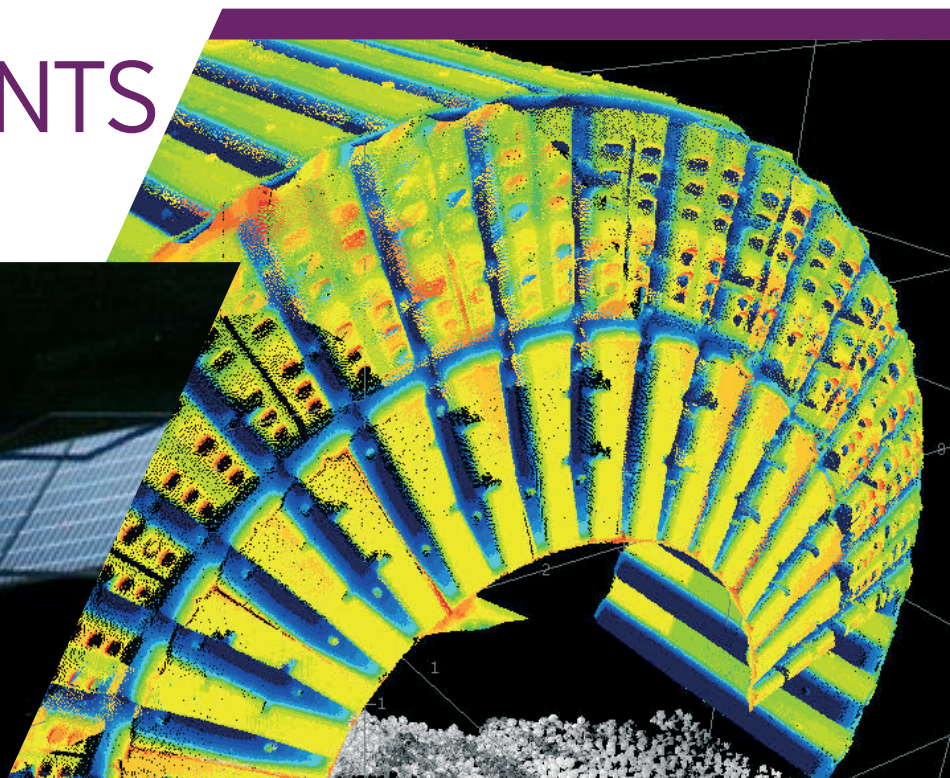


ACHIEVEMENTS 2003-2008



The CRC for Spatial Information brings together \$100 million in cash and in-kind from our partners to identify the questions of our future spatial information needs - who needs spatial information, in what form, and when - and to seek innovative solutions to meet these needs.

Our aim is to create new wealth and benefits for our participants, and for the nation, through research innovation and commercialisation; through educational activities; and through powerful collaboration that builds institutional capacity.

Since 2003, our award winning CRC has commercialised intellectual property, generated spin-off companies, brought industry sectors together and helped galvanise the Australian spatial information community. Our key achievements to date underpin Australia's emerging spatial information industry which in 2006-07 had an estimated revenue of \$1.4 billion and contributed \$12.6 billion to GDP.

CRC for **SPATIAL INFORMATION**



TECHNOLOGY TRANSFER & COMMERCIALISATION

1. Industry-wide impact

An independent review of all our CRCSI companies and government participants found that "at least 10 end-user organisations were implementing new ideas in their business from the CRC for Spatial Information operations". The report goes on to note

"The CRCSI is seen as being vital to the organisation of the fledgling spatial information industry, and as creating a cross-sectoral collaborative framework that will lead to economic and social benefits to the nation in the longer term"

"Given the ill-defined and fledgling nature of the Spatial Information industry sector, it is commendable that more than half of the research users believe that the CRCSI has a high level of understanding of the industry's research needs"

An annual analysis by KPMG of financial performance by the companies in the CRCSI found that their metrics outperformed industry norms for turnover, employment, profitability and other key success indicators.

2. MillMapper... through Scanalyse Pty Ltd

MillMapper is an innovative terrestrial laser scanner technique for safely measuring the rate of wear of mineral processing mills. It is the first of its kind in the world. The CRCSI was instrumental in developing the application, establishing through Curtin University the start-up company Scanalyse Pty Ltd, and getting venture capital funding.

Scanalyse Pty Ltd won the 2007-08 Western Australian Inventor of the Year Award.

3. Indji Watch... through iintegrate Systems Pty Ltd

Indji Watch™ is a web-based emergency management system for integrating all tactical emergency management activities through one web portal. It has been commercialised through iintegrate Systems Pty Ltd. Significant sales into the large energy utility and mining markets have been made. Indji Watch now monitors transmission assets in the eastern seaboard interconnected power grid, providing realtime knowledge on the status of these assets.

Indji Watch won the online category for innovation at the Western Australian Information Technology and Telecommunications Awards in 2008.

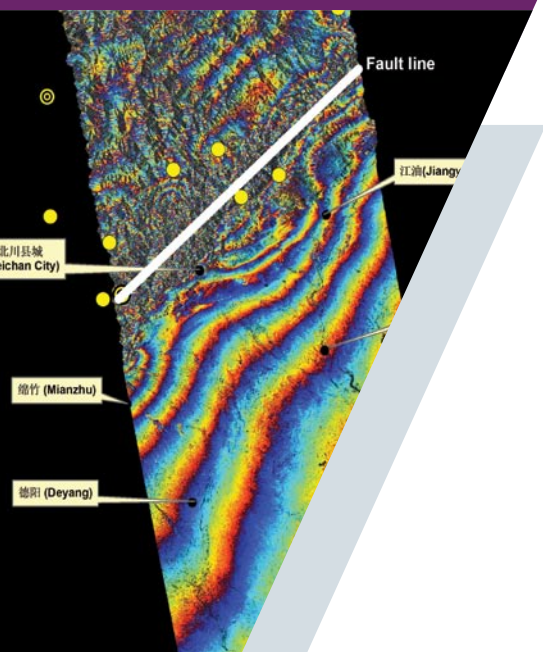
4. Barista Software Package

Barista is an affordable, easy-to-use photogrammetric software system for the generation of spatial information products from satellite imagery. It has been created from a CRCSI research project at the University of Melbourne. It has been licensed for use to Infoterra and is currently being trialled by Pasco Corporation, DIGO, SKM, Lands NSW and the government of Bhutan. We are in negotiation with SKM to become the commercial partner to take Barista into the marketplace.

5. Advanced Radar Processing Services

We developed new capabilities to use radar imagery to map changes in the heights of fixed objects like buildings or changes in land heights over large areas caused by, for example, mining subsidence or due to depletion of groundwater resources. We have provided research services to a range of fee-paying organisations including national resource companies and international organisations. This work is in the process of being commercialised through a spin-off company in collaboration with the University of New South Wales. Most recently we assisted Chinese rescue operations following the 2008 Sichuan earthquake by analysing ground displacement.

ACHIEVEMENTS 2003-2008



CRC for SPATIAL INFORMATION

CAPACITY BUILDING

6. PhD and Masters Students

The CRCSI has exceeded PhD enrolment targets, with over 24 scholarships awarded. Many of these students are now graduating and joining the workforce. All have found employment within the spatial industry, mostly with our participants.

A national online Education Portal has been established, supported by the wider industry, and is recognised as the national 'clearing house' on skills formation issues. The CRC for Spatial Information is a key member of the Australian Spatial Education Advisory Council, which has representatives of all major spatial interest groups. New university subjects have been put online and industry short courses held. A unique partnership with the Spatial Sciences Institute (our professional association) is delivering strong skills development throughout the spatial information industry including into remote and rural Australia.

7. End-user Capacity Building

Importantly, the different sectors of the spatial information industry have developed a better understanding of how to work together effectively to realise innovation. Smaller enterprises in particular, but also larger organisations such as government departments, now have a better understanding of how collaborative R&D and academic interaction can deliver increased productivity. "Innovative organisations are organisations that believe in and can pursue collaboration. The CRC for Spatial Information gives us the structure, the precedents and the understanding to collaborate at very low transaction cost and risk." Mark Judd, 43pl Chairman

NEW ORGANISATIONS

8. 43 Pty Ltd

Our national SME consortium, known as 43pl, is unique in the CRC Program and is widely judged a great success. Established with 43 SMEs in 2004, membership of 43pl has now grown to over 50. The annual cash commitment of 43pl members has almost doubled. In-kind contributions are also more than twice the level promised at the CRC's establishment. Two start-up companies have been formed from CRCSI activities. Our independent KPMG survey of financial performance of 43pl companies shows them outperforming industry norms. Clearly we are succeeding in diffusing technology through an emerging industry sector, and holding the interests of a significant proportion of the entire Australian spatial industry for over five years now.

43pl and the CRC for Spatial Information won the STAR Award for Small Business Engagement from the CRC Program.

9. Australian Spatial Consortium

In March 2007, industry leaders from public, private and research sectors agreed at the annual CRC for Spatial Information strategic planning session that Australia needed to form a new body designed to address those issues in the national interest that can best and only be tackled through partnerships across all sectors. A Steering Committee was formed in July 2007 and the formation of the Australian Spatial Consortium was announced by the Federal Government in August 2007.

The Steering Committee comprises representatives from ANZLIC - the Spatial Information Business Association, the Spatial Sciences Institute, PSMA Australia Ltd, 43pl and the CRCSI. The Australian Spatial Consortium has indicated that it wishes to be a strong advocate for a new CRC for Spatial Information bid in 2009.

RESEARCH

10. National Network of Professorial Appointments

The CRCSI is facilitating four professorial appointments across the nation. The first was in 2005 with the appointment of Professor Kim Lowell at the University of Melbourne in partnership with the Victorian Department of Primary Industries. Prof Lowell was recruited from Canada. The second appointment is Dr Linlin Ge at the University of New South Wales in partnership with the Department of Lands NSW. The third will be at Curtin University of Technology, in partnership with Landgate and the Western Australian government. The fourth is intended to be through the Queensland University of Technology in partnership with the Queensland Department of Natural Resources and Water and the Queensland government. These high quality appointments will significantly strengthen the capacity of the nation in the spatial information sciences by working together across the academic, commercial and government sectors.

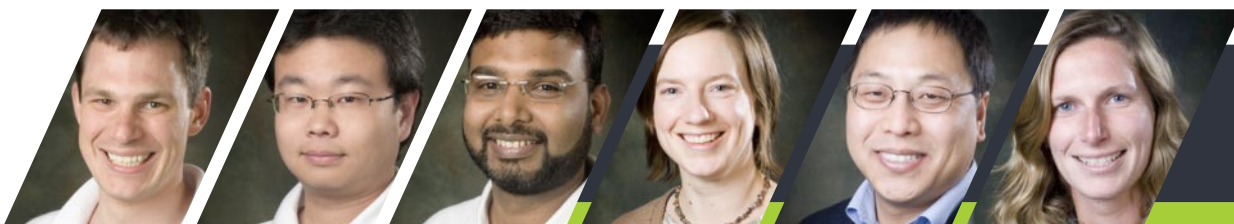
11. Commissioned Research

The CRCSI has completed many research and consulting contracts, including

- A review of salinity mapping methods
- Fire management risk assessment
- GNSS review in Western Australia
- Science paper for the National Data Elevation Framework
- Development of the Global Carbon Monitoring System
- Coastal vulnerability Digital Elevation Model for the Department for Climate Change

12. Publications

The CRCSI has delivered over 200 publications; including many refereed journal papers, books and book chapters, conference papers and reports and other publications. A number of CRC publications have won international awards.



RESEARCH CONTINUED

13. Economic Impact Study

The first comprehensive study of the impact of spatial information on the Australian economy was commissioned by CRCSI but independently conducted by ACIL Tasman. It examines the contribution of spatial information and its technologies to GDP, consumption, employment and export revenue. The study estimates contribution to GDP in 2006-07 to have been between \$6.4 - \$12.6 billion.

14. Innovation Factors in Australia's SI industry

The CRCSI has conducted detailed research into the factors that are helping to accelerate or impede innovation in companies in the industry. It has also looked at the best processes in place world-wide for managing innovation in companies. Over 70 factors of innovation have been identified. A blueprint for innovation best practice has been prepared for implementation by our stakeholders. Ongoing work to inform innovation practices is being undertaken.

15. Successful Supplementary Bid

In December 2006, the Australian Government awarded a "supplementary bid" to the CRCSI. This bid brought in 13 new partners and an extra \$15 million (cash and in-kind) over three years, including \$2.7 million of federal cash funding matched by our participants. Through the supplementary bid, Ergon Energy became a significant new corporate participant in the CRCSI.

STRATEGIC ALLIANCES

16. Chinese Academy of Sciences

The CRC for Spatial Information has entered into Memoranda of Understanding with China's peak science body, the Chinese Academy of Sciences and with the Chinese University of Hong Kong. We have also formed the Joint Centre for Spatial Information with the Chinese Centre for Earth Observation and Digital Earth (CEODE). These agreements have seen a considerable flow of Chinese satellite imagery and funding to the CRCSI as part of a program of collaborative research.

17. GEOIDE Canada

The CRC for Spatial Information has concluded a Memorandum of Understanding with GEOIDE, one of Canada's National Centres of Excellence and the closest equivalent, anywhere in the world, to the CRCSI. This has generated a flow of knowledge and several staff exchanges. The state of Alberta is seeking our advice and ongoing research collaboration in establishing a CRC-like consortium.

18. International Society for Digital Earth

In June 2006, 12 countries, including Australia, became Foundation Members of the International Society for Digital Earth (ISDE). The CRCSI provides the Australian representative to the Council of the ISDE. The purpose of the ISDE is to encourage the use of new technologies, and especially the spatial sciences, to assist with sustainable development. Our concept of Virtual Australia is very well regarded by the ISDE. Mr Al Gore is the patron of the ISDE.

NETWORKING

19. Seventy partners

The CRCSI has grown from 55 participants at establishment in 2003 to 70 participants in 2008. It is now connected vertically and horizontally throughout the spatial information 'value chain' and has very good links with user communities, technology and service providers, and regulatory and policy frameworks.

20. Most popular website for spatial information

A global Google search confirms that the website of the CRC for Spatial Information is the most popular site on the internet for the search phrase 'spatial information' with over 15,000 visitors a month. Its Education Portal also ranks at number one, and was adopted as the 'National Clearing House' by the Australian Spatial Education Advisory Committee in April 2008. We are providing information on the opportunities our platform technologies offer to the wider community at unprecedented levels.

AN INDEPENDENT SURVEY OF END-USERS

"70% of users, and particularly the SME end-users, are well satisfied with their level of access to CRCSI's research and expertise."

"At least ten organisations are implementing new ideas from the CRC."

"... the CRCSI is very well placed to deliver economic benefit through 43pl members to the industry."

"CRCSI's research users highly value the increased networking opportunities provided by the CRCSI. The Annual Conference remains a highlight of the research user's networking strategy and the CRC's communication mechanisms are highly regarded."

FURTHER INFORMATION

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