Naval Information Warfare Center Atlantic

IWRP Update
Information Warfare Research Project

NIWC Atlantic NOLA Detachment

Industry Outreach Event
UNO Research and Technology Park
14 November 2019

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IWRP Program Manager
Information Warfare Research Project (IWRP)

Focusing on underlying technologies that advance Naval information warfare capabilities through a consortium that can support research, development and prototyping

- Enables rapid research for IW
- Prototype projects in the area of IW
- Increases access to innovative commercial solutions for defense requirements
- Fosters innovation with non-traditional industry partners
- Allows Prototype consideration through Industry initiated Ideas

IWRP uses an alternative acquisition method called an OTA (Other Transaction Authority) to:

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

10 U.S.C. § 2371b authorizes DoD to carry out transactions for prototype projects other than a procurement contract, grant, or cooperative agreement
What is a Prototype?

A prototype project is 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.

https://www.theiwrp.org
IWRP Execution Process

IWRP uses a consortium based approach.

Scope/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)
  - Battlespace Awareness (BA)
  - Integrated Fires (IF)

IWRP is an opportunity for the consortium members to identify research topics in addition to government identified research topics.

Rapid fielding or decision to move to traditional acquisition

**Option 1 White Papers to Full Proposal:**
Preferred option in most cases to maximize feedback at the white paper state and then better align SOW and proposals to government needs.

**Option 2 Enhanced White Papers:**
Supports more urgent requirements.

**Option 3 Full Proposal:**
Preferred option when NAVWAR has clear requirements in the SOW and wants to limit the period of collaboration.

- Maximum Collaboration and Innovation Opportunity
- White Paper Does not include costing information
- Not for use in 4th QTR for end of FY award
- Preferred Option for most cases

- Condensed Process
- Costing Information (Rough order of Magnitude) Provided with the White Paper
- Can be awarded in 4th QTR if processed by cut off dates

- Post White Paper Processing
- For use with Basket Provision and White Paper Repository
- Supports Urgent Requirements
What is a Basket Provision?

- The basket holds proposals that have already been evaluated and determined to have met all of the requirements of the Statement of Work under an IWRP prototype opportunity.

- Any proposal in the basket can be “pulled” and awarded. Some minor tweaks and cost updates might be necessary but scope of the effort must remain the same to still be considered as being competed.

- Proposals remain in the basket for 18 months after evaluations.

- Proposals in the basket are not limited to the original requestors – they are available to anyone with a need and available funding.
Dashboard as of 28 Oct. 2019

Members

- Traditional
- Nontraditional

Members by Technology Area

- Battlespace Awareness: 180
- Integrated Fires: 171
- Assured Command and Control: 172
- On-Demand Manufacturing: 207
- Model Based Systems Engineering: 269
- Mobility: 219
- Internet of Things: 138
- Autonomy: 119
- Collaboration and Networking: 151
- Enterprise Resource Tools: 180
- Cloud Computing: 151
- Assured Communications: 285
- Data Science / Analytics Technologies: 307
- Cyber Warfare: 285

Workflow by Customer

- LANT: 14
- PAC: 30
- Other: 3

Prototype Requests by Technology Area

- On-Demand Manufacturing: 5
- Model Based Systems Engineering (MBSE): 5
- Mobility: 3
- Integrated Fires (IF): 1
- Enterprise Resource Tools: 15
- Data Science/Analytics: 15
- Cloud Computing: 15
- Cyber Warfare: 13
- Battlespace Awareness (BA): 13
- Autonomy: 2
- Assured Communications: 4
- Assured Command and Control (AC2): 1

FY19 Forecast as briefed August 2018

▼ Data indicated approximately $28M in potential FY19 for Project Prototype Agreements

▼ FY19 transaction forecast: 25-30 transactions (this is expected to grow in FY20 and 21)
<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>Total FY19 Prototypes opportunities offered</td>
</tr>
<tr>
<td>8</td>
<td>Number of Non-NAVWAR Navy organizations using IWRP</td>
</tr>
<tr>
<td>3</td>
<td>Awards made</td>
</tr>
<tr>
<td>6</td>
<td>Awards currently in progress</td>
</tr>
<tr>
<td>56</td>
<td>Proposals placed in the Basket <em>(2 awards from the basket in FY19)</em></td>
</tr>
<tr>
<td>$35 M</td>
<td>In awarded prototype ceiling</td>
</tr>
<tr>
<td>$1.1 M</td>
<td>Average dollar amount per prototype award</td>
</tr>
<tr>
<td>157</td>
<td>Average number of days for a prototype award from inception</td>
</tr>
<tr>
<td>42</td>
<td>Days for the fastest award</td>
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</tbody>
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FY20 Forecasting

▼ Forecasting a 100% increase in workflow over FY19

▼ Forecasting $50-60M in prototype awards

▼ Forecasting 1-2 successful prototypes from FY19 moving to production
FY20 Schedule

1st QID
Charleston SC
30 October

2nd QID
San Diego, CA
5 March

3rd QID
(TBD)

December 11/12
CDCA
Annual Mtg

Virtual Collaboration
April 28-30

Virtual Collaboration
August 18-20

1st QID
Charleston SC
29 October

GMM
Charleston SC
29 October

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

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*Note: Align FY21 1st QID with SBIOI in October
Where to Get Additional Information

Internal NAVWAR Enterprise Wiki Page (govt. access only)
https://wiki.spawar.navy.mil/confluence/x/7-N_Dw

Public Facing IWRP Website
https://theiwrp.org

Advancing Naval Information Warfare Through Rapid Prototyping on a Global Scale
Serve our Nation by delivering information warfare solutions that protect national security.

WIN THE INFORMATION WAR.

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Glassdoor: https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI_IE638508.11,41.htm
NAVWAR Contract Directorate Office:  https://e-commerce.sscno.nmci.navy.mil