Where has TIDE been tried and tested?

Experimentation at Exercises

- **Viking 2005** - an exercise that allowed NATO to interact with Partners for Peace nations (PFP), Non-Governmental Organizations (NGOs) and International Organizations (IOs) on both a technical and user level. This exercise incorporated testing of system interoperability between NATO products and products from non-traditional partners.
- **Multi-National Experiment 4 (MNE4)** - tested effects-based operational concepts and effective use of data management tools, interagency cooperation and Web portal availability.
- **CWID 2006** - this program focuses primarily on testing and improving the interoperability of NATO and national C4I systems, with particular emphasis on those that would be deployed within the NATO Response Force. This program was a good opportunity to test TIDE concept in a purely technical environment.
- **Steadfast Series** - the certification exercises for the NATO Response Force (NRF) provide the venue for employing TIDE principles through tools that support and enhance situational awareness and decision making.

Decision Walls are used to enhance situational awareness for the NATO Response Force (NRF)

Real World

- **Maritime Component Command at Naples and Northwood**: TIDE assists in the improvement of NATO's Maritime Domain Awareness (MDA) capability through effective integration of tools and technology to exploit data from multiple sources (i.e. sensors, nations, commercial).
- **International Security Assistance Force (ISAF):** TIDE supports ISAF's mission to assist the Islamic Republic of Afghanistan in creating a stable and secure environment for the people of Afghanistan through enhanced situational awareness and effective collaboration tools.
- **Joint Common Operational Picture (JCOP):** TIDE supports ACO's initiative to rapidly improve their situational awareness in support of ongoing operations.

NATO OTAN

Decision Wall and TIDE projects are sponsored and coordinated by:

Allied Command Transformation

C4I Division
Technology Coordination Branch (TCB)

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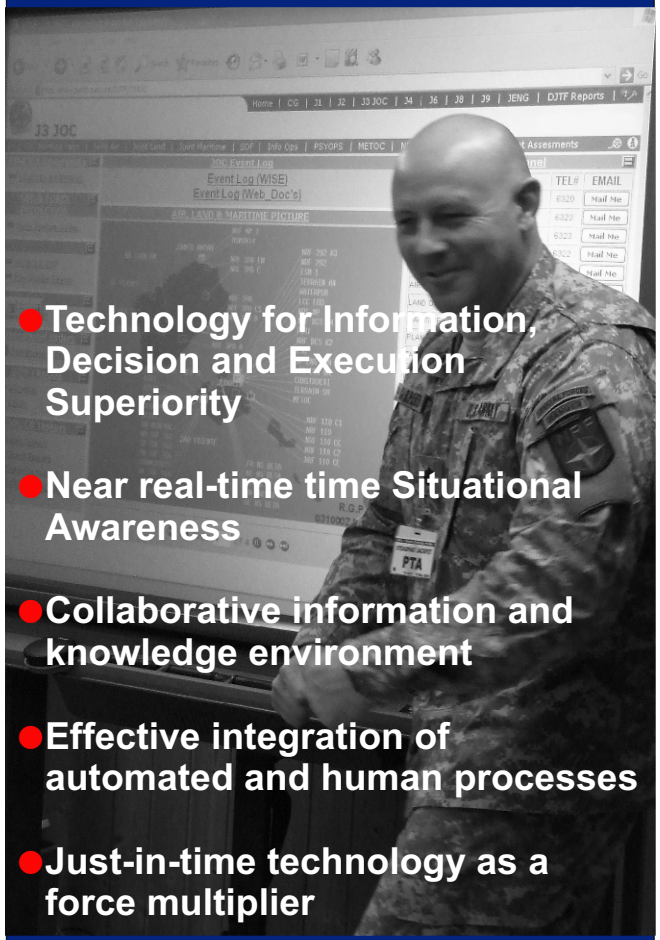
The Decision Wall and TIDE: Information Technology as a Force Multiplier



- Technology for Information, Decision and Execution Superiority
- Near real-time time Situational Awareness
- Collaborative information and knowledge environment
- Effective integration of automated and human processes
- Just-in-time technology as a force multiplier

www.act.nato.int

Introduction
Former NATO Secretary General Lord Robertson said: "NATO must change radically if it is to be effective. It must modernize or be marginalized". ACT, as NATO's forcing agent for change, has endorsed a concept to rapidly improve information system capabilities in a network centric environment.

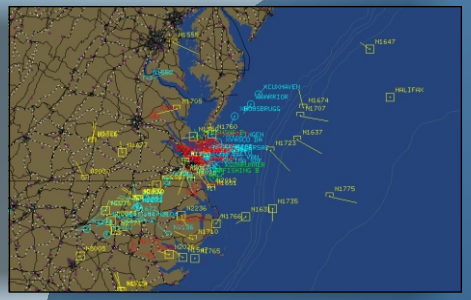
Technology for Information, Decision and Execution Superiority (TIDE)

What is TIDE?
The purpose of the TIDE initiative is to rapidly improve the IT capabilities of the NATO Alliance by reusing existing systems/components and by steering current and future projects toward greater openness and cooperation in a common framework. The TIDE concept does not seek to take over these products or projects, but rather to create and foster an environment to achieve transparent integration between services provided by the disparate systems/components.

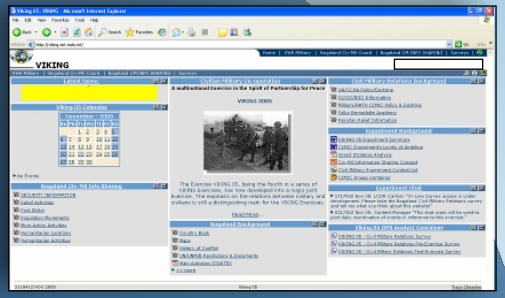
TIDE Goal
The goal of TIDE is to contribute to the Alliance's objective of transforming current forces and capabilities into forces capable of rapid reaction to any situation with the ability to achieve information superiority, decision superiority and execution superiority.

TIDE Ambitions
- Collect data in real time through intelligence, surveillance and reconnaissance activities.
- Transform raw data into human understandable information in real time therefore enhancing Information Superiority.
- Apply cognitive science principles that enable humans to rapidly gain knowledge and understanding.
- Deploy decision support tools to all command levels to ensure Decision Superiority.
- Support mission execution and monitoring leading to Execution Superiority.

Near real-time time Situational Awareness



Collaborative information and knowledge environment



Technology for Information, Decision and Execution Superiority

Just-in-time technology as a force multiplier

Improved integration of automated and human processes