

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 June issue of the newsletter for the year 2012. The SDI spotlight this month focuses on the outcomes of the GSDI 13 conference. The Theme for this year's conference was Spatially Enabling Government, Industry and Citizens with several opportunities to learn and engage with specialists from around the world. The committee organizing the conference have continued to ensure the ongoing success of the GSDI and the expansion of the global communications on this important topic.

The editors would also like to acknowledge and congratulate Dave Lovell OBE FRGS CGeog for being elected the next president of the GSDI.

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.

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## Contributions

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

## 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.

Information relating to the GSDI 13 conference is included within the SDI Spotlight.

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## SDI News, Links, Papers, Presentations

### **UN vision for geospatial information**

This website provides insight into the five and ten year vision of geospatial information management from the United Nations, a collection and summary of industry expert opinions.

[The UN initiative on Global Geospatial Information Management \(GGIM\)](#)

Thank you to Ross Johnson for this item

### **Mandatory use of geo-spatial data for Delhi government departments**

Delhi government's 30 departments and agencies will have to mandatorily use geo-spatial data of overground and underground assets before planning any infrastructure projects, when an ambitious legislation comes into force in the city in May. The IT Department has already completed a three-year project under which images of all overground and underground utilities like telephone lines, power cables, water and sewer lines and roads have been made available on a single portal to facilitate better urban planning and governance.

Source: India Times

See also: [Mandatory Geospatial Data Use in Delhi: 3D Modelling To Expand](#) and [Sharing geospatial information on infrastructure mandated by Delhi NCT](#)

### **Spatial infrastructure project initiated by Tasmanian Govt**

A two-year Spatial Information Foundations project has been initiated by the Tasmanian government. The project aims to develop a contemporary platform for the management and distribution of spatial information across all tiers of government and the private sector and facilitate the improved use of spatial information for key priorities of the Tasmanian Government.

This will improve the quality and timeliness of services and decision-making, especially in the areas of planning, economic development, policy development and emergency management. The project is part of the Tasmanian Government ICT Strategy, and it supports the Economic Development Plan, strategies for planning reform and the SenseT programme.

Source: Geospatial World

### **Australian Census**

The Australian Census is due for release on the 21<sup>st</sup> of June. This information is vital for governments and the community to use in planning, policy development, service delivery and research.

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### SDI Spotlight

This month the "Spotlight" consists of an overview of the highlights from the GSDI 13 Conference. The theme for this year's conference was **Spatially Enabling Government, Industry and Citizens**. This topic enabled government, local communities, non-government organizations, the commercial sector, the academic community and common people to make progress in addressing many of the world's most pressing problems.



Key highlights of the conference were related to the use of volunteered geographic information (VGI) and crowd sourced and the ways in which this information can be used to assist developing countries to collect, maintain and update data repositories.

In total there were 5 plenary sessions covering topics such as global and regional initiatives and innovations in spatial enablement. In total there were over 250 papers presented across 7 parallel sessions complemented with the following 5 workshops

- Workshop 1 – Lessons learned from implementing SDIs
- Workshop 2 – Towards the Global Harmonization of Licenses for Geographic Data
- Workshop 3 – SDI Best Practices in the Developing World
- Workshop 4 – Technical Tools for building SDIs from the bottom up
- Workshop 5 – Leveraging the Global Geospatial community

Presentations identified as being particularly important to the future of spatial enablement in the Asia Pacific Region include:

- |  |                             |                               |
|--|-----------------------------|-------------------------------|
| - Spatially enabling Government              | Spatially enabling Industry | Spatially enabling Citizens   |
| - Experiences & case studies                 | Technical challenges        | Education & capacity building |
| - Legal, economic & institutional challenges | Basic & applied research    | Assessment & Measurement      |

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](#).

#### President-elect

Members of the Global Spatial Data Infrastructure (GSDI) Association have chosen EuroGeographics' Secretary General and Executive Director, Dave Lovell OBE FRGS CGeog as its President-elect.

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

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### GIS Tools, Software, Data

#### [City of Melbourne became the first Australian council to make their spatial data freely available online.](#)

As part of an international project to develop the world's most accurate online map. The council contributed their official local government area base map to the 'Community Maps Program' - a global initiative led locally by Esri Australia.

Source: Geospatial World [thanks to Ross Johnson for this item]

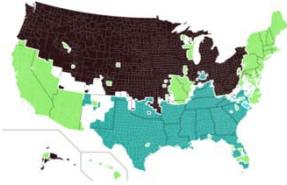
#### [Zebedee Handheld 3D Mapping System](#)

Handheld laser mapping system developed at [CSIRO](#) that is able to generate 3D maps in GPS denied areas (indoors, underground, etc). The system consists of a Hokuyo 2D lidar (30m maximum range), with a battery and a laptop in a backpack. Specialized software computes the 6DoF position and orientation of the sensor and generates a 3D point cloud model of the environment in real-time. In addition to indoor spaces, the system also functions outdoors, including in natural environments.

More information on CSIRO's mapping and localization research can be found [here](#).

Source: [LiDAR News](#)

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### [The Invisible Borders That Define American Culture](#)

The research team set out to understand how a variety of cultural and social properties create borders, and whether or not these borders actually overlap. Are there in fact natural boundaries to the borders that we create as social creatures?

Source: The Atlantic "Cities" website

### [Introducing CommonMap](#)

Interested in promoting the 'update once, use anywhere' approach to fundamental spatial information?

The new CommonMap system intends to reuse each country's open geodata licence as well as the geodata itself. This means that government, community and industry-contributed geodata can be combined and consumed on equal terms. This opens up new opportunities for innovation on top of the common knowledge of the world's geography. 'Update once, use anywhere' faces one less barrier.

For more information, to join the working party, volunteer, or have a say in the evolution of CommonMap, visit [CommonMap](#)

Thank you to Ross Johnson for this item



### [Mapping China's Ancient Name Game](#)

Surnames can act as stand-ins for genetic markers that fathers pass to their children. Like genes, family names are subject to random drift: Over time, certain names become more prevalent than others purely by chance. A region with high surname similarity indicates that a stable population has inhabited the area long enough for drift to take place. A region of low surname similarity suggests the migration of different groups of people into the area.

Source: Science Now

### [Mapping a Lifetime of Health Risks](#)

Geo-medicine: an emerging field that uses GIS mapping to correlate environmental conditions to health risks like heart attacks and cancer. Geo-medicine can zoom in on a patient's life to create a geographically enhanced medical history. Or it can zoom out to give public health officials, city planners and activists detail-rich insights on how to improve the well-being of entire communities.

Source: The Atlantic

### [Victoria in Future 2012 AUSTRALIA](#)

The Victoria in Future (VIF) 2012 population and household projections are now available online.

The Victorian Government's official population and household projections.

Victoria in Future 2012 (VIF 2012) projections cover the period 2011 to 2051 for Victoria, metropolitan Melbourne and the whole of regional Victoria. Projections for smaller geographical areas (Statistical Local Areas, Local Government Areas and regional Statistical Divisions) cover the period 2011 to 2031.

The projections are based on the 2011 ABS population estimates and supersede the projections published by DPCD in 2008.



### [Picture of the Day: How Much Water Is There on Earth?](#)

The image shows how big a sphere would be compared to Earth if it were made of all the Earth's water. It would have a diameter of about 860 miles and a volume around 332,500,000 cubic miles. The calculations are based on estimations for all of the Earth's water including not just oceans, lakes, rivers, seas, and ice caps, but groundwater, atmospheric water, and even the water inside living creatures such as you, your cat, and all of the world's plants.

Source: The Atlantic



### [New Zealand's 18-year-long geological mapping project ends](#)

Geologists and technicians from GNS Science's Lower Hutt and Dunedin offices concluded an 18-year-long project to produce a new series of geological maps of New Zealand. The project, QMAP (Quarter million scale map), was Started in 1994 and has produced 21 geological maps covering all parts of New Zealand.

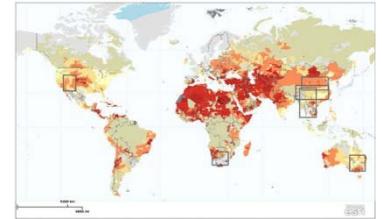
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Source: Geospatial World

### [Mapping Global Water Stress](#)

Water scarcity is likely to be one of the great problems facing the planet this century. Various risk factors contribute to the scarcity of clean water. [A new mapping tool](#) from the World Resources Institute visualizes how those risk factors can combine to create large problems, or how conditions can be improved to reduce the potential for water shortages between now and 2095.

Source: The Atlantic



### [Malay environment minister advocates GIS education](#)

The Minister of Natural Resources and Environment, Malaysia, urged the Human Resource Ministry to include GIS in academic syllabus, during National Geospatial Information Symposium 2012 in Putrajaya. He observed that government officers lack GIS skill. However, they can use GIS to enhance public services. He proposed the establishment of GIS unit in all federal and state agencies.

Source: Geospatial World

### [Earthquake tour for movers and shakers](#)

**Geoscience Australia** is to host a tour of earthquakes monitoring equipment and mineral resources at its Canberra headquarters as part of APS Innovation Week (2-8 June).

The tour will provide participants with an opportunity to find out about the latest technology geologists are using to monitor earthquakes and help uncover Australia's hidden mineral wealth.

Geoscience Australia (GA) will offer members of the public the experience of a virtual 3D tour of some of Australia's key national geophysical and mineral datasets using GA's innovative open-source 3D World Wind Data Viewer, followed by a visit to the Joint Australian Tsunami Warning Centre (JATWC).

It said three public tours of the World Wind viewer and the JATWC would be offered at 10am, 12pm and 2pm on Tuesday 5 June. Bookings for the tours can be made on (02) 6249 9324 or at [www.ga.gov.au](http://www.ga.gov.au)

Thanks to Ross Johnson for this item.

### [India to eradicate mosquitoes using g-tech](#)

Researchers will use satellite images to identify areas with high mosquito density and places where mosquito breeding is extensive. This will help health officials in fixing their target in their anti-mosquito drive to control diseases like dengue, malaria and chikungunya.

The World Health Organization (WHO) and the UN Office for Outer Space Affairs evinced interest in the project, saying it would go a long way in making technology play a key role in public health.

Source: [Geospatial World](#) and Times of India

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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."*

### [Mapping urban heat](#)

Monitoring thermal radiation can help city planners to design more 'liveable' cities, assist civil protection authorities in taking adequate measures during heat waves and create maps of energy efficiency

Source: [Geospatial World](#) and European Space Agency

### [Google Maps and Disaster Tracking software](#)

Emergency responses to natural disasters could be coordinated more quickly and save lives thanks to new software developed at the University of Abertay Dundee.

Using home broadband routers, student David Kane's prototype programme can 'ping' thousands of addresses to check whether buildings are still standing.

The system shows live data on 'safe' areas using Google Maps. Within seconds, any disaster can be detected, mapped and its progress tracked – and support efforts targeted to the areas in greatest need at any moment.

Source: University of Abertay press release

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### [Bringing Together a Country through Crowdsourced Mapping](#)

The Trans Canada Trail is the world's longest pathway. It will span more than 22,000 kilometres when all the trails across the country are connected by 2017 on Canada's 150th anniversary. The progress of this national project can now be viewed through an [online mapping application](#) donated by Esri Canada, a geographic information system (GIS) solutions provider and a member of [Chapter 150](#), a group of visionary and philanthropic business leaders helping to connect the Trail and all Canadians.

...

The Web map consists of numerous data layers integrated using Esri's ArcGIS technology. Esri technology has advanced significantly to allow the integration of user-generated or crowdsourced content with traditional datasets such as roads or geographic points of interest. The application uses basemaps from [The Community Map of Canada](#), a program initiated by Esri Canada that compiles maps and geographic data contributed by more than 100 Canadian federal, provincial and municipal governments to be used by the public.

The application promotes active lifestyles by allowing Trail users to register for a free account to enter the number of steps or a length of time biked and see how much of the Trail they would have covered. Since the Web map was launched in January 2012, more than 2,600 individuals have created accounts to upload information to the map and use the various tools within the application.

[Access the Trans Canada Trail application.](#)

Source: ESRI Canada



### [Maps show status of human infections around the world](#)

Released last week, the [Atlas of Human Infectious Diseases](#) is a collection of up-to-date maps presenting the status of major human infections around the world.

Source: [Geospatial World](#) and Wellcome Trust blog

### [Risk Atlas Georgia](#)

ITC has carried out a project called "Institutional Building for Natural Disaster Risk Reduction (DRR) in Georgia" together with the Caucasian Environmental NGO Network (CENN). The project addressed nine different natural hazards and their overlap with eight elements at risk, such as population, buildings, and GDP. The project was financially supported by the Social Transformation Programme for Central and Eastern Europe (MATRA) of the Dutch Ministry of Foreign Affairs.



Within the project, a large number of people were trained in hazard and risk assessment, environmental impact assessment, web GIS, and participatory GIS. The project also developed guidelines to include hazard and risk assessments in strategic environmental assessments and environmental impact assessment.

The project produced a paper atlas that gives a concise overview of the base data, and project output.

Open the [atlas](#).

### [Ancient Time: Earliest Mayan Astronomical Calendar Unearthed in Guatemala Ruins](#)

An excavation of an archaeological site in Guatemala has uncovered Mayan astronomical records dating to the ninth century A.D. The tabulated numbers, which predate existing Mayan astronomical documents by several hundred years, chart the motion of the moon and also seem to relate to the orbits of Mars and Venus.

Source: Scientific American

### [Researchers map underground water reserves of Africa](#)

Researchers from the British Geological Survey and University College London for the first time mapped aquifers, or groundwater, across the African continent. "The largest groundwater volumes are found in the large sedimentary aquifers in the North African countries Libya, Algeria, Egypt and Sudan," the scientists stated in their paper published in journal 'Environmental Research Letters'.

Source: Geospatial World

### ['Map of Life' shows distribution of different species on earth](#)



A research team involving Yale University and the University of Colorado Boulder has developed a first public demonstration version of its "Map of Life," an ambitious Web-based endeavor designed to show the distribution of all living plants and animals on the planet.

Source: [Geospatial World](#) and University of Colorado

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### [Mystery of the famous faces of art may be revealed](#)



A Californian university has won funding to use advanced facial recognition technology to try to solve the mysteries of some of the world's most famous works of art.

Professor Conrad Rudolph said the idea for the experiment came from watching news and detective shows such as *CSI* which had a constant theme of using advanced computers to recognise unknown faces from murder victims to wanted criminals.

Rudolph, professor of medieval art history at the University of California at Riverside, realised he might be able to apply that cutting-edge forensic science to some of the oldest mysteries in art: identifying the real people in paintings such as Vermeer's *Girl with a Pearl Earring*, Hals's *The Laughing Cavalier* or thousands of other portraits and busts where the identity of the subject has been lost. Work on the project should begin within a month or so.

Source: The Guardian

### [Google Maps to provide warships' location info soon](#)

Google will soon make public information about virtually every ship at sea, giving the current location and identity even of American warships, AOL Defense reported.

...

However, the technology clearly could be useful for practitioners of change detection, people looking for patterns to the US and other seaborne operations. **It could conceivably be useful to terrorists and pirates looking to plan attacks on commercial shipping**, for example.

...

However, several intelligence experts noted that, while Google's data possesses enormous commercial appeal, **its military and intelligence utility is limited**. Most Google images are weeks or months old, at least, making them problematic for that most rarified and demanding use -- targeting. And as one intelligence source noted: "Just because you have the data, doesn't mean you can analyse the data or know how to use it."

Source: Geospatial World

### [London: New technology will be used to measure impact of extra traffic on pollution levels in the city](#)

The team of researchers will use their CityScan technology, which gathers scattered sunlight to scan whole cities and take readings of air quality, to investigate the impact of this extra traffic on pollution.

Rather than existing technology, which can only give an accurate reading for certain "hotspots," CityScan can show the air quality over every point of the city - including individual roads, playgrounds and other buildings.

Source: University of Leicester press release

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## Articles

### [New York City Subway Map Mistakes](#) by MATT FLEGENHEIMER

The story unfurls along the West Side of the city's hallowed underground cartography, more than 30 years after a zealous band of mapmakers first converged to reimagine New York's sprawling jigsaw of subway lines.

...

**And now it can be told: Mistakes were made.**

Source: New York Times

### [ALSO Do Major Urban Subway Networks Evolve along Similar Patterns?](#)

No two subway systems have the same design. New York City's haphazard rail system differs markedly from the highly organized Moscow Metro (above), or the tangled spaghetti of Tokyo's subway network. Each system's design is the result of many factors, including local geography, the city's layout and traffic distribution, politics, culture and degree of urban planning.

"There's an endless list of possible parameters that can influence the shape of a subway network," says Marc Barthelemy, a theoretical physicist at France's Alternative Energies and Atomic Energy Commission.

But Barthelemy isn't interested in the differences between subway systems—he wants to find out what they all have in common.

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Source: Scientific American

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

### **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.



### **[Maps show status of human infections around the world](#)**

Released last week, the [Atlas of Human Infectious Diseases](#) is a collection of up-to-date maps presenting the status of major human infections around the world.

Source: [Geospatial World](#) and Wellcome Trust blog

### **[An Epic Time-Lapse Map of Europe Over the Past 1,000 Years](#)**

YouTube user [harrunostasj](#) has created a fascinating look at European history in fast forward using the [Centennia Historical Atlas](#). The mapping software is a "dynamic, animated historical atlas including over 9,000 border changes," tracing the rise and fall of empires from 1,000 C.E. onward. Make sure to watch the video full screen in HD to see the year in the top left corner and notes on historic events in the bottom left corner (and turn up the volume to appreciate the dramatic soundtrack from *Inception*).

<http://www.theatlantic.com/video/index/257222/>

<http://www.theatlantic.com/video/archive/2012/05/european-time-lapse-map-w-years-events/257222/#>

### **[A Breathtaking Time-Lapse Video of 121-Megapixel Images of Earth](#)**

From over 35,000 kilometers away, Russian weather satellite captures 121-megapixel images of Earth.

<http://www.theatlantic.com/video/index/257255/>

<http://www.theatlantic.com/video/archive/2012/05/planet-earths-northern-hemisphere/257255/>

See ALSO [121-megapixel photo the largest ever shot of Earth](#)

Read more @ [This 121-Megapixel Photo of Earth Will Make Your Jaw Drop](#) and the [Melbourne "Age"](#)



### **[Capitals of the CONNECTED WORLD](#)**

Source: The Atlantic

### **[Visualizing a Full Day of Airplane Paths in the U.S.A.](#)**



How many airplanes are above our heads during the height of the day?

Aaron Koblin knows the answer: It can be more than 19,000 in the United States. And thanks to his wizardry with FAA data, we can see how these aircraft drift from city to city in this mesmerizing computer visualization.

Air traffic is heavy in the early evening but hits a low of about 4,100 in-transit flights around 4 a.m. EST. It rockets upward again after the sun rises, peaking around 3 p.m. Take-offs flow in a wave across the country as people wake up and get to the

airport. On the East Coast, flights shoot out of major hubs like New York City and Atlanta like the sparks of exploding fireworks, while solitary jets squirm around like protozoa in less-populous areas like Canada and the Gulf of Mexico.

Source: The Atlantic

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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](#)

## 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](#) - May, 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 11](#) (mid-May 2012)

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

[Coordinates](#) monthly magazine (May 2012)  
<http://mycoordinates.org/pdf/may12.pdf>

## [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 (May 29)

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## Just for Fun!

## [Geolocating soccer players](#)

GPS isn't just for guiding confused drivers, it can also be used by soccer managers who are a little lost when it comes to assessing their players' performance. Acceleration, average and maximum speed, distance covered, etc. "It allows us to know the displacements of the players in a valid, reliable and effective way," says David Casamichana. This researcher has in fact completed a thesis in which he demonstrates the applicability and good results of GPS in soccer, and specifically of the model available at the Faculty of Physical Activity and Sports Sciences at the University of the Basque Country (UPV/EHU).

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Source: Basque Research and [Geospatial World](#) (May 28)

## [Where in the World? Part 3: A Google Earth Puzzle](#) (from The Atlantic)

Earlier: [Where in the World? Part 2: A Google Earth Puzzle](#) & [Where in the World? Part 1: A Google Earth Puzzle](#)



## [Kids Who Get Driven Everywhere Don't Know Where They're Going](#)

It turns out vehicular traffic does something else, too, more subtle but equally pernicious: It changes the way children see and experience the world by diminishing their connection to community and neighbors. A generation ago, urbanist researcher Donald Appleyard showed how heavy traffic in cities [erodes human connections in neighborhoods, contributing to feelings of dissatisfaction and loneliness](#). Now his son, Bruce Appleyard, has been looking into how constantly being in and around cars affects children's perception and understanding of their home territory. Appleyard worked with children in two suburban communities. One had light traffic and infrastructure that allowed children to walk and bike on their own. One had heavy traffic and children traveled almost exclusively by car. Using a technique called cognitive mapping, Appleyard asked groups of nine- and 10-year-old kids to draw maps of their neighborhoods, showing destinations such as school and friends' houses, and marking places they liked or disliked. **The results were revealing.**

Source: The Atlantic "Cities" website

## [Cycling, mapping and art](#)



GPS technology is opening up exciting new hybrid forms of mapping and art. Or in this case: cycling, mapping and art. The maps on this page are the product of Michael Wallace, a Baltimore-based artist who uses his bike as a paintbrush, and the city as his canvas.

As Wallace traces shapes and forms across Baltimore's street grid, the GPS technology that tracks this movements fixes the fluid pattern of his pedalstrokes onto a map. The results are what Wallace calls GPX images, or 'virtual geoglyphs'.



Source: Frank Jacobs's [Strange Maps](#) blog

## [Secret 'pay map' for civil servants threatens crisis in Whitehall](#) – United Kingdom

David Cameron risks meltdown with the civil service as blueprint reveals plans to set earnings according to location.

The plans put the country's 434,000 civil servants into four geographical pay zones, with those living in the south-west, on the south coast, Wales, much of the Midlands and the north-east earning least. Those in inner and outer London will be highest paid, followed by civil servants working in a corridor stretching from Bristol to the Thames estuary, and those in pay "hotspots" in Manchester and Birmingham.

Source: The Guardian

## [Iran to sue Google in map naming dispute](#)

Google has removed the tag identifying the Persian Gulf from its popular mapping service, angering the Iranian government. The Iranian government said it will sue Google after it removed the name of the Persian Gulf from its mapping service.

The body of water between Iran, Saudi Arabia, the United Arab Emirates, Bahrain and Qatar was left nameless after the search giant removed the tag from Google Maps.

Source: Geospatial World

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## Training Opportunities

### [Third Open Source GIS Summer School, Girona, Spain](#)

The GIS and Remote Sensing Centre (University of Girona, Spain), Nottingham Geospatial Institute (University of Nottingham, UK) and OpenGeo are pleased to announce the Third Open Source GIS Summer School, **July**

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**9-13th, 2012** at Girona, Spain. Building on the success of previous editions, this year's program will be focused on the development and creation of Open Web Mapping Services and Web applications.

The University of Nottingham will be strongly supporting this excellent initiative. Jeremy Morley (Lecturer and a theme leader at the NGI) will be contributing the Nottingham components for the Summer School. The course has been designed and will be conducted on a GNU/Linux operating system based on the use of the OSGeo-Live DVD.

All course materials produced for the Summer School will be made available through the [ELOGeo platform](#) for the benefit of the wider community. [More details.](#)

### [Map Your Vehicle Location and View Nearby Assets](#)

**Free Webinar:** June 07 @ 10:00 AM PDT

Join us in our webinar and learn how to dynamically map and track the user's current location in your iVAULT Web GIS system. Zoom in and identify nearby assets or points of interest.

Users can now track and map their location in iVAULT. With the map centered on their current vehicle location, users can zoom in and identify nearby assets or points of interest.

This tool contains two key functions:

- "Where am I?" – Field crews running iVAULT GPS can quickly zoom in to their current vehicle location on the iVAULT map. In addition, users can dynamically track their vehicle location.
- Feature & Event Location – iVAULT GPS Location integrates with the iVAULT Edit Module to automatically capture the location of assets or asset events such as pipe breaks or potholes.

iVAULT GPS Location works with most NMEA-compatible GPS devices, including stock hand-held and LMU equipment using USB, serial, and Bluetooth interfaces.

### [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.

[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

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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.

**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

### [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.

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### [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.

### [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

### [Post Doctoral Scientist: Landscape Modeling, Nairobi, Kenya](#)

**Closing date for applications: 15 June 2012**

CIAT is looking for a landscape modeler to work on integrating a variety of data and information into a coherent set of analytical landscapes by applying a unified methodology across a range of study sites. CIAT has numerous on-going and completed projects that focus on improving productivity of smallholder farmers and

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communities managing agroecosystems. The post doctoral scientist will apply landscape modeling tools in a set of study landscapes across the range of geographies and developmental contexts representing rainfed farming systems in Latin America, Southeast Asia and sub-Saharan Africa.

### Requirements

- A PhD in Landscape Ecology, Geography, Remote Sensing and Spatial Modeling, or related discipline.
- At least two years of relevant research experience in landscape modeling applications relevant to meso-scale planning, systems diagnosis, or scenario development.
- Share commitment and passion for our mission.
- Pro-active researcher with demonstrated interest in and ability to publish in peer reviewed international journals.
- Capacity/willingness for field work.
- Proven interpersonal skills and ability to work with diverse teams representing different cultural and professional backgrounds.
- Willingness to live and work in developing countries.
- Excellent writing skills and able to write clearly and concisely in English for a wide range of audiences.

### **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  
May 6-10 2012  
Rome, Italy

**[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](#).

### **[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](#)

### **[Possibility or a dream? Spatially Enabled Government and Societies](#)**

Geospatial experts from different background and part of the world share their views on Spatially Enabled Government and Society (SEGS) at [UNRCC-PCGIAP International Symposium](#) organized by Department of Surveying and Mapping Malaysia during **15 – 16 February at Kuala Lumpur, Malaysia**. They highlight pertinent issues, challenges and suggest way forward to achieve the goal

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## [GNSS vulnerabilities: Testing the Truth](#)

### [European Navigation Conference ENC GNSS 2011, held in London in November and December 2011](#)

This paper is based on a presentation given to the European Navigation Conference ENC GNSS 2011, held in London in November 2011. The authors present an overview of threats and vulnerabilities of GNSS systems in general and with a focus at application level across a spectrum of domains. They highlight some of the important countermeasures that are already available on the market, but which are not ubiquitously used.

## [Timor Leste \(East Timor\) – environmental data review workshop](#)

The 6th of March as part of the Norwegian Petroleum Assistance Program together with DNMA I contributed to a workshop to be held at the Arbiru Hotel in Dili, Timor Leste. The intended outcome was to contribute to a process for establishing better handling of environmental data. The workshop was opened by his Excellency Sr. Abilio de Deus de Jesus Lima, State Secretary for the Environment.

## [Iraq Spatial Data Infrastructure workshop completed](#)

In mid-February 2012, over 25 persons representing 13 national and regional government organizations assembled in Erbil in the north of Iraq for an intensive three-day exchange to explore concepts and ideas towards the establishment of a National Spatial Data Infrastructure for Iraq.

The workshop was conducted under the auspices of the Prime Minister Advisory Committee (PMAC), and supported by the United States Geologic Survey (USGS).

Staff from the GPC Group facilitated the workshop, bringing experience and insights regarding the implementation of GIS federations and Spatial Data Infrastructure (SDI) in other countries and regions around the world.

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

## [National Geomatic Plan in Gabon: results of pilot projects presented](#)

IGN France International presented the main results of the work conducted between April and December, 2011 at the occasion of a final seminar. This seminar was held on December 6th, 2011 in Libreville and brought together around 60 representatives, most of whom were general managers and permanent secretaries from the main ministries, all in the presence of Emmanuel Issozet, Minister of the Budget and Madame Yolande Nyonda, Permanent Secretary of the Budget.

### [Phase pilote du PNG Gabon : Promesses tenues](#)

### [NGP Gabon: IGN France International presented the results of the pilot projects during a final seminar](#)

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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
June 2012		
3-5 June	Kuala Terengganu, Malaysia	<u><a href="#">The International Conference on Informatics &amp; Applications (ICIA2012)</a></u> The proposed conference on the above theme will be held at University Sultan Zainal Abidin, Kuala Terengganu, Malaysia, From

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		<p>June 3-5, 2012 which aims to enable researchers build connections between different digital applications.</p> <p>Important Dates =====</p> <p>Submission Date: April 1, 2012          Notification of acceptance: April 15, 2012          Camera Ready submission: May 2, 2012          Registration: May 2, 2012</p>
4-7 June	Las Vegas	<a href="#"><u>Hexagon 2012 conference.</u></a>
8-11 June	Shanghai, China	<p><a href="#"><u>2nd International Workshop on Earth Observation and Remote Sensing Applications (EORSA 2012)</u></a></p> <p><b>Call for Papers</b></p> <p>Following the first EORSA conference in Beijing in 2008, the second workshop (EORSA2012) will be held in Shanghai, China, on June 8-11, 2012. This event is jointly organized by Tongji University, Peking University, and Nanjing University, with technical sponsorship from IEEE Geoscience and Remote Sensing Society and International Society for Photogrammetry and Remote Sensing.</p> <p><b>Timetable:</b></p> <p>Abstract submission due - March 15, 2012          Notification of acceptance - March 30, 2012          Full paper submission - May 15, 2012          Pre-conference registration due - April 15, 2012          Pre-conference workshops - June 8, 2012          Conference: June 9-11, 2012</p> <p><b>Abstract Submission:</b></p> <p>Please submit your abstract through the following web site:  <a href="https://www.easychair.org/conferences/?conf=eorsa2012">https://www.easychair.org/conferences/?conf=eorsa2012</a></p> <p>An abstract should be between 400 and 600 words in English, and be saved in Microsoft Word format. Please include title, key words (up to five), full name, affiliation, and contact details (e-mail, phone, fax, and regular mailing address). Please also indicate your preference for oral or poster presentation.</p> <p><b>For more information</b> about the workshop, visit the <a href="#"><u>website</u></a></p>
15-17 June	Hong Kong	<p><a href="#"><u>20th International Conference on Geoinformatics</u></a> (Geoinformatics 2012)</p> <p><b>Abstract/Paper submission deadline:</b> 15 November 2011</p> <p>In response to the increasing concerns on global changes and natural disasters, the 2012 conference theme is "Global Change, Adaptation and Risk Management". Earthquakes, floods, droughts, pollutions and many other natural and man-made disasters are severe threats to the mankind. Geoinformatic technologies shall play an essential roles to mitigate damages of the disasters. This conference will provide an excellent opportunity for professionals and students in the geographic information science area to exchange innovative ideas, discover cutting-edge technologies, and present inspiring applications. Meanwhile, 2012 will be the 20th Anniversary of the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS, <a href="http://cpgis.org/">http://cpgis.org/</a>) and its Annual Conference (the Geoinformatics series), the organizing committee cordially invite geoinformatics professionals and scholars all around the world, review and celebrate our accomplishments and to develop our vision for the next 20 years.</p>
18-20 June	Salvador de Bahia, Brasil	<p><a href="#"><u>"Cities, Technologies and Planning" - CTP 12</u></a>  <a href="http://www.unibas.it/utenti/murgante/geog_an_mod_10/index.html"><u>&lt;http://www.unibas.it/utenti/murgante/geog_an_mod_10/index.html&gt;</u></a>          in conjunction with</p>

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		<a href="#">The 2012 International Conference on Computational Science and its Applications (ICCSA 2012)*</a>
21-3 June	Yokohama, Japan	<a href="#">Geospatial Expo 2012</a> <a href="#">Contact</a>
25-7 June	Taipei, Taiwan	<a href="#">International Conference on Earth Observations and Societal Impacts (ICEO-SI)</a> The ICEO-SI 2012 Meeting will advance the understanding of earth observations and societal impacts from the regional to the global levels. Through the promotion and construction of the Global Earth Observation System (GEOS), the conference will namely address the following topics: Ecosystems – Biodiversity – Water – Disasters – Energy – Health – Weather – Climate - Agriculture
25-30 June	Istanbul, Turkey	<a href="#">World GIS Summit</a> <b>“The World GIS Summit” has been postponed to June 25-30, 2012.”</b>
<b>July 2012</b>		
8-11 July	Brisbane, Australia	<a href="#">2012 Brisbane International Geospatial Forum</a>
<b>16-20 July</b> <b>“NEW”</b>	Universiti Teknologi Malaysia, Johor Bahru, Malaysia	<a href="#">AGSE 2012 - Applied Geoinformatics for Society and Environment</a> <b>Conference Theme: "Geoinformation - Catalyst for planning, development and good governance"</b> <a href="#">Contact</a> AGSE 2012 is an interdisciplinary, international forum for sharing knowledge about the application of Geoinformatics with focus on application and on developing countries. Workshops planned so far: - Spatial Analysis with Open Source - gvSIG and SEXTANTE (D. Schröder, HFT Stuttgart, Germany) - ILWIS - advanced topics (Md. Zahid Hasan Siddique, Institute of Water Modelling, Dhaka, Bangladesh) - Raster based analysis using R statistical software (S. Pareeth, International Water Management Institute, Colombo, Sri Lanka) - Python in three hours (V. Wendlik, HFT Stuttgart, Germany) - Implementing OGC conformant webservice using PostGIS and GeoServer (R. Kettemann, HFT Stuttgart, Germany) - Application of MODIS 1 km LST product for characterisation of UHI (Arathyram R.S,m National Remote Sensing Center,ISRO Hyderabad) - An Introduction to Ecological Niche Modelling Using DIVA GIS (Sooraj N P, MSc.MPhil, Activ Environmental Services, Cochin) - Strategic process management for introducing GIS (F.-J. Behr, HFT Stuttgart, Germany) - Fuzzy logic analysis (Pulsani Reddy, India)
23-27 July	San Diego, USA	<a href="#">Esri International User Conference</a> <b>Now Accepting Presentation Submissions</b> Participation from the GIS community makes the Esri International User Conference (Esri UC) < <a href="http://www.esri.com/events/user-conference/index.html">http://www.esri.com/events/user-conference/index.html</a> > much more than just another technology user conference. It's a place to collaborate with your colleagues and get inspired by their work. What do you know that could help others make the most of ArcGIS? Here's your chance to share tips, strategies, and accomplishments with fellow GIS professionals. Both new and seasoned ArcGIS users are encouraged to submit presentation abstracts for consideration. Of particular interest are proposals related to:

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		<ul style="list-style-type: none"> <li>Applying ArcGIS to new problems in innovative ways</li> <li>Leveraging new capabilities of ArcGIS 10</li> <li>Extending your GIS to a broader audience through web and mobile applications</li> <li>Driving GIS advancements in your industry</li> <li>Collaborating inside and outside your organization to increase efficiency, share data, and maximize geospatial resources</li> </ul> <p>Review the <a href="#">session topics</a> to see how your contribution can fit into this year's agenda.</p> <p><b>Abstract submission deadline:</b> passed.</p>								
<b>August 2012</b>										
<b>6 – 8 August</b>	Melbourne, Australia	<p><b><a href="#">GITA 2012</a></b> – GITA 17th Annual Geospatial Solutions Conference “From Fundamentals to the Future – Managing Assets Spatially”</p> <p><b>Important dates</b></p> <table border="1"> <tr> <td>30 March 2012</td> <td>Abstract submission closes</td> </tr> <tr> <td>late April 2012</td> <td>Authors notified of initial acceptance or otherwise; successful authors invited to submit a full paper</td> </tr> <tr> <td>5 March 2012</td> <td>Registration opens</td> </tr> <tr> <td>31 May 2012</td> <td>Deadline for authors to register for the meeting</td> </tr> </table> <p><a href="#">Contact</a></p>	30 March 2012	Abstract submission closes	late April 2012	Authors notified of initial acceptance or otherwise; successful authors invited to submit a full paper	5 March 2012	Registration opens	31 May 2012	Deadline for authors to register for the meeting
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<b>25 August – 1 September</b>	Melbourne, Australia	<p><b><a href="#">XXII International Society for Photogrammetry &amp; Remote Sensing Congress</a></b></p> <p>Email: <a href="mailto:isprs2012@icms.com.au">isprs2012@icms.com.au</a></p>								
<b>September 2012</b>										
<b>2-4 September</b>	Wellington, New Zealand	<p><b><a href="#">The 4th Digital Earth Summit focusing on “Natural Disasters” Call for Papers</a></b> (<i>Deadline for abstracts submission: <b>15 June 2012</b></i>)</p>								
<b>6-8 September</b>	Tokyo, Japan	<p>2012 International Conference for OpenStreetMap (OSM) <b><a href="#">State of the Map 2012 (SoTM12)</a></b></p>								
<b>9-14 September</b>	Ticino, Switzerland	<p><b><a href="#">11th NCCR Climate Summer School, 2012</a></b></p> <p>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.</p> <p><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>.</p> <p>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></p> <p>Telephone +41 31 631 31 45, Telefax +41 31 631 43 38.</p>								
<b>17–9 September “AMENDED”</b>	Hanoi, Vietnam	<p><b><a href="#">11th Asia Geospatial Forum</a></b></p> <p><b>Abstract submission deadline 30 June, 2012</b> <a href="#">Contact</a></p>								
<b>18-21 September “NEW”</b>	Kashi, Xinjiang, China	<p><b><a href="#">The International Symposium on Earth Observation for Arid and Semi-Arid Environments</a></b> (ISEO 2012) with the theme of “Earth Observation Illuminating Central Asia”.</p>								
<b>October 2012</b>										
<b>2-4 October –</b>	Gauteng, South Africa	<p>Call for papers for the peer-reviewed academic track of <b><a href="#">GISSA Ukubuzana 2012</a></b></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</p>								

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		<p>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</a> (1 MB pdf)</p>
24-26 October	Beijing	<p><b>“NEW”</b></p> <p><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”.</p>
29 October – 2 November	El Jadida, Morocco	<p><a href="#">10th biennial International Conference of the African Association of Remote Sensing of the Environment (AARSE)</a></p>
29 October – 2 November	El Jadida, Morocco	<p><b>“AMENDED”</b></p> <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. AARSE 2012 welcomes dedicated workshops - organized as pre- or post-conference events or as halfday events concurrent with the conference scientific programme (the latter in exceptional cases only).</p> <p>Workshops should present state-of-the-art research and cover the development, deployment and operational use of Earth observing systems both space- and airborne.</p> <p>Workshop Summary Submission</p> <p>Interested parties should submit a summary of the workshop they propose. The summary must include:</p> <ul style="list-style-type: none"> <li>- Title of workshop;</li> <li>- Relevant keywords;</li> <li>- Full name and title, e-mail address, fax, telephone of workshop organizer(s);</li> <li>- Short description of the workshop (maximum one page);</li> <li>- Target audience;</li> <li>- Proposed duration of workshop</li> </ul> <p>The Workshop summary should reach <a href="#">the Chairman</a> of the Local Organizing Committee: Prof. <a href="#">Kamal LABBASSI</a>, no later than 30 June 2012. Workshop proposers will be notified of acceptance as soon as the requirements are fulfilled.</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>August 2013</b>		
<b>26-29 August</b>	Kuching, Sarawak, Malaysia	<a href="#">The 8th International Symposium on Digital Earth (ISDE8)</a> with the theme of "Transforming Knowledge into Sustainable Practice" will be held in Kuching, Sarawak, Malaysia.
<b>"NEW" 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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