

# **NCOIC**

## **Rapid Response Capability (NRRC)**

Wil Regier  
NCOIC Business Development

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# NCOIC<sup>®</sup>...at a Glance

- Global organization focused on **industry neutral concepts** for NCO adoption and interoperability
- 10-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

## NCOIC's Advisory Council and its many external relationships ensure a focus on customer needs

Joint, Interagency, Civilian,  
Government and Defense



## Members are Global Leaders

Academic institutions

Air traffic management  
providers

Service providers  
Consulting, Engineering, Logistics

Defense suppliers  
All military services / Multinational

Government agencies  
Includes FFRDC and SETA

Non-government agencies  
International organizations

Human service agencies

System integrators  
Commercial systems, Defense systems

IT firms  
Communications, Data management,  
Human-Machine interface,  
Information assurance

Standards organizations

# The Challenge...



The National Geospatial-Intelligence Agency needs to provide Geospatial data to non-traditional customers.

NGA aligned to meet traditional customers; non-traditional customers erratically served:

- NGOs in a disaster environment

- NATO operations

Requested NCOIC assistance

# ...working with the National Geospatial-Intelligence Agency

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

- ...leverage industry best practices

- ...protect digital geospatial data

- ...manage a bandwidth challenged environment

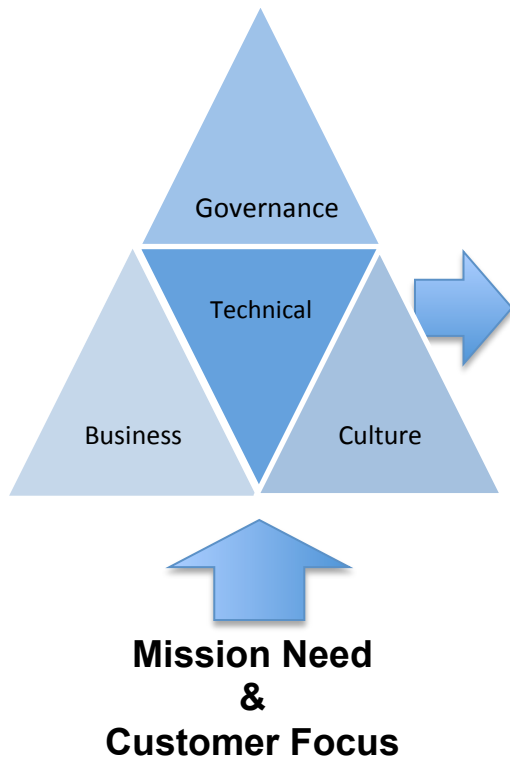
- ...ensure geospatial data consistency, interoperability and mobility

- ...enable international collaboration

- ...facilitate backward compatibility

# NCOIC Process Model

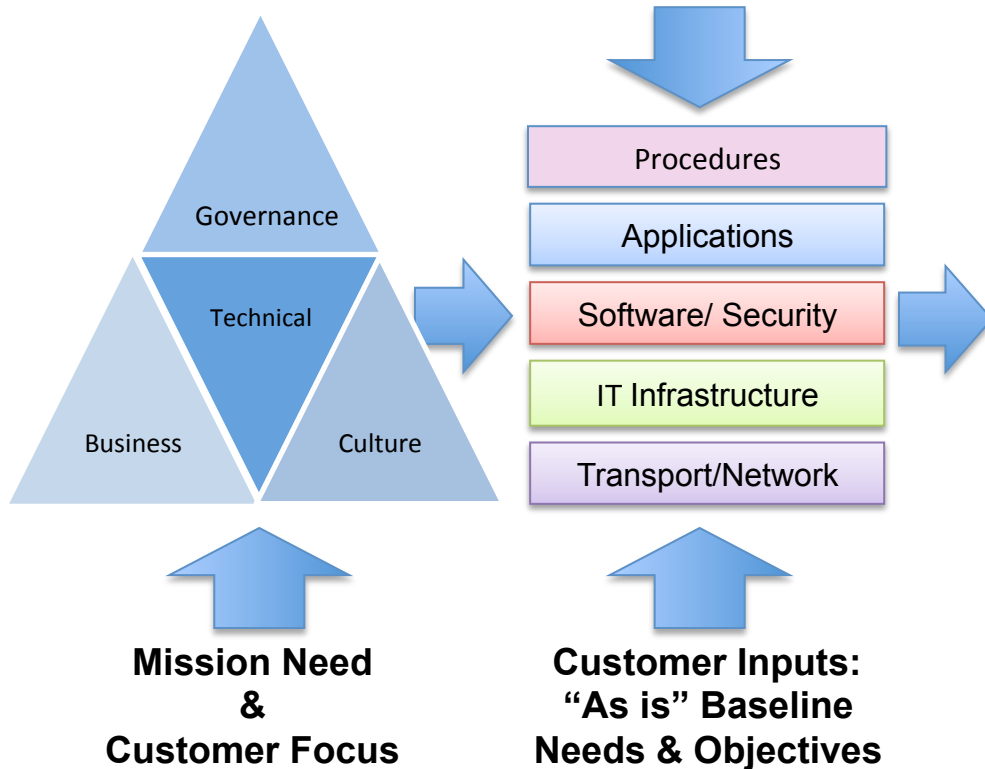
## SCOPE Assessment & Problem Definition



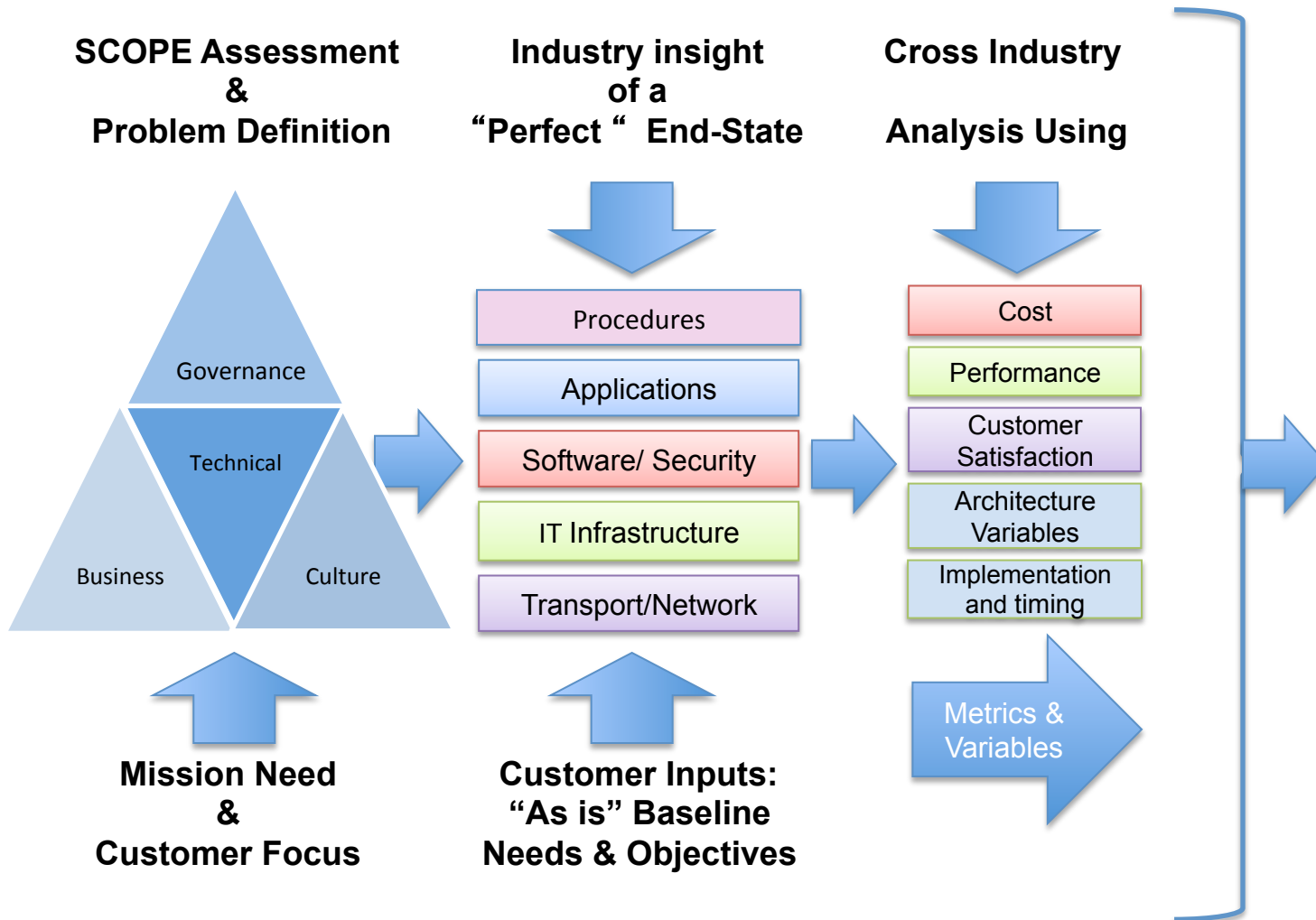
# NCOIC Process Model

**SCOPE Assessment  
&  
Problem Definition**

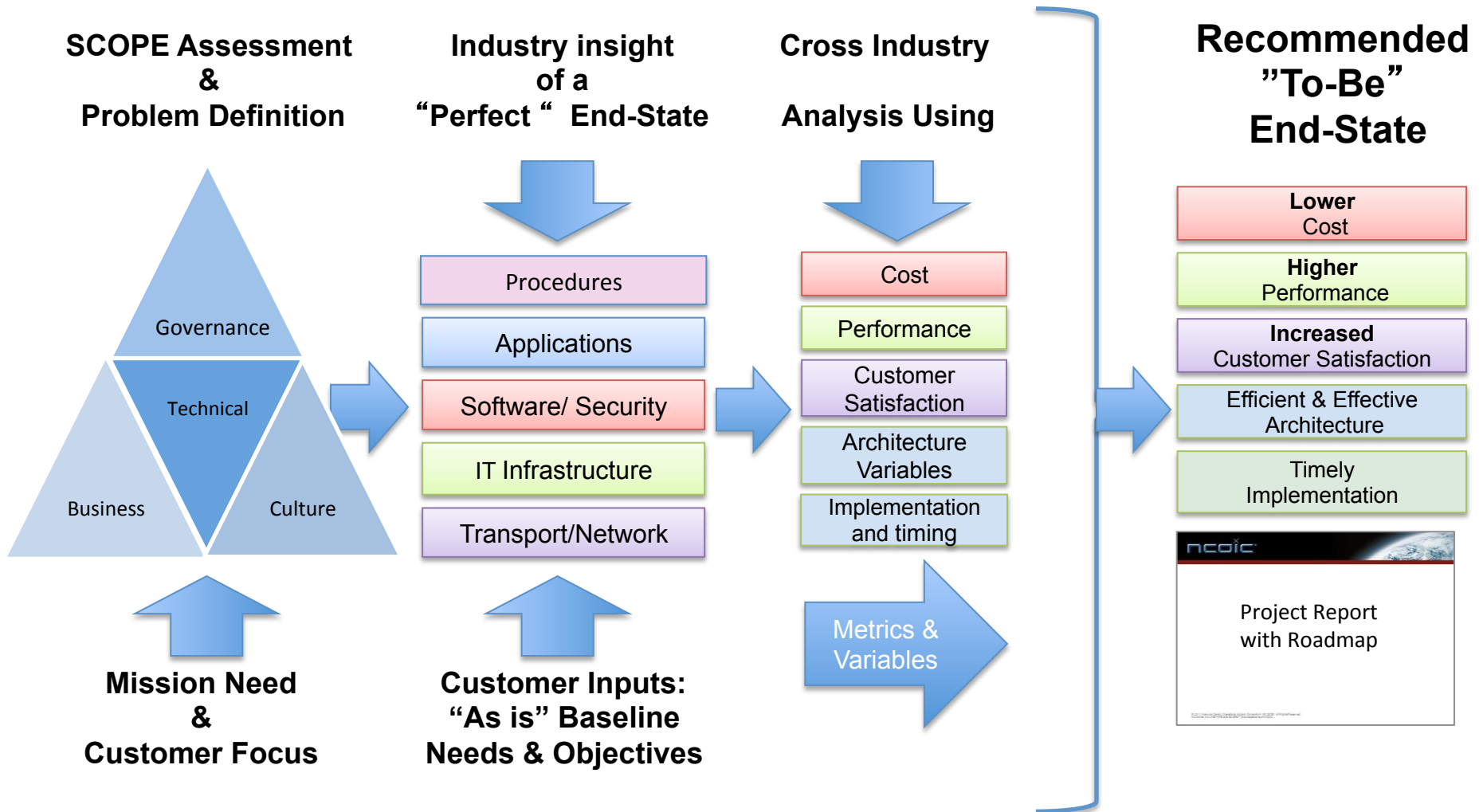
**Industry insight  
of a  
“Perfect “ End-State**



# NCOIC Process Model

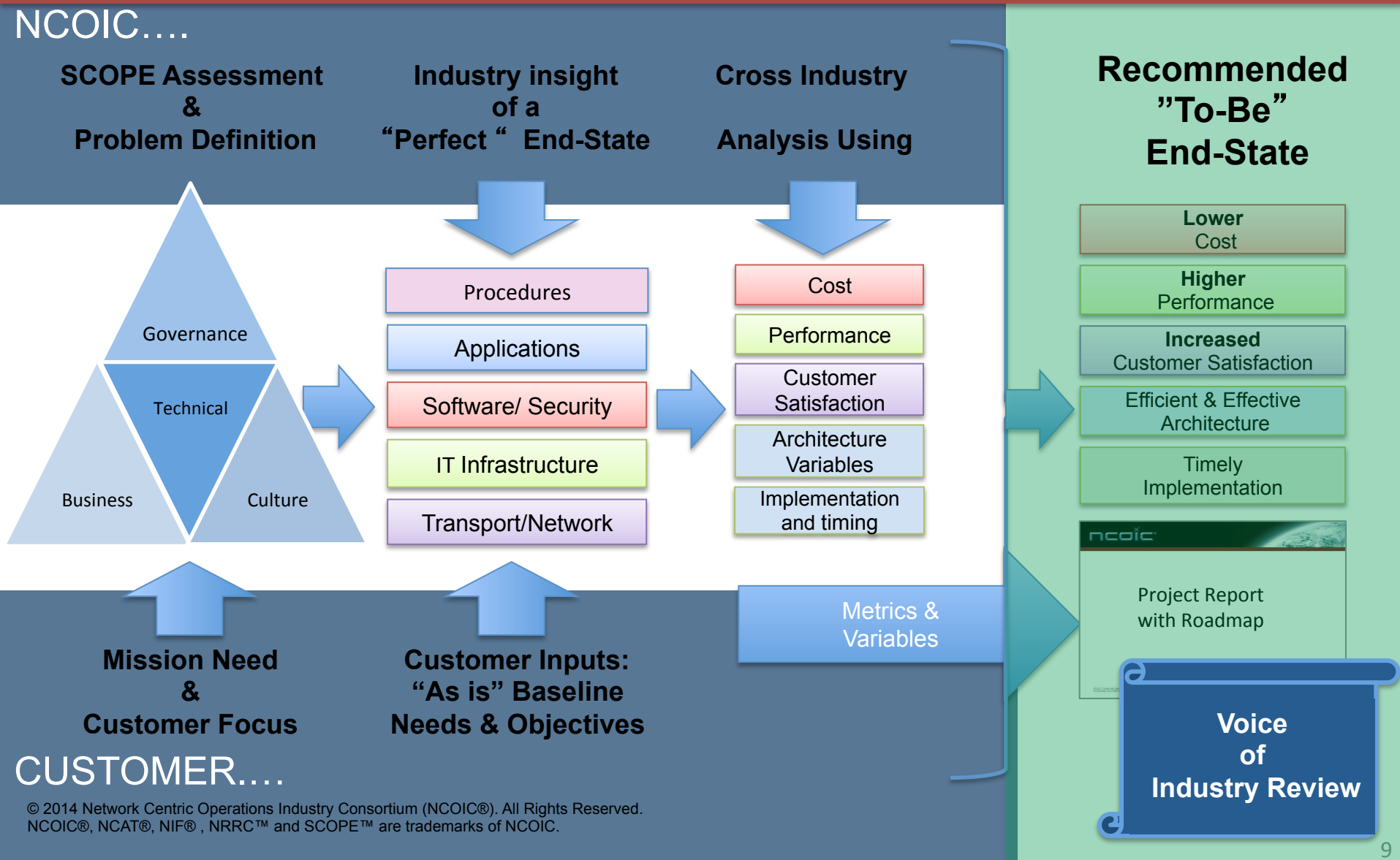


# NCOIC Process Model





# NCOIC Process Model



# The NGA Use Case Summary...



...addresses the implementation of

- net-centricity
- cloud computing
- large scale integration of applications
- geographically dispersed
- from various industries
- not product specific\*

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

# NCOIC Approach for NGA



- Create a demonstration & scenario that:
  - Is fast
  - Is Secure
  - Integrates all information providers and users
  - Enables different cultures policies and concepts
- Deliver Final Report that:
  - Highlights use of available technology
  - Identifies gaps
  - Provides 'how to' integrate multiple policies

Time stamps

# The Scenario

TS: 1

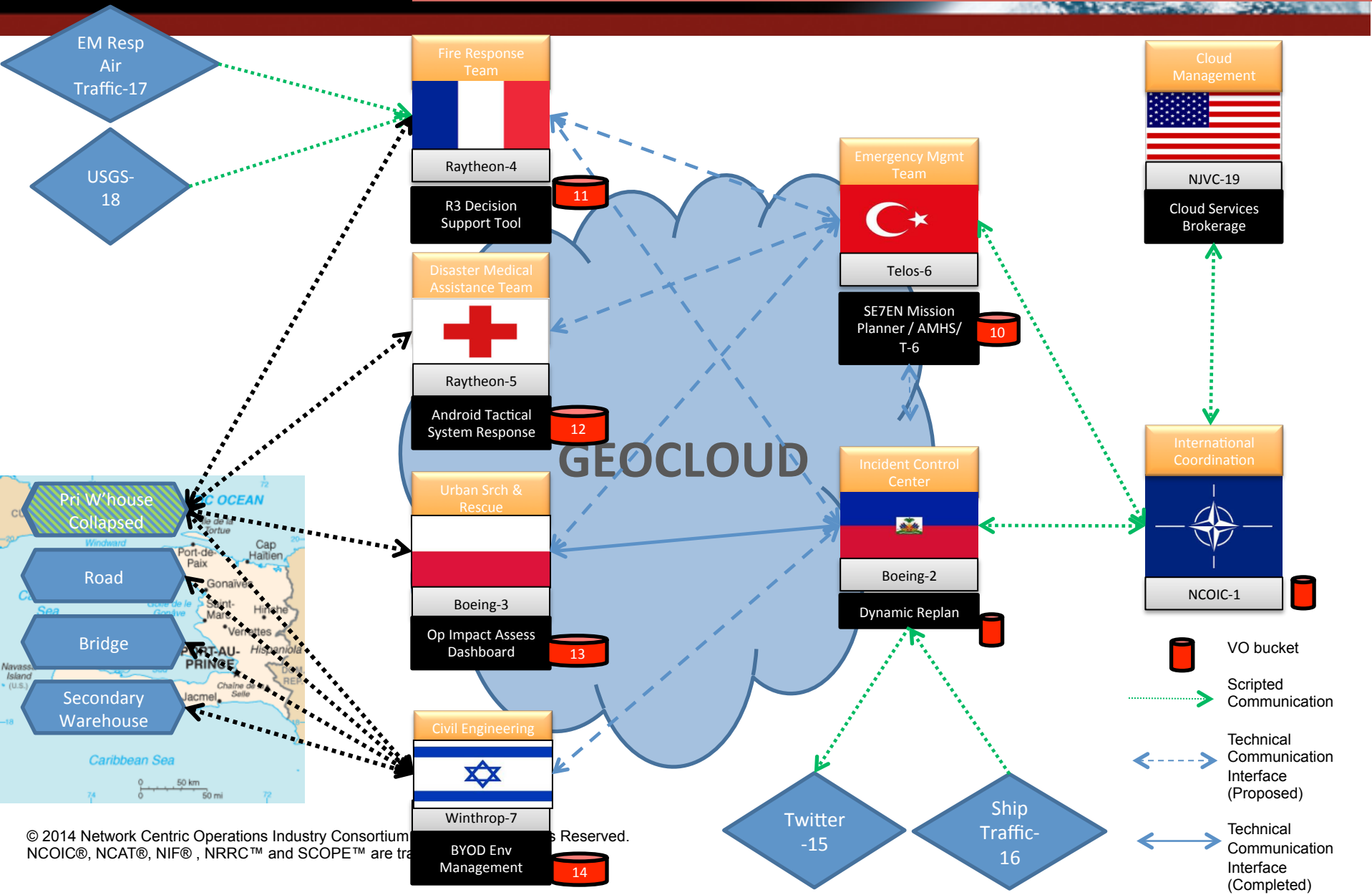
A major earthquake occurs in Haiti.



Time stamps

TS: 17

Situation stabilized. Supplies arrive at Secondary Warehouse.



# NGA GCC Concept Demo



Cloud Brokerage Services



Rapid Response Capability  
"As a service"



Contract oversight  
Communications  
Staff Support  
Contract Admin  
SOW & Cost Estimates



Program Management  
Operations, Schedule, Budget



- Virtual Operations
- Federated ID Sys



- Geoserver Pooling
- Cmd Dashboard Templates
- Tactical Re-Planner



- Msg Handling Svc;
- SE7EN Tactical Planning
- TSDAS



- Open Standards



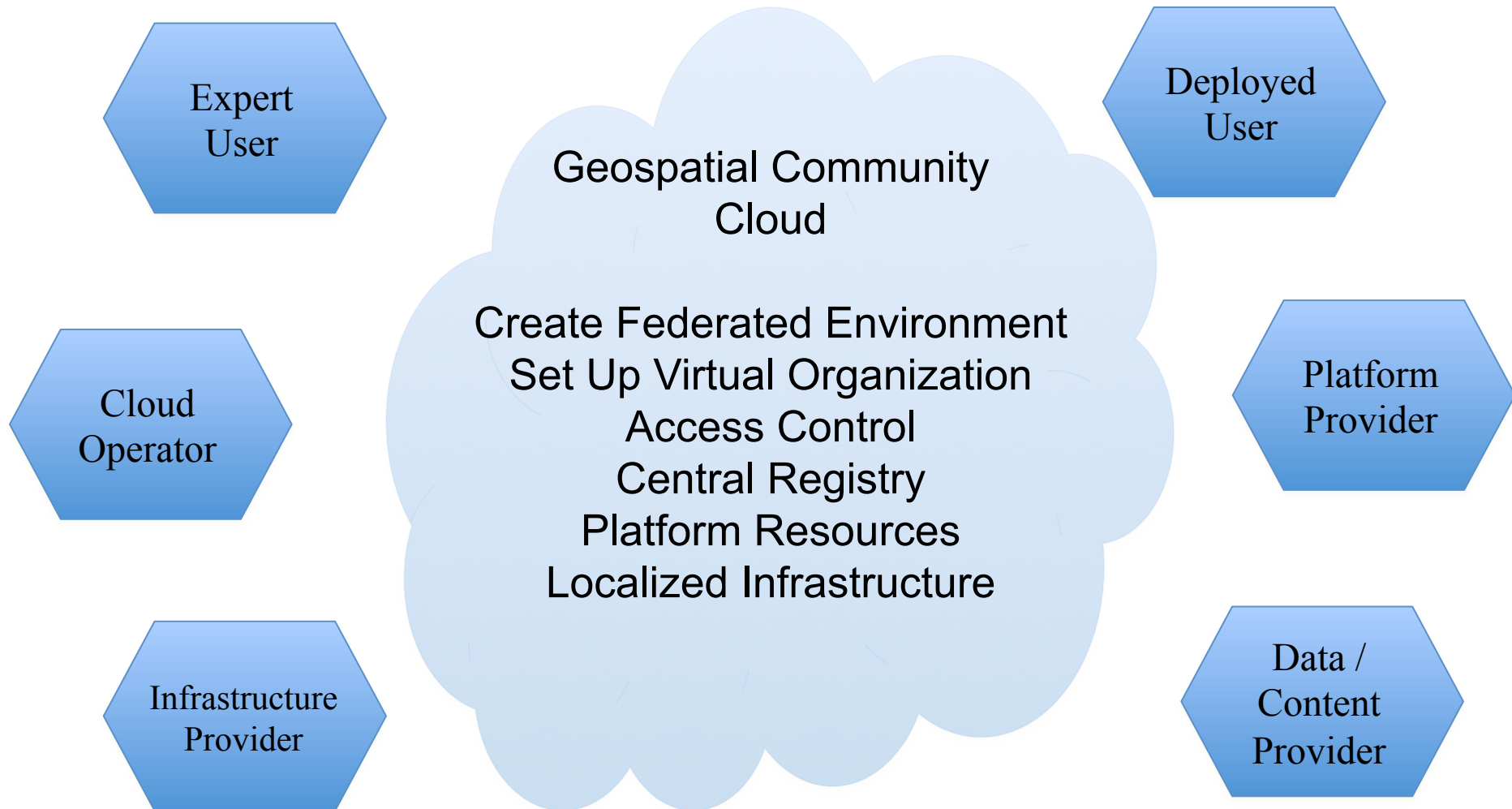
- Strategic R3 Planner
- Advance d Tactical System



- BYOD Special apps

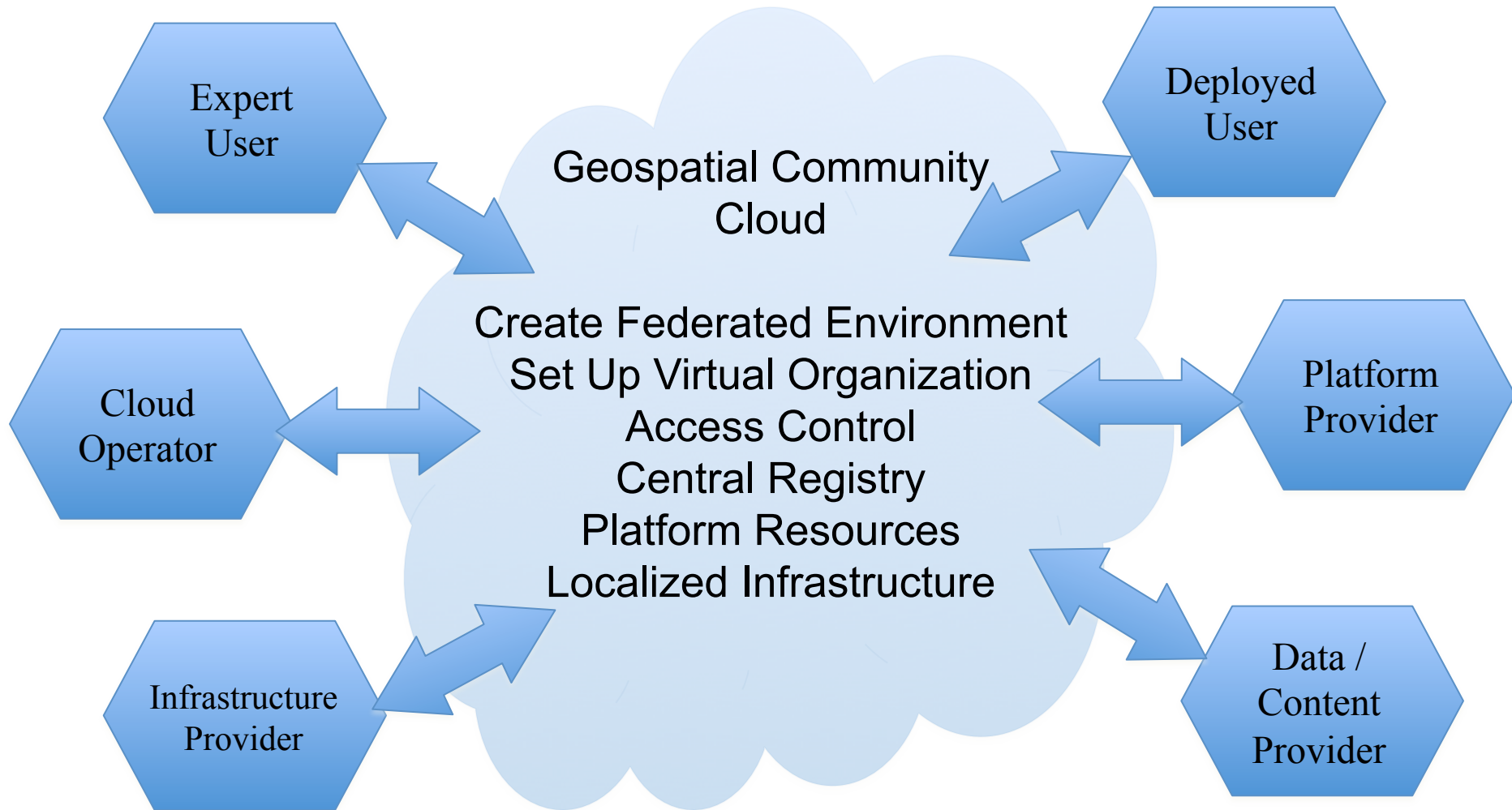
NCOIC provides Non-Advocate Perspective -- Focused on Cross-Domain Interoperability

# Cycle 1 developed the Cloud Infrastructure





# Cycle 2 plugged in the Applications and Data





# The NCOIC Rapid Response Capability (NRRC) is...

- ...an architecture and implementation process plan
- ...a process to rapidly stand up an infrastructure
- ...an enabler for Information Users and Providers to rapidly integrate information systems
- ...a methodology to secure, share and manage information exchange
  - between disparate entities
  - operating across multiple domains.

# NCOIC Rapid Response Capability

## NRRC process

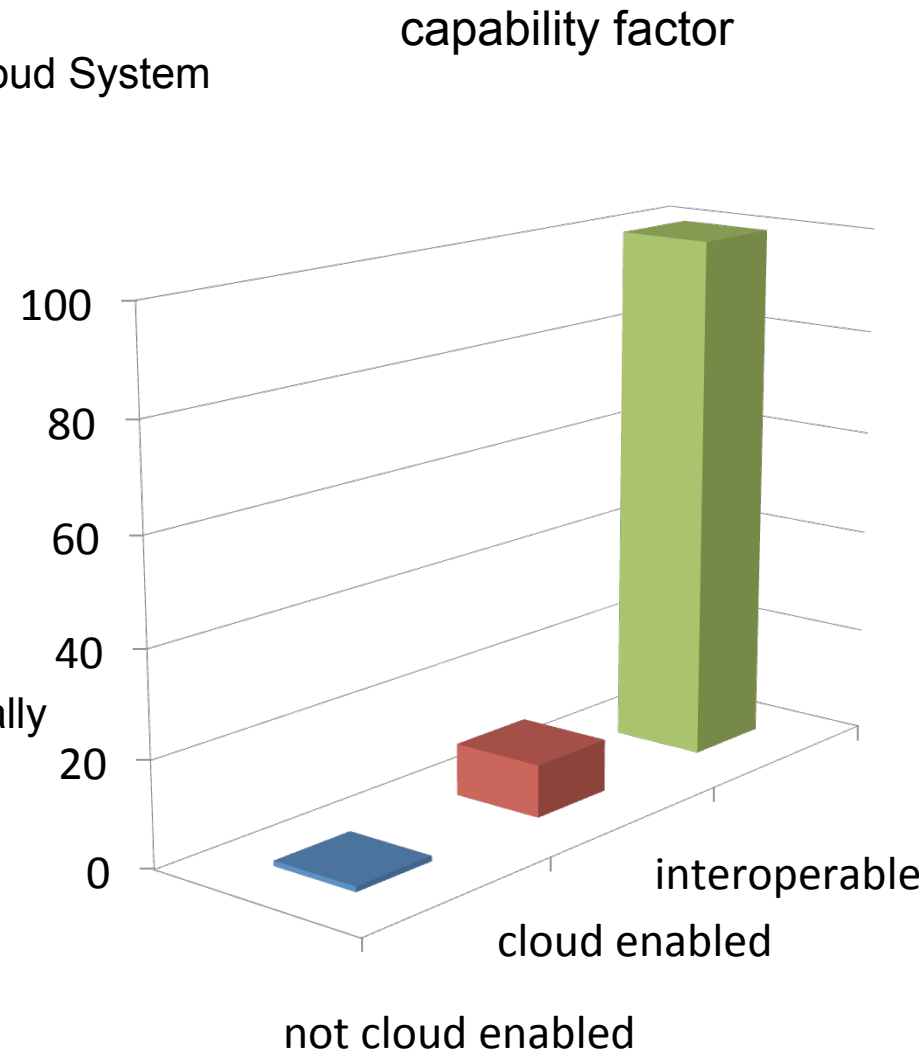
- Enables rapid development of a Federated Cloud System
- Plugs in App and Data providers
- Supports entire operations
- Caveats as desired

## The App Providers create capability

- If not cloud enabled, assume factor 1
- Cloud Enabled = 10
- Interoperable with other app providers = 100

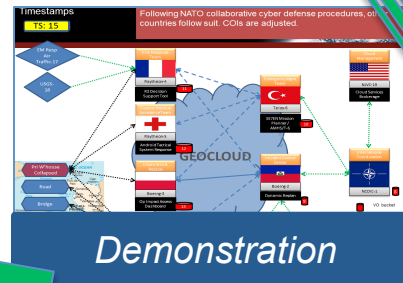
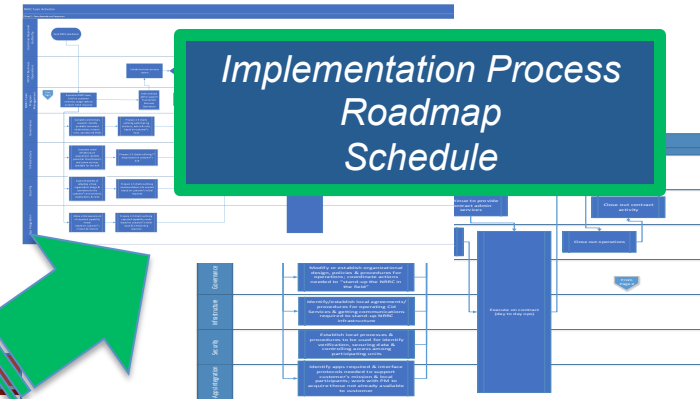
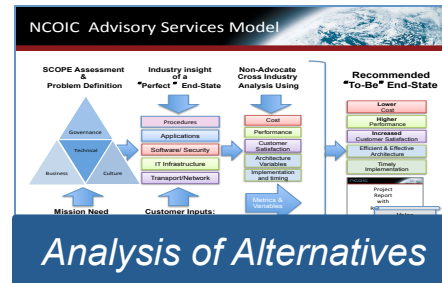
## Data Providers

- Enable cloud participants to access data globally
- Update data and increase data value



# Open Cooperative Development Environment

**Working Together  
With Industry Partners  
And Their Customers**



**Report**

**Voice  
of  
Industry Review**

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

# Summary



- The NCOIC member activity built interoperable tools and patterns
  - NRRC is available and now supports Rapid Response
- NCOIC contract activity provides unique interoperable solutions
  - solutions, not found in industry or government
- All are open, and all are non proprietary!



Network Centric Operations Industry Consortium

THANK YOU for your attention!  
[www.ncoic.org](http://www.ncoic.org)