



# SPACE AND NAVAL WARFARE COMMAND

## Information Warfare Research Project



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*SPAWAR is part of the Naval Research & Development Establishment (NR&DE)*

# What is the Information Warfare Project (IWRP)?

- SPAWAR established the IWRP to meet the need to rapidly advance IW technologies to the warfighter
- The program's efforts focus on the research and development of the underlying technologies that advance naval IW capabilities

## IWRP uses Other Transaction Authority (OTA) to:

- Greatly increase speed to award
- Reduce barriers to competition
- Increase access to innovative commercial solutions
- Leverage advanced commercial technologies

***OTA provides the ability for rapid:  
Innovation  
Prototyping  
Fleet fielding***

***for the...***



***Advancement of  
IW Technologies  
to the Warfighter***

**OTAs are a group of legally binding instruments that may be used to collaborate with industry regarding research and prototype projects and that may eventually lead to production contracts**

**OTs generally are not contracts, grants or cooperative agreements**

**IWRP Uses 10 U.S.C. § 2371b which authorizes DoD to carry out transactions for prototype projects other than a procurement contract or cooperative agreement**

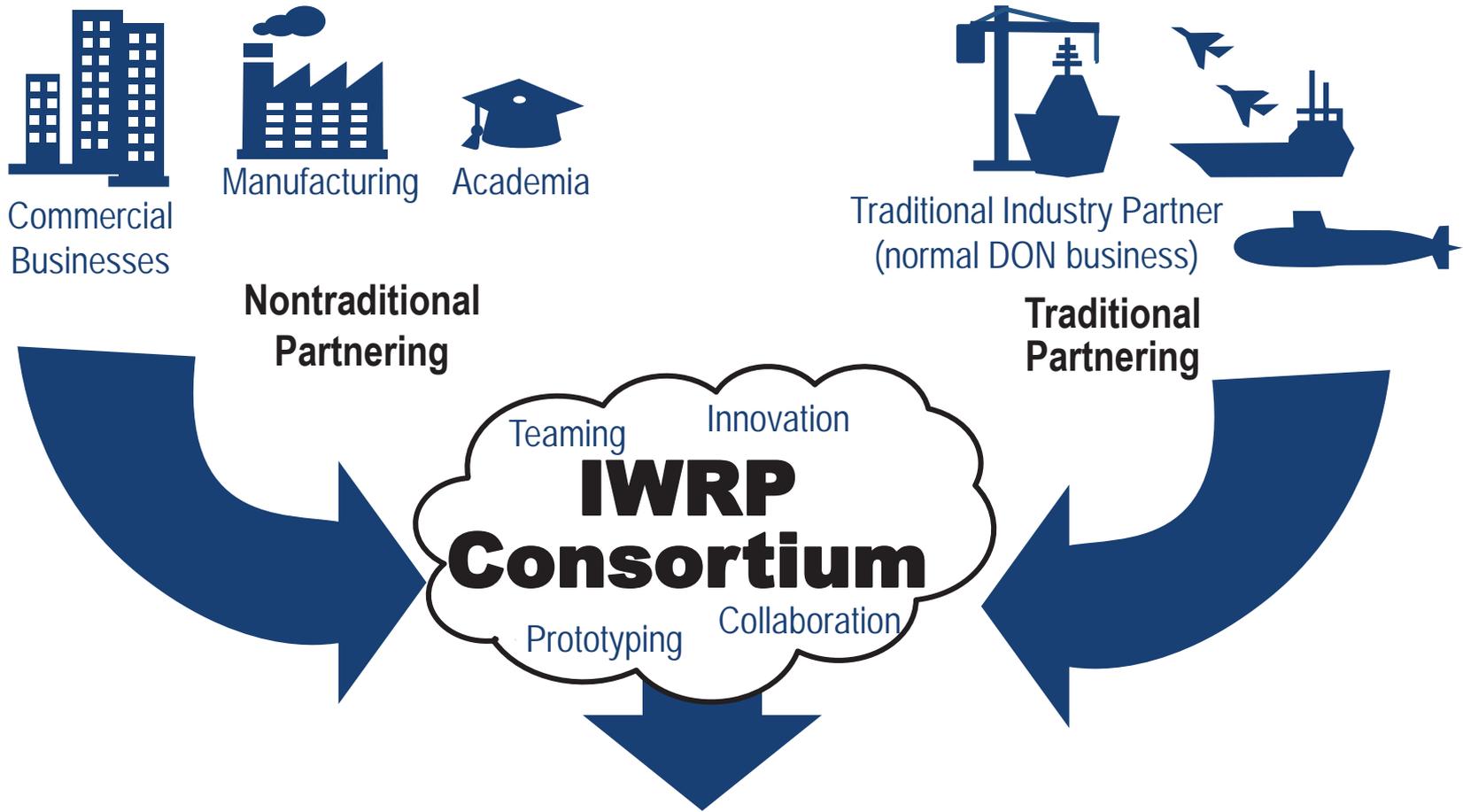
**"Other Transaction for Prototype Projects"**

**Authorized by**

**10 U.S.C. § 2371b for prototype projects directly relevant to enhancing the mission effectiveness of military personnel and the supporting platforms, systems, components, or materials proposed to be acquired or developed by the DoD, or for the improvement of platforms, systems, components, or materials in use by the armed forces**



# What is IWRP Consortium? How does it work?



***Advancing Naval Information Warfare Through Rapid Prototyping on a Global Scale***

Used to evaluate the technical or manufacturing feasibility or military utility of a particular technology, process, concept, end item, effect or other discrete feature

## Can be:

- Proof of concept
- Pilot
- Novel application of commercial technology for defense purposes

- Creation, design, development, demonstration of technical, evaluation or operational utility
- Or a combination of the above

## May include:

- Systems
- Subsystems
- Components
- Materials
- Methodology
- Technology
- Processes
- Agile development activity



The quantity should generally be limited to that needed to prove technical or manufacturing feasibility or evaluate military utility

# Example Scenarios of Prototypes

## Scenario 1:

Problem Statement: A security vulnerability was found on a recent deployment of a Gov't produced software instance.

Prototype: Rapid development of a software patch. The Gov't used the Enhanced White Paper option to select a consortium member. Together they negotiated terms of the SOW, Data and Intellectual Property Rights, Prototype Cost and Schedule.

A single prototype software patch was developed, tested and after a successful demonstration, a production OT was awarded to the consortium member and the software patch was deployed.

## Scenario 2:

Problem: The gov't sees technology advancements in the Cellular 5G Network and wishes to explore how this can be leveraged for IW. The gov't has a budget of \$250K to perform prototyping.

Prototype: White papers received results in a selection of multiple prototype opportunities. The government selects five white papers to award of 5 "Proof of Concept Prototypes."



# IWRP Technology Areas

- Cyber Warfare
- Data Science/Analytics Technologies
- Assured Communications
- Cloud Computing
- Enterprise Resource Tools
- Collaboration and Social Networking
- Autonomy
- Internet of Things (IoT) Embedded Systems
- Mobility
- Model-Based Systems Engineering (MBSE)
- On-Demand Manufacturing
- Technologies that would enable and improve Assured Command and Control (AC2)
- Technologies that would enable or improve Battlespace Awareness (BA)
- Technologies that would enable or improve Integrated Fires (IF)

# Evaluation Considerations

## White Paper Evaluation

- Did the response address a potential solution or prototype concept for the technology need identified in the problem statement?
- Can the potential solution be implemented in a DoD environment?
- Is it feasible that the company can produce the prototype?
- Does the prototype provide innovation?
- Is the Prototype Affordable?

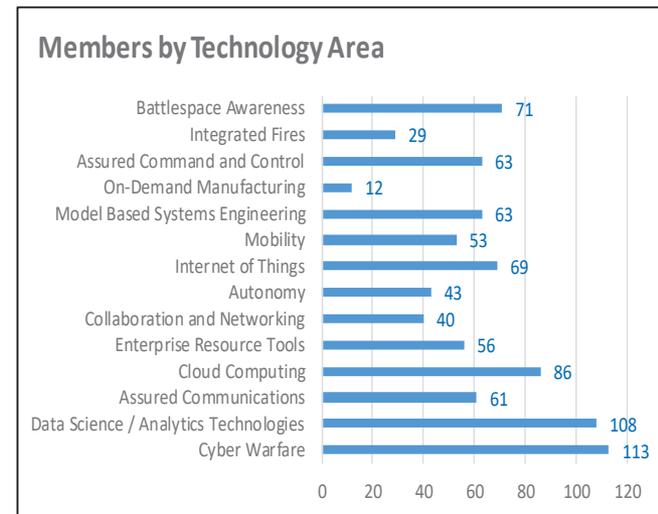
## Relevance

- Addresses the need
- Not all commercial applications can be used in a DoD environment
- Does the Consortium Member have experience
- Determines if the concept/ prototype can to be duplicated for application in the Fleet
- Does the prototype advance technology to provide a capability improvement
- The government has to be able to afford the prototype



# IWRP By the Numbers

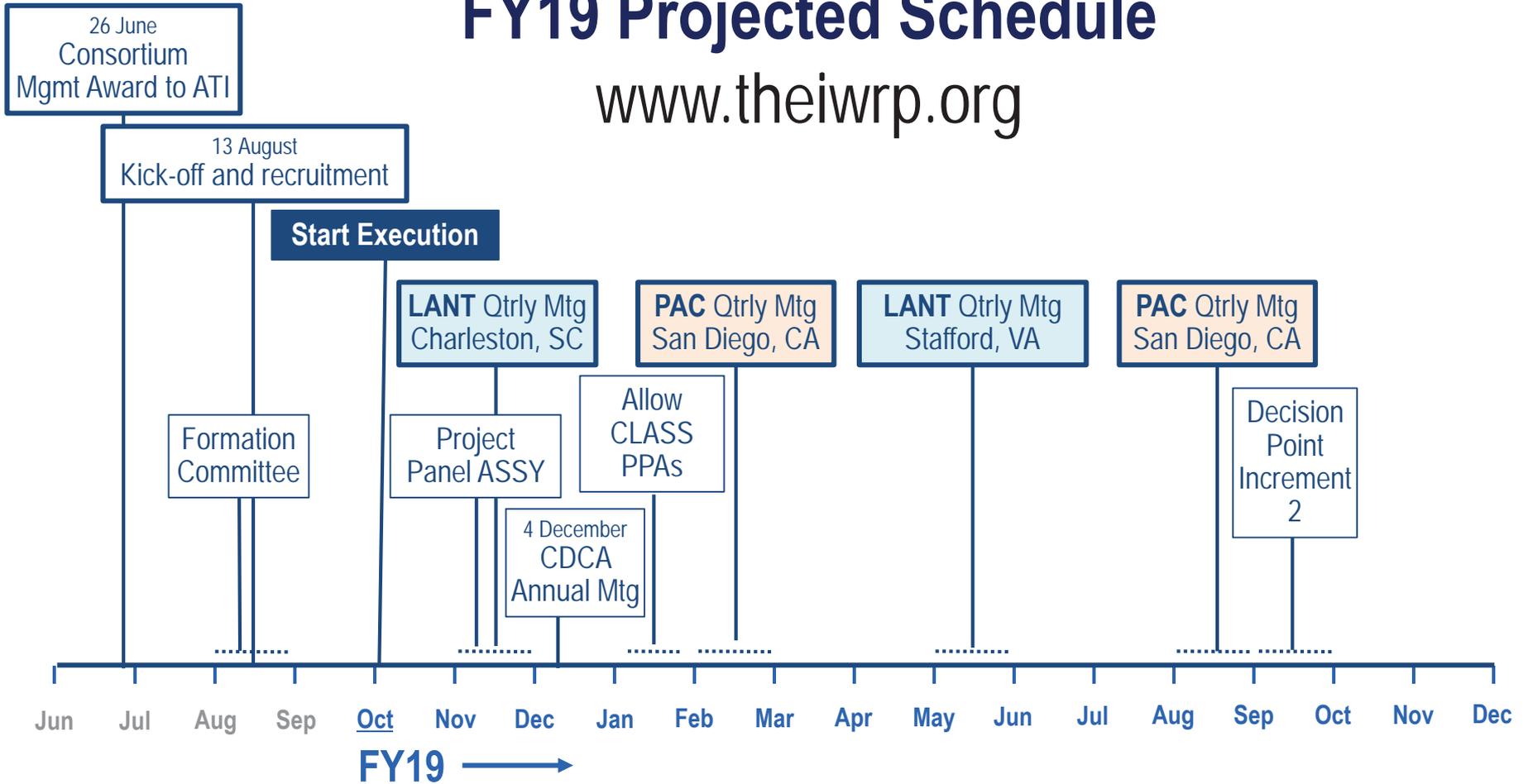
- ▼ 6 Prototype Projects in workflow
- ▼ 3 Prototype Projects being Presented at 8 November Quarterly Industry Day
- ▼ FY19 Outlook
  - 25-35 Transactions with an estimated \$28M in potential PPA awards



Data as of 15 October 2018

# FY19 Projected Schedule

[www.theiwrp.org](http://www.theiwrp.org)





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To become a member of the IWRP consortium go to <https://www.theiwrp.org>





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Rapid Prototyping on a Global Scale*