NCI AGENCY

NATO Communications and Information Agency

AFCEA Europe

The Association for Communications,
Electronics, Intelligence & Information Systems Professionals

AFCEA

"From Assets
to Services -
Capability Delivery
in the
21th Century"

25-27 March 2014   Bucharest, Romania

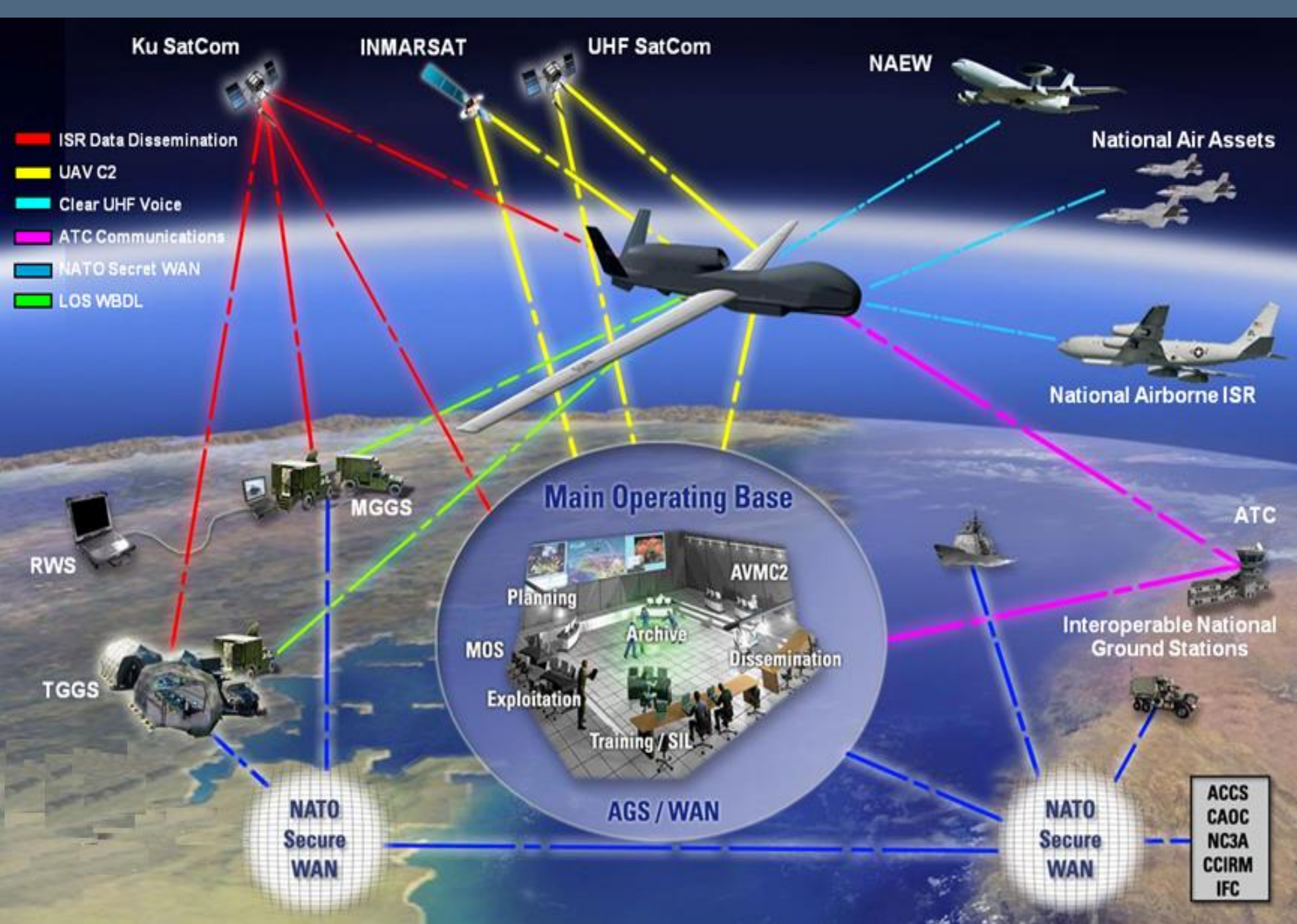# NATO C4ISR Industry Conference & TechNet International 2014

"on the occasion of the 10th anniversary of Romania's accession to NATO"

NCI AGENCY

NATO Communications and Information Agency
Agence OTAN d'information et de communication

Joint Intelligence, Surveillance and Reconnaissance
Business Opportunities

Mr Malcolm Green
Chief Joint ISR Service Line

Legend:
- ISR Data Dissemination (red)
- UAV C2 (yellow)
- Clear UHF Voice (cyan)
- ATC Communications (magenta)
- NATO Secret WAN (blue)
- LOS WBDL (green)

Labels in diagram:
- Ku SatCom
- INMARSAT
- UHF SatCom
- NAEW
- National Air Assets
- National Airborne ISR
- ATC
- Interoperable National Ground Stations
- MGGS
- RWS
- TGGS
- Main Operating Base
- Planning
- AVMC2
- Archive
- MOS
- Dissemination
- Exploitation
- Training / SIL
- AGS / WAN
- NATO Secure WAN
- NATO Secure WAN
- ACCS
- CAOC
- NC3A
- CCIRM
- IFC

What is JISR in NATO?

- The synchronisation and integration of <u>Operations and Intelligence</u> capabilities and activities, geared to provide timely information to support decision effects.

- JISR is a combined Intelligence / Operations function requiring extensive cross-Community of Interest (COI) coordination and interoperability at many levels.

- JISR integrates NATO's <u>and Nation's</u> ISR capabilities, policies, procedures and systems to provide information support to leaders, commanders, and decision makers from the strategic to the tactical level.

- Functional JISR structures built on the 'DOTMLPFI' framework.

The Key Message:
"JISR as NATO's Operational Glue"

NATO's Strategic Concept

From the experts report:

- *"Understand JISR as NATO's operational glue.."*
- *"JISR capabilities provide operational sinew…a high priority for future investment"*
- *"Allies should invest smartly in the latest JISR systems, capabilities and standards"*

Confirmed through Operational Lessons

- Balkans, Iraq, ISAF, OUP

"….integrated and coherent JISR remains fundamental to ensure mission success,…."

NATO's JISR Challenge

JISR: *'A Flagship Initiative'*
NATO's Chicago Summit

*''As one of its most critical capability needs, NATO seeks **an enduring JISR capability** which will permit the **coordinated collection, processing, dissemination and sharing within NATO of ISR material** gathered by the AGS, NATO's Airborne Early Warning and Control (NAEW&C), as well as many extant and emerging national ISR assets''.*

''Such a capability will be based on the JISR initiative to address identified shortfalls in information sharing capabilities and qualified JISR personnel'' .
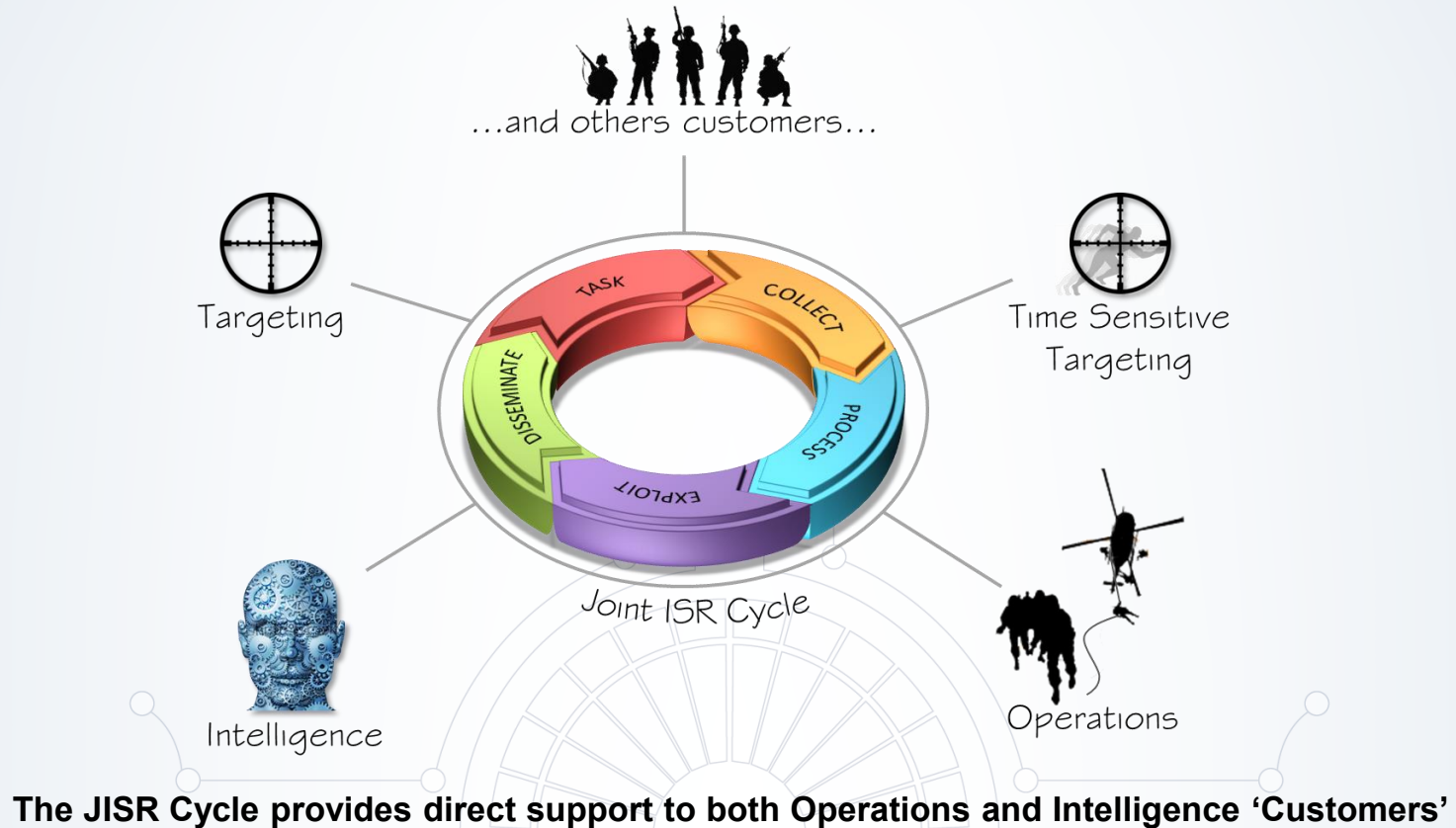
Heads of State & Governments

The JISR SL ''Foundation'
Supporting The JISR Cycle

The fundamental elements within the JISR Cycle are:
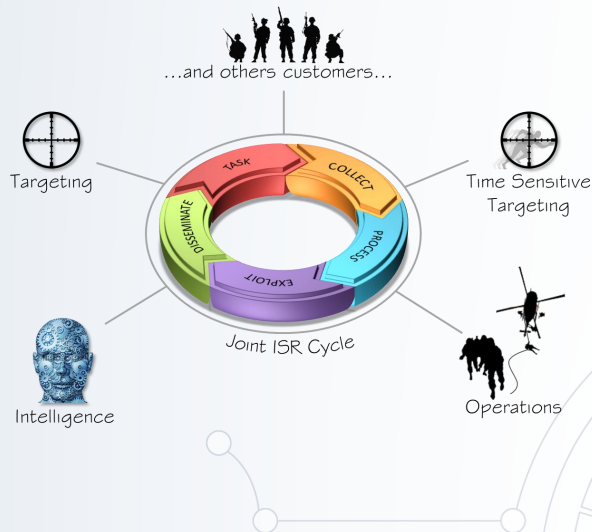*Task*, *Collect*, *Process*, *Exploit* and *Disseminate*.

Offers the foundation for provision of JISR capabilities in support of a Commander's objectives and requirements.

…and others customers…

Targeting

Time Sensitive Targeting

TASK COLLECT DISSEMINATE EXPLOIT PROCESS

Joint ISR Cycle

Intelligence

Operations

The JISR Cycle provides direct support to both Operations and Intelligence 'Customers'

The New JISR Service Line

The JISR SL focus = facilitating global interoperability within the JISR COI internal to NATO but also with external COI's

The JISR SL will be responsible to its customers for planning and executing all lifecycle management activities in support of the JISR Cycle and associated services, including:

- Strategy & Policy
- Standardisation
- Requirements Analysis
- CD&E
- Design & Development
- Processes
- Acquisition
- Implementation
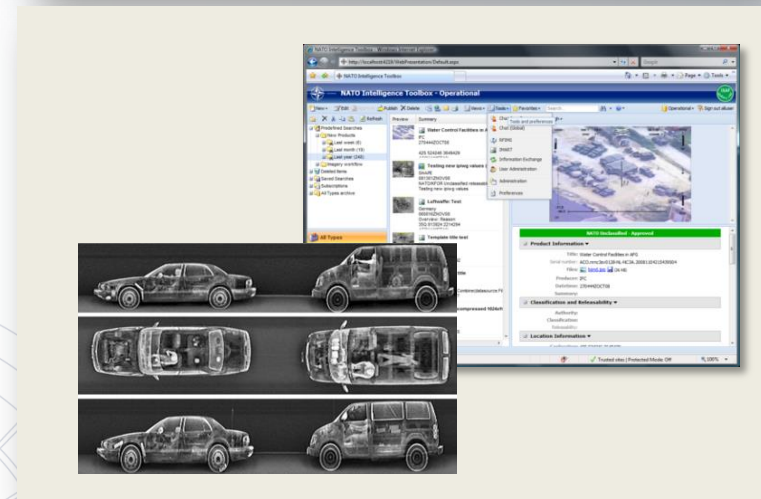- Transition
- Service Operation (O&M)

JISR SL Team Competencies

- **ISR System Engineering**
  - ISR architectures, standards and processes
  - ISR training & exercises
  - Intelligence tools and processes
  - ISR information sharing
- **Acquisition of Sensor and ISR systems**
- **Operational, system and technical expertise**
  - CD&E
  - Requirements Analysis
  - Design & Development
- **Sensor and Surveillance systems technical expertise**
  - Architectures, analysis, testing, integration, experimentation, R&D, Concept & Prototype Development
- **Counter Improvised Explosive Devices (C-IED)**
- **Electronic Warfare**
- **Perimeter Defence and Surveillance**
- **GEO INT and Core GIS expertise**
- **Intel Systems Maintenance & Support**

JISR Team Customer Base

- **Highly diversified customer base**
- **Partial list of current sponsors includes**
  - Nations (CZE, GBR, HUN, LTU, POL)
  - Multi-national
    - MAJIIC2
    - BRAAD
    - NATO Russia Council Cooperative Airspace Initiative
  - **NATO**
    - ACO & Subordinate Commands
    - ACT
    - CNAD
    - Investment Committee
    - Through Capability packages
    - Support to Ops through CUR's
    - NAEW FC
    - ACCS
    - NAPMA
    - NAGSMA
    - CORE GIS
    - INTEL FS
    - NC3B

'Fast Facts' – Today
JISR SL Turnover ~ € 25M p.a.

2014 Forecast
– 2014 turnover forecast for JISR Service Line – 25.5 M EUR
– JISR SL manages 96.4 MEUR of NATO investment funds
– Additional 133 MEUR third party acquisition funds
– Diversified, loyal customer base
– Large proportion of multi-year projects

Active support to 2 of the 3 major NATO Task Forces
– C-IED
– JISR

Support to NATO Russia Council
– Cooperative Airspace Initiative

Direct Service Support to Operations
– ISAF
– KFOR
– Mediterranean Ops

Support most major Lisbon Summit objectives

Direct management & SME support to many key NATO JISR activities eg:
– INTEL FS & EW FS
– MAJIIC 2
– NATO AGS
– NATO AEW&C Force
– Core GIS
– Intel Tools Maintenance

Opportunity – AGS CIS Integration

AGS CIS Support

- Integration of AGS Core System Elements and MOB to the rest of the NATO CIS infrastructure.

- Provision of associated systems and services.

- Commercial KU Band SATCOM 120MHZ plus UHF

Background Information

AGC CIS
Investment: ~ €21M CIS
~ €250M SATCOM

Business Case (TBCE): 3Q2015
Invitation to Bid: 1Q16 2016

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Opportunity – AGS CIS Integration

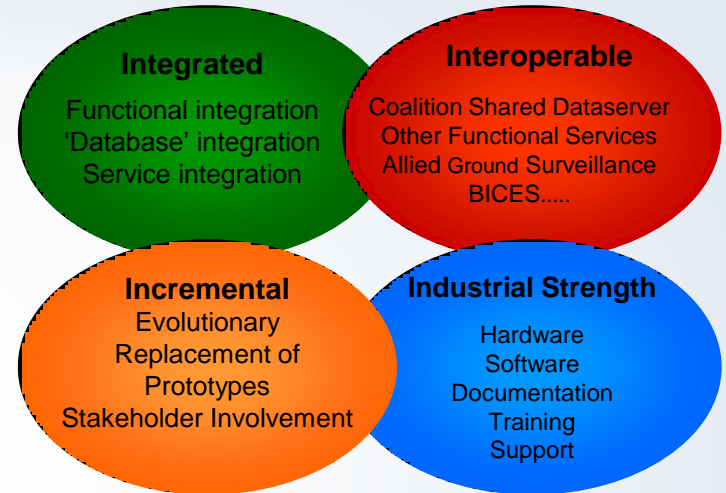| #	HN	Serial	Location	Title	Project Milestones					NSIP Cost (KEUR)		Remarks
					APF	1st Stage	IFB stage	Contract Award	Complete	JSSR / PO 49	PIP	
12	NI	0VA03021	Sigonella	Provide Consultancy Support for NATO CIS Capability Mgmt	JUN 13	NOV 13	JAN 14	MAY 14	JUN 18	2,949	2,727	
13	NI	0VA03022	Sigonella	Provide Target Architecture and Project Portfolio Mgmt Support	MAR 12	APR 13	APR 13	JUL 13	MAR 17	2,575	2,771	
14	NI	0IS03191	Sigonella	Extend the Geographical Scope of Bi-SC AIS	OCT 13	JUL 14	JAN 15	JUL 15	FEB 18	4,200	4,060	
15 / 16	NI	0IS03193	Sigonella	AGS AIS Integration	FEB 14	NOV 14	MAY 15	NOV 15	MAR 18	2,178 / 1,880	4,053	
17	NI	0CM03124	Sigonella	Provide NGCS Transmission Services	OCT 14	APR 15	JUN 15	NOV 15	DEC 16	800	296	
18 / 19	NI	0CM03125	Sigonella	Provide NATO Communications Infrastructure	JUL 14	JAN 15	MAR 15	AUG 15	JUL 17	406 / 1,092	1,244	
20	NI	0CM03127	Sigonella	Provide Studio Video Teleconferencing	SEP 14	FEB 15	APR 15	SEP 15	OCT 17	730	687	
21	NI	0CM03128	Sigonella	Provide DCIS Transmission Components to AGS	FEB 14	DEC 14	APR 15	OCT 15	MAR 18	4,435	5,005	
22	NI	0VA03023	Sigonella	Provide CIS Support to the ADVON Footprint	JUL 13	NOV 13	JAN 14	MAR 14	JUL 17	N/A	503	
									Total CIS "at 28C"	21,245	21,346	
24	NI	0CM03129	Sigonella	Provide SATCOM Space Segment Capability - Market Survey	MAY 13	SEP 13	NOV 13	FEB 14	SEP 15	250,000	863	Cost reductions expected
				Provide SATCOM Space Segment Capability - Provision	FEB 14	NOV 14	MAR 15	NOV 15	DEC 37		249,137	
									Total SATCOM "at 27C"	250,000	250,000	

Opportunity – INTEL FS INCREMENT 2

INTEL FS Increment 2

– Capability will build on INTEL FS Increment 1 to provide following key additional Intel capability;

Functional Requirements
– Management of Intel Process
– Core Intel Capabilities
  • Publishing, Discovery, Analysis
– Domain-specific Capabilities
  • SIGINT, IMINT
  • Counter-Intelligence
  • Support to Targeting
– Collaboration & Synchronisation

Integrated
Functional integration
'Database' integration
Service integration

Interoperable
Coalition Shared Dataserver
Other Functional Services
Allied Ground Surveillance
BICES.....

Incremental
Evolutionary
Replacement of
Prototypes
Stakeholder Involvement

Industrial Strength
Hardware
Software
Documentation
Training
Support

Background Information
INEL FS
Investment: ~€12 - 15M
Business Case (TBCE): 3Q2015
Invitation to Bid: 1Q16 2016

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INTELLIGENCE FUNCTIONAL SERVICES
SPIRAL I

Opportunity – CORE GIS

Combined Joint Operations FS Inc.1

- Provide Joint Targeting capabilities to replace the existing JTS and FAST capabilities.
- Integrate with existing core and functional services.

Combined Joint Operations FS Inc.2

- Industrialisation of NIRIS (near real-time data distribution)
- Civil-military Cooperation functionality
- Operations planning
- Psychological operations

Background Information

CORE GIS Inc.3
Investment: ~€10M
Business Case (TBCE): April 2014
Invitation to Bid: 4Q2014

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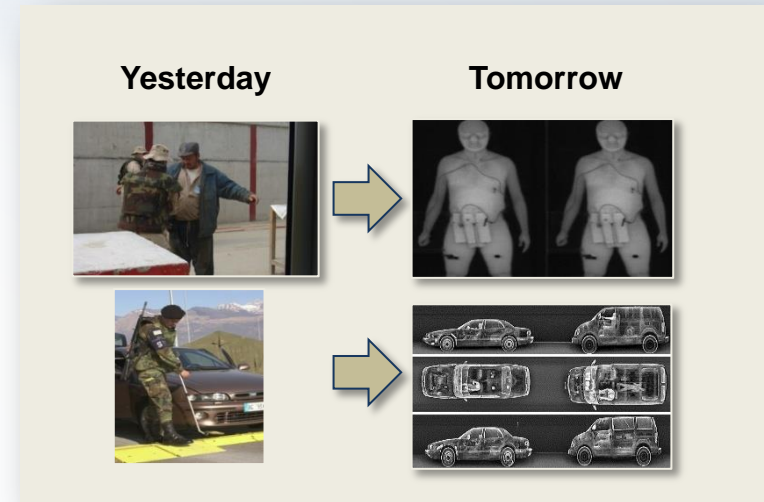Email: *John.Teufert@ncia.nato.int*

Opportunity – NRF C-IED ECMs

Phase 1

- – Two explosive detection systems for Vehicle Screening
- – Two explosive detection systems for screening personnel & baggage.
- – ECM Capability against RCIED comprising
  - • 3 Vehicle ECM's – armoured vehicles
  - • 3 Static ECM for use at Entry Control points

Phase 2

- – ECM Capability against RCIED
- – Two vehicle ECM systems mounted on armoured vehicles
- – 1 Static ECM for usage at Entry Control Point

Yesterday　　　**Tomorrow**

Background Information

NRF C-IED
Investment: ~€8M Phase 1
　　　　　　 ~€7M Phase 2

NOI Out
Invitation to Bid: 2Q2014

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JISR SL – Emerging Opportunities
New Opportunities & Challenges

Asymmetric warfare will remain a fact of life
- C-IED efforts remain critical
- Need to stop IEDs earlier in process
- HUMINT and Biometrics policy challenges

National-NATO ISR Interoperability
- Commonly agreed standards (STANAGS), protocols and processes - National systems
- ISR information exchange and sharing policies

Volume of Intel data to be processed
- Network & storage/archival challenges
- Intel analysis processing time must be shortened through automation support
- Cross-domain & Cyber solutions needed

Multinational Cooperation & Partnering
- Subsets of NATO Nations & Non-NATO Nations
- Industry partnerships & cooperation
- Requires cooperatively developed systems, processes and plug and play architectures
- CIMIC Challenges

QUESTIONS?