



*ITALIAN ARMY GENERAL STAFF - IV LOGISTIC DEPARTMENT*



# ***LC<sub>2</sub>EVO – STRATEGIC DECISION SUPPORT***



**Maj Gen. Mario RUGGIERO**  
**CHIEF DEPARTMENT**

4° SEDA 2015, Rome  
May 26th, 2015



- MILITARY DOCTRINE & RANGE OF MILITARY OPERATIONS
- LAST TWENTY YEARS OF ITALIAN ARMY MILITARY OPERATIONS & ORGANIZATIONAL CHANGES
- SOFTWARE DEVELOPMENT AGILE EVOLUTION FOR CHANGING DECISIONAL PROCESSES – LC<sub>2</sub>EVO
- LC<sub>2</sub> EVO: THE SOLUTION



MILITARY DOCTRINE IS THE FUNDAMENTAL SET OF PRINCIPLES THAT GUIDES MILITARY FORCES AS THEY PURSUE NATIONAL SECURITY OBJECTIVES.

ITA ARMY EXAMINED THESE PRINCIPLES, WHICH RANGE FROM THE POLICIES AND PROCEDURES PUT IN PLACE BY A PARTICULAR MILITARY BRANCH TO THE TACTICS AND TECHNIQUES.



# RANGE OF MILITARY OPERATIONS



THE MILITARY INSTRUMENT ACROSS THE CONFLICT CONTINUUM IN A WIDE VARIETY OF OPERATIONS RANGING INTO THREE BROAD CATEGORIES



# ITA ARMY REVIEW AND REORGANISATION - MODERNISATION

## - THE ROLE OF THE ITA ARMY -



**HOMELAND  
DEFENSE**



**COLLECTIVE  
DEFENSE**



**SUPPORT TO  
INTERNATIONAL  
PEACE & SECURITY**



**SPT. TO PUBLIC  
AUTHORITIES &  
DISASTER RELIEF**



**PREVENT**

**CONFLICTS, CRISES,  
EMERGENCIES**



**STABILISE**

**CRISES**



**SHAPE**

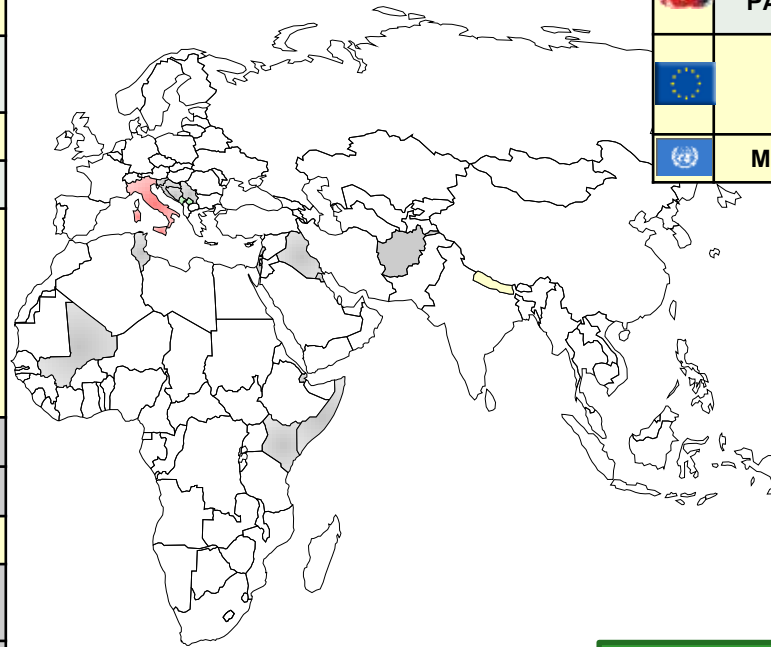
**COOPERATION FOR  
SECURITY**



# CURRENT DEPLOYMENT

## NATIONAL OPERATIONS ACROSS BORDERS

	Nome Operazione	Zona Interessata	Personale Impiegato
	RSM	- Afghanistan	482
	CENTCOM	- Tampa	5
	EAU TF AIR	Dubai - Al Bateen	6
	LEONTE	- Libano	1190
	MIBIL		20
	JOINT ENTERPRISE	- Kosovo	356
		- Serbia	3
		- Macedonia	1
		- Bosnia	1
	BMNS	- Gibuti	64
	MICCD	- Malta	2
	ALTHEA	- Bosnia	2
	EUCAP NESTOR	- Nairobi	1
	EUDEL	- Tunisi	1



	Nome Operazione	Zona Interessata	Personale Impiegato
	PRIMA PARTHICA	- Kuwait	25
		- Iraq	175
	EUTM	- Somalia	98
		- Mali	13
	MINUSMA	- Mali	2

## DOMESTIC OPERATIONS

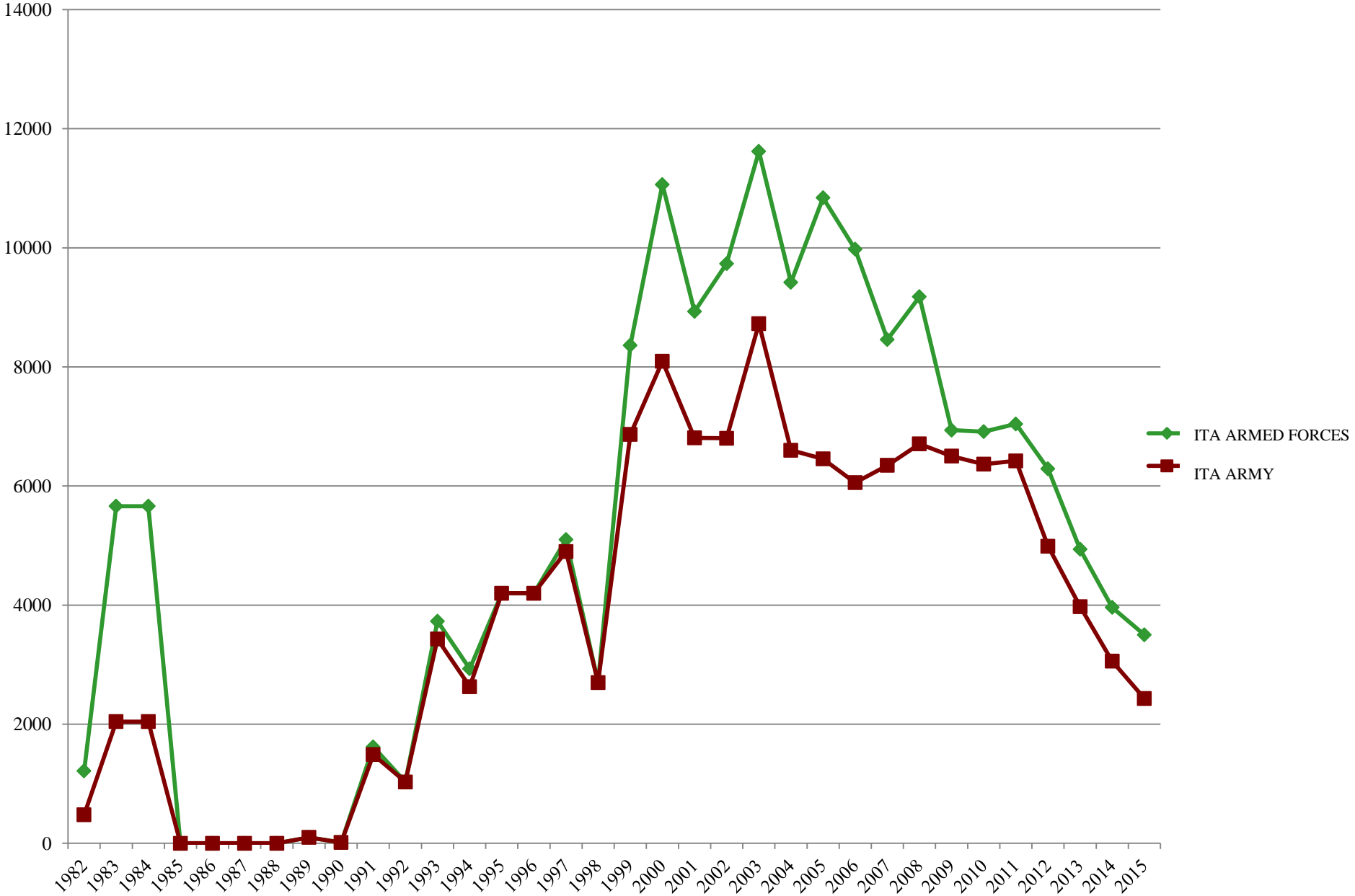
	OPERAZIONE «STRADE SICURE»	4800
	OP. «STRADE SICURE - EXPO 2015»	1855

<b>TOTAL</b>	<b>9107</b>
<b>ABROAD</b>	<b>2452</b>
<b>DOMESTIC</b>	<b>6655</b>

Update to 21.05.2015



# ITA ARMY CONTRIBUTION





DURING THE LAST TWO DECADES ITA ARMY DEPLOYED  
115.000 EXPEDITIRONARY FORCES

MOST OF THESE FORCES HAVE SERVED UNDER US/NATO/ONU  
COMMAND IN IRAQ, AFGHAN AND LEBANON WARS

THE POLITICAL OBJECTIVES OF THESE MILITARY CAMPAIGNS  
HAVE VARIED GREATLY

THE CONFLICTS MUTATED INTO REGIONAL CONFLICT  
“CLUSTER” MORE DIFFICULT TO SOLVE

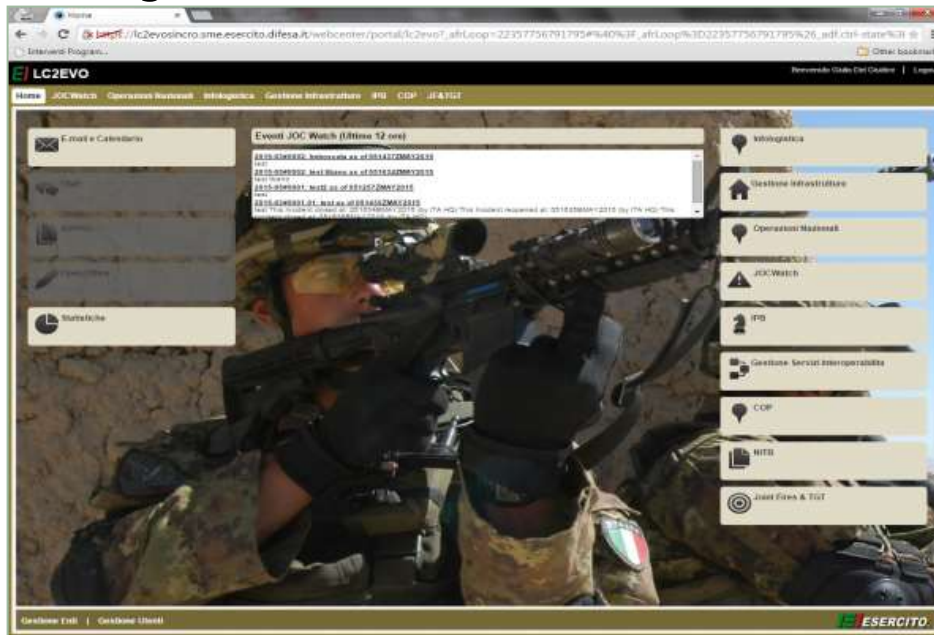




- DESIGN AND DEPLOY A C<sub>2</sub> SYSTEM ABLE TO SUPPORT ANY OPERATIONAL SCENARIOS CHALLENGES TAILORED ON ORGANIZATION (STRUCTURES, PROCEDURES AND RESOURCES) THAT GUARANTEE CONCEPTUAL AND TECHNOLOGICAL EVOLUTION IN ADHERENCE TO THE MISSION COMMAND INTENT.
- THE APPROACH WILL ENABLE CAPACITY DEVELOPMENT DEFINED BY THE APPROPRIATE SOP AND SOI AND ENSURE UNIFORMITY, CONSISTENCY AND ADEQUACY TO ARMY VISION, NATO & NATIONAL DOCTRINE AND L.L..



## Management Tools



**ANDAMENTO DELLA DISPONIBILITÀ OPERATIVA (per categoria – numerica e %)**



**NOT A DUPLICATE  
OF C2 SYSTEMS  
BUT  
A CONSOLLE SUPPORTING  
STRATEGIC DECISIONS**

*Tool in support of decision making: analysis, reporting, benchmarking, key performance indicators.*

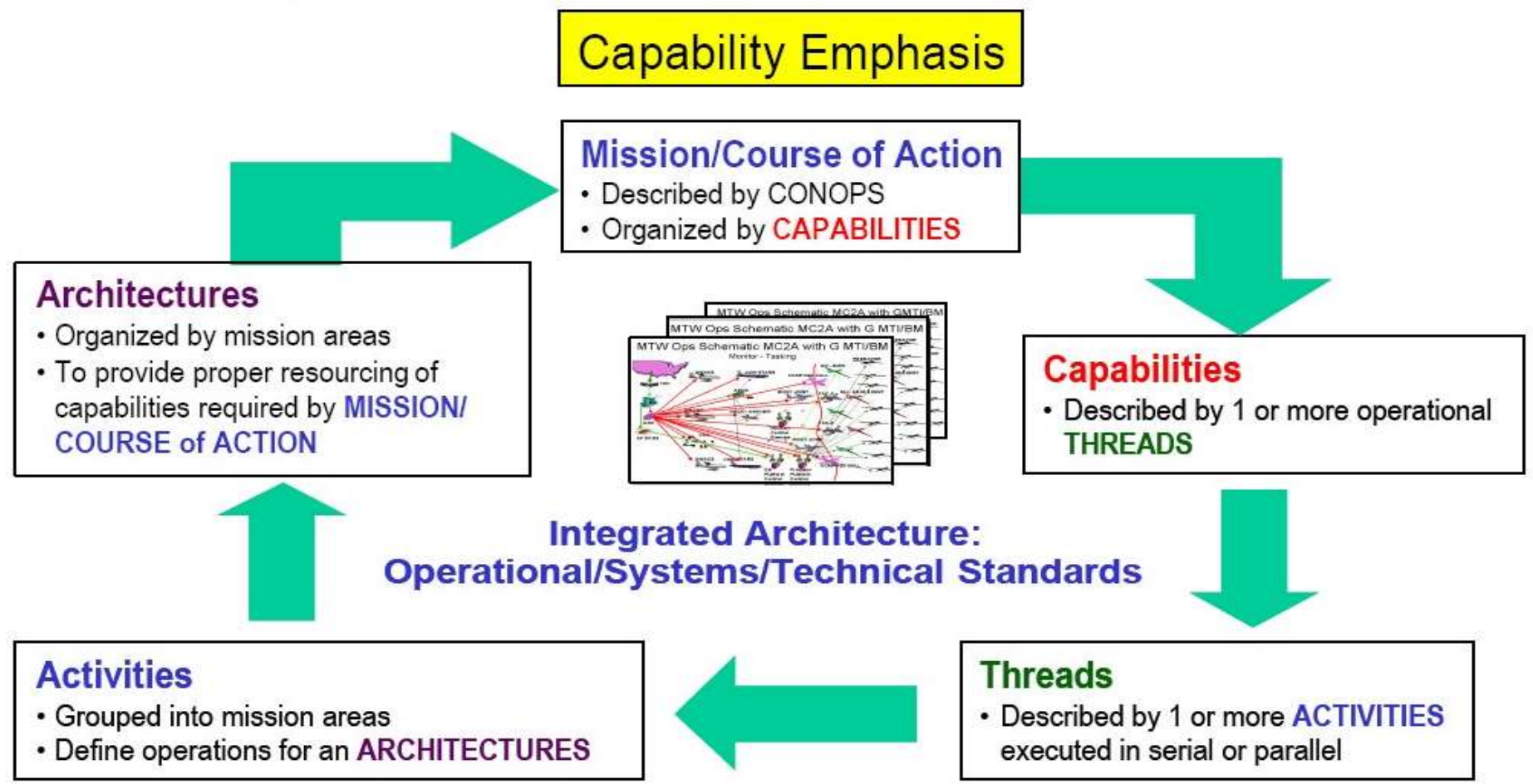


**CRUSCOTTO DISPONIBILITÀ ALL'IMPIEGO (0 - 100 %)**





# ITA ARMY VISION & APPROACH TO C2



THE ABILITY TO EXECUTE THE SPECIFIED COURSE OF ACTION DEPENDS ON MANY FACTORS AND THE RELATIONSHIP BETWEEN THOSE FACTORS



CAPABILITIES CAN BE DESCRIBED AS ONE OR MORE SEQUENCES OF ACTIVITIES, REFERRED TO AS OPERATIONAL THREADS

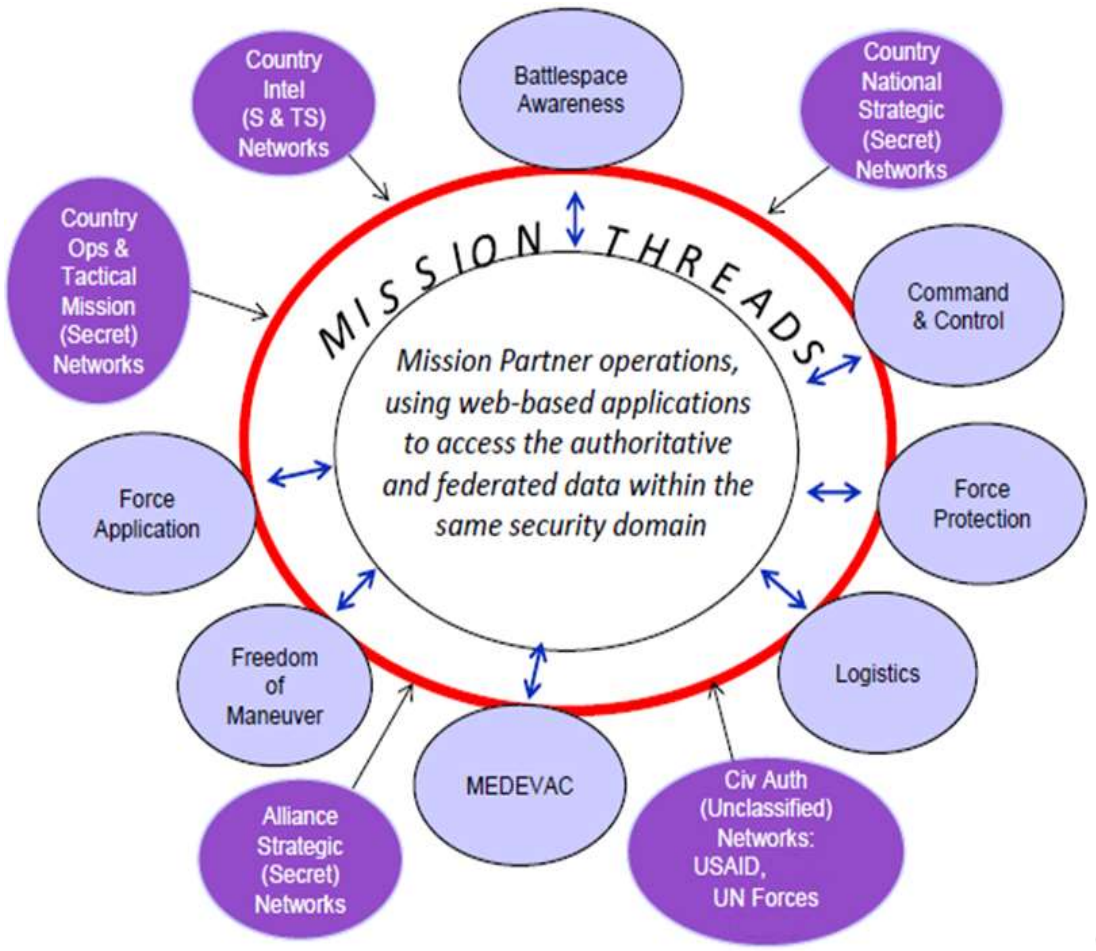
LC<sub>2</sub>EVO FAS<sub>s</sub> DEVELOPMENT WILL BE BASED ON IER MANAGEMENT GROUPED IN FUNCTIONAL CATEGORIES "MISSION THREADS".

"THEMATIC BOXES" INHERITED FROM ISAF CONOPS AND ADOPTED BY NATO READY TO SUPPORT THE FUNCTIONAL AREAS, BUT NOT IN SUBSTITUTION, MORE MISSION-ORIENTED.



## CORE COMMON SERVICES

- CHAT
- E-MAIL
- VOICE OVER IP
- VIDEO
- TELECONFERENCING
- CORPORATE DIRECTORY
- WEB-BROWSING
- CONTENT MANAGER
- COLLABORATION (BLOG, WIKI, ...)





- RESPOND TO WARFIGHTER NEEDS
- BE DATA STANDARDS DRIVEN
- ALLOW AGILE IMPLEMENTATION
- BE EASILY SCALABLE
- ACCOMMODATE A DIVERSE USER COMMUNITY
- QUICKLY INTEGRATE UNANTICIPATED USERS
- INCORPORATE A "TRUST BUT VERIFY" APPROACH





# NEW APPROACH WAS REQUIRED!

- ITERATIVE & INCREMENTAL DEVELOPMENT
- PREDICTION & ADAPTATION
- FLEXIBLE APPROACH
- STAKEHOLDERS INVOLVEMENT
- FUNCTIONAL ORGANIZATION



## "ITA ARMY AGILE" METHOD





## Enterprise Software Architecture (ESA)







# LC2EVO – SPRINTS IDT1



### S1 (ADE)

February 17, 2014  
March 21, 2014



### S3 (APOLLO)

April 21, 2014  
May 23, 2014



### S5 (ARTEMIDE)

June 16, 2014  
July 4, 2014

### S7 (DEMETRA)

August 4, 2014  
August 29, 2014



### S9 (EFESTO)

November 10, 2014  
November 28, 2014

2014



### S2 (AFRODITE)

March 24, 2014  
April 15, 2014

### S4 (ARES)

May 28, 2014  
June 16, 2014

### S6 (ATENA)

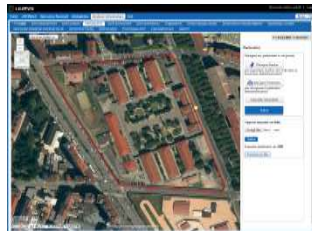
July 7, 2014  
July 25, 2014

### S8 (DIONISO)

October 6, 2014  
October 24, 2014

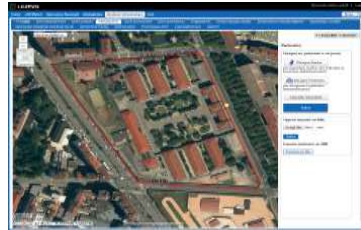
### S10 (CRONO)

December 2, 2014  
December 19, 2014





# LC2EVO – SPRINTS IDT1



### S11 (EOLO)

January 20, 2015  
February 9, 2015

### S13 (EO)

March 30, 2015  
April 30, 2015

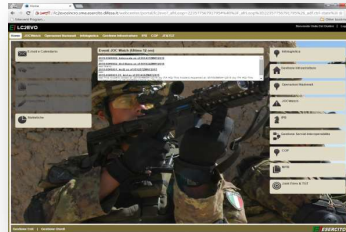


### S12 (ELIO)

February 27, 2015  
March 20, 2015

### S14 (ERA)

May 8, 2015  
May 29, 2015





# Q&A SESSION



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