Civil-Military Fusion Centre and Civil-Military Overview (CFC/CMO)

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CFC Chief Knowledge Manager
Lead CFC/CMO Concept Developer
ACT Operational Experimentation

Current as of May 14, 2008

Why do we need the CFC/CMO?

Bucharest Summit Declaration

Riga Summit Declaration

Comprehensive Approach

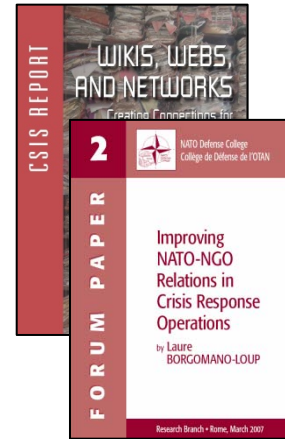**Comprehensive Political Guidance (CPG)**

NATO Requirements

HQ ISAF

Operational Requirement

Analysis & Lesson Learned

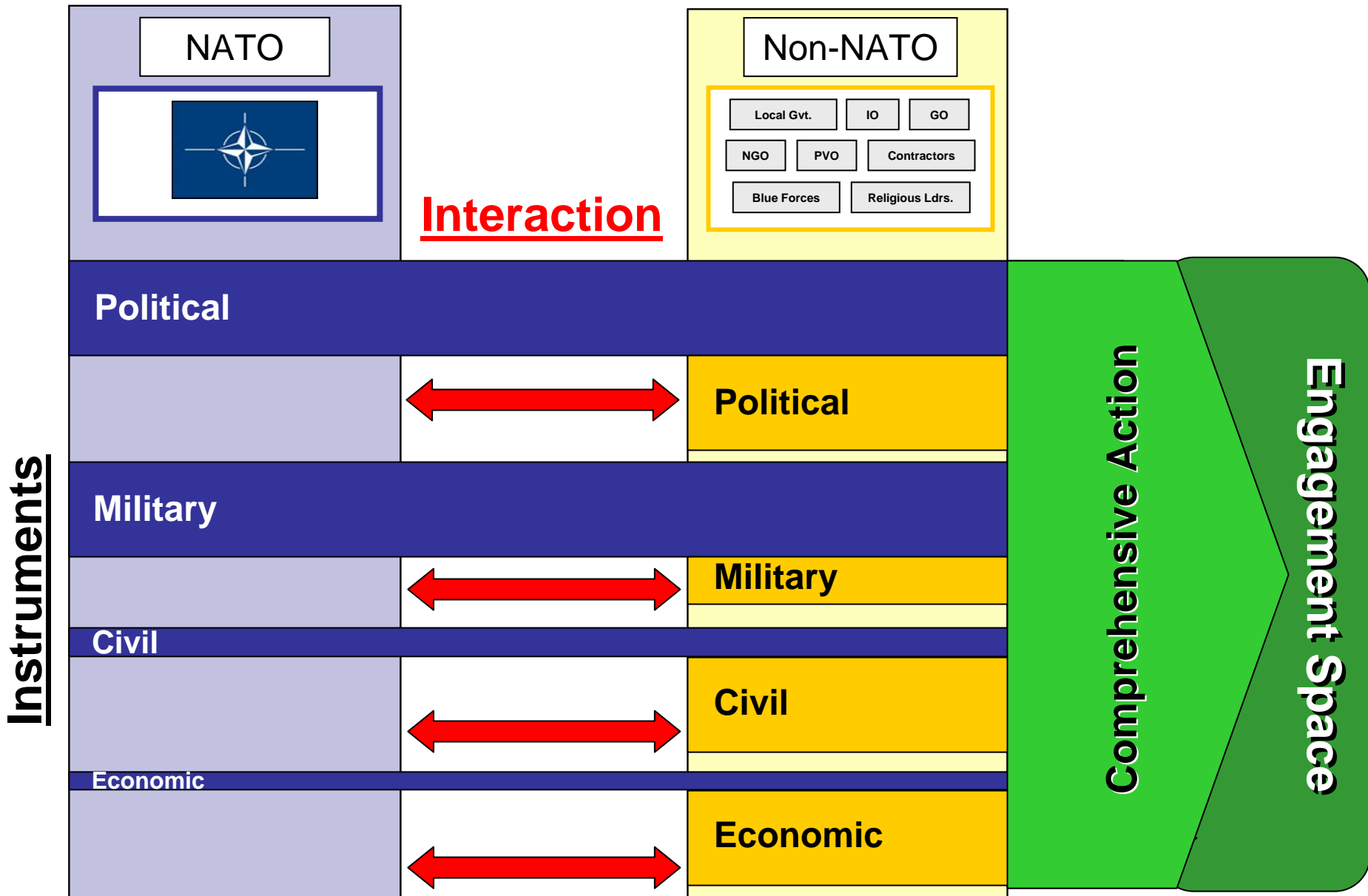**Non-NATO Actor Interaction**

Related Projects

Research & Reports

NATO and Non-NATO Actors Interaction

NATO

Non-NATO

Local Gvt.	IO	GO
NGO	PVO	Contractors
Blue Forces	Religious Ldrs.

Interaction

Instruments

Political ↔ **Political**

Military ↔ **Military**

Civil ↔ **Civil**

Economic ↔ **Economic**

Comprehensive Action

Engagement Space

Spectrum of Interaction

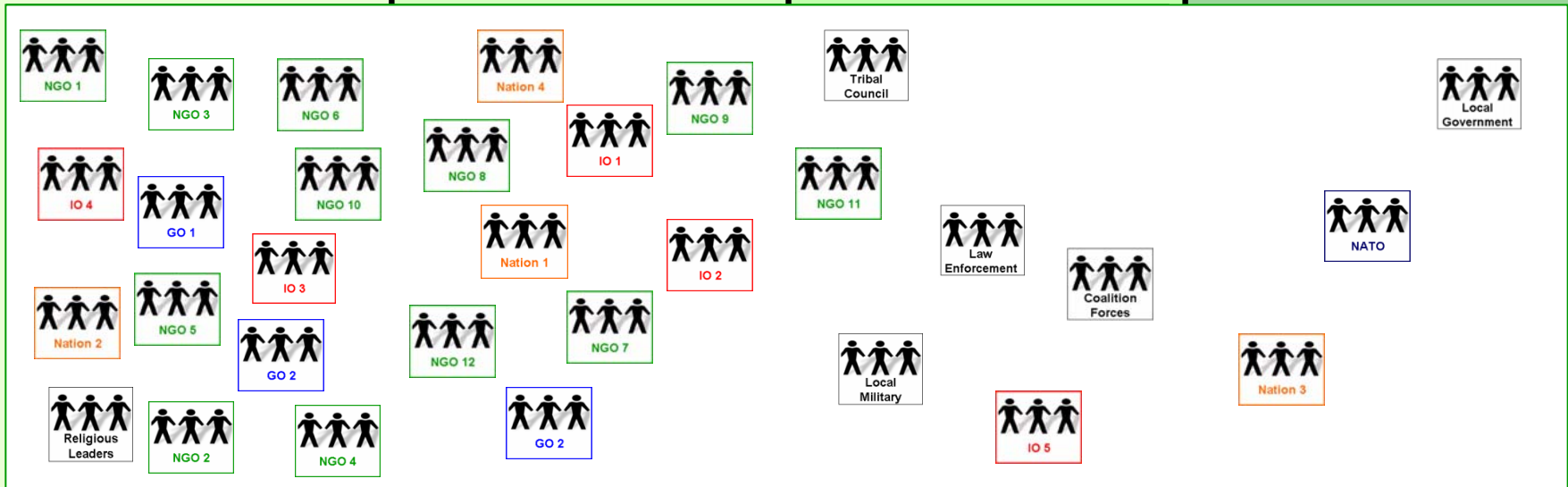| Awareness	De-Confliction	Cooperation	Coherence
← Co-existence →		← Cooperation →	

Interaction

- **Awareness:** Transparency and information sharing enhances shared view of the engagement space.

- **De-confliction:** Shared view avoids interference and encourages economies in activities - self-synchronize.

- **Cooperation:** Shared view and economies encourage common purposes and goals – "Ad Hoc."

- **Coherence:** Common goals and trust leads to comprehensive actions – "Concerted Planning and Action."

CD&E Plan for Civil-Military Interaction

Awareness	De-Confliction	Cooperation	Coherence

Interaction →

Non-NATO Actor Taxonomy

Civil-military Fusion Centre & Civil Military Overview ℹ️

Public Information Rapid Response Team

CIMIC Synthetic Environment – Modeling & Simulation ℹ️

Civil Emergency Planning - Capabilities Catalogue ℹ️

Civil-Military Trends ℹ️

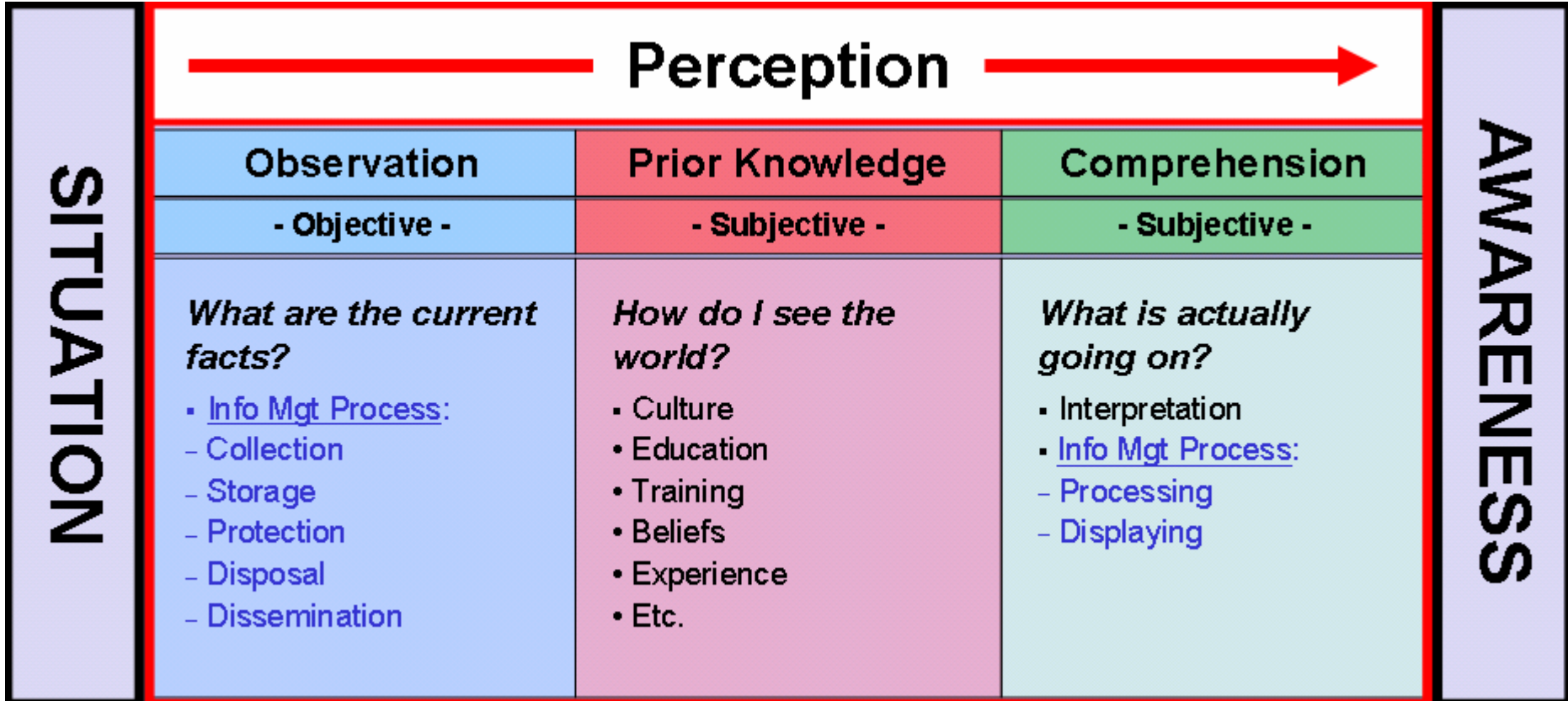Non-NATO Actor Interaction

Civil Actors Advisor ℹ️

Civil Affairs Group

Mechanism to:

"Facilitate interaction and improve information sharing between civilian and military actors during natural and man-made crises in order to establish a sense of shared awareness of the engagement space."

•Not a planning tool - provides input to the knowledge base

•Low order assessments by CFC Knowledge Managers. More formal through CIMIC Trends

Situational Awareness Model

Perception →

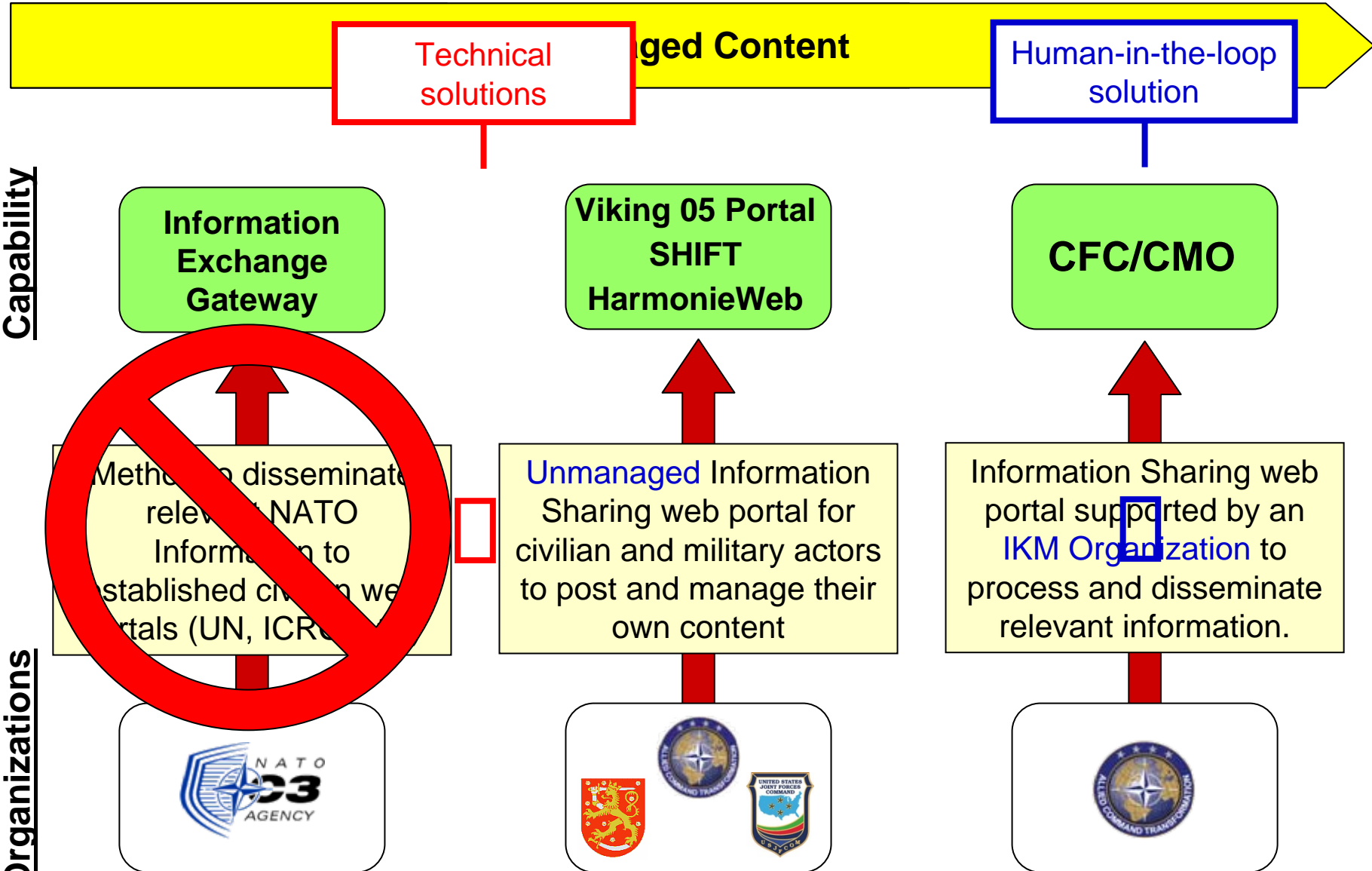| SITUATION	Observation	Prior Knowledge	Comprehension	AWARENESS
	- Objective -	- Subjective -	- Subjective -	
	What are the current facts? ▪ Info Mgt Process: – Collection – Storage – Protection – Disposal – Dissemination	*How do I see the world?* • Culture • Education • Training • Beliefs • Experience • Etc.	*What is actually going on?* ▪ Interpretation ▪ Info Mgt Process: – Processing – Displaying	

SA Model Scenario

"Devastating Earthquake"

How can we go from ISA to Shared Situational Awareness?

Individual	Observation	Prior Knowledge	Comprehension
Gvt. Off. *(Individual SA)*	• Saw earthquake damage on TV • Read reports from Emergency Services • Contact with family in affected region	• Law Degree • Interior Ministry official • Raised in affected region	**Strategic View** • Emergency services responding well • Family and friends are safe
Military Pilot *(Individual SA)*	• Performed some relief & rescue flights • Observed damage from altitude • Received hostility from local group	• Military Academy graduate • Combat veteran in region • Search & Rescue helicopter pilot	**Operational View** • Resources stretched but able to cope • Local insurgents may hamper relief
Humanitarian *(Individual SA)*	• Aiding IDP in temporary camps • Total lack of local government capacity • Personally observed large # of casualties	• Social Work degree • Years of on-hand field experience • IDP/Refugee expert	**Tactical View** • People are suffering because Gvt. unable to cope with problem • Need more outside support

Approaches to Situational Awareness

Managed Content

Technical solutions

Human-in-the-loop solution

Capability

Information Exchange Gateway

Viking 05 Portal SHIFT HarmonieWeb

CFC/CMO

Method to disseminate relevant NATO Information to established civilian web portals (UN, ICRC)

Unmanaged Information Sharing web portal for civilian and military actors to post and manage their own content

Information Sharing web portal supported by an IKM Organization to process and disseminate relevant information.

Organizations

CFC/CMO

CMO Server

Internet

Processed Information

- **Situational Awareness**
- **Information Sharing**
- **De-confliction**

Potential CMO Users

Local Government
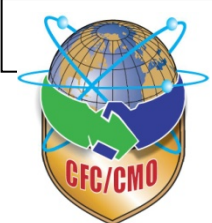
CIMIC GROUP SOUTH

CSIS

CENTRE POUR LE MAINTIEN DE LA PAIX PEARSON PEACEKEEPING CENTRE

IOM · OIM

GLOBAL IMPACT

NGOs

Civil-military Fusion Centre (CFC)

CFC Director
Mojca Pesec

CFC Deputy Director
Brandon Herl

CFC Chief KM
Tony Icayan

Fwd Element - HQ ISAF

FWD Civilian KM
Aleisha Arnusch

FWD Military KM
Michael Hallett

FWD Military KM
Marco Fornasaris

Afghanistan Fusion KM
Dan Dail

Darfur(Sudan) Fusion KM
Laurent Zazzera

Geneva

Economic Stabilisation KM
George Yongo

Humanitarian Assistance KM
James Collins
GLOBAL IMPACT

Infrastructure & Social Well-being KM
Diego Osorio

Security KM
Gerardo Secco
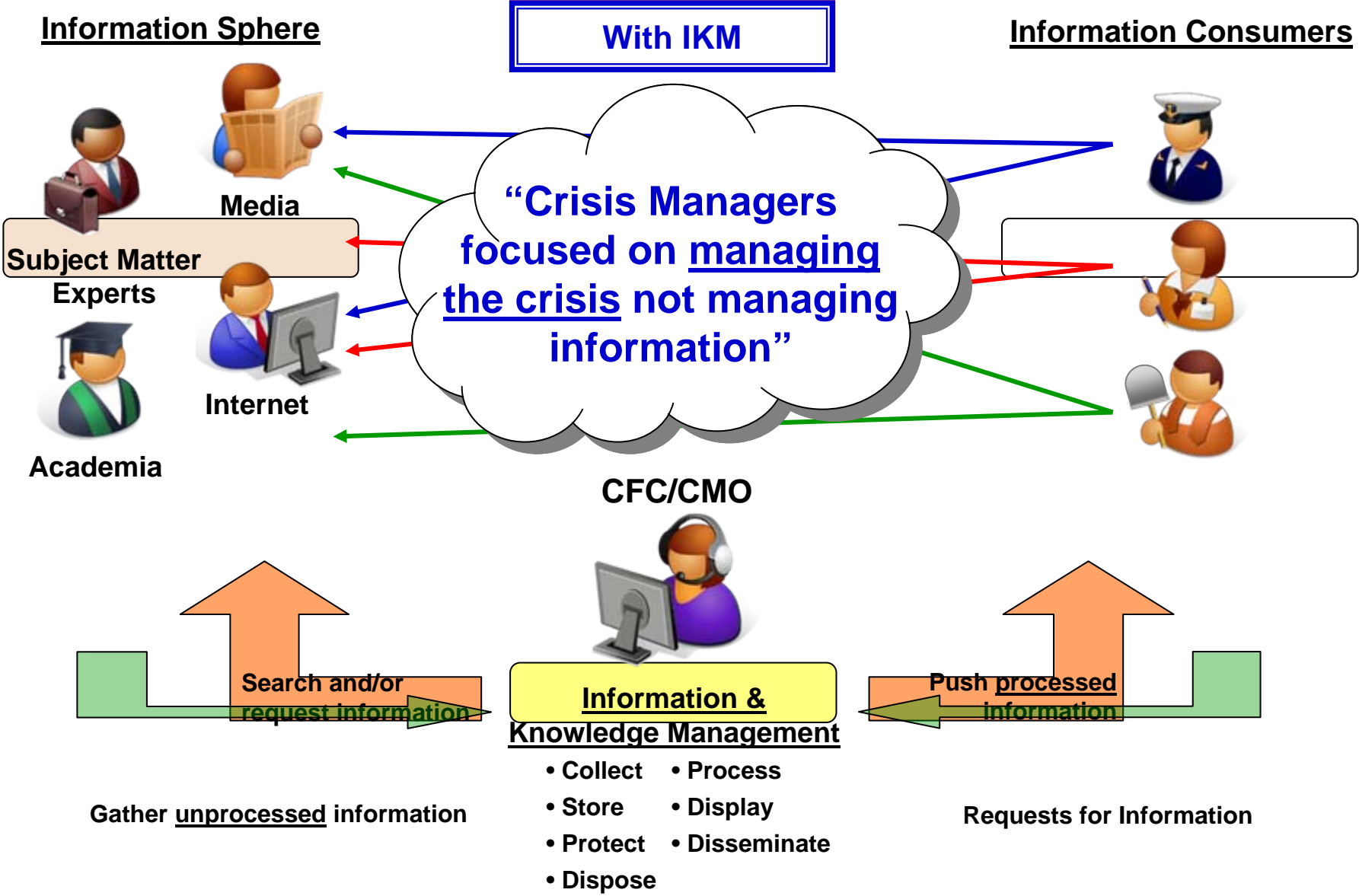
Governance & Participation KM
Jonathan Hadaway

Justice & Reconciliation KM
Jasteena Dhillon

CFC-CMO: Benefits of IKM

Information Sphere

With IKM

Information Consumers

Media

Subject Matter

Experts

Academia

Internet

"Crisis Managers focused on managing the crisis not managing information"

CFC/CMO

Search and/or request information

Information & Knowledge Management

- Collect
- Store
- Protect
- Dispose
- Process
- Display
- Disseminate

Push processed information

Gather unprocessed information

Requests for Information

Pulled vs. Pushed Information

"Push" – User selected RSS feeds and CFC Reports e-mailed to relevant users.

- Less interactive; Automatic feed – info sent directly to users
- Less selected information
- No discovery of new information
- Limited view
- No time spent looking for information

CFC/CMO

Information
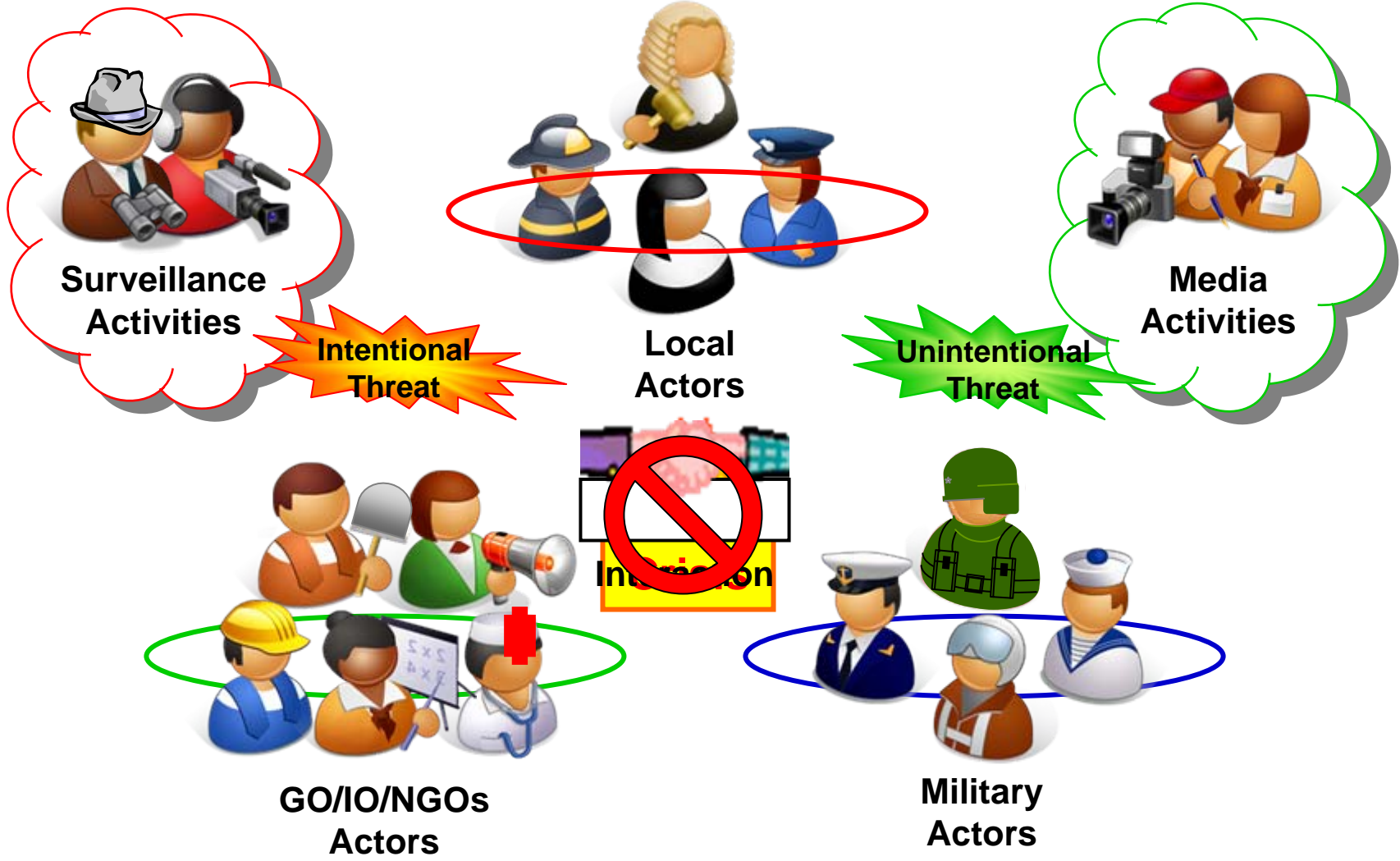
User

Information

"Pull" – Users navigation through CMO portal and communicate with CFC Knowledge Managers.

- More interactive; User decides when and where
- More selected Information – only get what you want
- More detailed information
- Holistic view – venue for discovery of new information
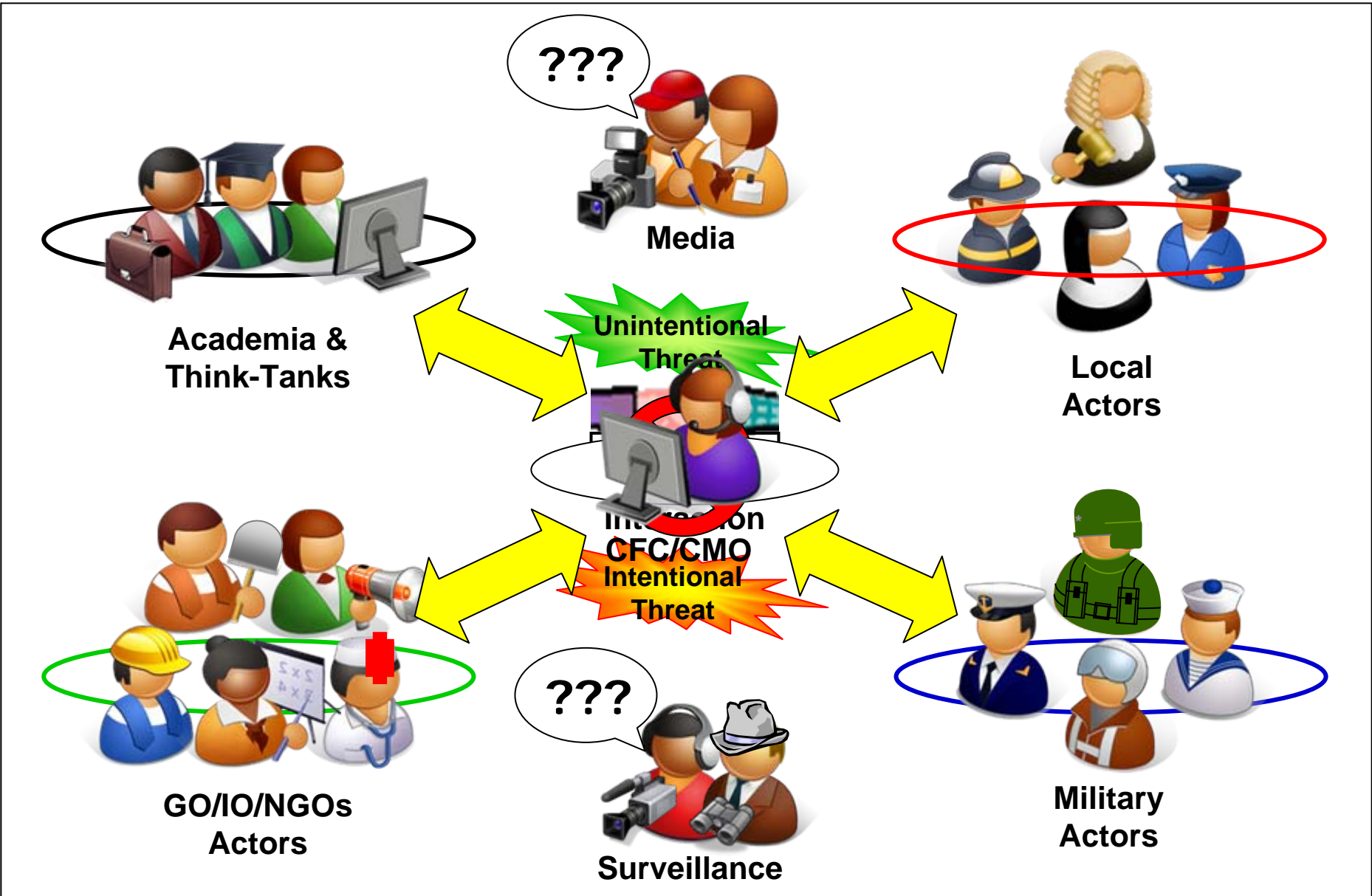- Need time to navigate portal and/or interact with KMs

Engagement Space

Surveillance Activities

Local Actors

Media Activities

Intentional Threat

Unintentional Threat

Interaction
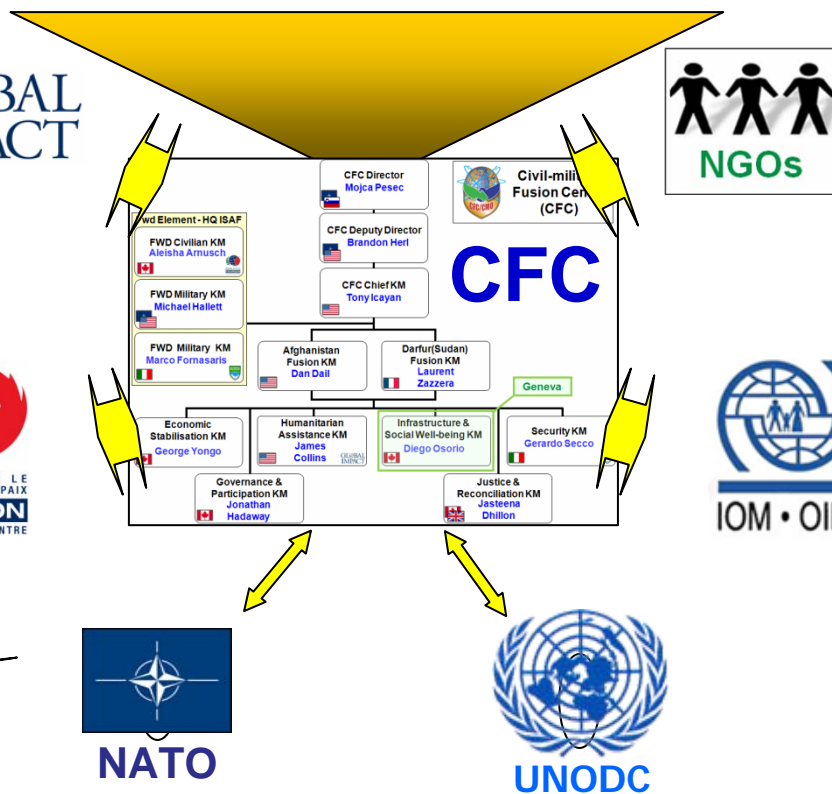
GO/IO/NGOs Actors
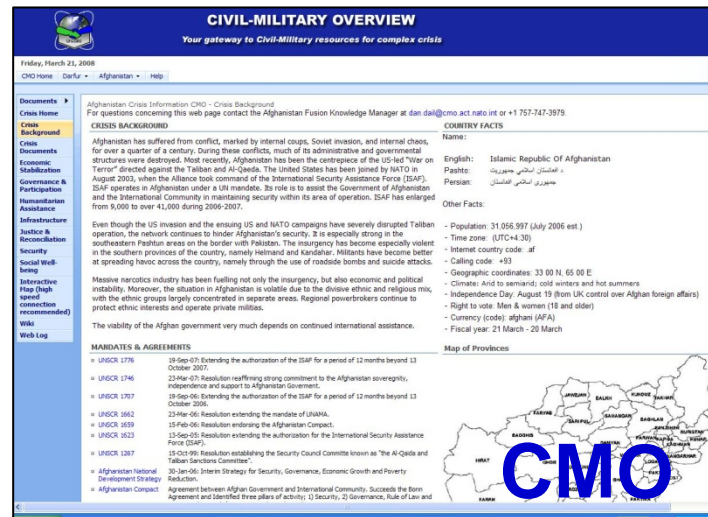
Military Actors

CMO Consortium

Reason:

- NATO <u>controlled</u> tool would not generally be acceptable to civil actors.

Members would:

- Collaboratively Fund the CFC/CMO and provide Knowledge Managers

- Enhance Information Sharing through expanded Social Networks

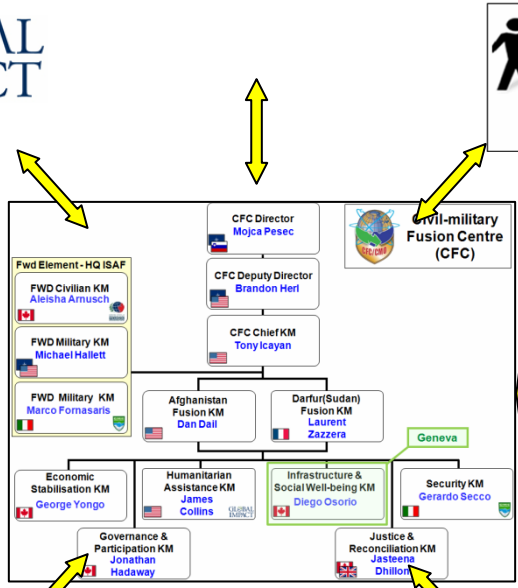- <u>Reachback</u> capability to their organisational assets

Examples of <u>potential</u> consortium members
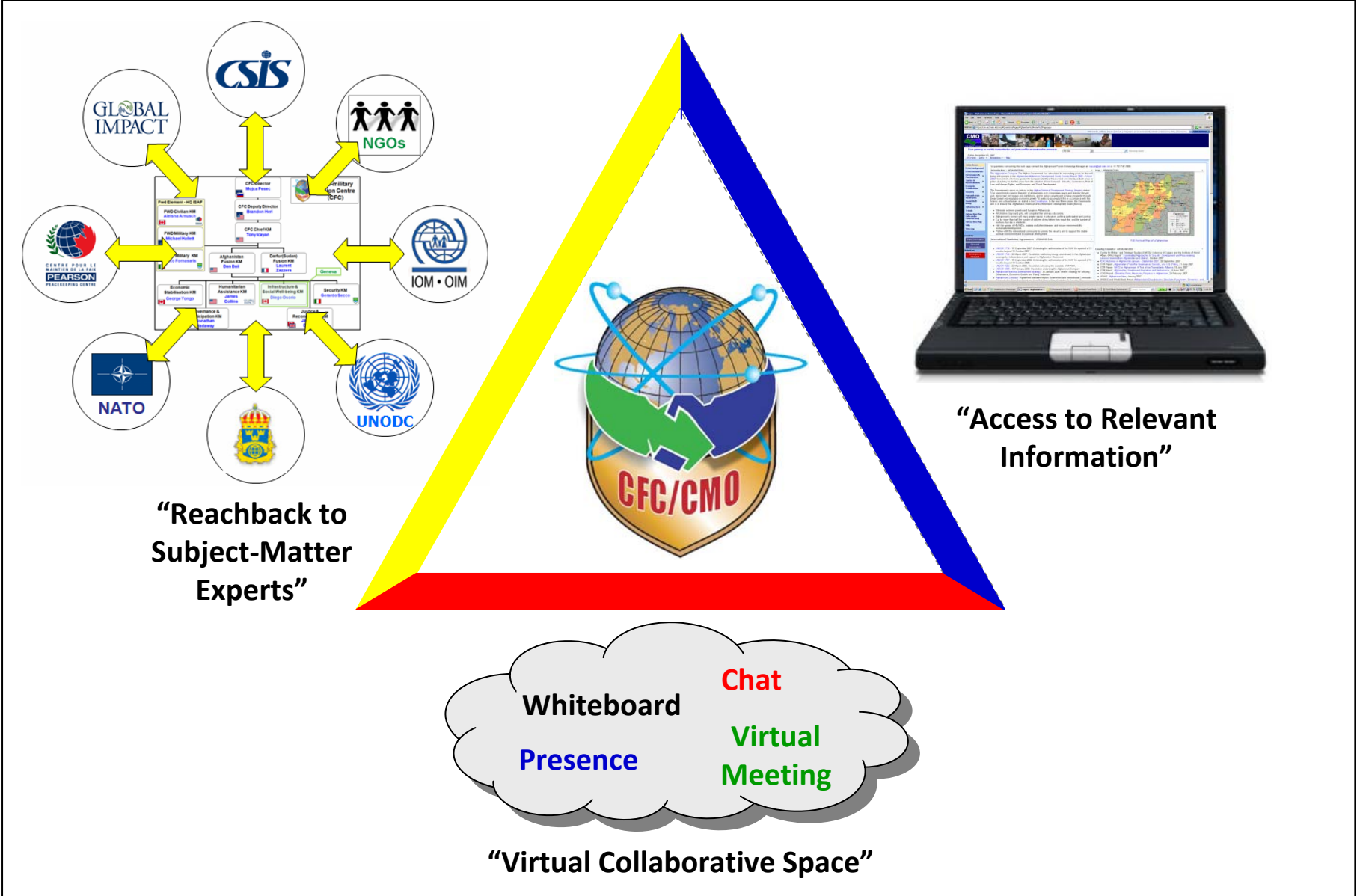
CMO Consortium - Reachback

Reach-back to partners and contacts

CSIS

GLOBAL IMPACT

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Foreign Affairs Canada

Carleton UNIVERSITY

CENTRE POUR LE MAINTIEN DE LA PAIX
PEARSON PEACEKEEPING CENTRE

NATO

UNODC

Examples of potential consortium members

CFC/CMO Capability Pillars

"Reachback to Subject-Matter Experts"

"Access to Relevant Information"

"Virtual Collaborative Space"

Whiteboard
Chat
Presence
Virtual Meeting

CFC/CMO Development Challenges

- Sharing of <u>unclassified</u> information from military domain

- Fears of encroachment on organizational turf from both military and civilian actors

- NGO fears of association with or co-option by military

- Lack of adequate collaboration and geospatial and tools on CMO

- Consortium partners

Questions?