

COI-Analysis

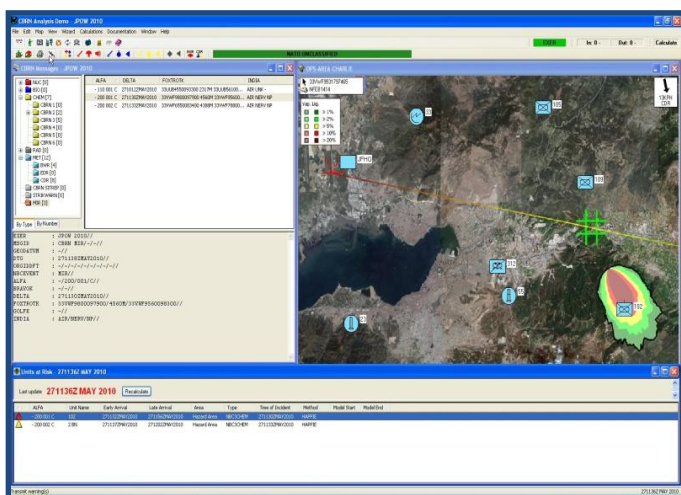
Tool to evaluate CBRN Consequence of Intercept in Missile Defense

A Joint Development between Bruhn NewTech and TNO

The consequence of intercepting a missile with a CBRN load is an area of increased concern. Will chemical or biological material survive the intercept and cause hazards on the ground?

Where will radiological material be dispersed and create hazardous levels of radiation?

Where is the optimum intercept location to ensure that the missile can be destroyed but also to avoid CBRN contamination in densely populated or operationally significant areas?



To assist in answering these questions, TNO and Bruhn NewTech have jointly developed COI-Analysis. COI-Analysis can be delivered as a stand-alone application or as a plug-in for integration into Command and Control Systems. The COI capability is also available as a module to CBRN-Analysis™ (NBC-Analysis). CBRN-Analysis™ is the CBRN Warning and Reporting software widely used amongst NATO and PfP nations.

References:

The Netherlands Ministry of Defense will be using COI-Analysis as part of the JPOW 2010 Ballistic Missile Defense exercise.

A spokesman from the Netherlands MOD said: "We see it as a very important step forward in NL CBRN preparedness that the two key components in our CBRN Missile Defense, CBRN-Analysis™ and the HAPPIE model, are merged into a single system to enhance operational capabilities. Speed is vitally important in Missile Defense and to achieve this we require a system that automatically takes the information from the Missile Systems directly to our CBRN network so that an overview of the CBRN consequences can be provided which is also interoperable with our partners and allies".

Key Features

Hazard Prediction

COI-Analysis calculates hazards from missile intercepts using the NATO ATP-45(D) standards and the HAPPIE model from TNO, the Dutch Research Organization. HAPPIE is widely recognized as a leading model for predicting CBRN consequences of missile intercepts.

Risk Analysis

The HAPPIE model has the capability of predicting hazards in an environment filled with uncertainties. Not all relevant data will be known at the time of intercept and the prediction provides risk areas indicating that a certain risk of contamination exist in a given area. Commanders or Emergency Planners can base their decisions on a more realistic picture than traditional model predictions.

Interface

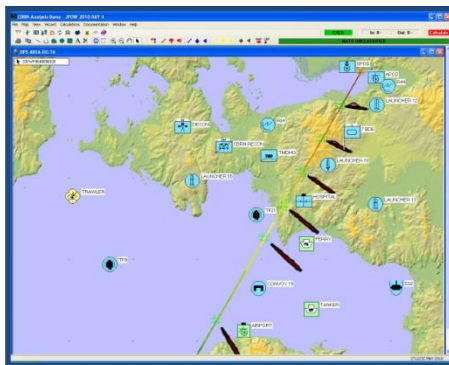
To achieve the short warning times that is essential in Missile Defense, COI-Analysis is capable of receiving data from the Link 16 network. This allows warning calculations to be triggered by real-time receipt of missile intercept data.

Intercept planning

The planning functionality evaluates the consequences of possible intercept locations based on likely missile firing locations and targets. This provides the basis for restrictions on intercepts or redeployment of assets.

Interoperability

Relevant warning areas need to be disseminated quickly also to allies and partners. COI-Analysis provides seamless interoperability by use of ADatP-3 message formats in accordance with the NATO ATP-45(D) standard.



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