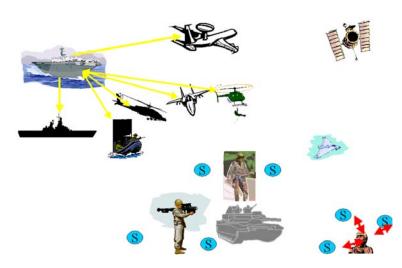
Search and Rescue



Intelligent planning & task support for search and rescue

Description:

- ◆Knowledge-based tools for RAF Search and Rescue
 - **♦**Selecting plans.
 - ◆Generating "To Do" lists.
 - **◆**Automating status information.
- ♦ CoSAR-TS to share plans and processes between collaborating software agents in a Search and Rescue scenario
 - **◆Uses DAML** ontologies to support matching of resources to needs.



CoSAR-TS "downed airman" scenario

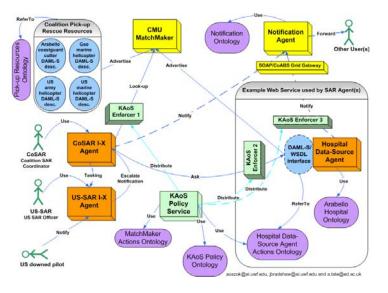


Benefits:

- ♦ RAF Search & Rescue was capable of
 - ♦Automating administrative tasks.
 - ♦Planning efficient use of helicopters & crew.
- ◆Used to provide specification for fully developed system.
- **♦CoSAR-TS**
 - ◆Enables cooperation between software and human agents.
 - ♦Links models of coalition organizational structures, policies, and doctrines with intelligent task support software.

Technical approach:

- ♦ RAF Search and Rescue: O-Plan style planning based on CommonKADS model.
 - **♦Linked to multiple user interfaces.**
- **♦**CoSAR-TS: Shared intelligible models
 - ◆tasks, structures, agents, capabilities, ...
- ♦I-X Process Panels for activity management.
- ◆ Success through providing task support to human decision makers.



CoSAR-TS Demo Concept



RAF SAR: AIAI, DRA, Royal Air Force CoSAR-TS: AIAI, IHMC, BBN Technologies http://www.aiai.ed.ac.uk/project/cosar-ts/

