

AUSTRALIA'S SOVEREIGN SUBMARINE CAPABILITY

ASC





100%

Australian owned.



PROVEN, CAPABLE, DEPENDABLE

ASC has proudly served as Australia's sovereign submarine builder and sustainer for over 35 years.

With a history of innovation and collaboration, ASC has played a pivotal role in growing Australia's defence industry and strengthening the nation's naval capabilities.

ASC built the Collins Class submarines, and sustains the fleet at its facilities in South Australia and Western Australia. They are among the world's most advanced conventional submarines and are a potent capability for the Royal Australian Navy.

ASC delivers regular improvements and upgrades to the fleet and integrates cutting-edge technologies into the platform. Supported by a highly skilled Australian workforce and a robust sovereign supply chain, ASC delivers world-class submarine performance to meet Royal Australian Navy operational requirements.

The fleet's Mid Cycle Dockings are carried out at ASC's facilities in Western Australia and Full Cycle Dockings, two-year deep overhauls, are performed at its South Australian facility. ASC's dependable service guarantee accommodates unscheduled and in-operation servicing as required by the Royal Australian Navy, domestically and internationally.

LIFE OF TYPE EXTENSION PROGRAM

ASC is preparing to deliver the Collins Class Submarine's Life of Type Extension (LOTE).

This upgrade will continue the evolution of the fleet and maintain Australia's world-class submarine capability into the 2040s.

ASC's specialist engineers are engaged in the planning phase of the program. Diesel engines and generators will be replaced, major equipment upgraded, and in-depth enhancements carried out across each of the six boats.

The program will integrate leading international technology while maximising Australian Industry Content.



AUSTRALIA'S SOVEREIGN SUBMARINE PARTNER

ASC is a longstanding partner of the Royal Australian Navy.

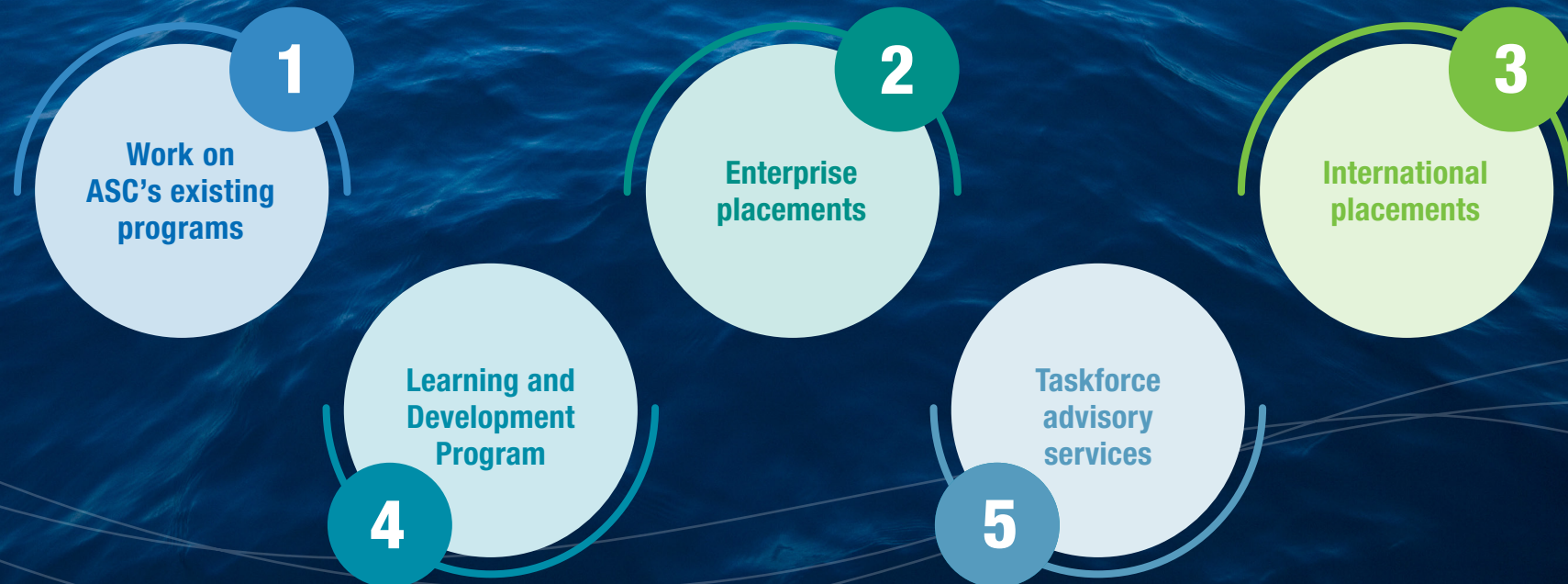
SOVEREIGN SHIPBUILDING TALENT POOL

ASC is working with the Australian Government to deliver the Sovereign Shipbuilding Talent Pool (SSTP).

The program will maintain and grow Australia's unique skills to help ensure the nation is 'work-ready' for the nuclear-powered submarine program.

ASC is collaborating with domestic and international partners across industry, government, and education and training to deliver the five streams of this important initiative.

The SSTP consists of five work streams:



SUBMARINE TRAINING AND SYSTEMS CENTRE

ASC has trained the Royal Australian Navy's submariners for more than 25 years.

This service is provided through state-of-the-art tools such as virtual reality technology which provides a realistic, 3D training environment.

ASC's expert instructors deliver more than 100 training courses each year - from standard operating procedures to advanced courses across the full spectrum of submarine platform and combat systems.

TECHNICAL SUPPORT NETWORK

ASC collaborates with national and international defence science and research organisations, education and training institutions, and industry bodies. These relationships support the continuous improvement of submarine engineering and maintenance activities, and the development of world-class, submarine specific expertise.

ASC'S COLLABORATORS INCLUDE:





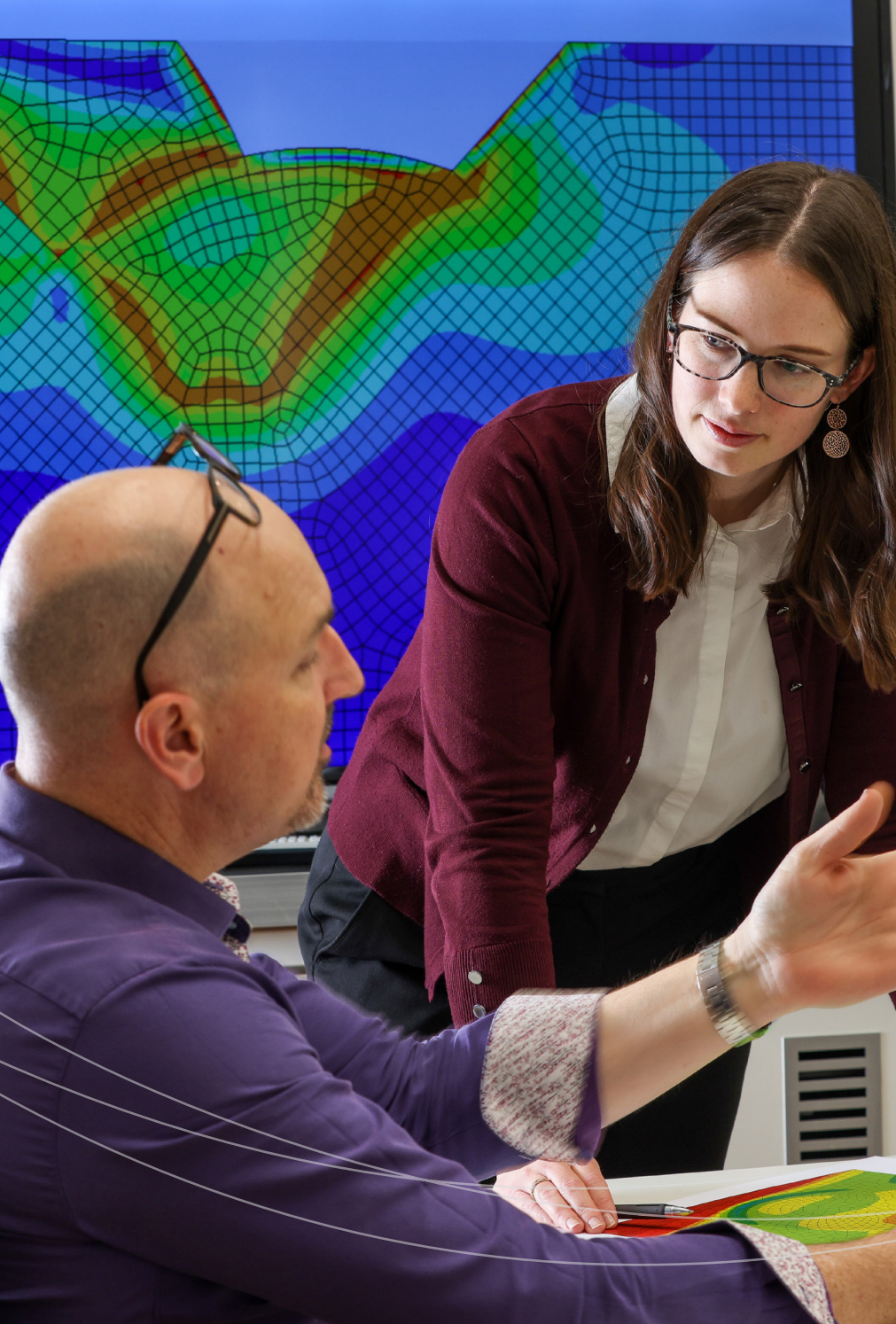
LEADING-EDGE EXPERTISE WITHIN A CULTURE OF INNOVATION

ASC is an authorised submarine engineering organisation with decades of submarine design, build and sustainment experience.

ASC was the first Australian defence company accredited with international standard ISO 55001, which recognises best practice in managing complex physical assets.



ASC's Digital
Transformation
Program is completing
its transformation
into a digital shipyard.



AUSTRALIA'S HUB OF SUBMARINE EXPERTISE

The combined experience of ASC's more than 1,500 employees is unparalleled in the nation, and spans the entire submarine life cycle. It's workforce encompasses decades of experience on international programs, including conventional and nuclear-powered platforms.

ASC's commitment to retaining and developing its workforce has created an enduring pipeline of submarine industry specialists.

ASC has the specialised people, processes and systems to deliver world-leading submarine build, maintenance and design services.

CAPABILITIES

- Submarine engineering
- Configuration management and data management
- Submarine construction
- Management of International Traffic in Arms Regulations (ITAR) material
- Supply chain and materials management
- Research and development
- Submarine systems integrations
- Commission, test and trials
- SUBSAFE engineering
- Submarine fabrication and construction
- Concept modelling
- Submarine maintenance: planned, emergent and upgrades
- Shock engineering
- Application of composite materials
- Corrosion management

FACILITIES

ASC operates from facilities that are unrivaled in Australia. ASC's Western Australian and South Australian sites are fitted with specialised workshops and assembly centres, warehouses and access to docking facilities.

ASC's South Australian site is located in the Osborne Naval Shipyard, the largest naval shipbuilding hub in the nation. A multi-story Maintenance Support Tower surrounds the submarine during deep maintenance to provide direct access to all levels, from all sides and is designed for modern, modular construction techniques. The facility is able to accommodate boats considerably larger than the Collins Class.

ASC's Materials Technology Laboratory is a National Association of Testing Authorities (NATA) accredited facility. It plays a key role in testing and assessing the performance of submarine materials, and collaborates with research, academic and industry partners to develop innovative solutions for the broader naval shipbuilding industry.



SHIPBUILDING

ASC was the lead shipbuilder in the Air Warfare Destroyer (AWD) Alliance for the construction of Australia's three Hobart Class AWDs an innovative contracting strategy between ASC, Raytheon Australia and the Australian Government. These were delivered between 2017 and 2020 and are the nation's most advanced and complex warships.

SUSTAINED INNOVATION

ASC is committed to continually improving submarine reliability and cost performance with every maintenance activity. This has resulted in the implementation of more than 1,000 design improvements to the Collins Class submarines since they were built.

ASC is focused on innovation. Major initiatives have reduced the time taken to complete a Full Cycle Docking from three years to two, through improvements including cutting and re-welding the hull for off-boat refurbishment of major equipment, implementing a single coat paint system, and developing innovative procurement solutions.



ASC's root-cause approach to improvement is informed by robust processes to identify, assess, and action change.





ROBUST AND RELIABLE SUPPLY CHAIN

ASC has developed Australia's largest and most complex supply chain operation that supports the Royal Australian Navy.

This has been achieved through the efforts of an experienced supply chain team utilising accredited processes, market-leading quality assurance programs and by creating robust partnerships.

ASC has grown Australian Industry Content in the Collins Class sustainment program to more than 90% and its supply chain team has proven experience managing entire program life cycles.

ASC's expertise has been recognised through many industry awards and accreditations including certification to the international, Chartered Institute of Procurement and Supply Corporate Standard – the first Australian defence company to achieve this endorsement.

ASC has 35 years of supply chain excellence from concept, preliminary planning and detailed design, through to construction and sustainment.



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