

Propulsion Consortium Initiative (PCI) 2.0

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Agenda

- PCI Background
- PCI Scope
- Process
- Unique Aspects
- Prototype Transition
- Q&A



PCI Background



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- The USG has identified the need for a propulsion consortium to enhance the efficiency and effectiveness of the military aviation acquisition process.
- This consortium would perform critical research, development, test and evaluation within prototyping projects addressing propulsion needs and the future of the propulsion enterprise.
- The consortium will continuously promote an appropriately open technical architecture that optimizes USG investment by both leveraging best available existing commercial technology and developing new technology in partnership with industry
- OTA awarded November 2023
 - Base year with 2-year period of performance
 - One option with a three-year period of performance
 - Base period is \$95M
- PCI Program Office at Tinker AFB, OK



PCI Scope

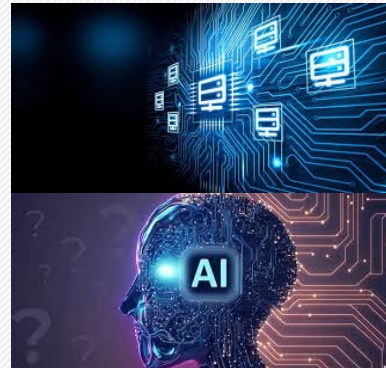


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Any topic generally consistent w/the RDT&E of propulsion systems.

- Mission areas include, but are not limited to:

- Digital engineering
- Artificial intelligence (AI)
- Engine health monitoring
- Manufacturing base
- Small engines
- Aircraft platforms, systems, components, or materials and any integration therein.



- Additionally, prototyping projects could include

- Platform electrical power systems (EPS) and thermal management systems.
- Includes Model Based Systems Engineering (MBSE)
- Platform specific and common architecture studies
- Component/systems qualification and integration efforts for smart power management,
- Higher density/higher capacity common generators
- Common aircraft lithium-ion batteries
- Flightworthy auxiliary or supplement power units
- Upgraded conversion electronics.

Process



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- Prototype projects are awarded to SOSSEC
 - Goal is to award in 45 days
 - Firm-Fixed-Price Prototype Projects
 - Milestone payments will track technical progress
- SOSSEC then enters into a Project Level Agreements with the Consortium Member (Project-Level Performer)
 - Project Level Performer is responsible for technical work however, SOSSEC is responsible for delivery
 - Government has direct insight into the technical performance
 - SOSSEC acts a Mentor to the Performer and Intermediary for the Government

Unique Aspects of PCI 2.0



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- PCI 2.0 is a “decentralized vehicle”
 - Program offices and services other than AF Propulsion Directorate may use it
- OTA is intended for use by multiple services
 - Air Force
 - Army
 - Navy



Prototype Transition to Production



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10 U.S.C. 4022(f) allows for award of a **Follow-On Production OT** (not FAR-based) or follow-on **FAR-based production contract** to the participants (one or more) of the prototype OT project *without competitive* procedures if the following two criterion are satisfied:

- ✓ **Competitive procedures were used** for the selection of parties for participation in the transaction; and
- ✓ The participants in the transaction **successfully completed the prototype project** provided for in the transaction.

ANY
QUESTIONS?

