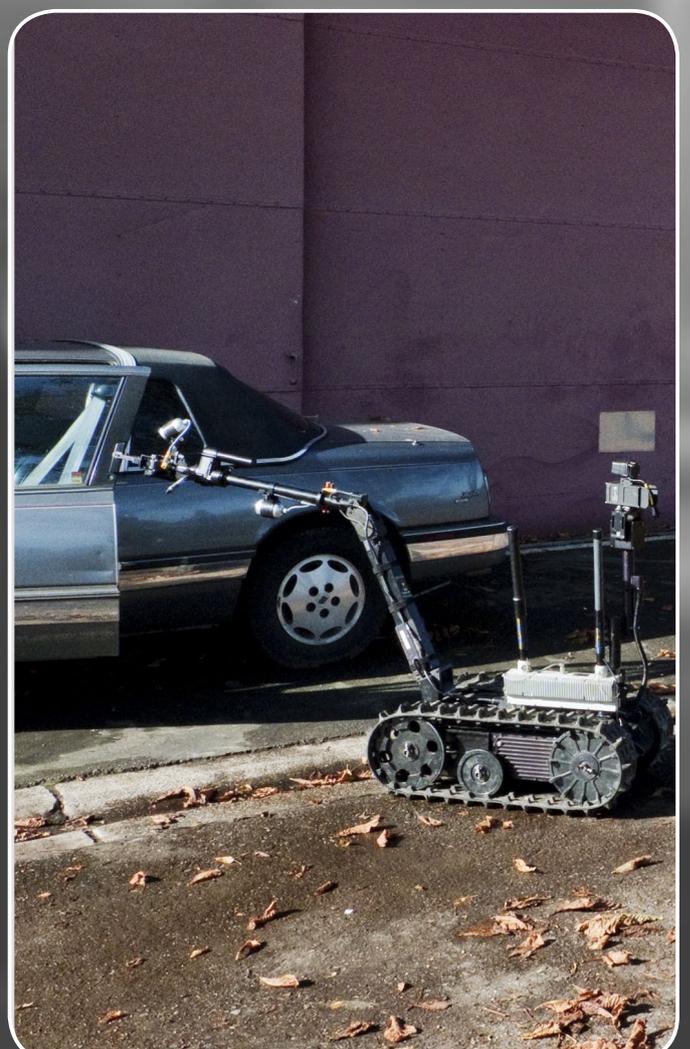
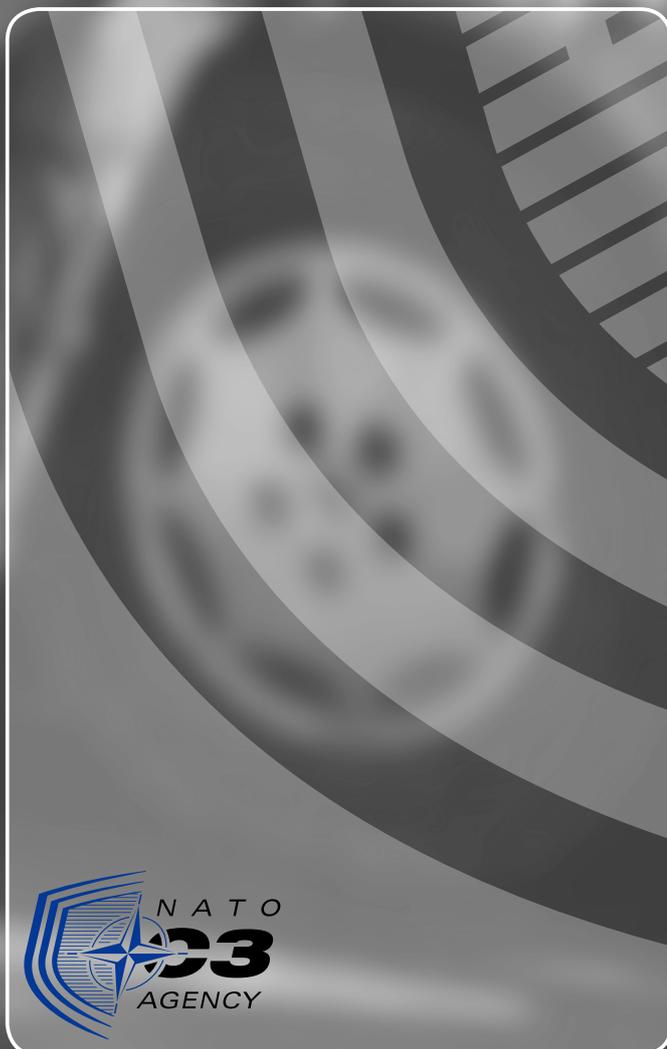


NC3A's contribution to Addressing emerging security challenges



As NATO's advanced technology arm, the NC3A has a strong track record in supporting the Alliance's efforts to address emerging security challenges; from the campaign against terrorism and cyber defence to assisting SACEUR with strategic assessment capabilities, the Agency has been able to rapidly deliver a number of projects to address nascent challenges and threats.

The Agency's staff are available to further support the new division as it engages in future projects.

NC3A at a glance:

- Operates from two locations, Brussels and The Hague, with liaison offices at ACT, SHAPE and JWC, and field offices in Kabul, Kandahar.
- 700 highly-qualified staff, state of the art laboratories.
- Portfolio of some 600 projects, from support to ISAF, to counter-terrorism, cyber and missile defence and NATO-Russia projects; some 3 billion Euro under contract.
- General Manager – Georges D'hollander of Belgium.
- Website: <http://www.nc3a.nato.int>

A Comprehensive C4ISR Approach:

At the heart of NC3A's approach lies a comprehensive strategy that seeks to leverage various activities and streams of funding in order to achieve a coherent, synergistic and future-oriented C4ISR capability that allows the Alliance and its member states to interact with a broad range of partners, including the civil sector. Particularly in the area of emerging security challenges, this is a fundamental prerequisite for success.

"Healthy partnerships provide an opening for NATO to pursue solutions to complex problems that affect its security; in most instances, the preferred method will be a comprehensive approach that combines military and civilian elements. NATO is strong and versatile but it is by no means well-suited to every task."
 - Group of Experts on Strategic Concept

Customer-funded flexibility

Because NC3A is 100% customer-funded it presents to Nations, both member and partners, a flexible mechanism for developing practical, rapid projects aimed at new challenges and threats. An example is the landmark NATO-Sweden counter-terrorism information-sharing demonstration, in which NATO aircraft fed radar information to Swedish police in a joint counter-terrorism exercise, as well as the NATO-Russia airspace initiative.



Strategic Assessment Capability

ISAF Strategic Assessment Capability

In a very rapid timeframe, the NC3A delivered to SACEUR an advanced capability that leveraged robust analysis tools, broad data input, - including from civil sector and think tanks - to assess a broad range of strategic factors and trends, including religion, demographics, geography, economy and weather. The division could leverage this work in developing its own capability.

Defence Planning

Key developments include new and enhanced models to support the identification of capability requirements, with a focus on capabilities needed to meet the challenges of the current and future security environment.

Cyber Defence

Building NATO's cyber defence, contributing to exercises

The NCIRC Full Operational Capability Phase 1 design project - authorized at the end of 2008 - is completed, and acquisition of FOC is due by 2012, in line with Lisbon priorities. NC3A also provided support to NATO's Cyber Defence exercises.

Counter Terrorism

Convoy tracking

At the end of 2008, the Taliban publicly launched a campaign against NATO's supply lines as well as international humanitarian convoys. In a matter of weeks the Agency was able to provide the ISAF Combined Joint Operations Centre with a capability, which pulled key information from a variety of sources, into a one-screen overview of convoy status, threats and incidents, allowing for rapid responses and early warning to convoys heading into danger.

Advanced counter-IED

On December 14 2009, new CIED sensors were successfully delivered and installed at Kandahar Airfield Entry Control Points and Passenger Terminal. NC3A acted as a Host Nation for procuring the system. The highly mobile sensors are able to check incoming pedestrians, cars and trucks in order to detect and display the location of hidden explosives, weaponry and radioactive materials.

NATO-Russia air traffic coordination

NATO and Russia have begun exercising a joint system for air traffic coordination. This will be the first NATO-Russia system of this kind to be fielded.

Landmark Sweden-NATO counter-terrorism information-sharing exercise

Many terrorist scenarios - such as a dirty bomb attack against a major European city or harbort - call for close cooperation between civil and military components. In 2007, Swedish police and civil first responders shared a common operational picture of a rapidly evolving terrorist threat with NATO forces, in order to ensure a coordinated response.

Civil-Military Cooperation in Addressing Energy Security and Environmental Challenges

Afghanistan Flood Prevention Map

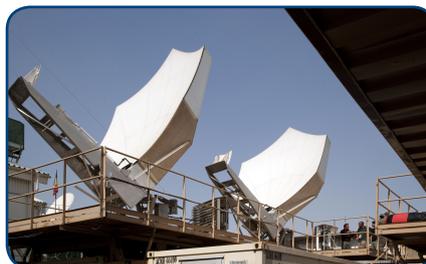
Afghan suffers from devastating seasonal flooding. To predict where floods are likely to occur and to visualize its potential extent, the NC3A Geo Team have created the Afghanistan Flood Hazard Map. They used innovative technologies based on 3D models and flood observations which give the map an unprecedented accuracy on Afghan flood areas.

15 years of Integrated Command and Control

ICC is now released to 400 operational sites in NATO and national HQs in 24 NATO countries, Sweden and Finland. ICC supports air and joint command and control functions in support of NATO operations, including ISAF. JPECT provides for joint crisis management with civilian partners and was successfully trialled during the relief effort for Haiti.

Advanced Training Tools

NC3A formally handed over two project deliverables to the Joint Force Training Center (JFTC) and their local NCSA Squadron. These deliverables provide Computer Aided Exercise and Functional Services, and helped significantly with the integration of Automated Information Systems into the training. In addition, tools developed for ACT received great reviews at key international exhibitions dedicated to training developments. At a recent CAX, Phoenix 2010, supported by NC3A, joint consequence management was exercised, setting the stage for further projects with the new division.



Potential Areas for Future Cooperation

Strategic Assessment Capability

The NC3A stands ready to support the work of the division in developing its Strategic Analysis Capability, including in relation to non-proliferation.

Multinational C-IED

In line with the Secretary General's call for more multinational cooperation in addressing new threats and challenges, the NC3A has launched a framework for joint procurement of C-IED technology that would allow Nations to benefit from significant economies of scale. The initiative will also help Nations to pull and coordinate research effort, and jointly finance certain research endeavours in order to avoid duplication and waste of resources and effort.

Multinational maritime information-sharing

Current maritime information systems are on the verge of obsolescence; the NC3A is on the turning point of a major multinational initiative that would give NATO member and Partner countries a means for state of the art maritime situational awareness, as well as the ability to share information and cooperate with non-traditional Partners and the civil sector in security vital energy and trade supply lines. This will be a major contribution to both counter-piracy and counter-terrorism efforts and pave the way for both greater energy and trade security.

Civil-military interoperability project

The aim of the project is to establish a forum where the most critical civil-military interoperability and information exchange issues are identified, analyzed and explored. This fits in directly with the NATO 3.0 'active engagement' with a broad range of partners, as spelled out in the new Strategic Concept.

Multi-national cyber defence

The project aims to give Nations the means to pursue joint efforts in the area of cyber defence, including research and procurement, which complement what is being done within NATO common-funding.

For more information, please contact:

Dr. Velizar Shalamanov
 Director Sponsor Account Nato and Nations,
 NC3A

The NC3A has a long-running track record in the deliver of counter-terrorism technology and solutions.



100% customer-funded, the Agency is a flexible platform for cooperation with civilian, academic and EU partners to address the broad range of security challenges.

Location Brussels
Boulevard Léopold III, B-1110 Brussels, Belgium
Telephone +32 (0)2 707 4111
Location The Hague
P.O. Box 174, 2501 CD The Hague, The Netherlands
Telephone +31 (0)70 374 3000
www.nc3a.nato.int



NATO C3 Agency
Sponsor Account NATO and Nations (DSA N&N)
Telephone +32 (0)2 707 8547
Fax +32(0)2 707 8770
Email: DSANN@nc3a.nato.int
www.nc3a.nato.int/nations.aspx