



Big Data for Government Symposium

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(U) DIA TASK FORCE DATA

The CIO's Approach to Data Transformation & Governance

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17 JUNE 2014



One Mission. One Team. One Agency.
Committed to Excellence In Defense of the Nation

This briefing is unclassified



Data Changes the World

Increased availability of data fundamentally changes the nature of the world, and of intelligence

- Information drives action in all industries and parts of society
- Billions of sensors around the world
- Adversaries' actions are more detectable, earlier, and so are ours...

The “air gaps” from intelligence to action are disappearing

- Radical shifts in the definition of intelligence “products”
 - The evolution of “sensor fusion” towards predictive models
- Requires organizing data around a “pivot” (target, place, etc)
- Blurred lines between tasking, collection, processing, exploitation, and analysis



The Immediate Challenges

Defense Intelligence is facing significant challenges

- Data is **not discoverable** to all users that need it
- Data is **not organized** to be useful at an IC enterprise scale

DIA must have effective practices to manage data

- Requires infrastructure and policy to support current acquisition, processing, exploitation activities
- Involves integrating security and content tags
- Demands quality management standards; measuring value is key
- Entails repeatable data development and integration

Cultural shift from “silo” behavior to enterprise

- Silos compete for talent and capacity
- Enterprise level transparency is a must to align efforts and enforce data standards



“You can’t get to the moon by
climbing successively taller trees”

-Mo’s Law of Evolutionary Development



Task Force Data Background

Mission:

- Establish the requirement for an enduring capability to maximize DIA's relevance through effective data management and exploitation

Scope:

- Prioritize Mission Data v. Business Data
- Start at DIA HQ, then COCOMs
- Solutions to include Service Intel Centers

Drivers:

- Ensure compliance with law and policy
- Capitalize on modern technology
 - IC ITE and "the Cloud"
 - Analytic Modernization
 - Object Based Production
- Minimize risk of insider threat
- Maximize financial efficiency and effectiveness of IT capability

Approach:

- Expose Expert Practices
- Document Process
- Converge on Best Practices
- Recommend Enterprise Strategy and implementation
- Establish Enterprise Data Governance framework



Task Force Data Governance

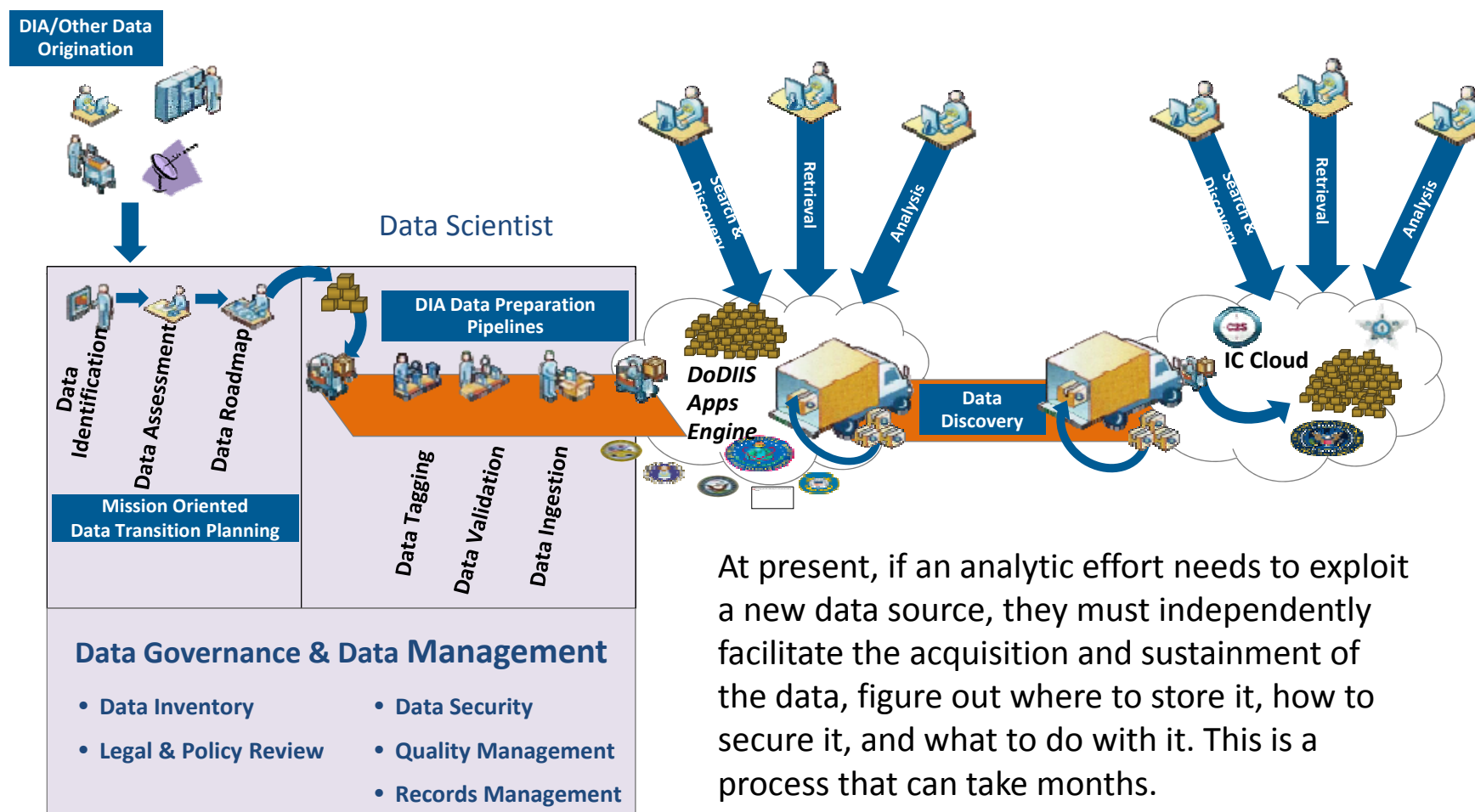
Key Tasks

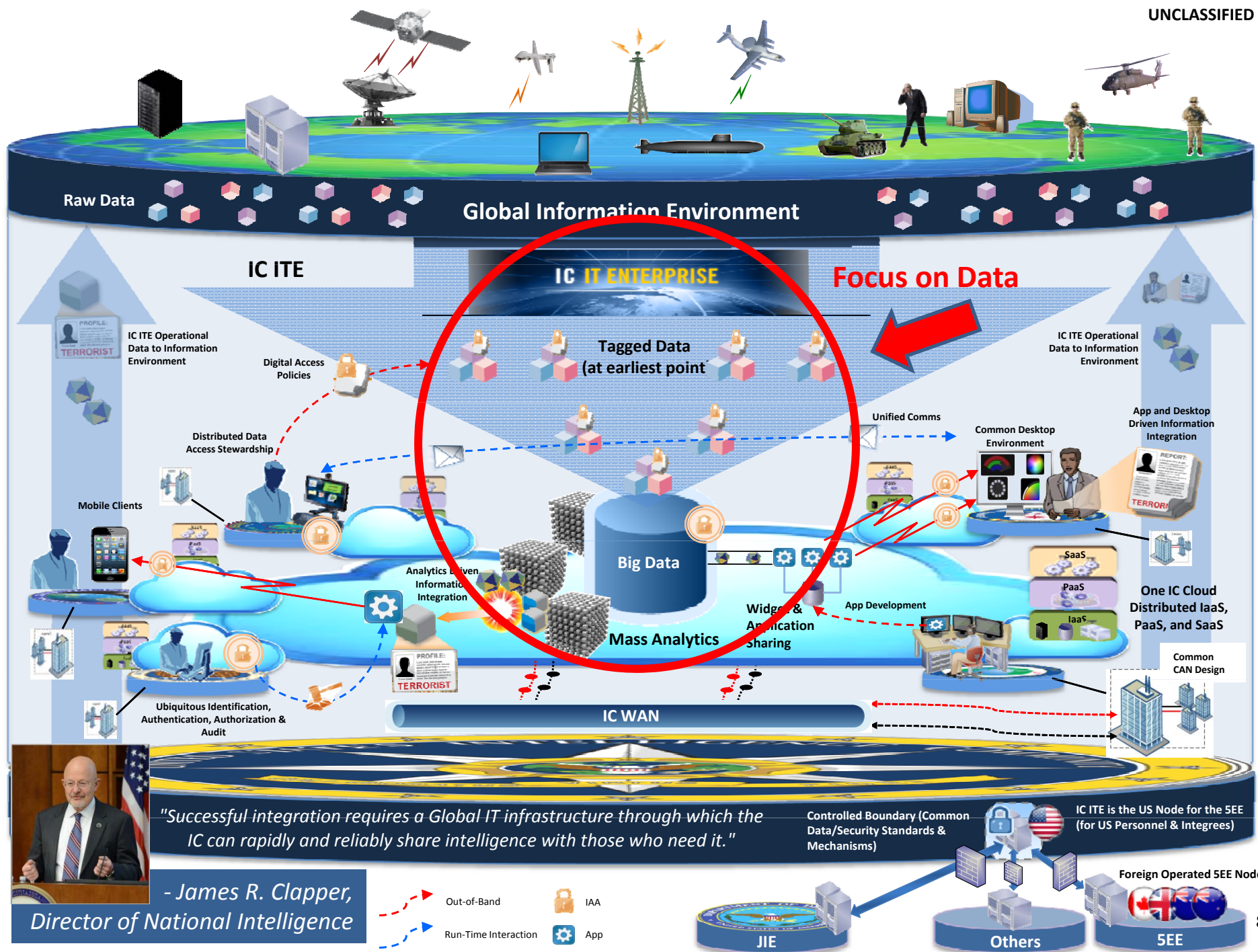
- Understand holdings and their intelligence value
- Develop roles and responsibilities of data stewards
- Establish and empower advocates for DIA access to external data
- Institute corporate data decision making processes
 - Represent Defense interests in the IC and for ICITE
 - Enforce compliance with the law, policy, and regulation
 - Communicate information of common concern
 - Establish vision, set and scrub policy, set procedures and processes to implement and enforce

Create and maintain enterprise data architecture
(blueprint) across data lifecycle



Our Vision – Enhancing Data Value through Governance







IC ITE

IC ITE DATA MANAGEMENT STRATEGY: GOALS AND OBJECTIVES

Goal 1 – Enhance Intelligence Integration

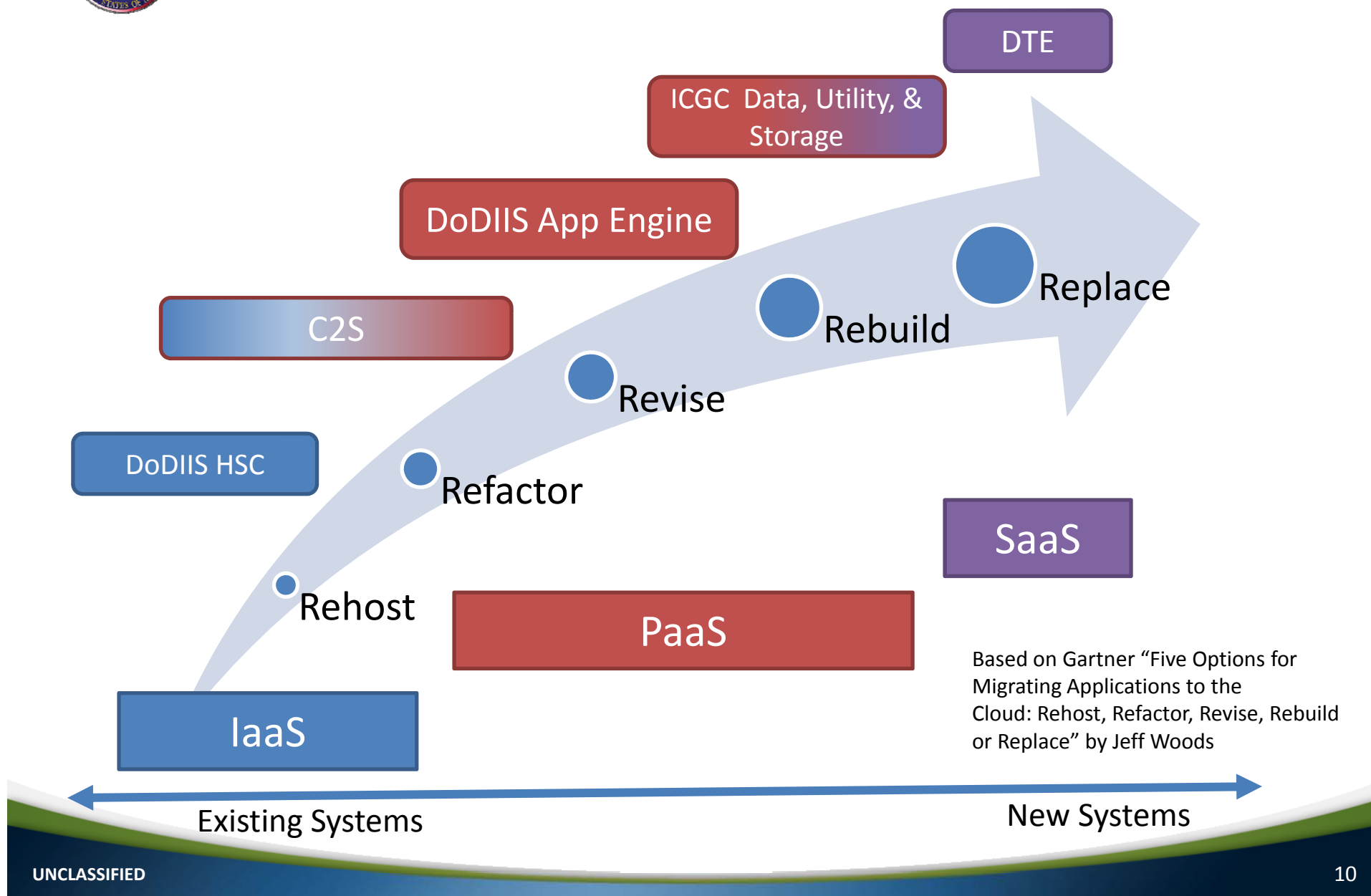
Goal 2 – Maximize Information Utility

Goal 3 – Protect Information

Goal 4 – Support IC-Wide Records Management

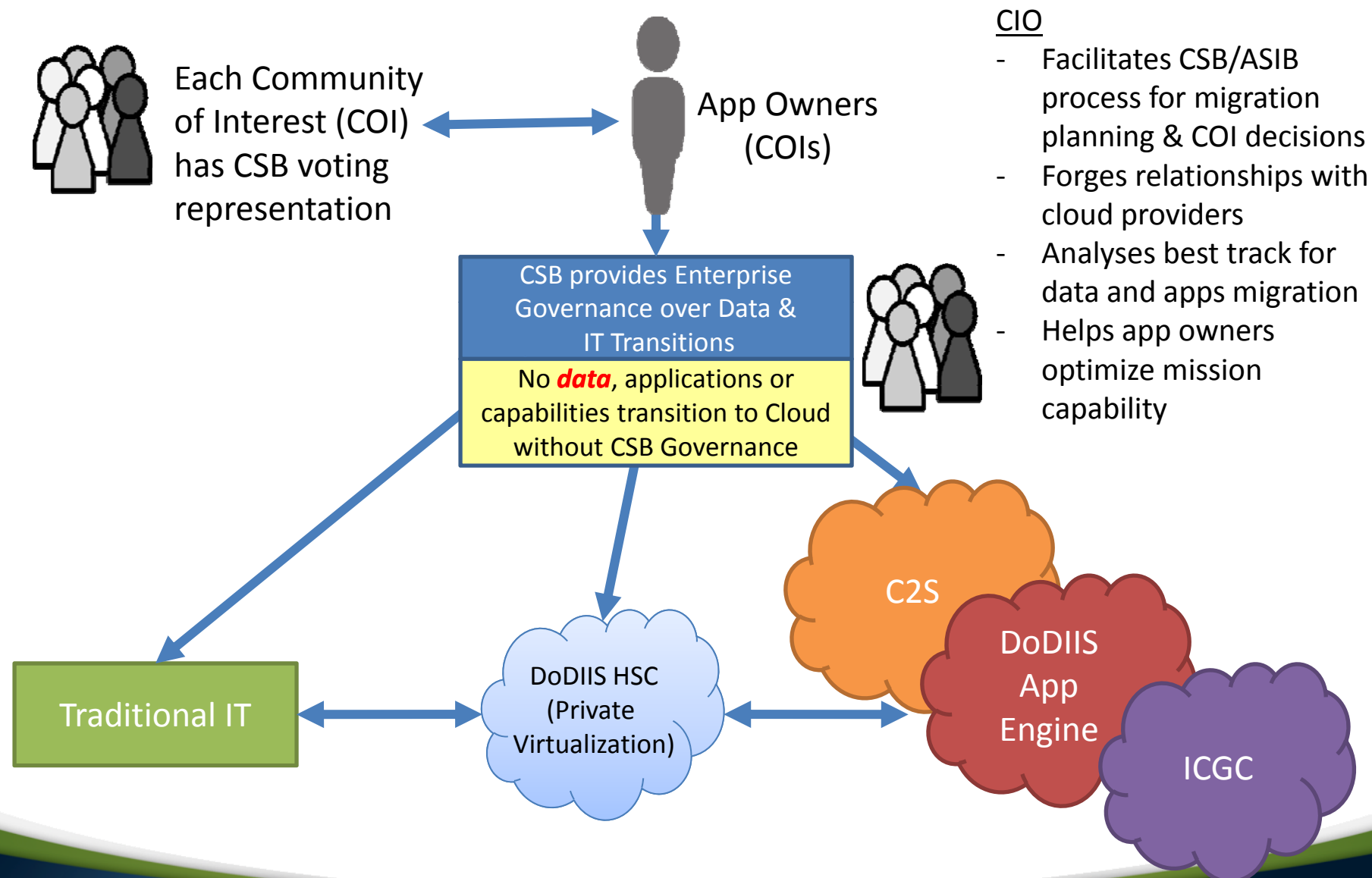


DIA CIO IC ITE Transition planning





DIA CIO Capability Service Board (CSB)





The DIA CIO Mandate for Data

Recognize that the data lifecycle is a joint ***Mission and CIO*** responsibility

- ***Manage data as an IC Enterprise Asset – maximize its value***
- Build to Share – applies to data as it does IT
- Focus on Discovery (Find) & Retrieval (Access) – uses may vary, but core functions are shared
- Assure access by authorized users – **NOT** by the network the data lives on
- Shift to data services – separate data from apps
- Transform from data wrangling to data science – “less time gather, more time eating”

Enterprise IT and ICITE will enable modernization

- Collaborate across the data lifecycle to enable operations
- Embrace a partnership across Defense Intelligence and IC



QUESTIONS ?