

# Missile Defense Agency Small Business Programs Conference Sensors Directorate Overview



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# Sensors Directorate

## Mission, Contributions to The Ballistic Missile Defense System (BMDS)

### ◆ Mission: Develop, Test, Acquire, Deploy, and Sustain BMDS Sensors

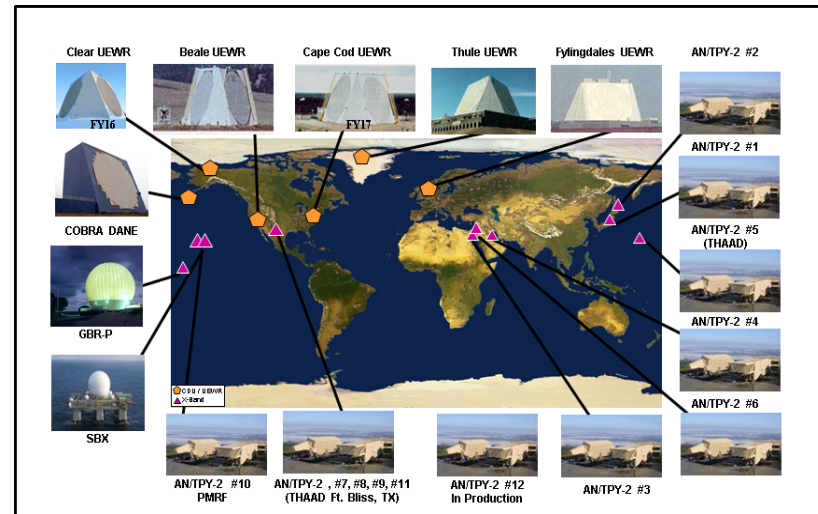
### ◆ Sensors Contribution to Operational BMDS

- Provide Track, Discrimination, and Intercept Assessment Data
- Global Sensor Coverage (20 time zones, 3 continents)
- Additional Sensors Planned
- Address Evolving Ballistic Missile Threats

### ◆ Sensors Contribution to BMDS Testing

- Ground-Based Radar – Prototype (GBR-P)
- Integrated & Distributed Ground Tests
- Flight Tests (Aegis, Terminal High Altitude Area Defense (THAAD), mid-course defense)
- Operationally Representative Models & Simulations (M&S) Validation & Accreditation

### ◆ Supporting International Cooperation with THAAD Foreign Military Sales (FMS) Case for United Arab Emirates





# Sensors Top Management Focus Areas (CY 2015)





- ◆ Sustain Deployed AN/TPY-2 Radars, Upgraded Early Warning Radars (UEWR), and COBRA DANE
- ◆ Address Sensor Coverage Gaps
- ◆ Improve Sensor Discrimination
- ◆ Improve Sensor Reliability
- ◆ Maintain Sea Based X-Band Radar (SBX) in Test and Operations Support Status
- ◆ Complete Clear/Cape Cod Early Warning Radars Upgrade
- ◆ Support Robust BMDs Flight and Ground Testing
- ◆ Execute the AN/TPY-2 Portion of THAAD FMS cases





# Upcoming Opportunities

Four major Sensor's contracts ending in next two years:

Contract	Description	Incumbent	Current PoP End
<p><b>SBX Mission Integration</b></p> 	<ul style="list-style-type: none"> <li>◆ <b>SBX vessel integration and coordination of the following services provided by various sources:</b> <ul style="list-style-type: none"> <li>• Research and development</li> <li>• Engineering services/Analysis</li> <li>• Test activities</li> <li>• Information technology management</li> <li>• Supply support</li> <li>• Test and Operations support</li> <li>• Programmatic</li> <li>• Quality/safety/mission assurance</li> </ul> </li> </ul>	<p><b>Gryphon Technologies</b></p>	<p><b>December 22, 2016</b></p>
<p><b>Radar Sustainment Contract (RSC)</b></p> 	<ul style="list-style-type: none"> <li>◆ <b>Program Management</b></li> <li>◆ <b>Hardware &amp; Software Development and Sustainment for AN/TPY-2 and SBX Radars</b></li> <li>◆ <b>Engineering Services</b></li> <li>◆ <b>Models and Simulations</b></li> <li>◆ <b>BMDs Test Planning, Execution, and Analysis</b></li> <li>◆ <b>GBR-P Support</b></li> </ul>	<p><b>Raytheon Integrated Defense Systems (IDS)</b></p>	<p><b>October 31, 2017</b></p>
<p><b>Consolidated Contractor Logistics Support (C-CLS)</b></p> 	<ul style="list-style-type: none"> <li>◆ <b>Operations and Sustainment activities for all AN/TPY-2 radars and SBX</b></li> <li>◆ <b>Deployment and Site Support</b></li> <li>◆ <b>Depot transition support</b></li> </ul>	<p><b>Raytheon Integrated Defense Systems (IDS)</b></p>	<p><b>October 31, 2017</b></p>
<p><b>BMDs Integration and Test (BIT)</b></p> 	<p><b>Flight and ground test support to Upgraded Early Warning Radars (UEWRs) and COBRA DANE (CD)</b></p>	<p><b>deciBel</b></p>	<p><b>November 15, 2017</b></p>

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# How Can Small Businesses Help?

## ◆ Support Sensors Top Management Focus Areas

- Offer flexible technical expertise to support multiple Radars deployed worldwide
- Offer affordable acquisition and sustainment costs through open, non-proprietary, modular software architecture
- Leverage existing hardware/software reuse and economy of scale benefits

## ◆ Develop partnerships with Current Prime Contractors and other mission area partners

## ◆ Future Acquisition Strategies under development

- Responses from recent Requests for Information (RFIs) covering all four contracts on previous slide are being evaluated to develop acquisition strategies
- AN/TPY-2 Production expected to remain sole source given limited buy

## ◆ Communicate with the Government once strategies are approved

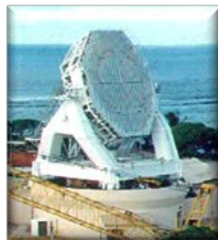
- Attend Industry Days when scheduled
- Provide Draft Request for Proposal feedback
- Monitor FedBizOpps ([www.FBO.gov](http://www.FBO.gov)) for subcontracting opportunities



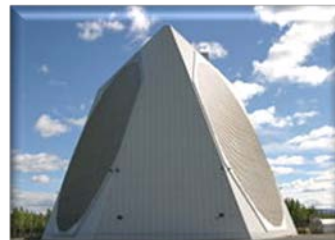
**AN/TPY-2**



**SBX**



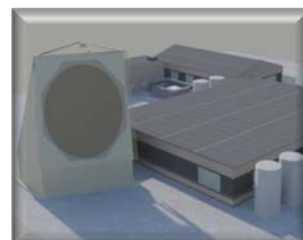
**GBR-P**



**UEWR**



**COBRA DANE**



**LRDR**  
(Concept Design)