



CEDISC Achievements in 2006 and 2007

CEDISC Objectives	Achievements 2006	Achievements 2007
(a) to act as a catalyst to achieve the research goals of UniSA and the Minister		CEDISC hosted the Asia Pacific Systems Engineering Conference held between the 27th and 29th of March 2007 that focused on providing expert international knowledge to the South Australian defence industry community
(b) to improve knowledge and devise new applications in respect of defence and industry systems capability	CEDISC is influential in several engineering and related organisations such as, IEEE Engineering Management Society, Association of Quality, INCOSE and SESA	See left and also outcomes of tasks
(c) to undertake and promote strategic, investigative and applied research and learning in respect of defence and industry systems capability	Many, see task outcomes	Many, see task outcomes
(d) to promote the value and provide leadership in the development of an applied research culture in systems capability concepts		
(e) to draw together skilled entities, including UniSA, to provide services in relation to defence and industry systems capability and act as a link between systems capability service providers and users	CEDISC staff have actively participated in several national and international conferences that have resulted in significantly raised visibility of South Australian systems research capabilities with international organisations. A consequence of this is a series of new agreements being brokered between UniSA and overseas institutions such as The National University of Singapore, Stevens Institute of Technology, Loughborough University, Cranfield University and the Naval Postgraduate School	As left plus the work in the Defence Research Aggregation Plan (DRAP). The Associate Degree with TafeSA also helps to bring the Tafe sector into the systems arena
(f) to encourage industry participation in research activities addressing issues of immediate and strategic importance to defence and systems capability concepts and establish systems capability enabled defence and industry sectors in SAa	CEDISC has engaged in three contracts with DMO's Tactical Information Exchange Integration Office (TIE IO) to provide research services in defence information networking modelling and simulation	CEDISC networking enabled UniSA to lead the DFCTC bid in Defence Systems with three other universities, seven prime contractors and around 20 SMEs. While unsuccessful, this bid has created the momentum for important industry related research
(g) to facilitate collaboration between research, education, training and industry organisations to provide systems and software technology and capability services to meet Australian Defence and Industry requirements	CEDISC has taken delivery of mission system software that not only will become the cornerstone of the postgraduate Systems Integration Laboratory but also showcases South Australian defence SME capability	
(h) to provide Government and industry with advice and recommendations on the implications of research findings for policy and practice	CEDISC have engaged with DSTO for the provision of services related to improving their process framework	CEDISC staff provided Professional Services support to the NCW Integration and Future Technologies Team in Canberra in the areas of NCW integration planning and high level design

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(i) to improve defence and industry capability in systems knowledge, systems and software engineering, and process capability maturity to grow the defence sector in South Australia		CEDISC supported the Government of South Australia's initiative for promoting SA based organisations at the Avalon Air Show in conjunction with TIE IO. CEDISC co-ordinated the participation of eight SA organisations in a demonstration of NCW capabilities at the Avalon Air Show in Mar 07
(j) to provide a significant value-add contribution to Australia's national defence industry capability in systems development	CEDISC has become a member of Rapid Prototyping Development and Evaluation Organisation (RPDE)	
(k) to enhance Australian industry's capability in systems integration and systems capability maturity accreditation		
(l) to encourage the development of deep skill base in all aspects of software and systems engineering and systems integration as required by defence to build modern complex electronic military systems	CEDISC worked with four SA based SMEs to assess their business and engineering processes and to provide guidance on areas for improvement	Two additional collaborations with SMEs commenced in 2007. The SME interventions have produced a number of good publications
(m) to grow the local defence industry both in terms of wealth and employment	The Professional Skilling task team worked closely with industry in the formulation of a skilling program to address defence industry skill shortages	As a result of an extensive industry needs analysis, the Associate Degree for Defence Systems is proposed and approved by UniSA. The program commenced in February 2008 The Defence Industry Process Capability task has been highly effective in increasing industry capability
(n) to leverage and build from the Commonwealth Government's Defence Electronic Systems Sector Strategic Plan, DMO, February 2004	CoESI was established in UniSA and along with CEDISC have common grounds for addressing the needs stated in the Defence Electronic Systems Sector Plan (2004) and seek to leverage each other's expertise	DASI was formed in 2007 and is now a substantial national resource in systems engineering education, training, research and consultancy
(o) to generate long term industry and Commonwealth commitment to these objectives	The CEDISC infrastructure project has marketed CEDISC's Vision and Mission at various industry forums that has directly resulted in awareness and commitment of industry and Commonwealth to CEDISC's objectives. Several CEDISC related tasks commenced in 2006 that are strong indicators of future long-term commitment by industry to CEDISC objectives	CEDISC signed a Non Disclosure Agreement with Northrop Grumman for providing technical support in Modelling & Simulation for US BAMS and AIR 7000. A proposal for CEDISC engagement in the BAMS program and subsequently the migration of this model to the Australian Industry Capability Partner is envisaged Work continues to establish additional defence systems engineering research capability in South Australia
(p) stimulate activities and relationships that will assist in perpetuating the objectives set out above after the Term, without further financial assistance from Government		CEDISC expansion has enabled the formation of the Defence & Systems Institute (DASI) at the University of South Australia. DASI unifies all Systems Engineering and Test and Evaluation activities at UniSA into one Flagship Institute