



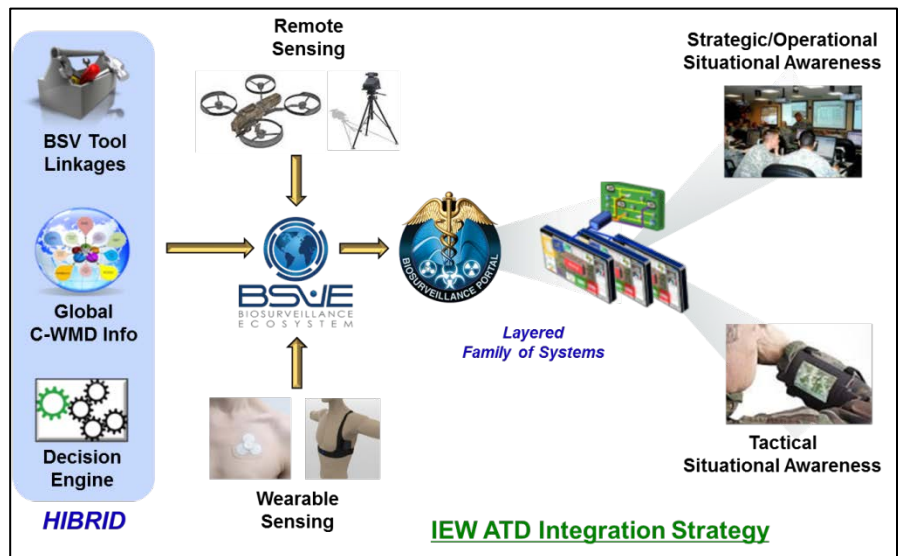
**Integrated Early Warning for Biological Incident Rapid Response (IEW) Advanced
Technology Demonstration (ATD) – Phase I:
Homeland Integrated Biosurveillance and Response Information Demonstration (HIBRID)**

HIBRID is the first component of a broader four-phased IEW ATD program focused on enhancing Mission Assurance against biological threats in the U.S. Northern Command (NORTHCOM) and U.S. Pacific Command (PACOM) areas of responsibility. The Department of Defense (DoD) HIBRID team at Defense Threat Reduction Agency (DTRA) is working in partnership with the Department of Homeland Security (DHS) and specific urban area stakeholders to develop a rapid response decision support capability providing key decision makers the ability to take coordinated and effective actions in the periods leading up to, during, and immediately following an infectious disease outbreak or biological attack.

To accomplish that, the DoD HIBRID team is directly leveraging existing biosurveillance (BSV) and response tools across DoD, DHS and other partner organizations. The HIBRID solution will also include development and integration of analytical tools, linking BSV and broader Combating Weapons of Mass Destruction (C-WMD) situational awareness capabilities, and developing a data-to-decision engine for situational awareness and rapid response action. The end goal of this first phase of the IEW ATD program is functionalizing BSV to enable critical operational decisions based on currently-disparate toolset information feeds.

DoD-led technology development and integration efforts within HIBRID:

- BSV Toolset Integration – includes developing and integrating new functions into the DoD Biosurveillance Ecosystem (BSVE), and leveraging BSV tools being developed by DHS Science and Technology Directorate
- Integration of broader C-WMD situational awareness capabilities into BSVE for enhanced orthogonal information sharing
- Development of a new data-to-decision engine for BSVE to drive rapid response decisions based on BSV and other information feeds
- Supporting functional integration of new BSVE tools into the DoD Biosurveillance Portal (BSP) program of record
- Ensuring BSP can operationally integrate into existing DoD situational awareness tools at the strategic and tactical levels
- Setting conditions for integration of remote sensing and wearable sensing feeds into BSVE, for enhanced biological threat decision support during subsequent phases of the IEW ATD program



Timeframe: HIBRID – FY15-FY16, IEW ATD – FY15-FY21

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