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A Breakdown, Application, and Evaluation of the Resiliency Analysis Support Tool From the Operators Perspective

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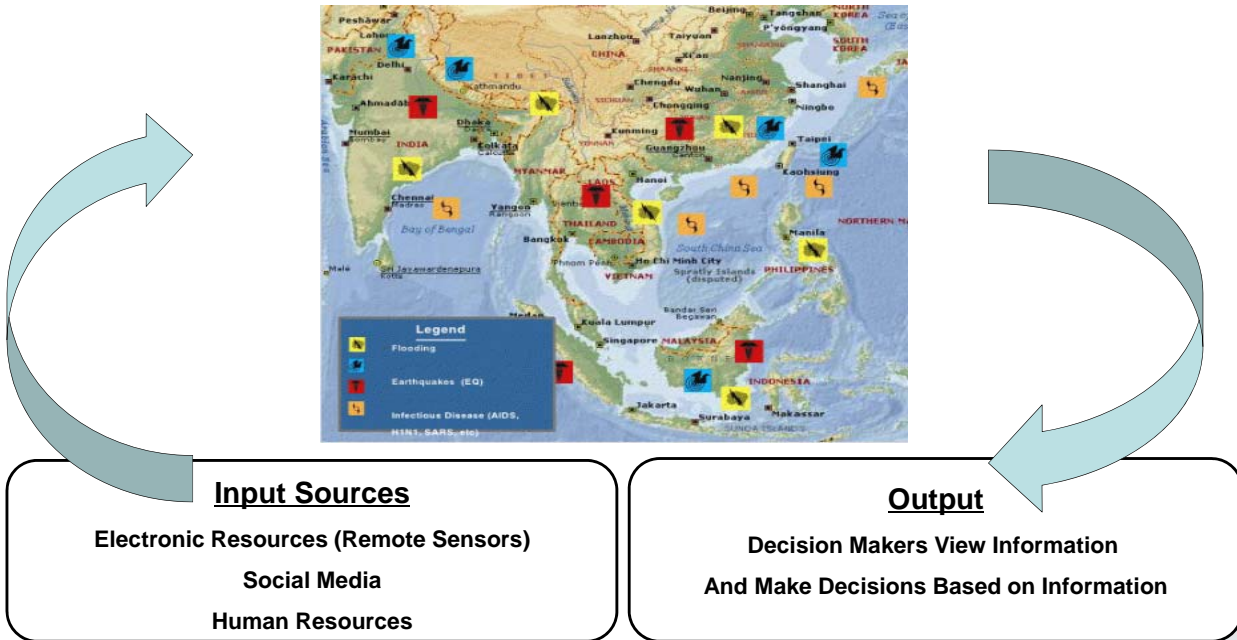
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The Resiliency Analysis Support Tool (RAST)

This project investigates the current Resiliency Analysis Support Tool and its usability with Department of Defense military and civilian personnel. With the unexpected possibilities of natural and man-made disasters worldwide, RAST could inform combatant commanders and component commanders of resources to facilitate recovery and provide humanitarian assistance/disaster relief (HA/DR).

It should be noted that RAST is just a concept and is still in development.



The RAST concept is to provide first responders with information to begin initial planning as well as a “common operating picture,” a big-picture view of relevant assets, for all critical players in HA/DR operations.

RAST is built on the premise of establishing a common understanding for the action and collaboration of multi-national military and civilian partnerships. RAST can provide a working architecture for management and a common understanding of the disaster situation and the requirements necessary to fulfill the needs of the area under crisis.



For the purpose of our project, we ran a simulated natural disaster (earthquake) in Nepal and found that although it could be a beneficial tool, capabilities that could be used to benefit RAST included integration of social media (YouTube, Facebook, etc.), topography snapshots, grading scheme changes, and a command hierarchy and command and control structure.