



# *Cooperative Engagement Capability*

*A Sensor Netting Enabler*

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*Purpose: SNA*

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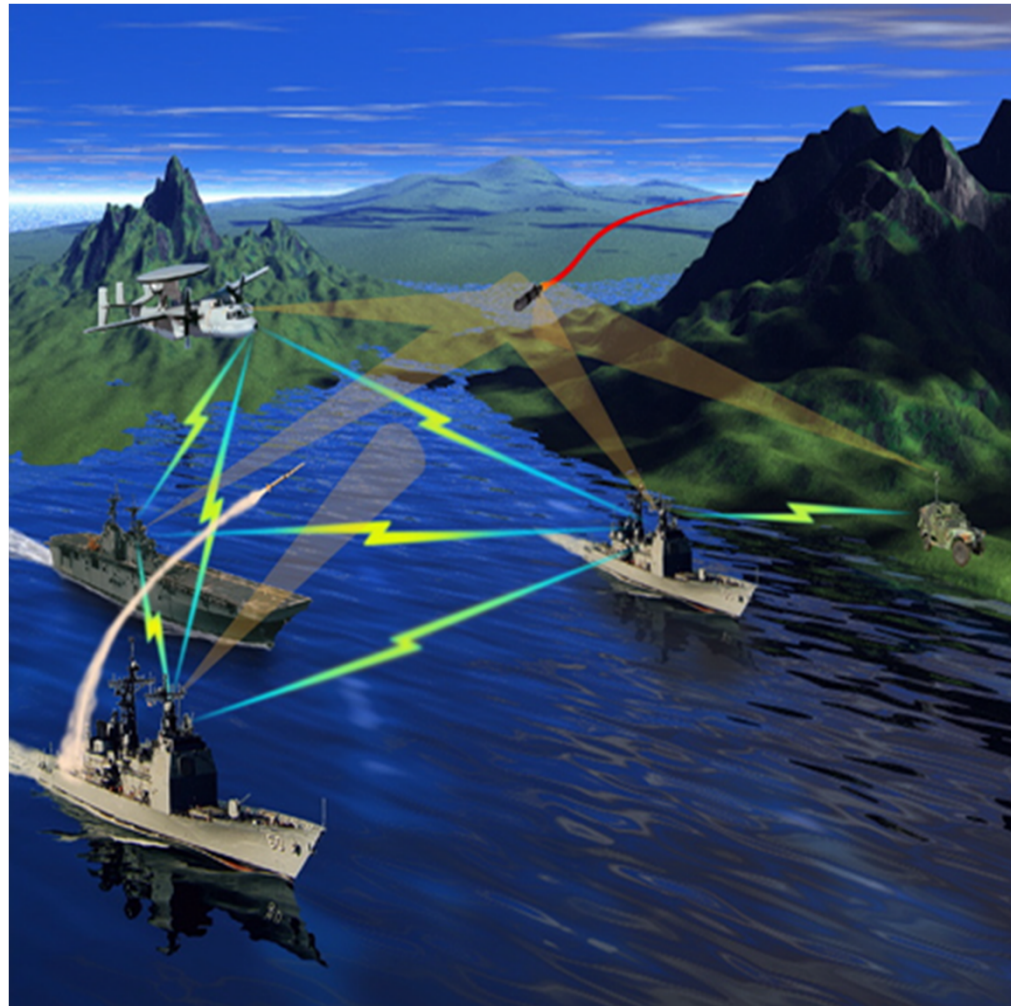
# Cooperative Engagement Capability



## System Description:

**CEC brings revolutionary capability to air defense by distributing existing sensor data in a significantly different manner. Benefits include improvements in:**

- Track accuracy
- Track continuity
- Consistent identification
- Decision-making time
- Target engagement range



**Accurate, continuous target tracks**

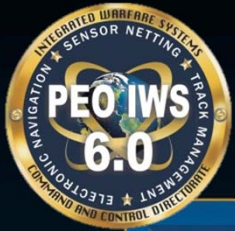


# *CEC Concept*



- Take advantage of sensor diversity across the force
- Make better use of sensor (Radar and IFF) data
- Provide a composite track picture to the combat system that is more continuous, complete, consistent, and accurate
- When desired, distribute fire control quality data from available providers to the weapon systems engaging the threat

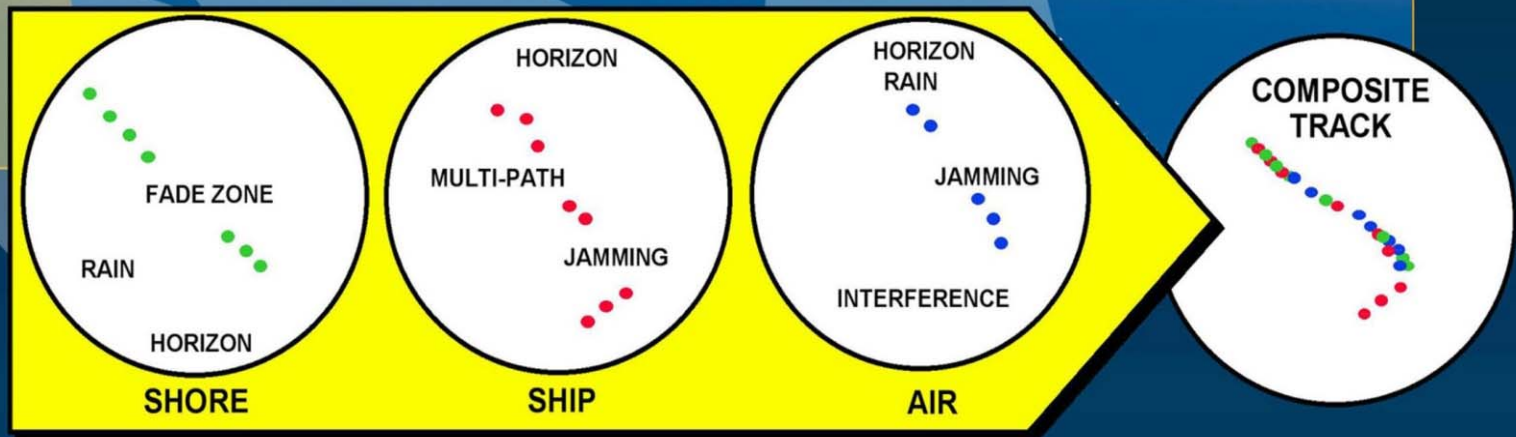
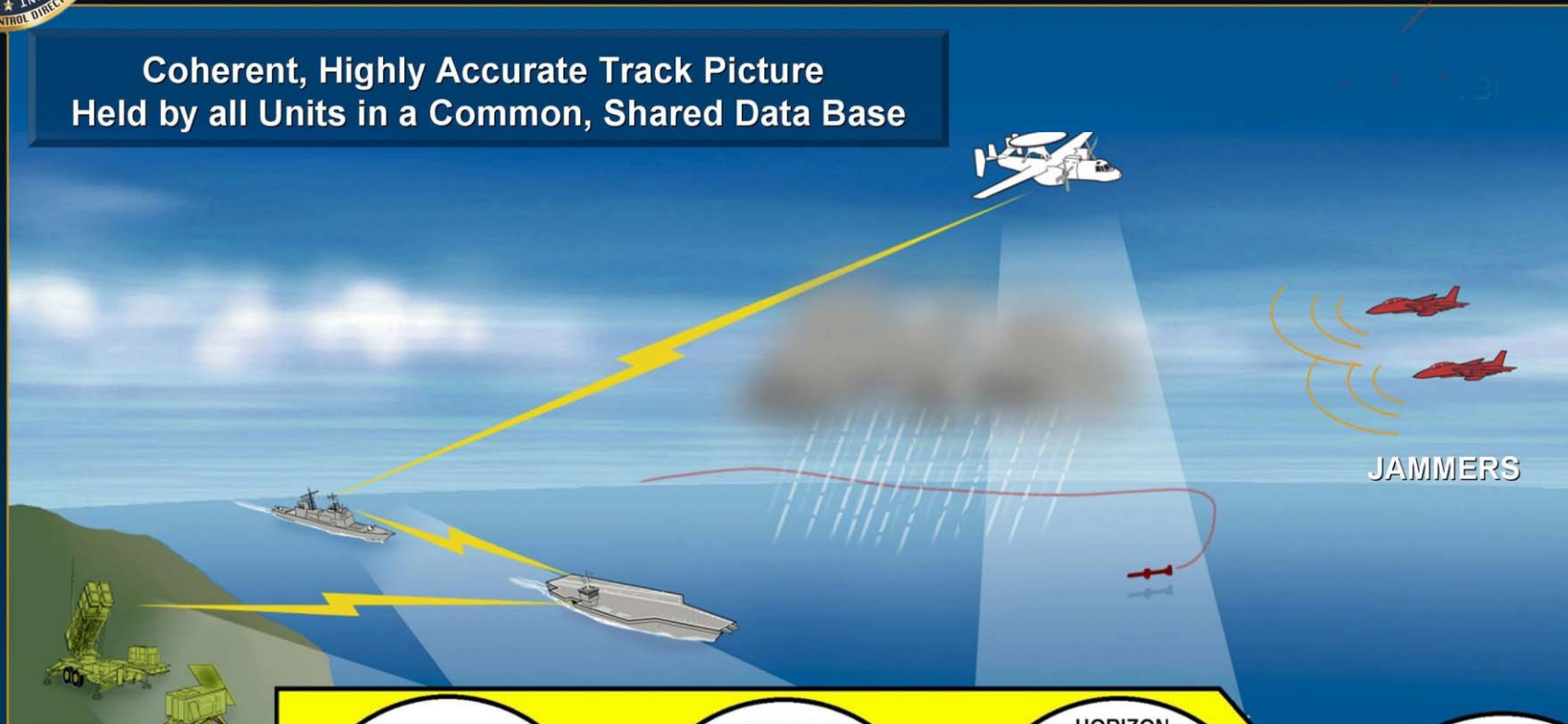




# Sensor Netting Composite Tracking Concept

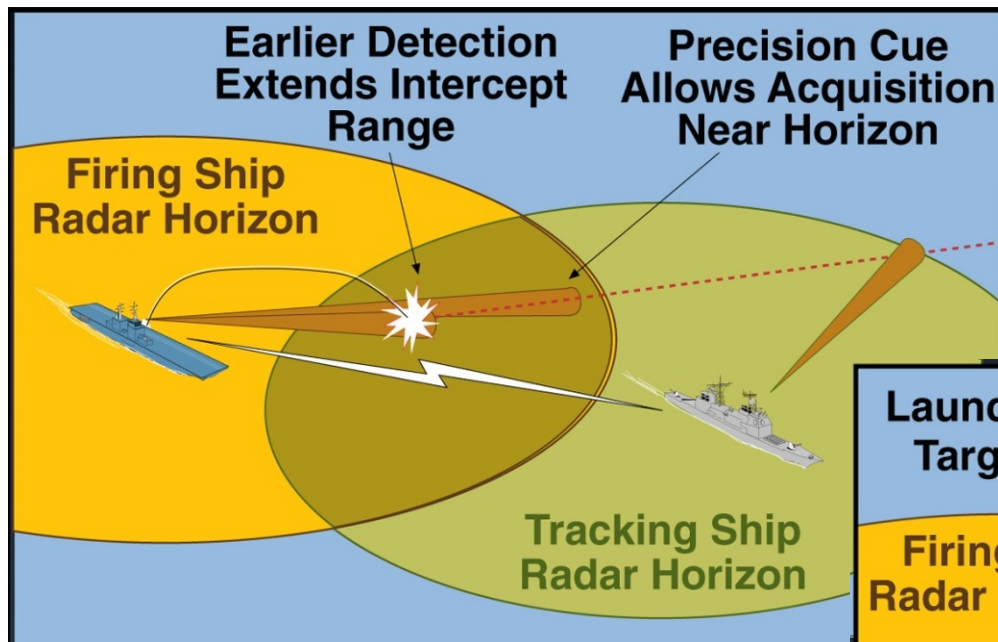


Coherent, Highly Accurate Track Picture  
Held by all Units in a Common, Shared Data Base



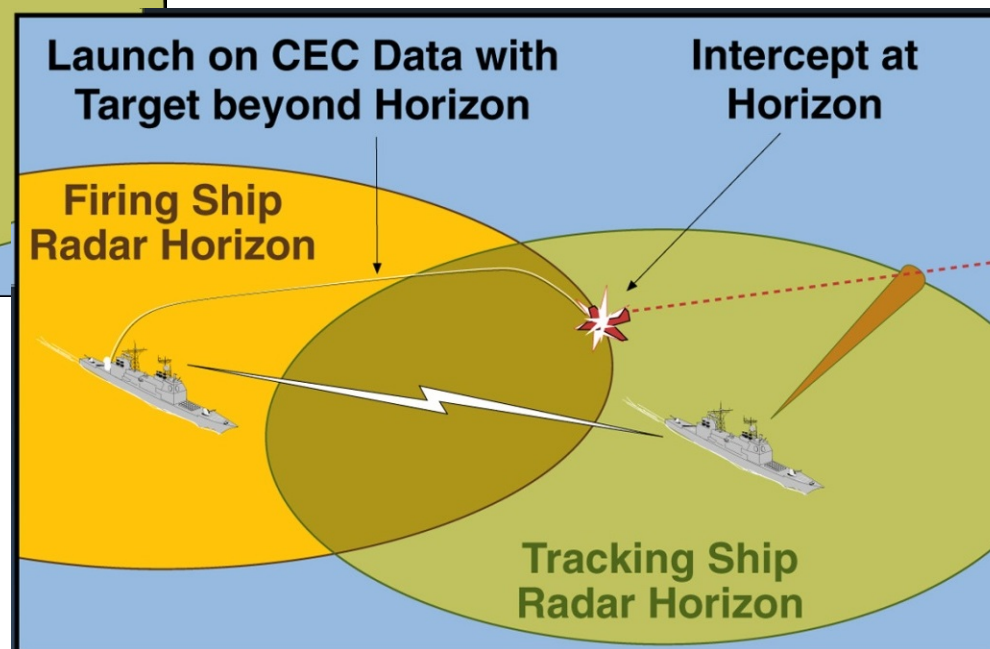


# CEC Applications



## Cued Engage

## Engage on Remote



**Sensor Netting Expands the Battlespace**



# *CEC*

## *Warfighting Benefits*



### **Detection and tracking**

- Quantum improvement in track continuity & accuracy superior to any single sensor
- Sensor cueing extends force detection ranges
- Expands capability of existing sensors and weapons

### **Engagement**

- Significant increases in depth of fire; higher Pk
- Engagement of targets not held by own sensors
- Enables self defense systems to maximize performance against stressing targets
- Earlier track formation resulting in increased time for combat system to react
- Improved ability in jamming environments

