

Innovation Challenge – Document for Suppliers

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Acronyms and Abbreviations

Acronym	Description
AIC	Australian Industry Capability
HCFP	Hunter Class Frigate Program
ICN	Industry Capability Network

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1 Introduction

ASC Shipbuilding is Australia's leading naval shipbuilding organisation, contributing to the nation's continuous naval shipbuilding strategy and developing sovereign capability.

As a subsidiary of BAE Systems Australia and with more than 1,100 employees working across three naval shipbuilding programs, as capability provider to the Hobart Class Air Warfare Destroyer and Arafura Class Offshore Patrol Vessel programs and as prime contractor the Hunter Class Frigate Program, our aim is to deliver superior capability to the Australian Defence Force and create a vibrant, innovative and sustainable naval defence industry for generations to come.

As part of Hunter program, the maximisation of Australian Industry Capability (AIC) raises Australian industry ability to compete for and win domestic and international maritime work. This increased demand facilitates long-term investment and the development of a sustainable and competitive sovereign naval shipbuilding industry.

1.1 Our Innovation Hive

Featured on BAE Systems Australia's internal portal – the Innovation Hive is our platform for:

- Inspiring our people to get energised and innovate through ideas and collaboration
- Bringing our value of 'Innovation' to life
- Offering a proactive and visible way to address effectiveness and efficiency issues, empowering our people to drive change

Externally, our Innovation Hive demonstrates commitment to building Australian Industry Capability through the Hunter Class Frigate Program (HCFP). The Innovation Hive will encourage research and development into emerging technologies and seek to invest in a mixed portfolio of investments, academia and SME's, and build partnerships with the supply chain through our HCFP 'Innovation Challenges'.

1.1.1 Our Approach

As a part of building Australian capability, the HCFP will hold periodic challenge-based innovation events to encourage technological innovations to be transformed from content to capability and realised through technology and performance.

We will alternate between engaging industry and academia for both technology and innovation solutions and new products, with a focus on performance improvement challenges in the shipyard.

2 About BAE Systems / ASC Shipbuilding’s Innovation Challenge

2.1 Objectives

To engage and encourage industry and academia for technology and innovation solutions to strengthen and build Australian capability through:

- industry engagement and collaboration is encouraged through funding support to promote concept creation and experimentation
- focus on continuously improving competitiveness and effectiveness within the Australian industrial base by promotion of grand technical challenges

2.2 Innovation Challenge 2019 Scope

2.2.1 Table 1: Innovation Challenge Topic List

Topic	Category	Description
Digital Shipyard Track & Trace in the age of Industry 4.0	Augmented Industry 4.0 heavy manufacturing at the work cell.	Cell level digital confirmation of asset identity. Cell level digital confirmation of location. Enabler for digital integration into manufacturing systems (people, machines, instructions, performance) at a shipyard.
	Shipyard-level location & condition.	Parts, subassemblies, tools, & equipment location tracking & condition monitoring. Can encompass real-time-location-systems and industrial-internet-of-things sensors to provide a holistic dataset for visualisation. Solutions for wearables & cyber security.

2.3 Innovation Challenge Funding

As part of initial study from Suppliers to bring forth a solution (Phase 1 – Feasibility Study), ASC Shipbuilding will be looking to fund up to \$100K per proposal.

2.4 Innovation Challenge Process

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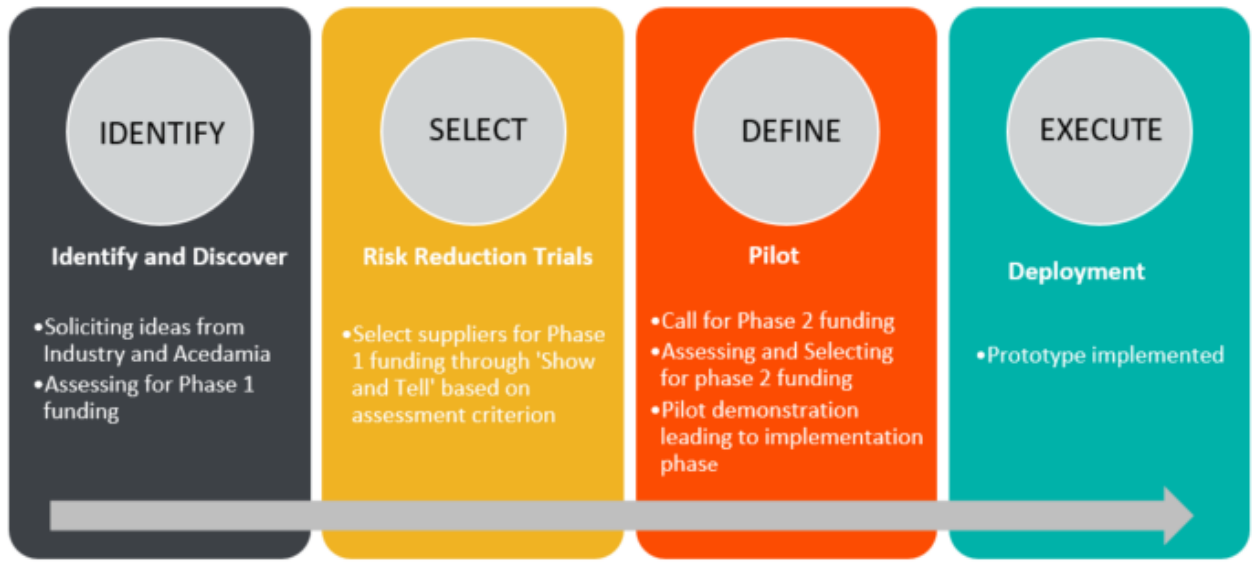
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2.4.1 Table 2 - Process

The process below defines the steps required to get your proposal off the ground and 'get going'. Each step is simple, and you will receive funding if the 'pitch' for your proposal is successful. Simply follow the process below to get started and visit [ICN Gateway \(ICN\)](#) for more information.



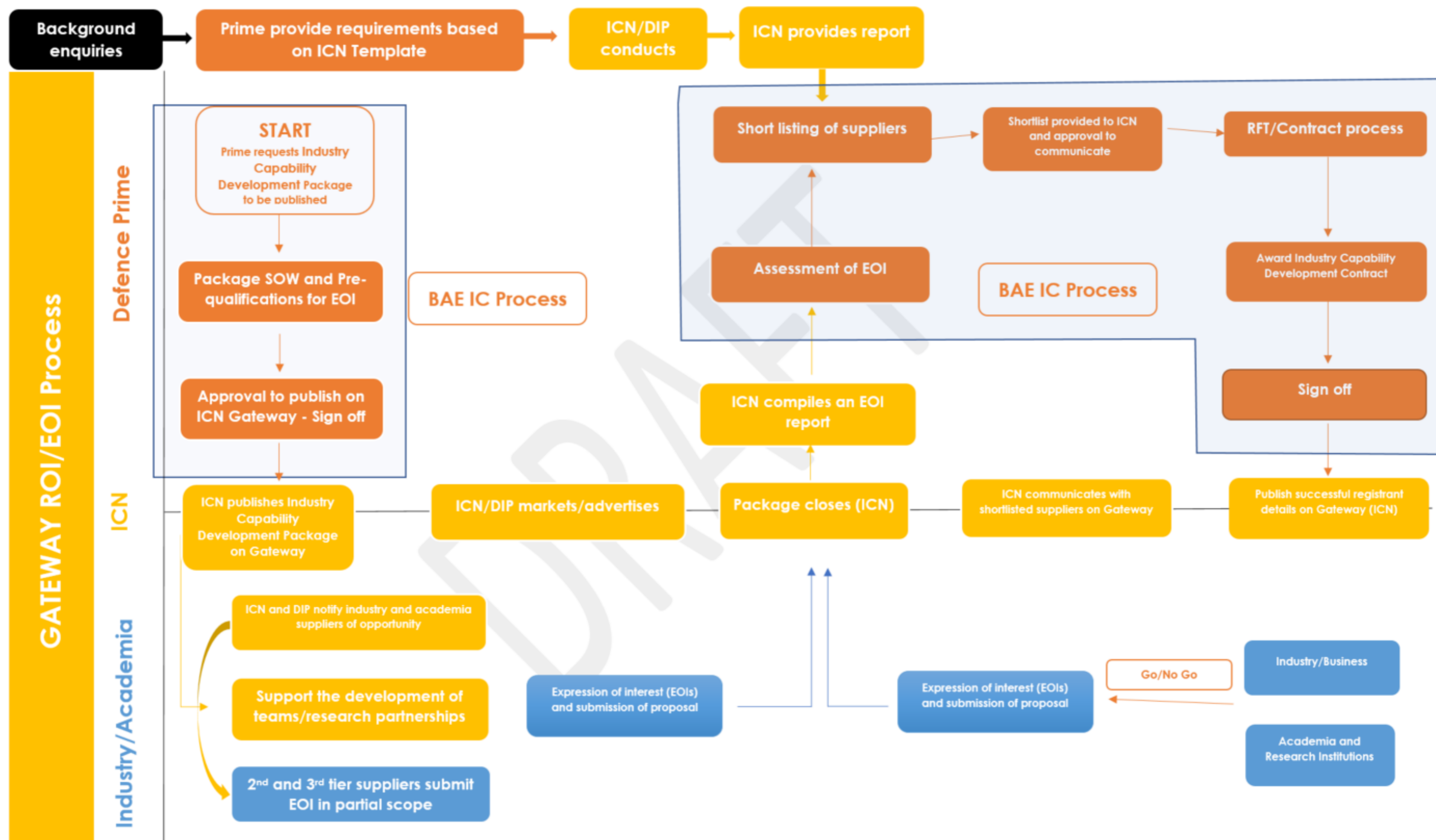
2.5 Innovation Challenge - How to Apply

All suppliers need to apply from [ICN Industry Capability portal \(ICN\)](#).

Below ICN process defines how the proposal activity will flow through various stages of the Innovation Challenge process.

2.5.1 Table 3 – ICN Process

ICN INDUSTRY CAPABILITY DEVELOPMENT PORTAL



2.6 Challenge Eligibility Criteria

To be eligible you must:

- have an Australian Business Number (ABN)
- be one of the following entities:
 - a company, incorporated in Australia
 - an incorporated trustee on behalf of a trust
 - an individual or partnership, provided you agree to form a company incorporated in Australia to enter into a grant agreement
- to be eligible for HCFP funding, industry / academia should follow the grand challenge process and demonstrate value in innovation solutions proposed through prototyping and benefit realisation.

Proposal Format:

- Solutions to be submitted through ICN in one or more formats:
 - online document submission through ICN (Attachments - PowerPoint presentation, word document, etc.)
 - video demonstration of the proposal / idea

2.7 Assessment Criteria

All proposals received through ICN will go through the following assessment criteria for shortlisting and to move further in the process.

2.7.1 Table 4 – Assessment Criteria

Innovative	Quality	Challenge Scope	Market Opportunity	Timeframe
<p>Innovative i.e. unique or different</p> <p>Improves efficiency, increasing productivity and/or quality of processes/systems</p> <p>Enhanced technology that meets Industry needs</p>	<p>Value proposition</p> <p>Scalable to other Industries</p>	<p>How the proposed solution will meet the challenge</p> <p>How the proposed solution is different to what is already in the market</p>	<p>The market need for the proposed solution to other industries</p> <p>The future commercial potential of the solution in domestic and/or international markets</p>	<p>Capacity, capability and resources to deliver the project</p> <p>Track record managing similar projects and access to personnel with the right skills and experience</p> <p>Supplier access, or future access to, any infrastructure, capital equipment, technology and intellectual property</p> <p>A sound project plan to manage and monitor the project and risks</p> <p>Project budget</p>

2.8 Innovation Challenge Timeline

The Innovation Challenge will follow the below schedule. Suppliers will be contacted by the ICN every step of the process.

2.8.1 Table 5 – Innovation Challenge Timeline

