

FSP-CSI R&D Program Overview:

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).

The FSP-CSI R&D program aims to:

- Drive capability improvement over the life of the Future Submarine (FSM)
- Meet the Future Submarine’s lifecycle operational needs
- Support the establishment of an Australian industrial capability necessary to support the build, operation and sustainment of the Future Submarine.

How to Apply?

Standard Path:

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.

A new set of R&D topics are expected to be released approximately every nine (9) months.

Unsolicited Path:

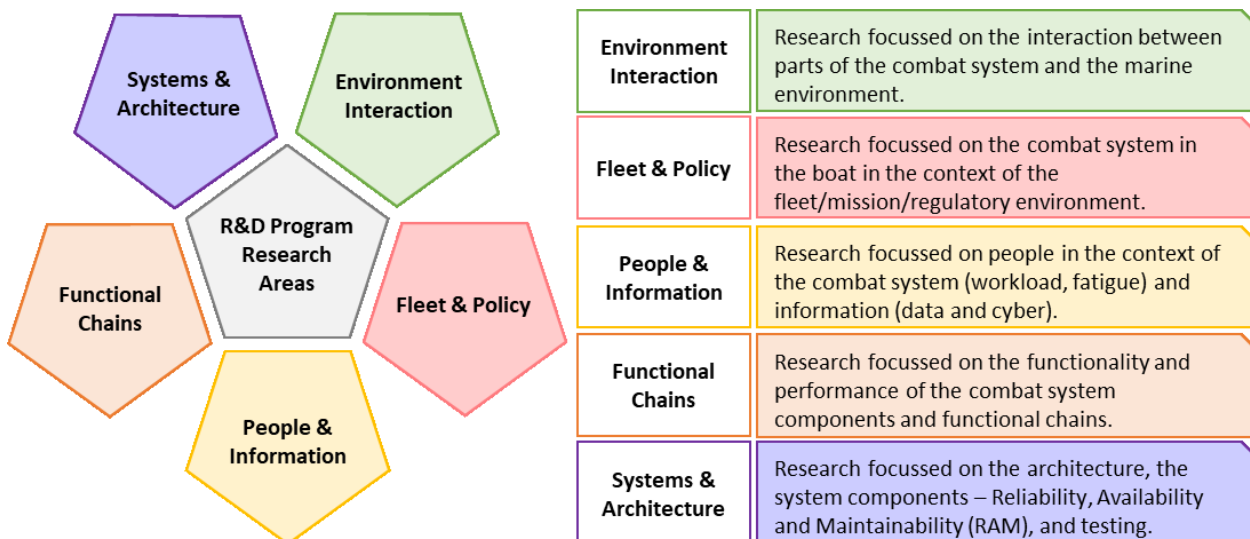
In the Unsolicited Path, applicants may submit a white paper at any time by selecting the unsolicited white paper work package available on ICN. Information on how to submit your white paper is available once selecting the work package.

R&D Research Areas:

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.

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

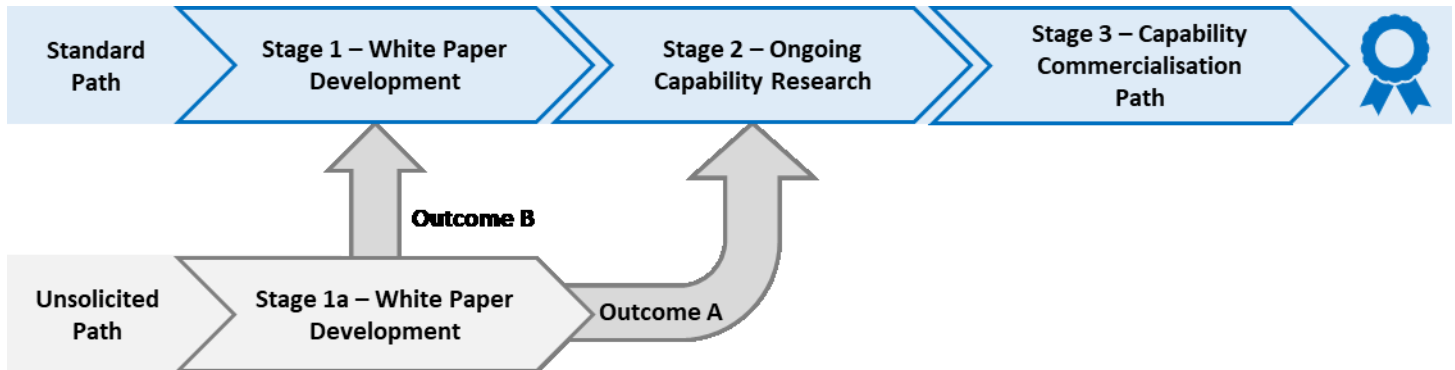
The research areas are outlined below:



R&D Process:

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*.

The process for responses that proceed is outlined below:



Standard Path:

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

1. **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.

2. **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 research plan developed in white paper.

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

Funding: Independent of 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.

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 placed on-hold for consideration at a later point.

Unsolicited Path:

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

1. **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.

The unsolicited white paper may proceed down the following pathways:

- **Outcome A:** Accepted – White paper proceeds directly to Stage 2 – Ongoing Capability Research (see Standard Path)
- **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.
- **Outcome C:** Rejected – White paper is not in alignment with FSP-CSI R&D Program and does not proceed.

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

Assisting Information:

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

1. Stage 1 – RFP Content

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

- a. **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.
- b. **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.
- c. **Approach & Methodology** - Outline your proposed approach (What) and methodology (How) to the R&D topic leveraging your organisation or universities experience and resources.

2. 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:

- a. **Literature Review** – Undertake a review of existing research in the field providing details on new techniques, methods and technologies.
- b. **Research Identification & Definition** – Identify technology and/or capability gaps and determine the focus of your research.
- c. **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.

3. Unsolicited Path Information:

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

- a. An unsolicited white paper may be submitted at any time.
- b. The unsolicited white paper will not be funded by the FSP-CSI R&D Program.
- c. A delay may be experienced given the administrative burden involved with out of cycle proposals.
- d. The FSP-CSI R&D Program may reject the white paper if not in alignment with the program.
- e. 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.

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For further information please contact the program.