seminal 1956 paper, "The Magical Number Seven, Plus or Minus Two").

Schematic maps, by necessity, balance between detail and readability. "If you try to get everything in, it becomes meaningless, usually," says Lance Wyman, who designed D.C.'s Metro map more than 30 years ago

Source: Atlantic "Cities"



### [Chile to save USD 15 mn using GIS model](#)

A new GIS-based tool, Mapping Urban Parcel (CBPU), will be introduced soon in Chile. CBPU is expected to be operational throughout Chile by 2016. This tool will provide information like, location of police stations, hospitals, risk areas, houses affected to disaster etc. So far, this information came from outsourced companies. But now, Chile hopes to save around USD 15 million through this state owned tool, according to a report published in [df.cl](#).

Source: Geospatial World

### [Brazil to have a national agency for cartography](#)

Source: Geospatial World

### ["Crowdsourcing": Looking at New Ways to Map Structures in Colorado](#)

In light of swiftly changing technical landscapes and increasing uses of social networking, the USGS is exploring a new approach to the volunteer program, and is launching a project to test options for volunteer participation in providing data to [The National Map](#).

USGS News release

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## Articles

### [Making City Biking Less Scary](#)

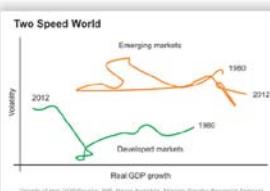
Peter Furth (a civil and environmental engineering professor at Northeastern University and co-author of [a new report](#) out from the Mineta Transportation Institute that looks at how varying levels of "traffic stress" on different city streets can limit where people are willing to ride) and his colleagues mapped out the different levels of stress on the streets of San Jose, California, and they find that while many streets are calm enough for most riders, they're sliced up by streets with high levels of stress. High-stress streets are measured as those with high speed limits, limited or non-existent bike lanes and signage, and large distances to cross at intersections.

Source: The Atlantic "Cities"

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## Cadastre & land administration: Living in a two-speed world by Bhanu Rekha



The structure of world economy is changing dynamically in important ways, with effects that are difficult to predict. The great financial crisis that hit the West hard had left many countries facing a period of negative growth, budget deficits and high unemployment. However, China, India and the East registered strong economic growth during this period and since then, the world seems to be moving at two different speeds - that of the more developed world (characterised by high debt, low economic growth and low population growth) and that of the less developed world (characterised by low debt, high economic growth and high population growth) (As shown in Figures 1 and 2). Experts predict that probably in the next 10 years, these two worlds, moving at two different speeds, will reach a balancing point where they will contribute equally to the world GDP.

Source: Geospatial World

## The 'cadastral divide': A view from the bridge by Rohan Bennett

Many of the world's most developed property markets sit idle today: land values are down, new loan approvals have fallen and fewer building permits are being issued. Revival attempts through tax breaks and reduced transaction costs appear to have failed, at least for the short term.

What caused this stagnation? Mainstream media tells the story of the subprime mortgage collapse in the United States, of the resultant freeze in global credit supply, of government funded stimulus packages and more recently, of the European debt crisis and subsequent bailout attempts. We're all familiar with the key events, players and processes.

In parallel, the geospatial community has undertaken its own analysis. In particular, those professionals involved in land administration have asked the question: "What role did our cadastres and land registries play in all this?"

Source: Geospatial World

## India's Trickiest Urban Planning Obstacle? Gandhi's Legacy by Mark Bergen

Urbanization in India is inevitable. ... Gandhi's preference for the village was primarily political, a slight against colonial rule. But since his time, the nation has gone through scores of political changes and multiple leaders named Gandhi. For urbanists here, a critical force holding India back from providing the resources to fix the problems of its cities—and unleash their potential—is the still lingering philosophy of its greatest citizen.

Source: The Atlantic "Cities"

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## Books and Journals (including Videos and Web publications)

### Next Generation Digital Earth

A paper entitled "Next-Generation Digital Earth" was published in the Proceedings of the National Academy of Sciences of the United States of America (PNAS) on 21 June 2012. The paper, meant to be an update of the Digital Earth vision given by Al Gore over ten years ago, reviews progress in Digital Earth scientific discovery, analyses current work, and forecasts future developments.

### Mapping London blog

#### The Times Atlas of London: The story of a great city through maps, history and culture

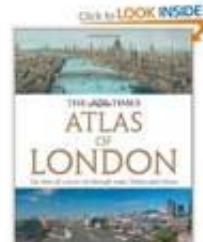
The Times Atlas of London, published by Times Books, maps the story of the capital from its humble beginnings to the megacity it is today.

This authoritative and prestigious atlas charts London's highs and lows through maps, rarely seen photographs and texts, as well as statistics, archive images, and historical accounts, giving an exceptionally detailed view of London and helping you to explore this great city. For local Londoners, tourists, and general readers wanting to find out what lies above and beneath the surface of this great city, The Times Atlas of London is the perfect place to start.

The book includes:

- 12 pages covering the history of mapping London with extracts from maps from the 16th century to the present day.

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- A comprehensive borough-by-borough guide showing how each district has developed over the years.
- An illustrated chronology of London charting its remarkable history (including articles on famous Londoners, royal London, and sport in the capital), and extensive information on its parks, rivers, climate and geology.
- Stunning images of the capital.
- Before and after aerial photography and mapping.
- Discussions of important London themes, from literary London, to the meaning of London street names; from the capital's theatre, to the famous Thames.
- Information on the make-up of London's diverse population.

**[Call for Papers: A special issue on geospatial analysis of volunteered geographic information with Computers, Environment and Urban Systems](#)**

Volunteered geographic information (VGI)

**Submission**

Original papers with a length of 6000-7000 words are welcome. To submit your paper, please follow the [journal's Guide for Authors](#). We encourage authors to consider the option of supplementary data including raw data, derived data and source codes; we particularly encourage authors to pack your supplementary data in such a manner that interested readers can easily replicate your results. Authors must select "Special Issue" while they reach the "Article Type" step in the submission process, and identify the "geospatial analysis of VGI" special issue in their cover letter. First-time users must register themselves as Author.

**Important dates:**

Paper submission due: 30 December 2012

Acceptance notification: 30 May 2013

Publication: 30 August 2013

**Editors for the special issue:**

[Bin Jiang](#), Department of Technology and Built Environment, Division of Geomatics, University of Gävle, Sweden

[Jean-Claude Thill](#), Department of Geography and Earth Sciences, University of North Carolina at Charlotte, USA

**[CALL for PAPERS Special Issue "Spatial Data Infrastructures, Cyberinfrastructure, and e-Science for GIScience"](#)**

A special issue of ISPRS International Journal of Geo-Information (ISSN 2220-9964).

**[Deadline for manuscript submissions: 30 September 2012](#)**

Recent developments in geospatial and related technologies are having profound impacts on the field of geographic information science. This special issue takes stock of these impacts through contributions from leading GIScientists working at this scientific-technological interface. An overriding goal of this special issue will be to bring much needed clarity to the broadly defined and rapidly evolving areas of SDI, cyberinfrastructure, and e-Science to provide focus and guidance to GIScientists who want to make use of stirring new developments in Information and Communication Technology such as high speed networks, high performance computing, and distributed collaborative environments.

**[FIG Publication No. 58: Spatially Enabled Society](#)**

Joint publication of FIG-Task Force on Spatially Enabled Society in cooperation with GSDI Association and with the support of Working Group 3 of the PCGIAP.



**[Cities Without Ground: A Hong Kong Guidebook](#)**



Out in September from ORO Editions, considers the city through the lens of these above- and below-ground walkways, creating the first-ever maps showing the extent and variety of these networks.

Co-authored by Adam Frampton, Jonathan D. Solomon and Clara Wong, architects and academics who spent time living and working in Hong Kong, the book comprehensively documents the walkways through highly detailed drawings and 3D models. Mostly visual, it presents a different kind of city guide, showing both how to get around within these networks and how they've developed and grown despite any formal planning or blueprint.

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## [Borderlines blog from the New York Times](#)

Countries are defined by the lines that divide them. But how are those lines decided — and why are some of them so strange? Borderlines explores the stories behind the global map, one line at a time.  
by Frank Jacobs

Frank Jacobs is a London-based author and blogger. He writes about cartography, but only the interesting bits. His other blog is [Strange Maps](#)

## [Thematic Mapping blog](#)

Terrain mapping with Mapnik

## [Blog of Ragnvald Larsen, geographer](#)

Geographer working with maps at the Norwegian Directorate for Nature Management. Part of his job is to contribute to development aid projects.

## [International Society for Digital Earth](#) - August, 2012 [Newsletter](#)

## [Thoughts on the Geospatial industry, Open Standards and Open Source](#) Cameron Shorter's blog

## [New Zealand - SDI Cookbook Chapter 6 – Government and Industry, moving forward.](#)

## [Carnival Of The Geospatialists #3 - Musings and Down-Right Cool Things Shared by the Geo Faithful](#)

## [Open Planet 5, the magazine published for the International gvSIG Conference is now available in electronic format](#)

## [SDI Magazine](#)

## [Mother Pelican: A Journal of Sustainable Human Development](#)

The January 2012 issue has been posted:

## [LiDAR News, Vol 2, No 17](#) (August 2012)

## [Think Quarterly](#) – Google's new on-line magazine

## [Coordinates](#) monthly magazine - [PDF](#) (June 2012)

## [SERVIR-Africa community news](#)

## [GISuser - GIS and Geospatial Technology News](#)

## [National Geographic website](#)

## [The Atlantic Cities website](#) including [Maps](#)

## [Professional Surveyor](#) magazine

## [The American Surveyor](#) newsletter (August 29)

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## Just for Fun!

### [The Coolest New Maps of London](#)

Some maps simply tell you how to get from here to there, but others give you a unique glimpse into the character of a place. With the eyes of the world on the Olympics for the next couple weeks, we looked to the blog [Mapping London](#) for some cartographic insight into the host city.

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Source: The Atlantic "Cities"

## [The Geography of America's Music Scenes](#)



Where are America's leading centers for musicians and the music industry? It's an intriguing question since musicians are mobile with little to tie them down, even compared to high-tech industries and workers which tend to grow up around universities, advanced industries and centers of venture capital.

Numerous U.S. cities have staked claims as leading music centers. Seattle had its grunge, Chicago has electric blues, and Nashville its twang. Detroit was the birthplace of both Motown and the hard-edge distorted indie rock of The White Stripes. Austin has Stevie Ray Vaughn, Willie Nelson, and a host of legendary singer-songwriters. Then

there's of course New Orleans jazz, brass, and funk; San Francisco's psychedelic sound; and the reverb-soaked rockabilly that is inextricably associated with Memphis's Sun Records.

Source: The Atlantic "Cities"

## [John Marshall's Atlas to Marshall's Life of Washington](#)

Both the first and second editions of John Marshall's *Life of [George] Washington* feature an "Atlas" of handsome maps of various regions and locales as they appeared at important points in Washington's career. (Nowadays, the text-filled volumes of the *Life* are easy to find, but the atlases are rare and expensive to the point of inaccessibility. So, the *Green Bag* is sharing an atlas on pages 453-462 below – in black-and-white print and color pdf)

Source: The Green Bag



## [Scientists release biggest 3D map of the sky](#)

Scientists at the Sloan Digital Sky Survey III (SDSS-III) have released the biggest three-dimensional map of the universe ever created.

Source: The Age

## [Microsoft Research WorldWide Telescope](#)

### [The Geography of Craft Beer](#) by Richard Florida

*Atlantic Cities*' tracked down the most current brewery figures (through the end of 2011) by state from the Brewers Association, and the Martin Prosperity Institute's Zara Matheson mapped them.

Source: The Atlantic "Cities"



## [Hong Kong Walkways](#)

Co-authored by Adam Frampton, Jonathan D. Solomon and Clara Wong, architects and academics who spent time living and working in Hong Kong, the book comprehensively documents the walkways through highly detailed drawings and 3D models. Mostly visual, it presents a different kind of city guide, showing both how to get around within these networks and how they've developed and grown despite any formal planning or blueprint.

Source: The Atlantic "Cities"

## [Disease Maps Pinpoint Origin of Indo-European Languages](#)

Turkey might be the geographic origin of languages from English to Hindi, according to epidemiological tracking techniques.

### **Abstract:**

There are two competing hypotheses for the origin of the Indo-European language family. The conventional view places the homeland in the Pontic steppes about 6000 years ago. An alternative hypothesis claims that the languages spread from Anatolia with the expansion of farming 8000 to 9500 years ago. We used Bayesian phylogeographic approaches, together with basic vocabulary data from 103 ancient and contemporary Indo-European languages, to explicitly model the expansion of the family and test these hypotheses. We found decisive support for an Anatolian origin over a steppe origin. Both the inferred timing and root location of the Indo-European language trees fit with an agricultural expansion from Anatolia beginning 8000 to 9500 years ago. These results highlight the critical role that phylogeographic inference can play in resolving debates about human prehistory.

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Source: Scientific American, [Science](#), and [Nature](#)

## [\*\*Maps of the Day: 33,000 of Them, At Your Disposal\*\*](#)

Rumsey is a former real estate developer who has over 150,000 maps in his San Francisco house, making it, "one of the finest private collections in the world." The maps are just a click away from your perusal.

Rumsey has uploaded some 33,000 maps to his website, the [David Rumsey Map Collection](#), where you could spend your entire life looking at a new historical map every day. You can browse the maps in brilliantly high resolution the old-fashioned way, or you can open a version of Google Earth that lays them over satellite imagery at scale. Using a slider to adjust the opacity of the map, you can move back and forth from cartography to satellite images, studying everything from urban development in Washington D.C. to the shifting course of the Mississippi to the accuracy and inaccuracy of the mapmakers of yore.

**It's one of the most dangerous tools of procrastination we have ever seen.**

Source: Atlantic "Cities"

## [\*\*The Future of Aerial Mapmaking: Cheap Helium Balloons\*\*](#)

The Federal Aviation Administration doesn't particularly like amateurs piloting unmanned aircraft over our city streets. (This is also why commercial drones for domestic use, in their various forms, are still a ways off). But here's a catch: no one says you can't do your own aerial map-making of cities and landscapes with a balloon. Or a kite.

The [Public Laboratory for Open Technology and Science](#), a project of Long's with several partners, actually sells a \$95 DIY balloon mapping kit that will get you started. "The design of the platform is very specific so it doesn't fall within regulations," Long says. "By that I mean you can pretty much do whatever you want with this thing."

Public Lab does, however, recommend that you stick with some basic FAA rules to stay on the safe side. Don't float these things – they come with 1,000 feet of line – within five miles of an airport. Also, pretty much the entire city of Washington, D.C., is off limits. Outside of these guidelines, though, you can strap a basic camera to one of Public Lab's balloons (they recommend strapping down the camera in continuous drive mode) to create aerial maps of significantly better resolution than Google Earth's.

At this distance, you can get down to the centimeter, enough to capture the dotted lines on a road, or the tiles on a roof. You can even differentiate plant species, a valuable tool for scientists who might use these DIY images to track soil erosion or sensitive wetlands. The whole idea is an ingenious mix of high and low tech, of rubber bands and helium and open-source software (Public Labs also has a platform called [MapKnitter](#) that will help you stitch the images together into one big mosaic). But aside from its basic techie appeal, this tool is trying to take map-making – for centuries the province of people who are in charge – and give the rest of us that power, too.

Source: Atlantic "Cities"

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## Training Opportunities

### [\*\*INTERNATIONAL WORKSHOP: Geographic Information Systems \(GIS\) Applications in Public Health\*\*](#)

October 8 - 12, 2012, New Delhi, India (5-day course)

USAID's MEASURE Evaluation Project is pleased to announce an international workshop on Geographic Information Systems (GIS) Applications in Public Health, for English speaking professionals. The workshop is sponsored by the Public Health Foundation of India (PHFI), New Delhi, India in collaboration with MEASURE Evaluation.

Taught in English, the course is designed for mid-level health and population officers, program managers, and other professionals involved with the implementation of population, health and nutrition programs. Participants should be involved with analysis of health and population related data for delivery of health services or teaching and training. The workshop will cover the concept of GIS, Use of GIS in Public Health, Preparing databases for GIS, and preparing GIS output from data, and application of GIS software.

The total course fee for the workshop is US\$2,200. The total course fee includes the workshop tuition, accommodation, partial board (breakfast daily and lunch on weekdays), and round-trip airport transfers. These costs do not include airfare, visa fees, or other expenses.

**Applications must be submitted to PHFI by September 7, 2012.**

A limited number of MEASURE Evaluation fellowships are available to qualified candidates from USAID-

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assisted countries in the Asia, Middle East and Eastern Europe regions.

For more information, contact the MEASURE Evaluation [Training Officer](#) or fax: (919) 966-2391, or visit

MEASURE Evaluation's [website](#) and click on "training"

Brochure [available](#) and [Application](#).

Learn more about [MEASURE Evaluation](#).

## **GIS Class at Kruger National Park**

Juniper GIS is offering a five and a-half day conservation oriented GIS class at the South Africa Wildlife College, near Kruger National Park, **October 28 - November 3, 2012**. The cost is \$575 USD, including lodging and all meals if you sign up before September 1. This class is confirmed, but there are still a few seats available.

## **Indepth Research Services (IRES) e August - September 2012 Training workshops**

to be conducted in Nairobi, Kenya.

The training courses are mapped against current industry Standards, and are constantly updated and reviewed to reflect the latest industry developments and techniques.

- Use of GIS and Remote Sensing in Disaster Risk Management (10th - 14th September 2012)
- Data Management and Analysis for Monitoring and Evaluation (M & E) in Development Programmes (17th - 21st September 2012)
- Use of GIS and Remote Sensing in Climate Change Analysis and Adaption (24th - 28th September 2012)
- Processing & Analysis of Data for Surveys/Assessments (Methodology and Software) (1st - 5th October 2012)

To participate in any of these workshops, [register online](#).

## **Crossrail, Bentley launch UK's first dedicated BIM academy**

Crossrail and Bentley Systems launched a dedicated Information academy to provide hands-on training to the Crossrail supply chain on the latest technology and software being used to design and build the new railway including Building Information Modelling (BIM).

The academy is an undertaking of the technology partnership created earlier this year between Bentley Systems and Crossrail Limited. The information academy will capture, develop and share BIM best practices with the Crossrail supply chain. The increased use of BIM by industry is a key element of the Government Construction Strategy.

Source: Geospatial World

## **Course Spotlight: Master of Spatial Information Science**

The University of Melbourne [Course Spotlight: Master of Spatial Information Science](#)

Spatial information is an essential and indispensable part of any economy's infrastructure. It is needed in all walks of life and on many scales, with applications in land tenure systems, environmental modelling, food production, disaster management, climate change modelling, engineering, architecture and urban planning. Current industry shortfalls in spatial information practitioners combined with a growing demand in Australia and internationally, ensure graduates a range of well-paid job opportunities.

Find out more about the [Master of Spatial Information Science](#), as well as our [scholarship opportunities](#).

## **Learn to Use HTML5 with Esri ArcGIS**

Get a brief introduction to HTML5 and learn how to use HTML5 technologies with the ArcGIS API for JavaScript and ArcGIS Online.

Source: GIS User and [ESRI](#)

## **Large-Scale 3D Laser Scanning: The Complete Process**

Don't worry if you missed the live webinar, "Large-Scale 3D Laser Scanning: The Complete Process". It's now available online for you to watch any time!

## **e-Learning for the Open Geospatial Community**

We are pleased to inform that the course repository for the ELOGeo (An e-Learning Framework for Using Geospatial Open Data, Open Source and Open Standards) project is ready.

ELOGeo is a JISC-funded project based at the Centre for Geospatial Science, the University of Nottingham in partnership with the Mimas Centre of Excellence at the University of Manchester. ELOGeo main collaborators are Open Source Geospatial Foundation, Open Geospatial Consortium (OGC), Ordnance Survey, Open Nottingham, International Cartographic Association (ICA) and gvSIG Association.

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[More details of ELOGeo.](#)

## [gvSIG Training platform opens with a first course for gvSIG users](#)

The gvSIG Association tries to increase its learning offer through online courses, publishing a new learning platform: gvSIG Training. In parallel, the gvSIG Association launches its official certification program. It's a step forward in the training processes in free geomatic, creating an online training centre, that contributes to the spreading as well as to the sustainability of the gvSIG project. Training without geographic barriers, and with the best professionals.

In this platform, you will find courses in several languages to learn to use the different applications of the gvSIG project, in a user level as well as in a developer one. The courses list will be extended gradually with different gvSIG and free geomatic specialization courses (databases, map servers...), with the objective of covering the different needs of the Community.

The courses offered by gvSIG Training are part of the training routes that are required to obtain the gvSIG official certification.

For further information:

- gvSIG Training: <<http://gvsig-training.com/>>
- gvSIG Certifications: <<http://www.gvsig.com/services/certification>>

## [GIS Courses by Distance Education](#)

### [NSW Riverina Tafe](#)

The courses listed below are all full Geographic Information Systems courses which can be studied over a number of semesters by distance study pathways.

[Certificate III in Spatial Information Services \(GIS\)](#)

[Certificate IV in Spatial Information Services \(GIS\)](#)

[Diploma of Spatial Information Services \(GIS\)](#)

Source: [NSW River](#)

## [Participatory Spatial Information Management and Communication Training Kit now available on-line](#)

Co-published by CTA and IFAD in English and Spanish, the Training Kit is a unique product that can be tailored to meet user needs, ensuring that employees get the best training available on Participatory Spatial Information Management and Communication.

The online version was launched at the beginning of March 2011. The DVD version was launched in December 2010. The Training Kit contains 15 Modules, each presented through a series of Units. Modules cover the entire spectrum of good developmental practice – from mobilising communities to developing a communication strategy based on the outcome of participatory mapping activities. The Modules touch on topics such as the fundamentals of training, ethics and community groundwork and processes as well as the more technical low-, mid- and high-tech participatory mapping methods.

Users decide what they want to cover and when. The product has been developed using the Multimedia Training Kit (MMTK) approach – which allows you to pick and choose those Modules, Units and components that best suit your particular requirements and develop a curriculum to suit your specific needs.

**Publishers:** Technical Centre for Agricultural and Rural Co-operation ACP-EU (CTA), Wageningen, The Netherlands and International Fund for Agricultural Development (IFAD), Rome, Italy

Source: [The Centre for Agricultural and Rural Cooperation](#)

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## Funding Opportunities, Awards, Grants

### [FIG Foundation PhD Scholarships 2012](#)

The FIG Foundation will be providing scholarships of up to 4,000 euros to PhD students.

Applicants shall:

1. be studying for a PhD degree and registered solely in a surveying/geomatics academic programme that teaches surveying in a country listed by the [World Bank as a low-income, lower-middle or upper-middle income economy](#),
2. must have had a paper accepted by a peer reviewed international journal based on their doctoral research project; applicants should be the lead author, and the paper should be co-authored with their supervisor,
3. should not have submitted their final thesis at the application deadline.

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Applications will be judged on the quality of the application and need. In the event that two excellent applications are judged to be of equal quality, applications from low-income and lower-middle income countries will be preferred.

Applications are to be sent to [fig@fig.net](mailto:fig@fig.net) with "FIG Foundation PhD Scholarship Application" shown in the Subject Line.

Complete details can be found at: [www.fig.net/figfoundation](http://www.fig.net/figfoundation)

**Deadline 1 November 2012**

### Ideas Challenge

The Ideas Challenge is at the core of the GMES Masters competition. It invites students, entrepreneurs, start-up companies and SMEs to submit their ideas for an innovative commercial use of GMES to a secure online database on the GMES Masters website. The best idea for a commercially viable business idea using GMES data will be rewarded. The winner will be rewarded with a cash prize of EUR 10,000 as well as the chance to get his idea further developed in one of the six ESA Business Incubation Centres (BICs). The incubation package has a value of up to EUR 60,000.

### ESA App Challenge

The European Space Agency (ESA) will award the ESA App Challenge to the best application idea for the usage of GMES on mobile phones. Proposals shall address one or more GMES main thematic areas (land, marine environment, atmosphere, climate change, emergency management). ESA is looking for ideas that can be implemented quickly into a profitable business. The application should consist of a base app containing info and news on GMES, as well as one or more specific content modules that provide relevant location-based data to users in real time. The winner will be considered for support by one of the six European Space Agency's Business Incubation Centres (ESA BICs) across Europe (value up to EUR 60,000).

### European Space Imaging High-Res Challenge

European Space Imaging (EUSI) is Europe's leading provider of Very High-Resolution (VHR) satellite data. EUSI will award the best application idea using the most advanced VHR satellite data. Application ideas which are easily implementable, sustainable, cut costs and create efficiencies are of high interest. Participants are required to submit detailed application ideas including business concepts. The winner will be awarded a data package of EUSI satellite data worth up to EUR 20,000 for use in further developing the winning application.

### DLR Environmental Challenge

DLR is looking for new applications in Earth observation, especially proposals addressing the mapping of the environment and climate. Ideas for using Earth observation to manage sustainable supplies of energy are also welcome. In addition to any kind of non-satellite geoinformation, proposals should be based on existing or imminent Earth observation satellite data that is available either for free or under commercial terms. The product or service generated from the idea should support either professionals from organisations and companies in environmental assessment, or the general public and consumer-oriented markets. Both regional and global applications and services are possible. Innovative ways to link the service with users are especially encouraged. The ideas should also describe a realistic scenario for their implementation involving either the general public or commercial benefits. The winner(s) will receive a voucher for a workshop or initial coaching according to what further realisation of the idea requires.

### Best Service Challenge

The Best Service Challenge invites service providers to upload profiles of their existing services within the main thematic areas of GMES to the GMES Masters competition website. The Best Service Challenge aims at increasing the awareness of existing Earth Monitoring Services and their benefits to European citizens. The winner of the Best Service Challenge will benefit from a substantial satellite data quota made available with financial support by the European Commission.

### GMES Masters 2012 call for proposals

The GMES Masters rewards on an annual basis the best ideas for services, business cases and applications based on GMES data, with the aim to foster product development and entrepreneurship in Europe. Initiated by the European Space Agency (ESA), the Bavarian Ministry of Economy, the German Aerospace Center (DLR) and T-Systems, and supported by the European Commission and European Space Imaging GmbH, the GMES Masters 2012 will call for proposals between 1 June and 16 September 2012 in six categories.

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## T-Systems Cloud Computing Challenge

T-Systems will award the prize for its Cloud Computing Challenge to the best GMES application or service idea that will make use of the cloud computing model Infrastructure-as-a-Service (IaaS) to provide Earth observation data on demand via user-oriented web portal or mobile devices. T-Systems will assist the winner in getting the awarded project off the ground. They will support the winner to realise an innovation project, which could lead to a long-term partnership.

## Challenge to spur the geospatial industry

The Singapore Land Authority has launched OneMap Challenge that seeks to promote the development of innovative map-based desktop and mobile applications by businesses and the community.

The OneMap Challenge provides a platform for application developers to showcase their creativity through the apps they develop to an increasingly tech-savvy population and enterprises, including those represented by the Association of Small and Medium Enterprises (ASME) which is one of the competition promotion partners. The Challenge also aims to facilitate collaborations between potential business partners for creating location-based apps that are useful for business enterprises and the general community.

With two top prizes of \$20,000 cash each and other attractive prizes up for grabs, the OneMap Challenge is divided into two categories – Web Applications for applications that run on web browsers and Mobile Applications for those that run on smart phones, tablets and other portable devices.

Visit <http://www.sla.gov.sg/OneMapChallenge> to learn more about OneMap Challenge and check out the OneMap Facebook page at [www.facebook.com/OneMap](http://www.facebook.com/OneMap).

Source: Geospatial World and [SLA press release](#)

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## Employment Opportunities

### 'Surveyors are getting lucrative offers in Vietnam'

*Viet Nam government is investing approximately USD 60 million in cadastral mapping. Prof. Dr. Dang Hung Vo explains what it means for surveyors.*

Source: Geospatial Wworld

### GIS Job Board Launches New Website: [www.gisjobboard.com](http://www.gisjobboard.com)

New Site Provides Employers and Job Seekers Tools to Post and Search Jobs and Resumes in the GIS and Geospatial Disciplines

GIS Job Board has launched a new website specifically dedicated to GIS and other geospatial disciplines. The new site makes it simple for employers and job seekers to post and search for jobs and resumes. The site was created to serve the growing needs of the GIS community and help with recruiting and job seeking efforts.

Visitors also have the option to view the site in a different language if they choose, making it easier for them to have access to the content

Registered users can receive jobs or resumes by email. They can also flag jobs and resumes as well as save searches, setup resume alerts, and save resumes and jobs. Users have the capability of private messaging other users in case they ever want to communicate with someone.

For more information about GIS Job Board, please visit their website at [www.gisjobboard.com](http://www.gisjobboard.com)

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## Conference Proceedings



### FIG Working Week 2012 Rome May 6 – 10, 2012 Technical Program and Proceedings

### GSDI 13 QUEBEC CONFERENCE A HUGE SUCCESS

**May 14 – 7, 2012**

A limited-edition book of selected papers "Spatially Enabling Government, Industry and Citizens: Research and Development Perspectives" was provided free of charge to all conference registrants. Abstracts and Papers from the Conference may also be downloaded from the [GSDI Association's website](#).

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## 7th International Conference on 3D Geoinformation, 16–17 May 2012, Québec, Canada

## Report on GI Science and Remote Sensing for Climate Change Studies Workshop

Kumaun University SSJ Campus Almora, India from 1-3 March 2012.

## Malaysia Geospatial Forum 2012

Day 1 (March 6), Day 2 (March 7), Plenary showcases g-tech in nation building

Open Planet 5, the magazine published for the International gvSIG Conference is now available in electronic format

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## Conferences, Events

For upcoming events of global or major international interest, please visit the upcoming conference list on the GSDI website – as this conference list will be reserved for conferences within or with specific interest to the Asia Pacific Region.

**The editors welcome news of conferences & events from the newsletter subscribers**

### Call for Expression of Interest to host AARSE 2014 and future Conferences

Call for Expression of Interest to host the 10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE) in October 2014 and future Conferences. The 9th conference will be held in Morocco in October 2012.

Date	Location	Event
<b>September 2012</b>		
<b>2-4 September</b>	Wellington, New Zealand	<a href="#">The 4th Digital Earth Summit focusing on “Natural Disasters” Call for Papers</a> (Deadline for abstracts submission: <b>15 June 2012</b> )
<b>4-5 September</b>		<a href="#">FOURTH OPEN SOURCE GIS CONFERENCE - OSGIS 2012</a> Nottingham Geospatial Institute, University of Nottingham OSGIS 2012
<b>6-8 September</b>	Tokyo, Japan	2012 International Conference for OpenStreetMap (OSM) <a href="#">State of the Map 2012 (SoTM12)</a>
<b>9-14 September</b>	Ticino, Switzerland	<a href="#">11th NCCR Climate Summer School, 2012</a> The NCCR Climate, Switzerland's Centre of Excellence in Climate and Climate Impact Research, invites young scientists to join leading climate researchers in a scenic southern Swiss Alpine setting on the occasion of the 11th International NCCR Climate Summer School 2012. <b>Deadline for applications:</b> <u>closed</u> . Successful applicants will be notified in February 2012. Detailed information and the application form are available at <a href="http://www.nccr-climate.unibe.ch/summer_school/2012/">http://www.nccr-climate.unibe.ch/summer_school/2012/</a> . Contact: University of Bern, NCCR Climate Management Centre, Zähringerstrasse 25, CH-3012 Bern, Switzerland, mailto: <a href="mailto:nccr-climate@oeschger.unibe.ch">nccr-climate@oeschger.unibe.ch</a> Telephone +41 31 631 31 45, Telefax +41 31 631 43 38.
<b>16-9 September</b> <b>“NEW”</b>	Tehran, Iran	<a href="#">Iran: Workshop on SDI &amp; Disaster Management</a> For more information, see links, and contact the WG2 of the Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP): <a href="mailto:pcgiap.iran@ncc.org.ir">pcgiap.iran@ncc.org.ir</a>

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<b>17–9 September</b>	Hanoi, Vietnam	<a href="#">11th Asia Geospatial Forum</a> <b>Abstract submission CLOSED</b>	<a href="#">Contact</a>
<b>18–21 September</b>	Kashi, Xinjiang, China	<a href="#">The International Symposium on Earth Observation for Arid and Semi-Arid Environments</a> (ISEO 2012) with the theme of "Earth Observation Illuminating Central Asia".	
<b>20–1 September</b>	Ulaanbaatar, Mongolia	<a href="#">Asia GIS 2012 International Conference</a> Abstract submission deadline: July 16, 2012	
<b>October 2012</b>			
<b>2–4 October –</b>	Gauteng, South Africa	<p>Call for papers for the peer-reviewed academic track of <a href="#">GISSA Ukubuzana 2012</a></p> <p><b>Conference theme:</b> 'An African Dialogue: Geomatics for Infrastructure Development and Service Delivery'</p> <p>Authors are invited to submit full-text academic papers, approximately 5000 words in length and relevant to the themes and subject matter of the conference, for the peer-reviewed academic track at the GISSA Ukubuzana 2012 conference.</p> <p><b>Important dates</b></p> <ul style="list-style-type: none"> <li>• 30 June 2012: Submission of full papers for peer-review for academic track</li> <li>• 13 August 2012: Notification of acceptance of papers for academic track</li> <li>• 10 September 2012: Submission of revised peer-reviewed full papers for academic track</li> <li>• 17 September 2012: Registration of presenters of accepted papers for academic track</li> <li>• 25 September 2012: Submission of PowerPoint presentations for conference CD</li> <li>• 2–4 October 2012: GISSA Ukubuzana 2012 in Kempton Park, Gauteng, South Africa</li> </ul> <p><a href="#">Instructions to authors of peer-reviewed academic papers.</a>  <a href="#">Conference brochure (1 MB pdf)</a></p>	
<b>16–20 October</b>	Ho Chi Minh City, Vietnam	<a href="#">GIS-IDEAS 2012 International Conference, 2012</a> The International Conference on GeoInformatics for Spatial-Infrastructure Development in Earth & Allied Sciences (GIS-IDEAS) is jointly organized by Japan-Vietnam GeoInformatics Consortium (JVGC), Ho Chi Minh City University of Technology (HCMUT) and Ho Chi Minh City Institute of Resources Geography (HCMIRG), and will be held at HCMUT.	
<b>24–26 October</b>	Beijing	<a href="#">The 4th International Conference on Remote Sensing in Archaeology</a> (ICRSA4) with the theme: "New Era of Earth Observation on Natural and Cultural Heritage".	
<b>29 October – 2 November</b>	El Jadida, Morocco	<a href="#">10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE)</a>	
<b>29 October – 2 November</b>	El Jadida, Morocco	<p><a href="#">AARSE 2012 Conference: Call for Side-event Workshops</a></p> <p>As you might be aware the <a href="#">AARSE 2012 Conference</a> will take place from October 29 to November 2, 2012 in El Jadida, Morocco. This 9th holding of the AARSE Conference represents a major event in the long series of internationally recognized AARSE conferences.</p> <p><b>Note:</b> Please be aware that the following policy of the AARSE Executive Council on workshops organized by other parties applies:</p> <ul style="list-style-type: none"> <li>- Organizers of a pre-/concurrent-/post-conference workshop must pay a fixed amount of €3000 to cover expenses for projector, venue, writing materials and microphone. Anything extra is to be borne by the workshop organizer. However, organizers of a pre-/concurrent-/post-conference workshop who pay the conference registration fee for 8 of their participants, 2 months prior to the conference date, pay a fixed amount of €1500 to cover costs of</li> </ul>	

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		<p>projector, venue, writing materials and microphone. Abstract submission <b>CLOSED</b> 30 April 2012</p> <p><b>AARSE AWARDS</b> - All presenters are invited and encouraged to enter the AARSE award-winning competition for best paper presentation and best poster.</p> <p><b>IEEE GRSS/AARSE TRAVEL FELLOWSHIPS</b> - To support travel costs, accommodation and registration fees to attend conferences of the two societies in the field of Earth observation by remote sensing. The beneficiaries of these conference fellowships shall be African scientists or students who have their paper accepted for oral or poster presentation at the AARSE biennial conference.</p>
<b>29 October – 2 November</b>	Bangkok, Thailand	<p><b><a href="#">19th United Nations Regional Cartographic Conference for Asia and the Pacific</a></b></p> <p>The primary objective of the Conference is to provide a regional forum where government officials, scientists and experts from Asia and the Pacific and other regions meet to address the common needs, problems and experiences in the interrelated fields of surveying, geography, cartography and mapping, hydrography, remote sensing, land/sea and geographical information systems and environmental protection, including educational and training aspects, scientific and technological requirements, implementation issues and benefits.</p>
<b>November 2012</b>		
<b>13–5 November</b> <b>“NEW”</b>	UNSW, Sydney, Australia	<p><b><a href="#">3rd International Conference on Indoor Positioning and Indoor Navigation (IPIN)</a></b></p> <p><a href="#">Contact</a></p>
<b>19–22 November</b> <b>“NEW”</b>	London, UK	<p><b><a href="#">World Congress on Sustainable Technologies (WCST-2012)</a></b></p> <p>Technical Co-Sponsored by IEEE UK/RI Section Paper Submission: To submit a paper, <a href="#">please visit</a>.</p> <p><b>Important Dates:</b> Full Paper Submission Date: September 20, 2012 Extended Abstract (Work in Progress) Submission Date: September 30, 2012 Proposal for Workshops and Tutorials: August 31, Notification of Workshop and Tutorial Acceptance: September 10, Proposal for Industrial Presentation / Special Track: August 31, Notification of Abstract Acceptance/Rejection: October 10, Notification of Industrial Presentation / Special Track Acceptance: September 10, Notification of Paper Acceptance/Rejection: October 01, Camera Ready Extended Abstract Due: October 19, Camera Ready Paper Due: October 19, Early Registration Deadline: August 01, 2012 - October 15, 2012 Late Registration Deadline: October 16, 2012 - November 01, 2012 Conference Dates: November 19-22, 2012.</p>
<b>20–2 November</b>	Canberra, Australia	<p><b><a href="#">spatial@gov® Conference and Exhibition 2012</a></b></p> <p>Call for Papers - Deadline for Submissions: 5pm Tuesday 7th August 2012 - <a href="#">Contact</a></p>
<b>27–30 November</b> <b>“NEW”</b>	Suva, Fiji	<p><b><a href="#">2012 Pacific GIS &amp; RS Conference</a></b></p> <p><b>Abstract deadline:</b> September 30, 2012 <a href="#">Flyer</a> The theme for this year is “Mapping Pacific Resources”, which is timely as the recently concluded Rio +20 United Nations conference noted the relevance of global mapping and recognised the value of reliable geospatial information for sustainable development and decision-making. The global conference further recognised the need to support developing countries in their efforts to collect</p>

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		<p>resource and environmental data.</p> <p>As with previous Pacific GIS &amp; RS conferences, there are no fees levied for those wishing to attend, and the conference is funded entirely by donations from regional organisations, technology vendors and international agencies. This year, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH will support the Conference. GIZ will sponsor selected presenters from Tonga, Vanuatu and Solomon Islands to participate in the conference. To qualify, the presented topic should be related to forestry, agriculture or environmental application of GIS/RS, which is automatically linked to climate Change thematic. The deadline for abstract submission is 30th September, and final selection would require additional submission of the actual presentation upon request. For <a href="#">further information and registration</a>.</p>
<b>28-30 November</b>	Valencia, Spain	<p><b><a href="#">8th International gvSIG Conference</a></b></p> <p>"Making the Future: Technology, Solidarity and Business". Call for papers is now open. As of today communication proposals can be sent to the <a href="#">email</a> address; they will be evaluated by the scientific committee as to their inclusion in the conference program. There are two types of communication: paper or poster. Information regarding to regulations on communication presentations can be found in the <a href="#">Communications section</a>. Abstracts will be accepted until September 28th.</p> <p>Organizations interested in collaborating in the event can find information in the section: <a href="#">How to collaborate</a>.</p>
<b>December 2012</b>		
<b>9-10 December "NEW"</b>	Kuala Lumpur, Malaysia	<p><b><a href="#">Asia Oceania Regional Workshop on GNSS</a></b></p> <p><a href="#">Contact</a></p>
<b>February 2013</b>		
<b>11-3 February</b>	Denver, USA	<p><b><a href="#">International LiDAR Mapping Forum (ILMF)</a></b></p> <p><a href="#">Call for Papers</a> and invites any interested parties to submit their abstracts by September 28, 2012 online.</p> <p><a href="#">Contact</a></p>
<b>March 2013</b>		
<b>18-9 March "NEW"</b>	Singapore	<p><b><a href="#">1st Annual International Conference on ACE: Call For Papers 2013</a></b></p> <p><b>IMPORTANT DATES</b></p> <p>Full Paper Submission Deadline: 23rd November 2012 Author Notification: 7th December 2012 Final Paper (Camera-Ready) Submission Deadline: 31st December 2012 Early Bird Registration Deadline: 18th January 2013 Late Registration Deadline: 13th February</p> <p><a href="#">Contact</a></p>
<b>April 2013</b>		
<b>22-26 April "AMENDED"</b>	Beijing, China	<p><b><a href="#">35th International Symposium on Remote Sensing of Environment (ISRSE35)</a></b></p> <p><i>The papers included in the 35th International Symposium on Remote Sensing of Environment proceedings will be published by IOP Publishing Ltd., UK. The proceedings are available through the IOP Conference Series: Earth and Environmental Science. All published papers will be indexed by EI Compendex.</i></p> <p><i>Authors interested in the themes and topics of ISRSE35 are welcome to submit their original manuscripts. Submissions to ISRSE35 will be peer-reviewed to ensure high-quality scientific content and well-written English, in accordance with the Peer Review Policy for the IOP Conference Series.</i></p> <p><b>ABSTRACT SUBMISSION</b></p>

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		<p>Interested contributors should submit a summary of the paper they propose for presentation.</p> <ul style="list-style-type: none"> <li>● All submissions should be in English.</li> <li>● Abstracts should reach the Technical Programme Committee no later than 30 September 2012.</li> <li>● Notification of paper acceptance will be made by 10 December 2012.</li> <li>● Each presenting author will be required to register and pay by the author registration deadline on Monday, 25 February 2013, to ensure their abstract is included in the final programme.</li> <li>● Please submit abstracts through the Abstract Submission link at <a href="http://www.isrse35.org">http://www.isrse35.org</a></li> <li>● All abstracts must be submitted online.</li> </ul> <p><b>IMPORTANT DATES:</b></p> <p>Registration Opens: Monday, 10 September 2012  <b>Abstract Submission Deadline:</b> Sunday, 30 September 2012  <b>Workshop Submission Deadline:</b> Tuesday, 30 October 2012    Acceptance Notification Monday, 10 December 2012  <b>Early-bird Registration Deadline:</b> Friday, 25 January 2013  <b>Final Paper Deadline:</b> Friday, 15 February 2013  <b>Author Registration Deadline:</b> Monday, 25 February 2013    Standard Registration Deadline Monday, 15 April 2013    Contact detail:    ISRSE35 Secretariat    E-Mail: <a href="mailto:isrse35@ceode.ac.cn">isrse35@ceode.ac.cn</a>    Tel: +86 10 8217 8969    Fax: +86 10 8217 8968    Website: <a href="http://www.isrse35.org">www.isrse35.org</a>    Address: Center for Earth Observation and Digital Earth, CAS No. 9    Dengzhuang South Road, Haidian District, Beijing 100094, P.R.    China</p>						
<b>May 2013</b>								
13-6 May	Rotterdam, The Netherlands	<p><b>Geospatial World Forum</b> is a conference cum exhibition which has always invoked the geospatial community with its relevant and thought-provoking themes. This year, the conference which is scheduled from <b>13-16 May 2013 at Beurs World Trade Center, Rotterdam, The Netherlands</b> aims at increasing our understanding of the concept of Monetising the value added by geospatial industry so far with its theme "<b>Monetising Geospatial Value and Practices</b>".</p> <p>Please <a href="#">submit</a> your abstracts. <a href="#">For queries</a>.</p> <p><b>Important Dates -</b></p> <table border="1"> <tr> <td><b>Abstract Submission</b></td><td>15 October 2012</td></tr> <tr> <td><b>Abstract Acceptance/Non Acceptance Notification</b></td><td>04 November 2012</td></tr> <tr> <td><b>Speaker Registration</b></td><td>15 December 2012</td></tr> </table>	<b>Abstract Submission</b>	15 October 2012	<b>Abstract Acceptance/Non Acceptance Notification</b>	04 November 2012	<b>Speaker Registration</b>	15 December 2012
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<b>August 2013</b>								
26-29 August	Kuching, Sarawak, Malaysia	<p><b>The 8th International Symposium on Digital Earth</b> (ISDE8) with the theme of "Transforming Knowledge into Sustainable Practice" will be held in Kuching, Sarawak, Malaysia.</p>						
<b>2014</b>	Malaysia	Malaysia will be hosting the (International Federation of Surveyors) FIG Congress in 2014. The decision was taken at the recently concluded FIG Congress 2010 in Sydney, Australia.						

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