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**FUTURE SUBMARINE PROGRAM - COMBAT SYSTEM INTEGRATOR
DESIGN, BUILD AND INTEGRATION CONTRACT**

ICN CONTENT DOCUMENT

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Change Control Sheet

Revision No.	Revision Date	Brief Outline of Change(s) (Page, Section, Figure, Table)	Approval Reference
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1 ICN Content Document

1.1 Introduction

1.1.1 The Industry Capability Network (ICN) gateway is a platform that is being leveraged by the Future Submarine Program – Combat System Integrator (FSP-CSI) Research and Development (R&D) Program and the broader FSP program to engage and collaborate with Industry.

1.1.2 Lockheed Martin Australia (LMA) has created a webpage on the ICN platform that enables industry to register and be notified when new work packages are available. R&D topics generated through the FSP-CSI R&D Program are an example of a work package that is hosted on the platform.

1.1.3 The ICN webpage created for LMA is available here:

<https://gateway.icn.org.au/project/3938/lockheed-martin-australia-future-submarine>

1.2 Purpose

1.2.1 The ICN Content Document is intended to provide a platform to centrally manage content to be included on the ICN page from an FSP-CSI R&D Program perspective. The document contains the text that is displayed on the LMA ICN webpage and enables a method to evolve the content overtime.

2 Document Limitations

2.1 Table 1 lists Document Limitations applicable to this document.

Table 1: Document Limitations

Source Entity	Document and Section within document where source information is reproduced	Attributed and Limitations (from metadata)
N/A		

3 Referenced Documents

3.1 Table 2 lists all documents referenced within this document.

Table 2: Referenced Documents

Reference	Data Identification Number	Title
{1}	FSP-CSI-004993	Conditions of Contract – R&D White Paper

4 Terms and Definitions

4.1 Table 3 lists all definitions relevant to this document.

Table 3: Definitions

Definition	Description
N/A	

5 Acronyms

5.1 Table 4 lists all relevant acronyms and abbreviations used within this document.

Table 4: Acronyms and Abbreviations

Acronym	Description
APB	Advanced Processor Build
AUD	Australian Dollars
CASG	Capability Acquisition and Sustainment Group
CDRL	Contract Data Requirements List
CSI	Combat System Integrator
DID	Data Item Description
DIN	Document Identification Number
EPDM	Enterprise Product Data Management
FSM	Future Submarine
FSP	Future Submarine Program
ICN	Industry Capability Network
IPT	Integrated Product Team
LM	Lockheed Martin
LMA	Lockheed Martin Australia
R&D	Research and Development
RFP	Request for Proposal
SA	South Australia
SDID	Subcontract Data Item Description
TBC	To Be Confirmed
TI	Technical Insertion
TRL	Technology Readiness Level
US	United States (of America)

6 ICN Content Document

6.1 ICN Description Content

Please Note: The following text (commencing from paragraph 6.1.2) details the content that is available on the LMA ICN webpage.

6.1.1 FSP-CSI R&D Program Overview:

6.1.1.1 The Future Submarine Program – Combat System Integrator (FSP-CSI) Research and Development (R&D) program has been developed to support and respond to the short- and long-term capability and technology needs for the Future Submarine Program (FSP).

6.1.1.2 The FSP-CSI R&D program aims to:

- a. drive capability improvement over the life of the Future Submarine (FSM)
- b. meet the Future Submarine's lifecycle operational needs
- c. support the establishment of an Australian industrial capability necessary to support the build, operation and sustainment of the Future Submarine.

6.1.2 How to Apply?

6.1.3 Standard Path:

6.1.3.1 Under the standard path, applicants wait for new R&D topics to be available for industry response. When released, the topics will be available as work packages on this ICN page. To ensure that you are notified when new work packages are released please ensure that you are registered to this ICN page. Information on how to submit your response is available once selecting a work package.

6.1.4 The next set of R&D topics are expected to be available in 3rd Quarter 2019.

6.1.5 Unsolicited Path:

6.1.5.1 In the Unsolicited Path, applicants may submit a white paper at any time by selecting the unsolicited white paper work package available on ICN. Information on how to submit your white paper is available once selecting the work package.

6.1.6 R&D Research Areas:

6.1.6.1 A broad set of research area categories have been identified to ensure the program considers an adequate cross-section of technologies when identifying technology gaps, capability needs and opportunities.

6.1.6.2 R&D topics released for industry response are aligned with the research areas defined below.

6.1.6.3 The research areas are outlined in Figure 1.

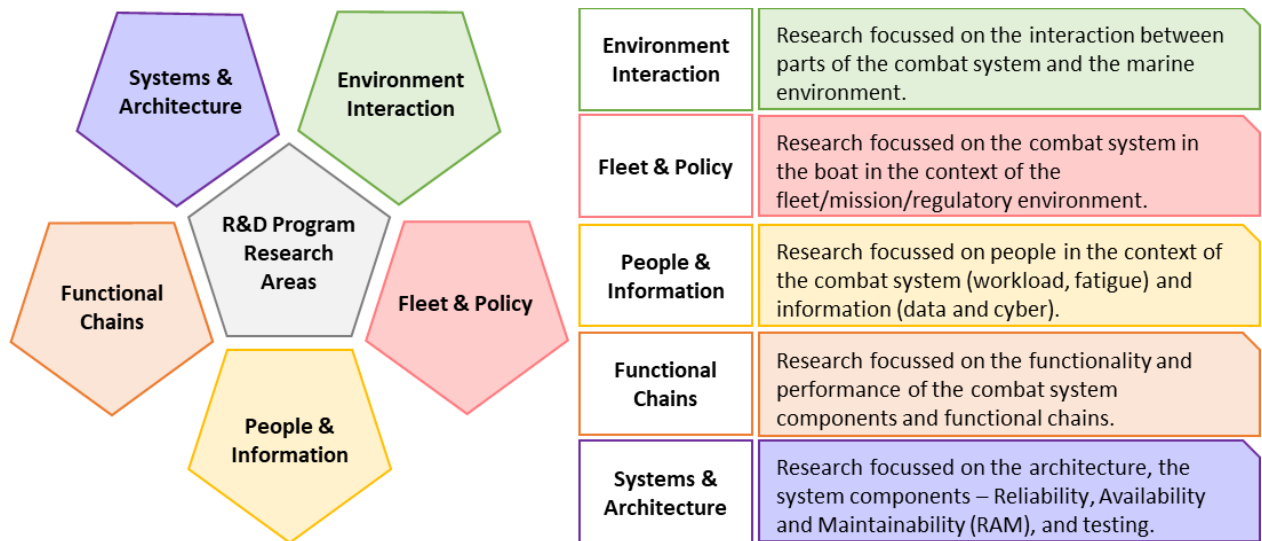


Figure 1: R&D Research Areas

6.1.7 R&D Process:

6.1.7.1 The standard R&D process commences with the release of R&D topics for industry, with a new set of R&D topics expected to be released every nine (9) months. Responses received will be reviewed and selected in a competitive process with the selected responses proceeding into the formal R&D Process. Guidance on the expected content to be included in a response is provided in section Stage 1 – RFP Content.

6.1.7.2 The process for responses that proceed is outlined in Figure 2.

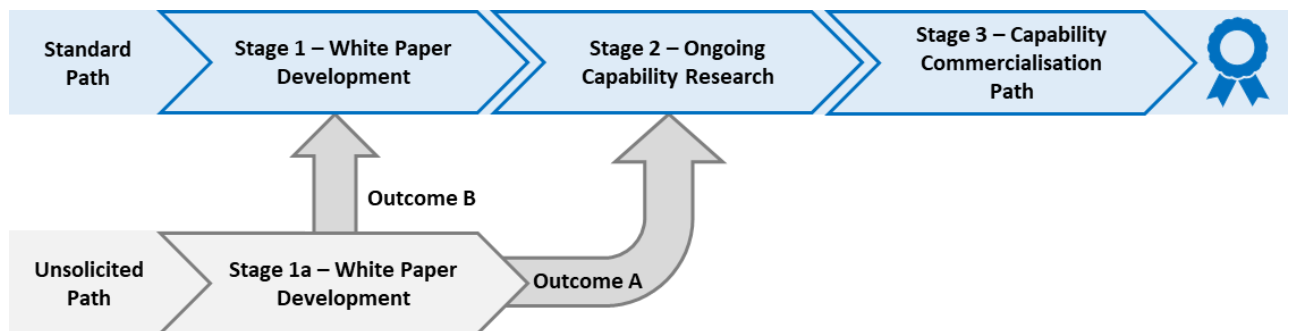


Figure 2: R&D Process

6.1.8 Standard Path:

6.1.8.1 The standard lifecycle of an R&D project on the FSP-CSI R&D Program is as follows:

a. **Stage 1 - White Paper Development:**

Funding: \$75,000 AUD per white paper (8 awards per cycle)

Research Timeframe: 6 months

Expected Outcome: Delivery of a white paper on the scientific or technical merit of an idea or technology in alignment with the R&D topic.

b. **Stage 2 - Ongoing Capability Research:**

Funding: \$250,000 AUD to \$1,000,000 AUD (Dependent on proposed research)
(4 awards per cycle)

Research Timeframe: 12 to 24 months (Dependent on proposed research)

Expected Outcome: Delivery of a TRL demonstration on the capability of the technology in alignment with the research plan developed in the white paper.

c. **Stage 3 - Capability Commercialisation Path:**

Funding: Independent of the FSP-CSI R&D Program

Research Timeframe: Dependent on technology and complexity

Expected Outcome: Integration of the technology into the production combat system baseline through completion of either the US APB/TI process or the Australian Capability Insertion Path.

6.1.8.2 At the end of each stage of the R&D Process the deliverables are reviewed and determined whether they will proceed to the next stage or be place on-hold for consideration at a later point.

6.1.9 Unsolicited Path:

6.1.9.1 The unsolicited pathway to participate in the FSP-CSI R&D Program is as follows:

a. **Stage 1a – White Paper Development**

Funding: No funding provided

Research Timeframe: N/A

Expected Outcome: Delivery of an unsolicited white paper developed by industry at-risk for consideration by the FSP-CSI R&D Program. The R&D topic may be derived by industry but is recommended to be in alignment with one of the research areas identified above.

6.1.9.2 The unsolicited white paper may proceed down the following pathways:

a. **Outcome A:** Accepted – White paper proceeds directly to Stage 2 – Ongoing Capability Research (see Standard Path)

b. **Outcome B:** Identified as having potential but requires further development – Industry will be provided with an opportunity to further develop the white paper. Funding may be provided.

The R&D topic may be identified as an emerging priority topic, with the program releasing the high-level topic for broader industry response. No detail regarding the applicant’s proposal will be included as part of topic.

c. **Outcome C:** Rejected – White paper is not in alignment with FSP-CSI R&D Program and does not proceed.

6.1.9.3 For further information please refer to the section Unsolicited Path Information.

ICN Content Document

6.1.10 Assisting Information:

6.1.10.1 The following information may be used to help assist with the development of RFPs and/or unsolicited white papers.

a. Stage 1 – RFP Content

Outlined below is guidance on what is expected to be included in an RFP as part of the program:

- (1) **Experience Summary** - Provide details on your organisations or universities experience in the research area, such as your role on projects/programs or provide case studies.
- (2) **Resource Overview** - Provide an overview on the resources that will be participating in the white paper. Detail experience in the research field and the value that they bring to the white paper.
- (3) **Approach & Methodology** - Outline your proposed approach (What) and methodology (How) to the R&D topic leveraging your organisation or universities experience and resources.

b. White Paper Content

Outlined below is guidance on what is expected to be included in a white paper for consideration by the program via either the Standard or Unsolicited Path:

- (1) **Literature Review** – Undertake a review of existing research in the field providing details on new techniques, methods and technologies.
- (2) **Research Identification & Definition** – Identify technology and/or capability gaps and determine the focus of your research.
- (3) **Project Scope Definition** – Develop a project plan including expected costing, estimated schedule and defined measures of effectiveness.

Further information on white paper expectations and content is available in the Subcontract Data Item Description (SDID) White Paper Content Document.

c. Unsolicited Path Information:

Prior to developing an unsolicited white paper, please consider the following:

- (1) An unsolicited white paper may be submitted at any time.
- (2) The unsolicited white paper will not be funded by the FSP-CSI R&D Program.
- (3) A delay may be experienced given the administrative burden involved with out of cycle proposals.
- (4) The FSP-CSI R&D Program may reject the white paper if not in alignment with the program.
- (5) The FSP-CSI R&D Program has the authority to use the high-level idea (not the proposed research) as a topic for broader industry response as part of the standard pathway.

For further information please contact the program.