



Network Centric Operations Industry Consortium



# **The Cooperation between NCOIC and NATO and the Agency**

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## **About NCOIC**

## **About NATO and NCOIC**

## **About NCI Agency and NCOIC**

## **About the global integration with NATO**

## **Summary**

- Global organization focused on industry neutral concepts for NCO adoption and interoperability
- 9-year legacy of addressing global cross-domain interoperability issues and concepts
- Lexicon, tools, processes and resources for building interoperable systems across multiple marketplaces
- 55+ members and affiliates representing 12 countries



## Many **NCOIC Members** are Global Leaders:

**Academic institutions**

**Air Traffic Management providers**

**Defense suppliers**

**Government agencies**

**Human service agencies**

**IT firms**

**Non-Governmental Agencies**

**Service providers**

**Standards Bodies**

**System Integrators**





## Samples of Contractual Frameworks

- **NATO** [NHQC3S, ACT, ACO\*, NCI Agency, NIAG]
- **Federal Aviation Agency [FAA]**
- **National Geospatial-Intelligence Agency [NGA]**



\* in preparation by NCOIC



- **Global Advisory Council**

- Senior customers provide insight about global procurement trends in their countries
- Advisors also share views about interoperability issues and specific needs related to their own unique CONOPS
- Members are luminaries in the cross-domain interoperability environment

- **Legal Environment**

- Enables and encourages government and industry to work together
- Provides a framework for government and member collaboration

- **Contractual Framework**

- Work directly with customers on concepts and demonstrations
- Unique tool for government customers to engage concepts that cross industries

- **Member Activities**

- Processes/frameworks---jointly developed with customers and provide benefits of reducing engineering integration costs and decreasing time to market.



## **NCOIC Business Principles**

**NCOIC** is a not-for-profit organization

**NCOIC** does not compete with industry

**NCOIC produces recommendations,**  
often turning into requirements,  
as designed by the customer

**NCOIC** does not interfere with projects under bid





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# NCOIC Advisory Council

***Ensures Focus on Customer Interoperability Needs  
(Joint, Interagency, Civilian, Governmental, and Defence)***

***The Advisory Council Members from NATO are...***

- \* Allied Command Operations***
- \* Allied Command Transformation***
- \* NATO HQC3Staff***
- \* NCI Agency***



Working through the Advisory Council resulted in a STUDY...

**LETTER OF AGREEMENT (LOA-13523-IT)**

between

**NATO COMMUNICATIONS & INFORMATION AGENCY  
(NCI Agency) on behalf of the**

**NATO COMMUNICATIONS & INFORMATION ORGANIZATION (NCIO)**

and

**NETWORK CENTRIC OPERATIONS INDUSTRY CONSORTIUM (NCOIC™)**

## ...to bring NATO into a single enterprise ICT structure

The purpose of this Agreement between the NCI AGENCY and Network Centric Operations Industry Consortium (NCOIC™) is to outline the roles, responsibilities, contributions and system engineering and architecture support to be performed in taking a holistic view, **with the aim of bringing all NATO into a single enterprise Information and Communications Technology (ICT) structure.**

There is believed to be considerable savings possible if the situation can be consolidated and rationalized, and a degree of homogeneity brought to the infrastructure and application spaces, as well as to the service management and control domain.

# Projects\* coordinated through the Advisory Council and NCOIC BoD

## **AMN**

Afghanistan Mission Network

## **Cloud Computing**

## **Cyber Security**

## **DNBL**

Distributed Network Battle Labs

## **FMN**

Federated Mission Networking

## **Healthcare**

## **ISR**

Intelligence, Search & Rescue

## **ICT**

NATO Information and Communications Technology

## **Formal Messaging**

Interoperability aspects

## **NISP**

NATO Interoperability Standards and Profiles

## **NNEC**

NATO Network Enabled Capability

## **NRF**

NATO Response Forces

## **NRRC**

NCOIC Rapid Response Capability

## **Patterns**

NCOIC Patterns

## **SCOPE & NCAT**

Systems, Capabilities, Operations Programs, Enterprises & the Network Centric Assessment Tool

\* projects are unclassified. non-competitive activities and may be under investigation, in preparation, active, on hold or completed

**About NCOIC**

**About NATO and NCOIC**

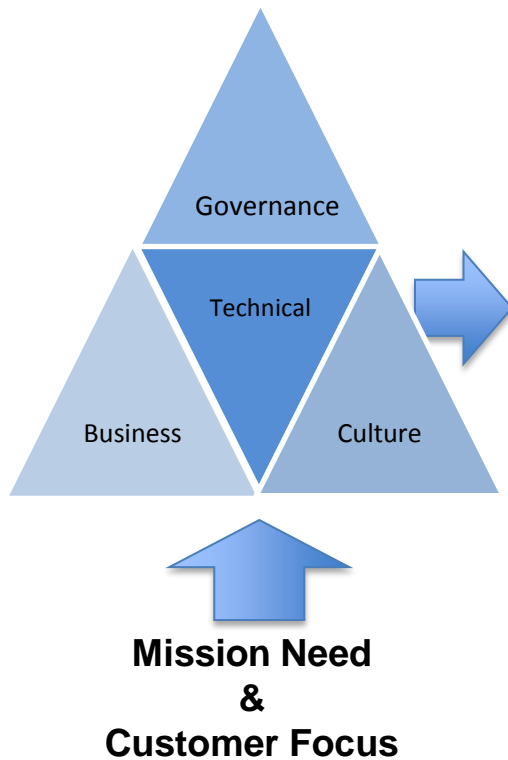
**About NCI Agency and NCOIC**

**About the global integration with NATO**

**Summary**

# NCOIC Process Model [as applied to the ICT study]

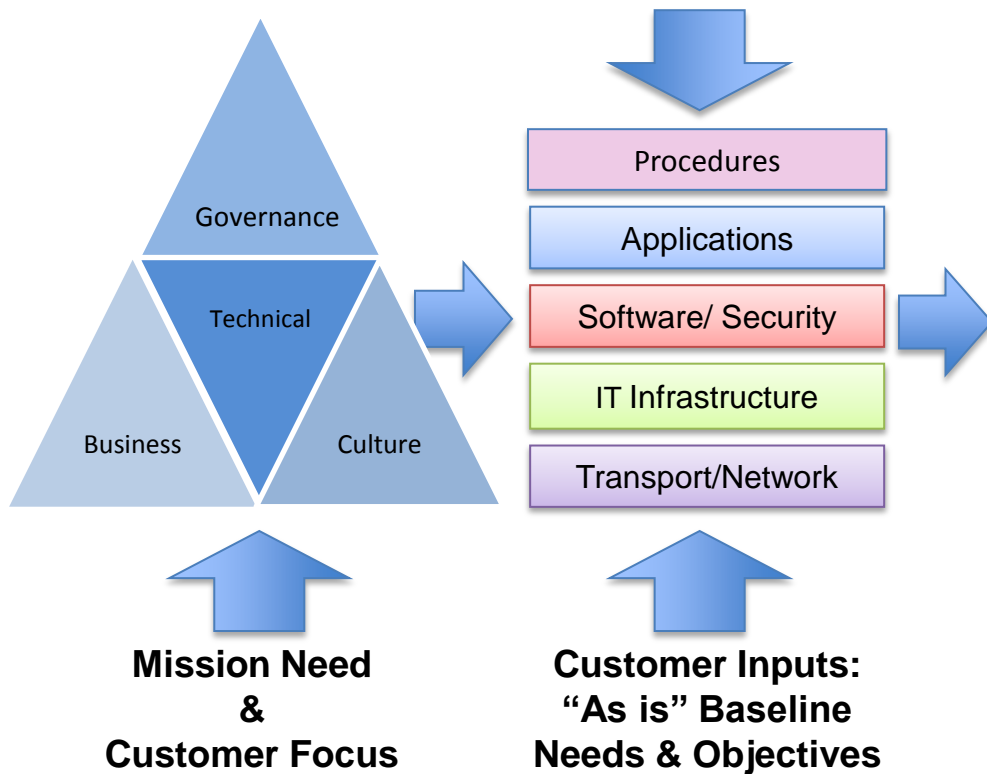
## SCOPE Assessment & Problem Definition



# NCOIC Process Model [as applied to the ICT study]

**SCOPE Assessment  
&  
Problem Definition**

**Industry insight  
of a  
“Perfect “ End-State**



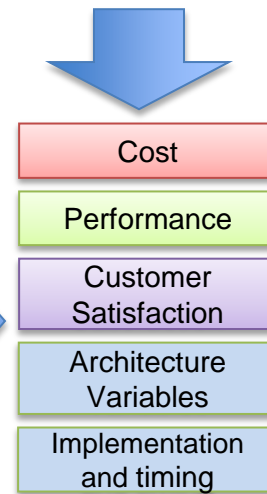
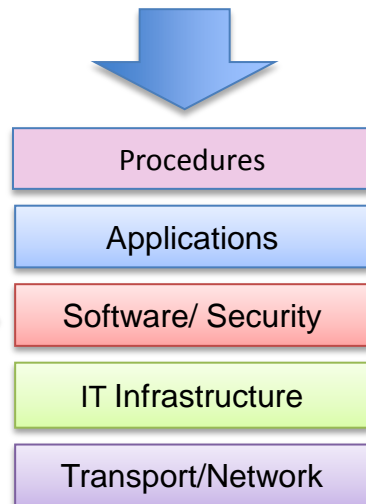
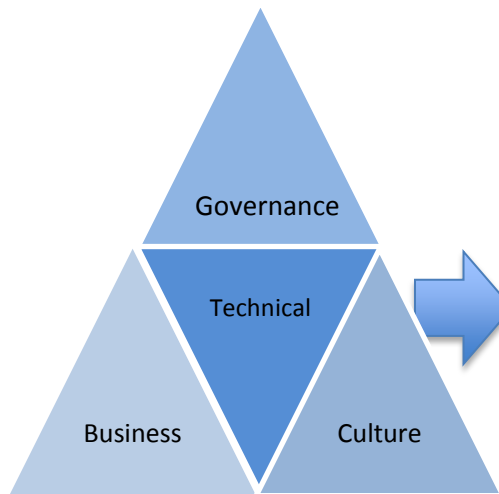


# NCOIC Process Model [as applied to the ICT study]

## SCOPE Assessment & Problem Definition

## Industry insight of a "Perfect" End-State

## Cross Industry Analysis Using



**Mission Need & Customer Focus**

**Customer Inputs: "As is" Baseline Needs & Objectives**

**Metrics & Variables**

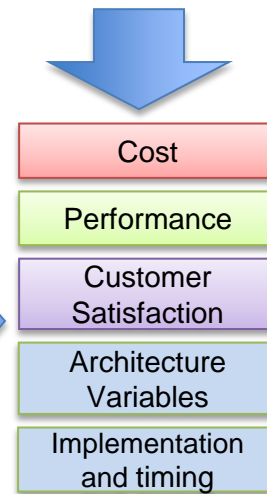
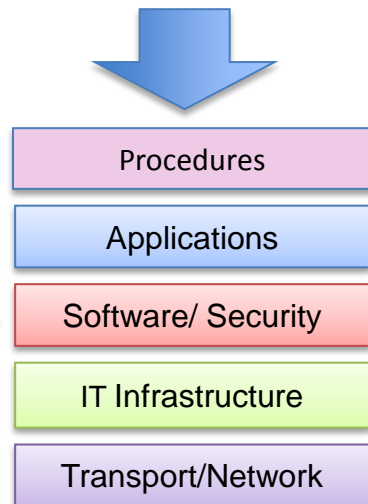
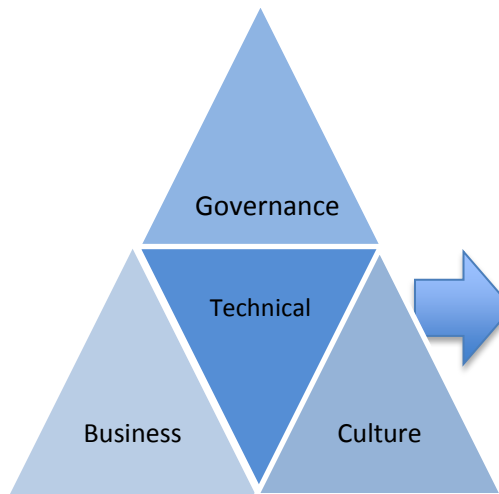
# NCOIC Process Model [as applied to the ICT study]

## SCOPE Assessment & Problem Definition

## Industry insight of a "Perfect" End-State

## Cross Industry Analysis Using

## Recommended "To-Be" End-State



**Mission Need & Customer Focus**

**Customer Inputs: "As is" Baseline Needs & Objectives**

# NCOIC Process Model working with NCI Agency

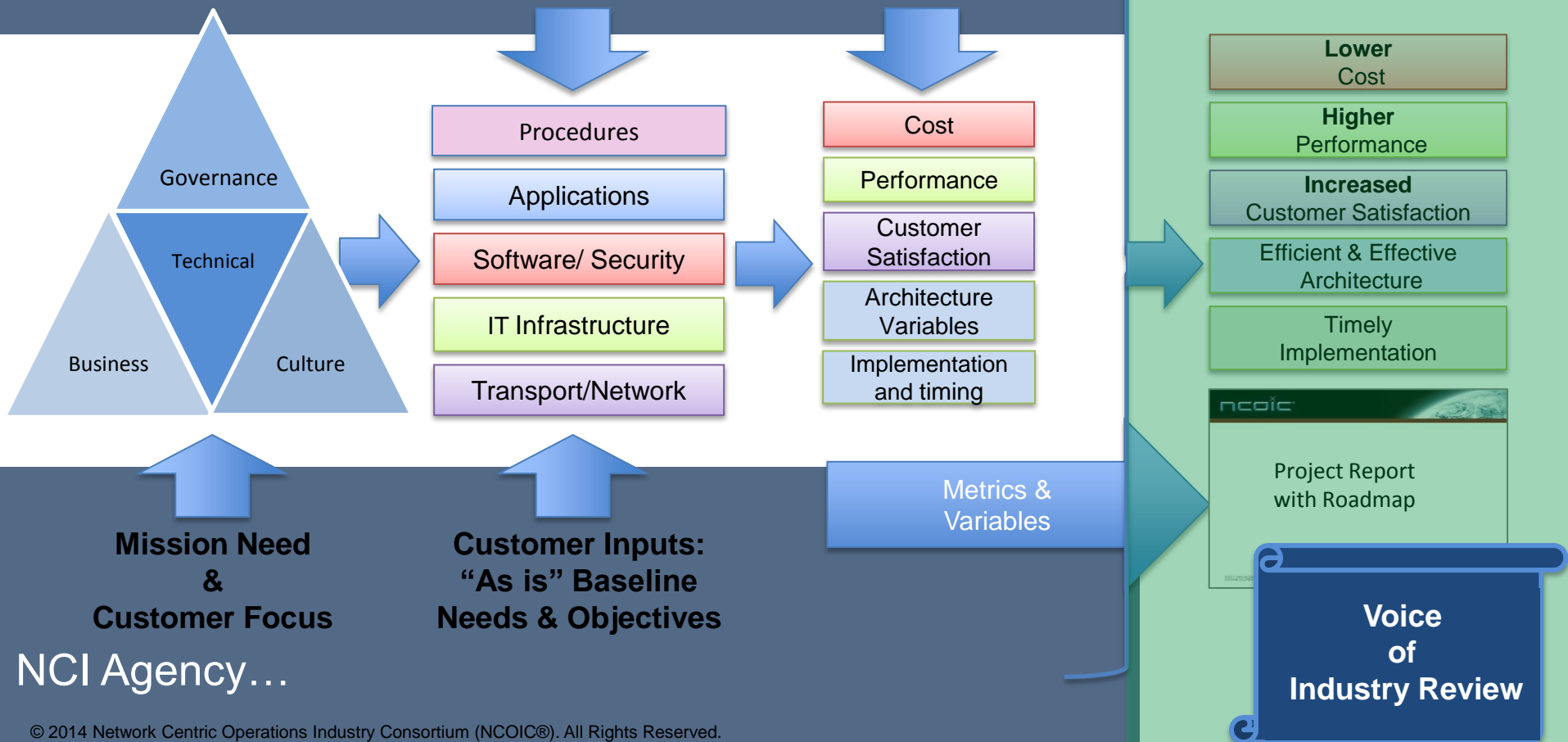
NCOIC....

**SCOPE Assessment & Problem Definition**

**Industry insight of a "Perfect" End-State**

**Cross Industry Analysis Using**

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**About NCOIC**

**About NATO and NCOIC**

**About NCI Agency and NCOIC**

**About the global integration with NATO**

**Summary**

# The “NGA\* Challenge” ...

The NGA needs to provide geospatial data to  
**”non traditional customers”.**

NGA is aligned to meet the needs of traditional customers,  
non traditional customers are served erratically:

- NGOs in a disaster environment
- **NATO operations**

**NGA requested NCOIC assistance.**

\*National Geospatial-Intelligence Agency

NCOIC was asked to consider **“how to ...”**

...leverage industry best practices

...protect digital geospatial data

...manage a bandwidth challenged environment

...ensure geospatial data consistency, interoperability  
and mobility

...**enable international collaboration**

...facilitate backward compatibility

# The Use Case...

...addresses the implementation of

- net-centricity
- cloud computing
- large scale integration of applications
- geographically dispersed
- from various industries
- **...and...product agnostic\***

\* products have to fit the mission, not the other way around...

# NCOIC Process Model working with NGA

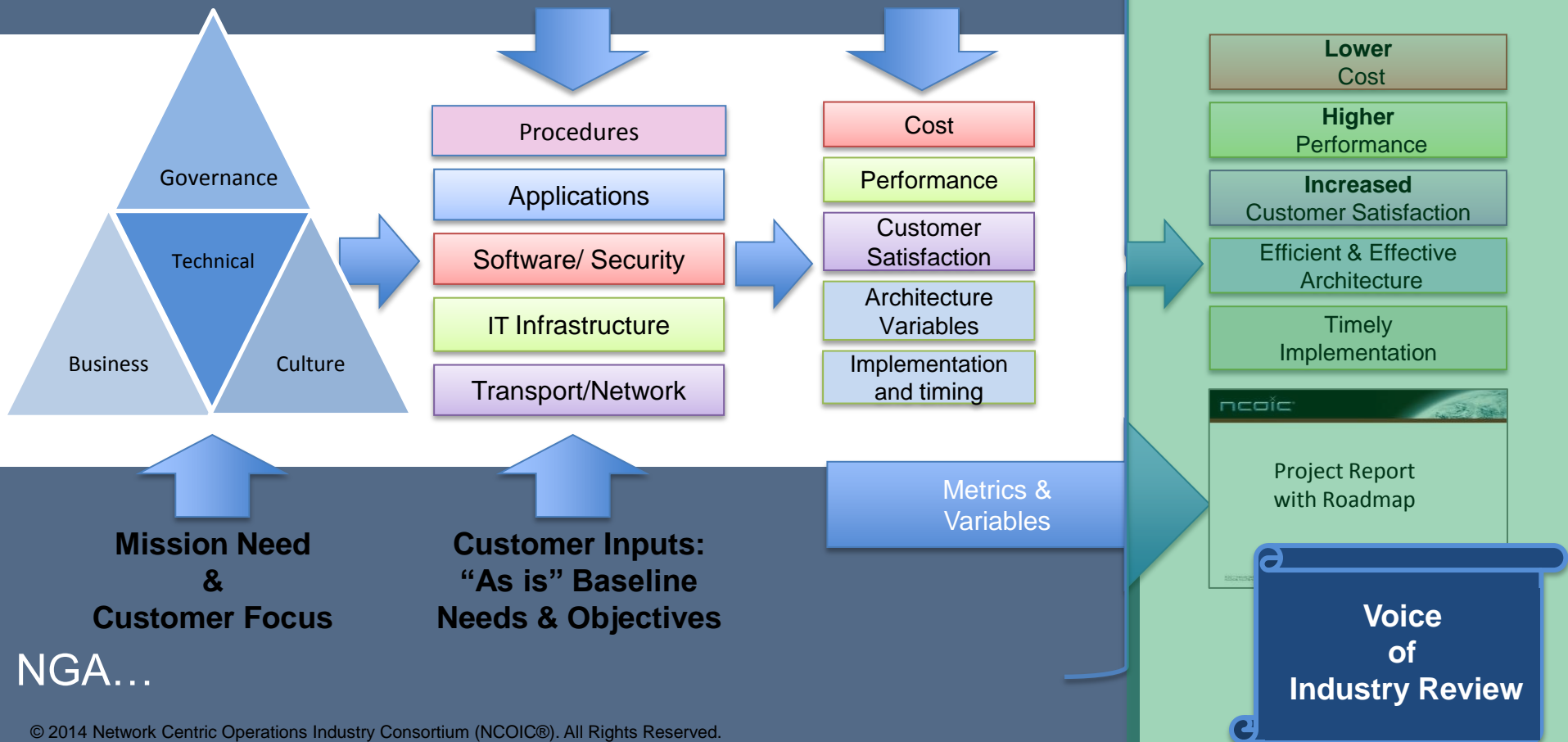
NCOIC....

**SCOPE Assessment & Problem Definition**

**Industry insight of a "Perfect" End-State**

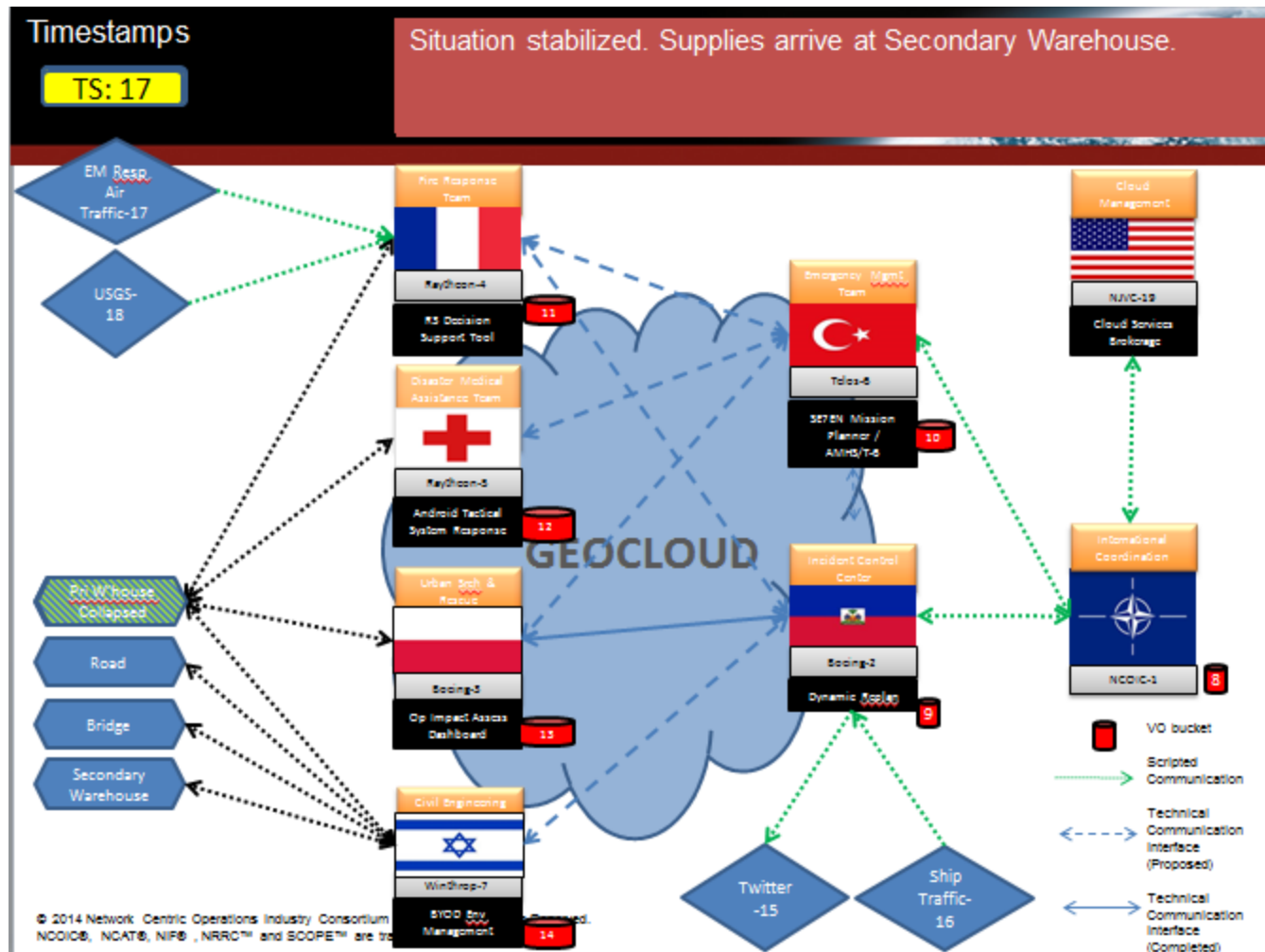
**Cross Industry Analysis Using**

**Recommended "To-Be" End-State**

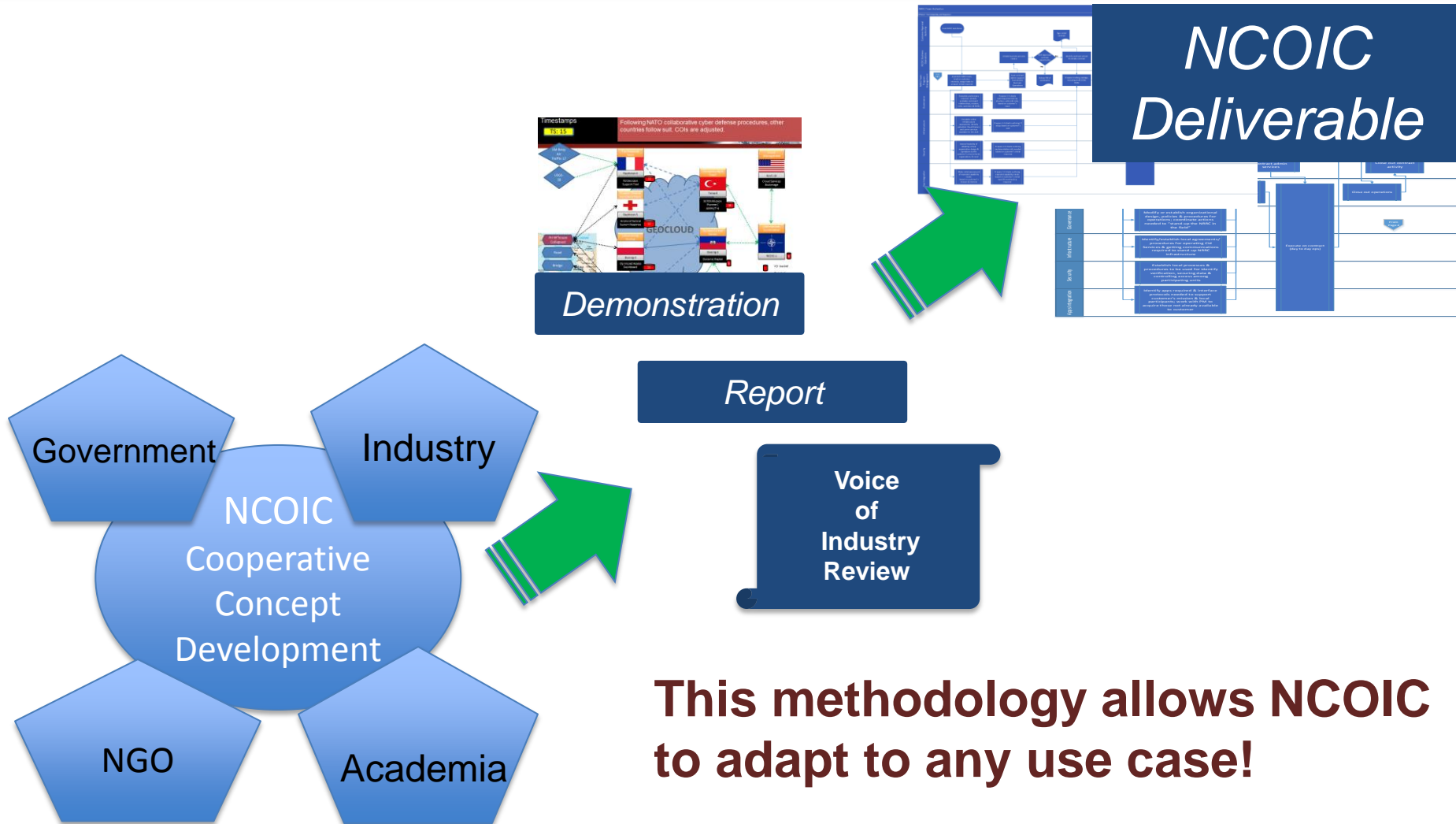




...resulting in a demo, how NATO would use NGA data in a Cloud..



# The Cooperative Concept Development



**This methodology allows NCOIC to adapt to any use case!**





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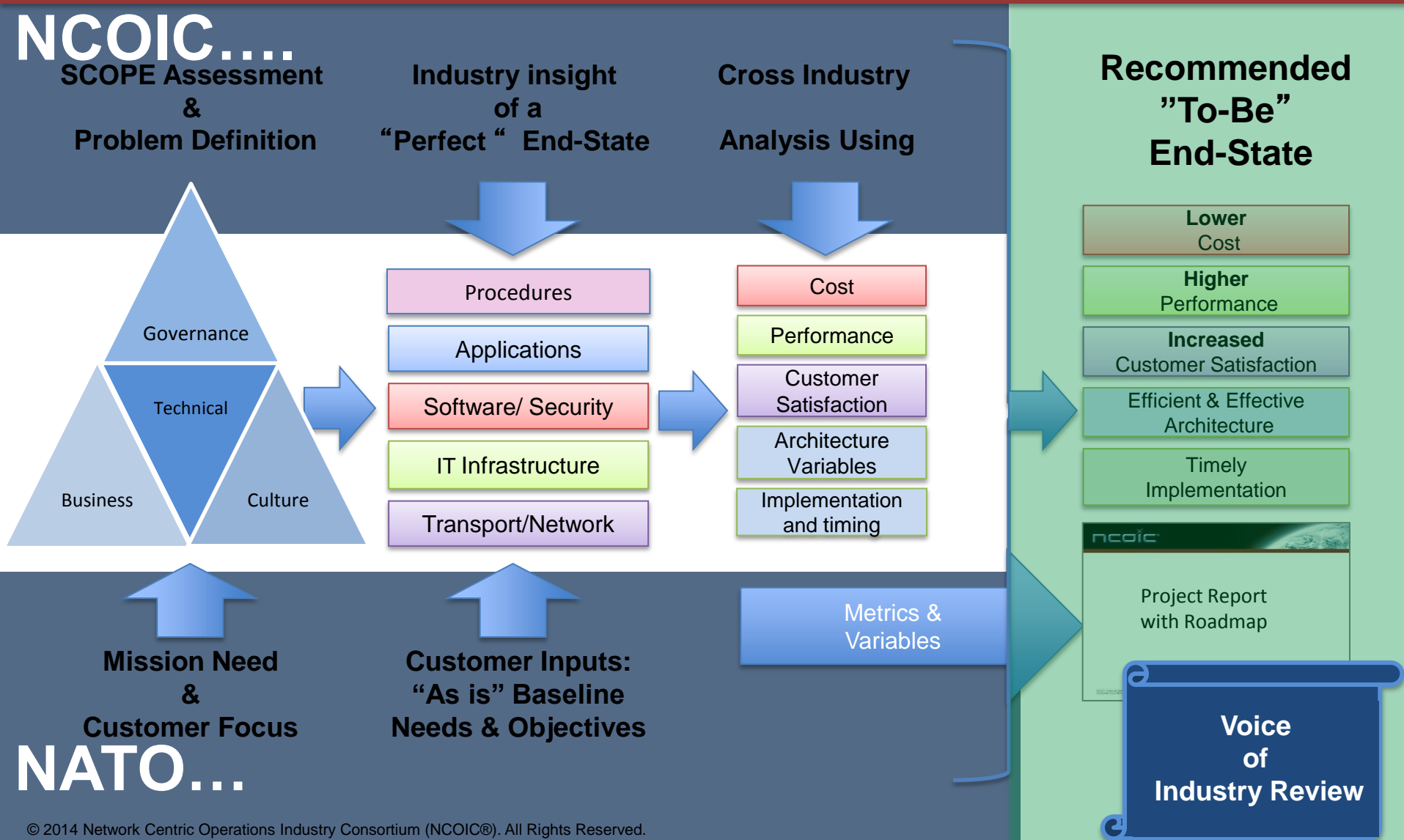
**About NATO and NCOIC**

**About NCI Agency and NCOIC**

**About the global integration**

**Summary**

# NCOIC Process Model is KEY in working with NATO



# Takeaway [NCOIC working with NATO]

- **The NCOIC member activity** allows us to build interoperable tools and patterns [inside NATO also known as profiles]
- **NCOIC contract activity** allows us to provides unique interoperable solutions [otherwise not found in industry or government]
- **All are open, all are non proprietary!**



Network Centric Operations Industry Consortium

**THANK YOU** for your attention!

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[www.ncoic.org](http://www.ncoic.org)