

DEFENSE INTELLIGENCE AGENCY

DIA's IC ITE Adoption Story

Gus Taveras DIA CTO



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



ADOPTION FORMULA

Technology

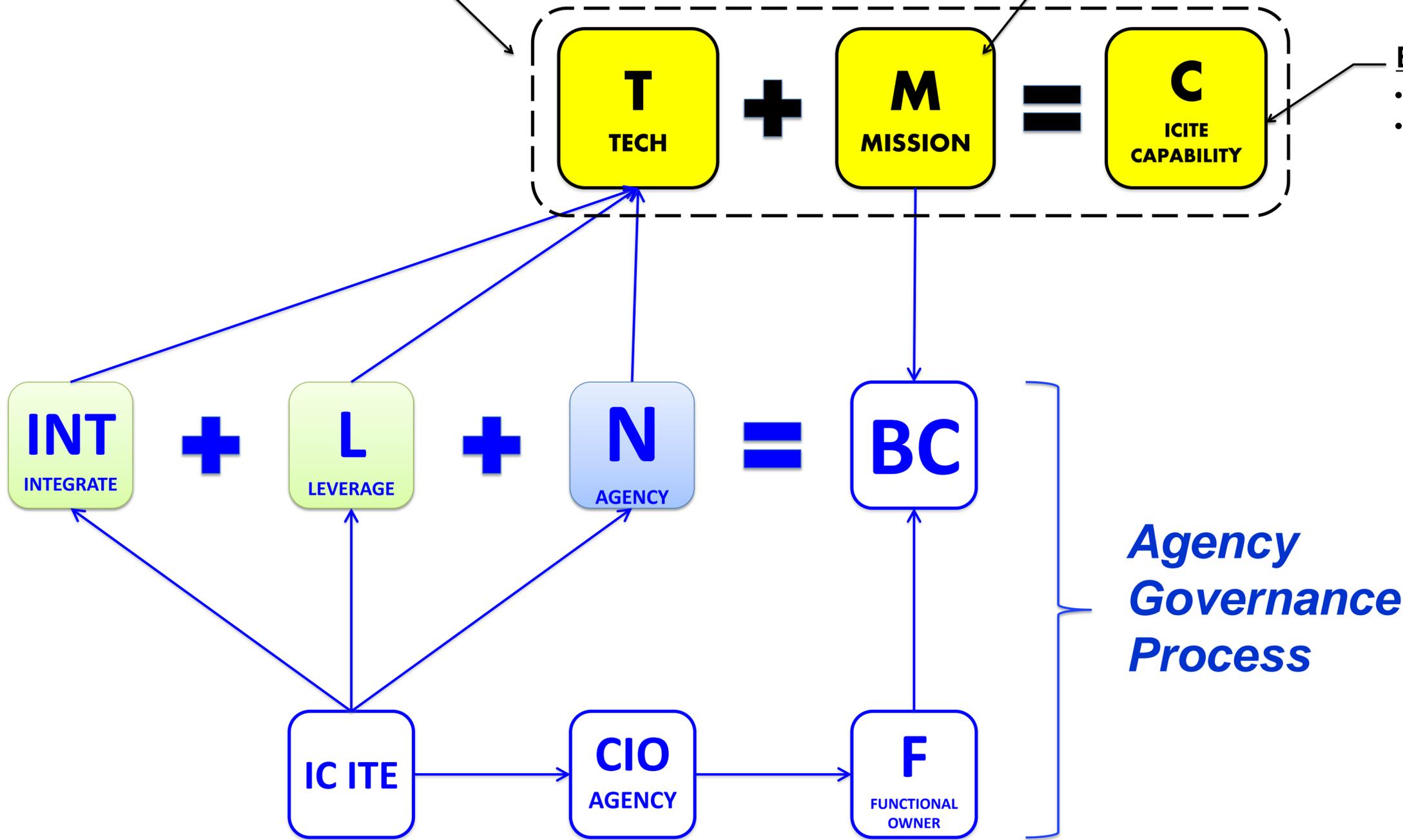
- Capability Developer
- Agency CIO
- IC ITE Service Provider

Mission

- COCOM
- DI
- DO
- CT
- NMO
- S&T
- HR
- TED
- Services

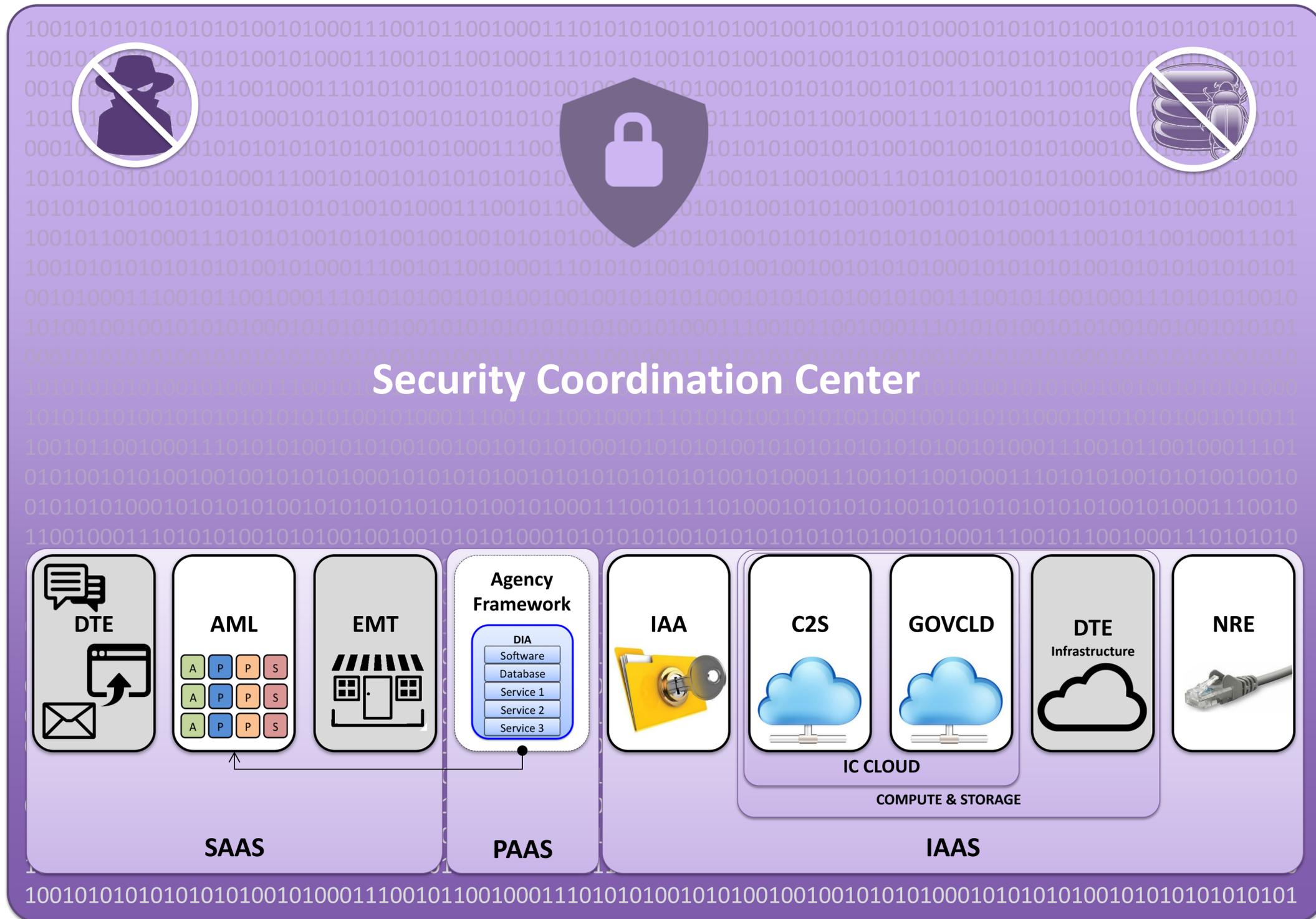
End User

- Access via AML
- Service Catalog





UNBOXING THE IC ITE ECOSYSTEM



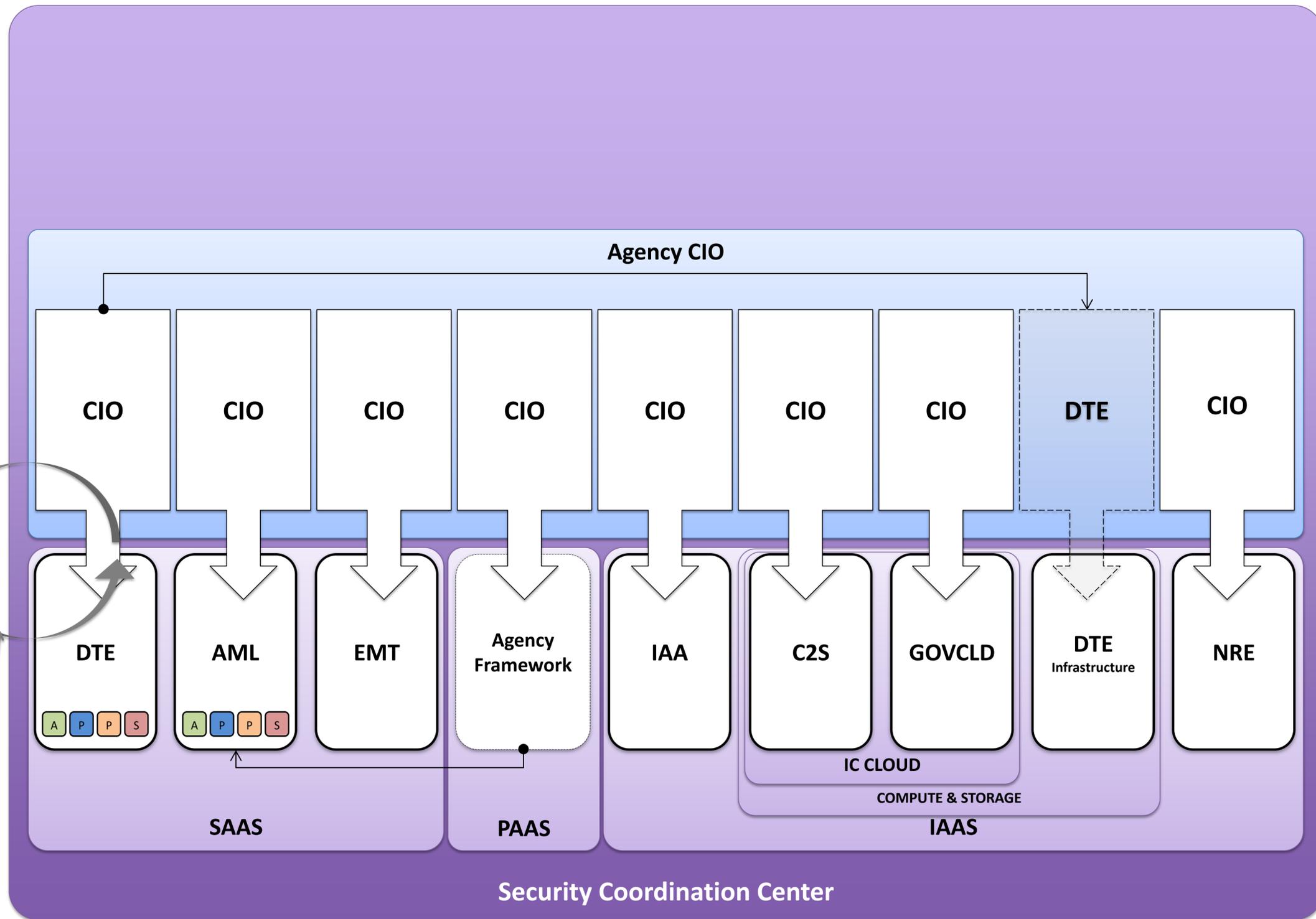
IC ITE Commodity

- DEPLOYMENT PLANS
- SLA
- SERVICE CATALOG
- SERVICE TRAINING
- INTERAGENCY AGREEMENTS
- SCHEDULES



AGENCY CIO & IC ITE OFFERINGS

IC ITE ECOSYSTEM



Agency CIO Commodity

(How the CIO leverages IC services and makes up for mission unique needs)

- TRANSITION PLAN
- SLA
- ADOPTION RDMAP
- TRANSTION SCHED
- RISK MANAGEMENT

IC ITE Commodity

- DEPLOYMENT PLANS
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- SCHEDULES

The IC gains **economies of scales** by identifying investments used by a large percentage of the agencies and make it a IC ITE commodity offering.



IC ITE & The CIO Support To Mission User

Agency CIOs gain economies of scales by identifying investments used by a large percentage of the workforce and make it a DIA CIO commodity offering

A End User Capability

(Users onboard via 4 options for application migration)

- APP MIGRATION PLAN
- SLA BY CAPABILITY OWNER

B Agency CIO Commodity

(How the CIO leverages IC services and makes up for mission unique needs)

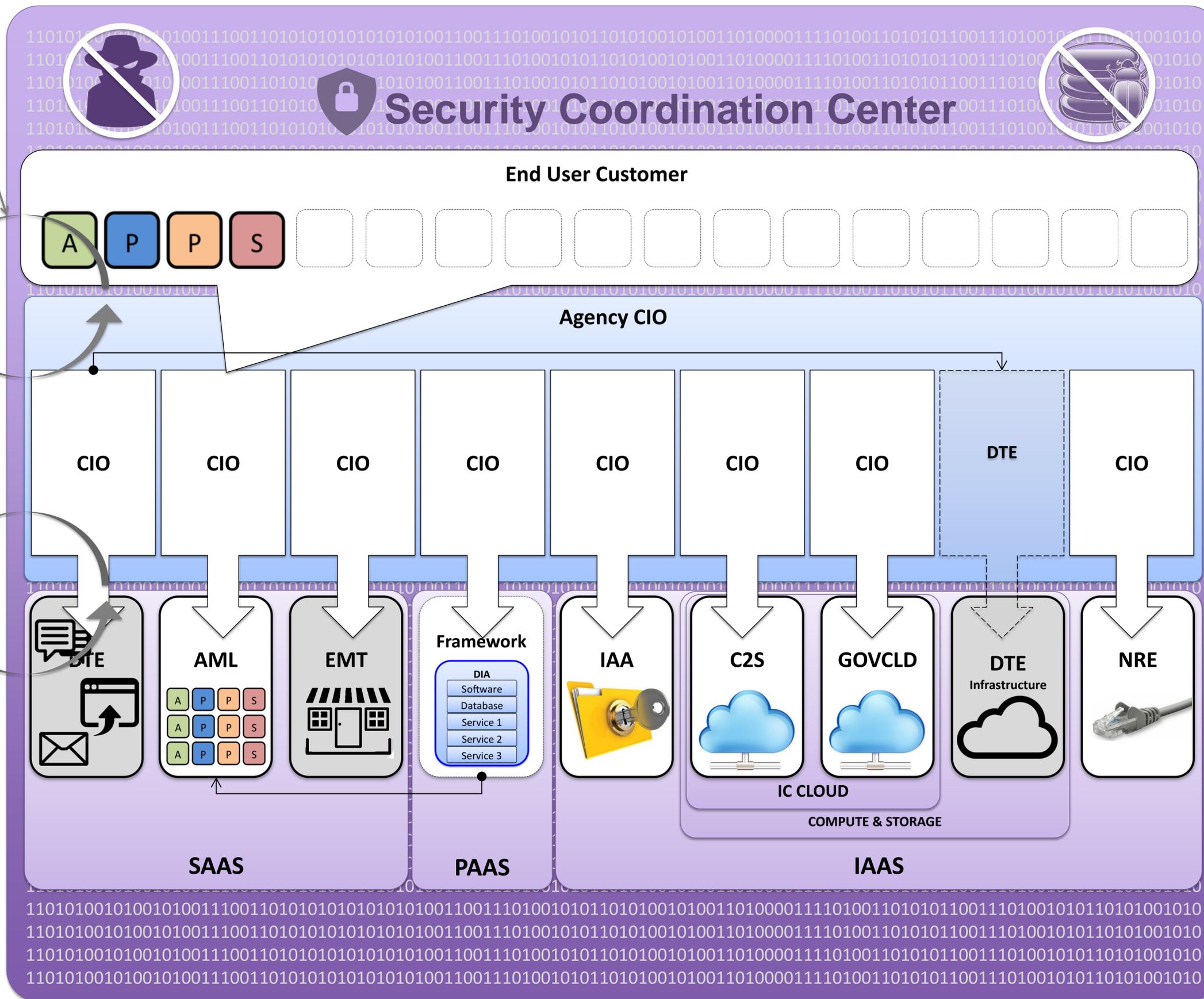
- TRANSITION PLAN
- SLA
- ADOPTION RDMAP
- TRANSITION SCHED
- RISK MANAGEMENT

C IC ITE Commodity

(All Services Provided)

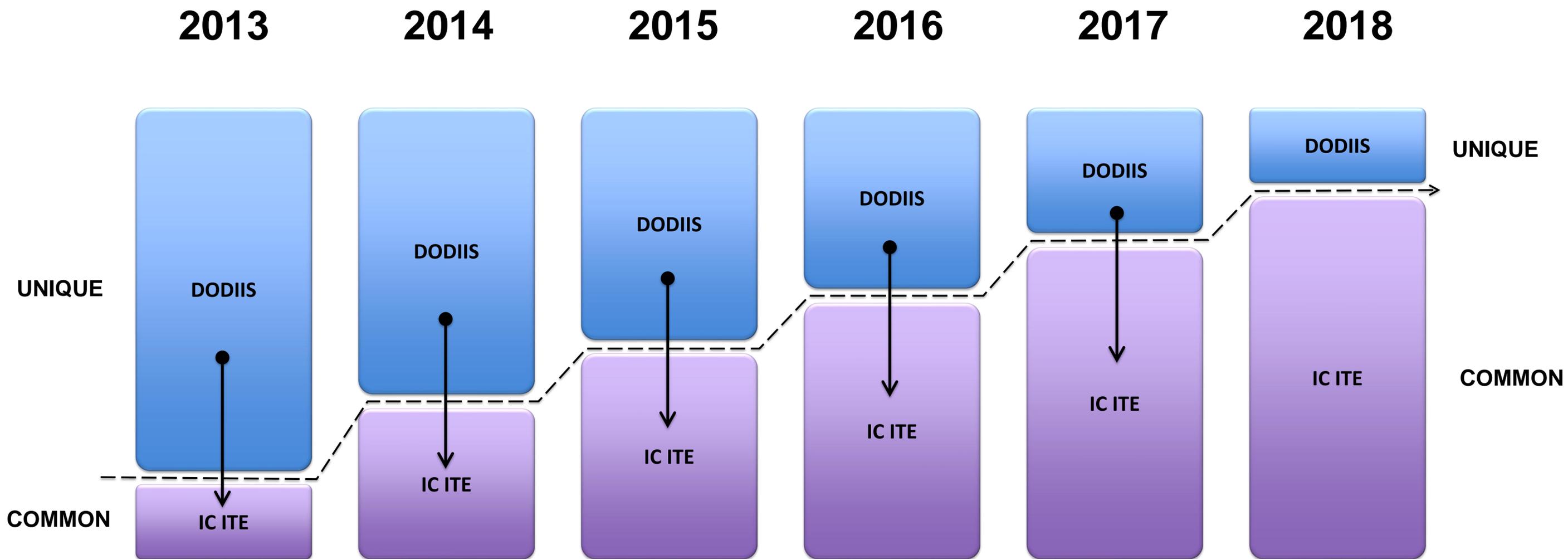
- DEPLOYMENT PLANS
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- SERVICE CATALOG
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- SCHEDULES

Gain economies of scales by identifying investments used by a large percentage of the workforce and make it a CIO commodity capability





MATURATION OF IC ITE



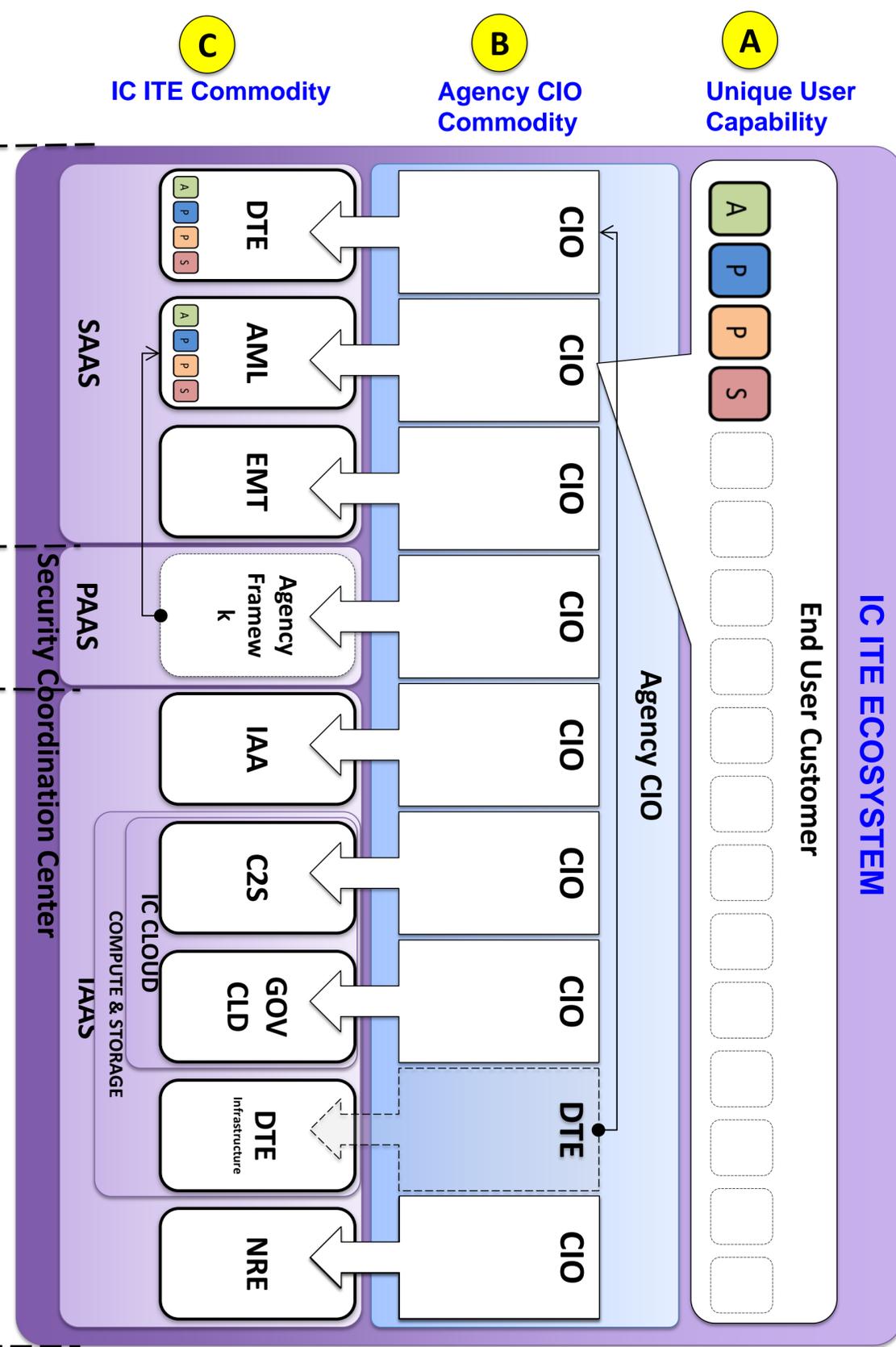
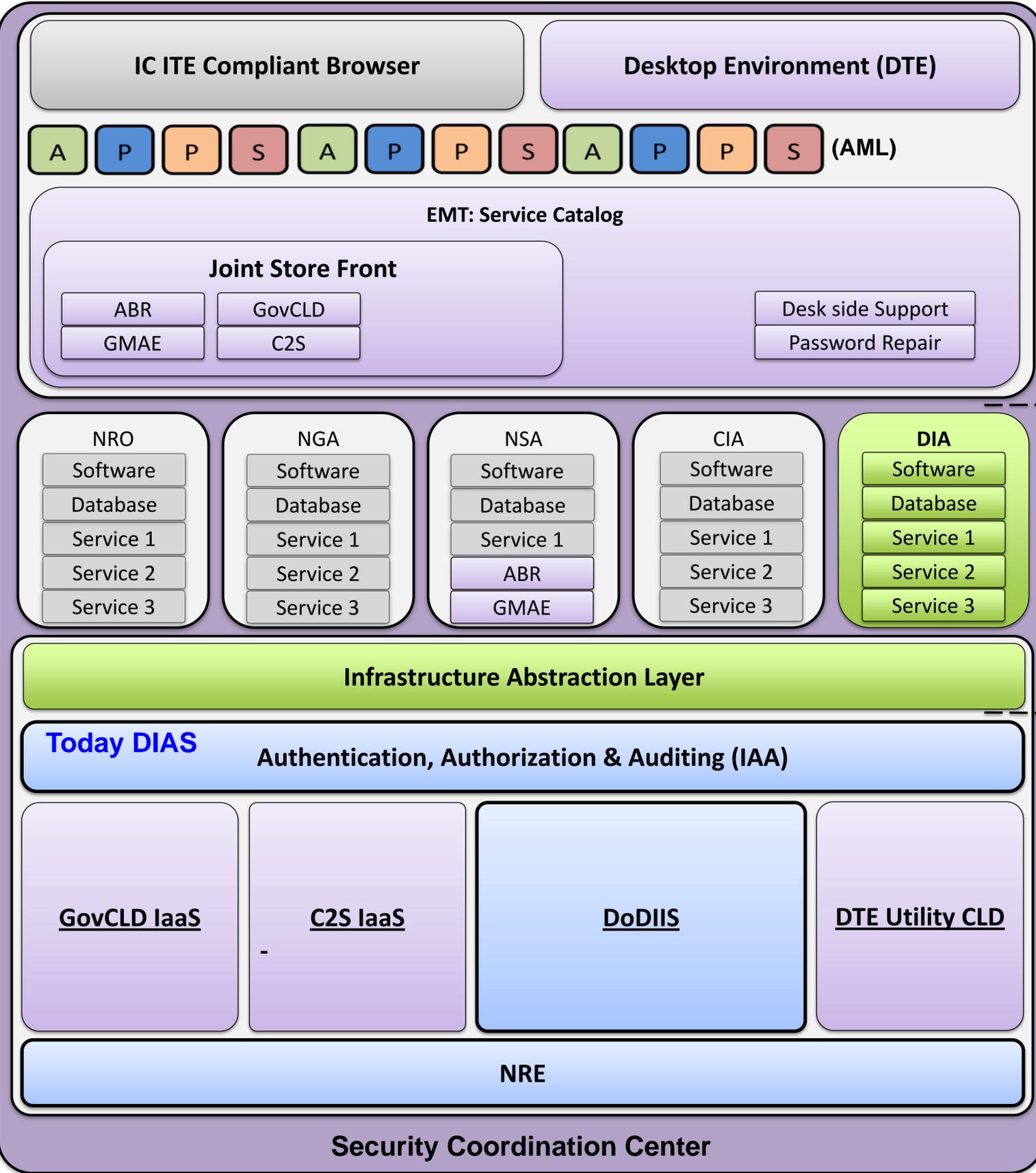
“Do In Common, What Is Commonly Done”



ALIGNMENT TO THE IC ITE ECOSYSTEM

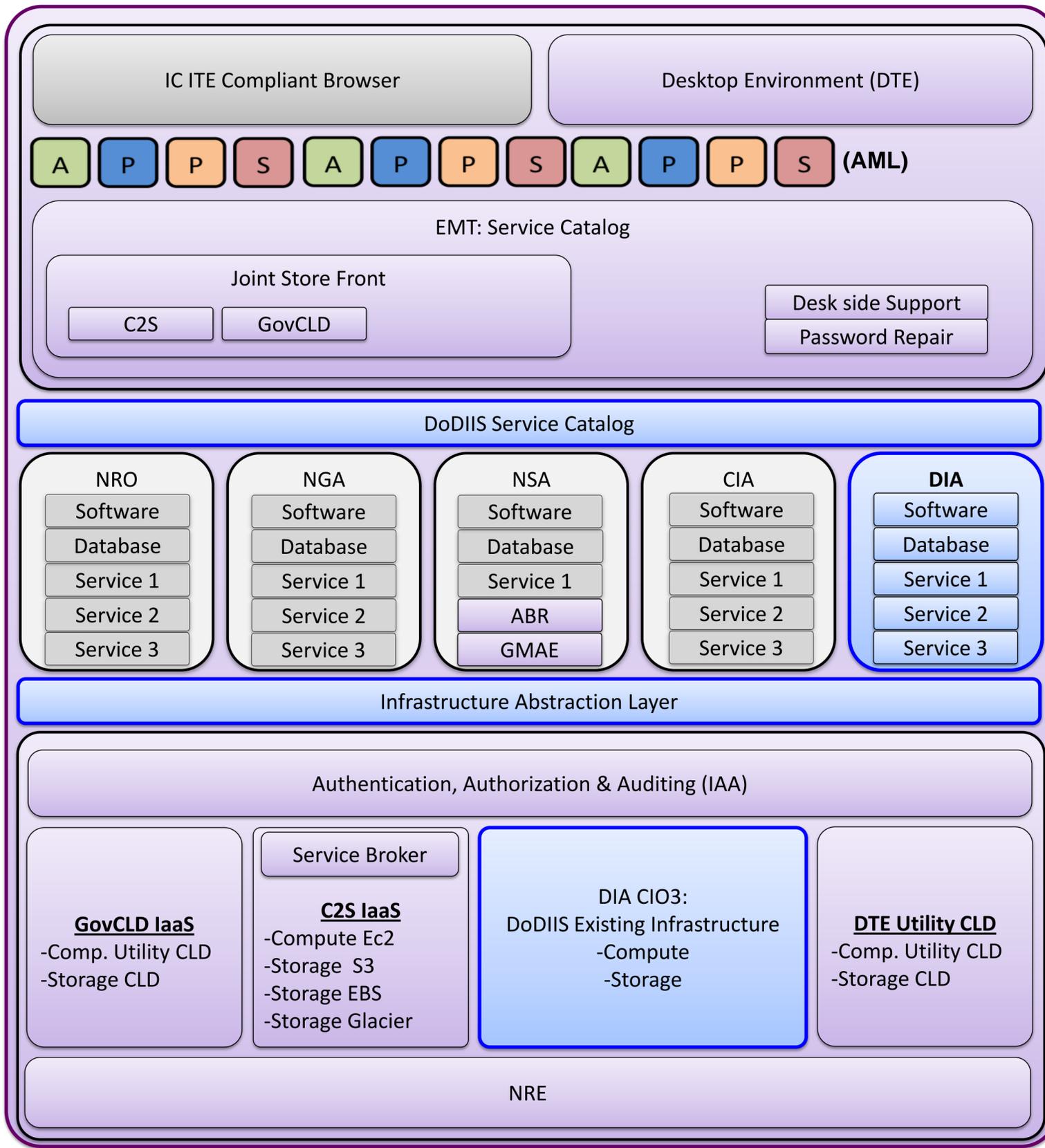
IC ITE Ecosystem

Agency CIO & Customer Path





MISSION USER GUI TO IC ITE





DEVOPS: Lab76

Lab76 will provide a one stop shop for links to demo sites, dev apps and a developer portal for key documents to start development

Welcome To Lab76 January 8, 2014

Welcome to Lab76 Project Dashboard!
This dashboard shall serve as a central repository for general information and system notifications. Within this dashboard, you will be granted access to core applications and resources that will assist you in the creation of your own development environment.

Bookmarks

- Artifactory
- Apps Mall
- GitLab
- Jenkins
- Redmine
- EzBake Interface & Sandbox
- Add New

Schedule

Date	Title	Location
Dec 18, 2013	Core Code Freeze v1.3	
Jan 17, 2014	Release Review (High Side)	SCIF - TBD
Description Release Review (High Side) Location SCIF - TBD Audience TBD Affected Teams All Apps Participants TBD Objective Final review in production of all apps for the 2.0 release. This will be an all day session with team having assigned times.		
Feb 14, 2014	App Code Freeze v1.3.1	
Feb 19, 2014	Core v1.3 Live	
Feb 28, 2014	Internal Apps Review	Navy Yard
Mar 21, 2014	App Code Freeze v1.3.2	
Mar 21, 2014	App Deployment v1.3.1	
Apr 9, 2014	Core Code Freeze v2.0	
Apr 11, 2014	Drop 2 Review	Navy Yard
Apr 25, 2014	App Code Freeze v1.3.3	
Apr 25, 2014	App Deployment v1.3.2	
May 30, 2014	App Deployment v1.3.3	
Jun 6, 2014	Release Review (High Side)	SCIF - TBD
Jun 13, 2014	App Code Freeze v2.0.1	

- GitLab is exposed for source control
- RedMine is exposed for task management
- Jenkins is hooked into GitLab for automated deployments
- Single sign-on for registration for access to all apps
- Training videos for using dev apps and configuration
- Access to EzBake API for dev starter kit



DoDIIS App Engine

DoDIIS APP ENGINE My Apps Feeds Home



Start Your Application

or import your application registration here

DoDIIS APP ENGINE My Apps Feeds Home

Registration Overview

Applications must register to:

- Get an Application Security ID
- Request Application Authorizations
- Register Broadcast Topics for Parsers
- Register Data You're Listening For
- Register Broadcast Topics for Data Feeds
- Register Data Type for Visualization

As long as all of your services, feeds, and web sites can request the same level of authorizations, you'll only need to register once for everything. If you have some services that are meant to be internal to your application, and other service(s) that are meant to be shared for use by other applications, you should register once for all of your internal services, and a separate registration for EACH external service.

Get Started

Basic Information

Establish your application settings

Add a Feed

Is your application ingesting or generating new data?

Yes **No**

DoDIIS APP ENGINE My Apps Feeds Home

Registration Overview

Basic Information

Application Name

This name is what will go in your build packs and what will go in your ezbafe-config.properties file

application.name=

Admin Users

Lab76 LDAP User names or DIAS DN +

These are the people that will be allowed to update this application later

Point of Contact Email

This should be the primary contact person for any questions regarding this registration request

Application Authorizations

Add Authorizations

U

Continue

Add a Feed

Is your application ingesting or generating new data?

Yes **No**



DIA Capability Ingredients

ASIB ASIB
? App

App App App App App App App App App App App App App App App App

Apps
Software
Services
Data Sets

DRAFT - 09 DEC 2013																		
Application Functions																		
Geospatial																		
OpenLayers								X						X				X
Google Earth									X					X	X	X		X
Google Maps									X					X	X	X		X
ESRI																		X
Other									X		X							
Link Analysis																		
NE5														X	X	X		X
d3.js																		X
Other																		
Data Entry																		
Report	X	X	X	X	X				X				X	X	X		X	
Person	X							X				X	X	X	X		X	
Place	X							X	X			X	X	X	X		X	
Event	X								X			X	X	X	X		X	
Case	X			X	X				X			X	X	X	X		X	
Selector	X								X			X		X			X	
Watchlist Entry	X																X	
Task Management																		
Search																		
Freetext	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geospatial								X	X	X	X	X	X	X	X	X	X	X
Temporal	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Selector	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Faceting	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Field	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Alerting																		
Saved Search																	X	X
Watchlist																	X	X
App Unique																	X	X
Charting																		
Line								X			X					X	X	
Bar	X							X			X					X	X	
Radar																		
Pie								X			X						X	
Timeline										X						X		
Doughnut											X					X		
Other																		
Presentation																		
NEW																		
OWF 7																X		
Ozone Platform									X				X			X		
Web App	X	X	X	X	X	X	X	X				X			X		X	
Thick Client												X						
Mobile												X						
NEW																		
Platform																		
Web Server (Jboss, Tomcat)																		
JBoss	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X
Tomcat																		
IIS																		
Analytics																		
Batch								X										
Stream								X								X	X	
Metering & Monitoring																		
SWVL																X		
PIWIK																		
ArcSight																		
Nagios								X										
Ganglia								X										
Cloudera Manager										X								
Other																		X
Data Interface																		
Push	X	X	X	X	X	X	X				X				X		X	
Pull	X	X	X	X	X	X	X				X				X		X	
Deployment																		
Automated								X					X	X				
Manual	X	X	X				X		X	X	X	X		X	X	X	X	X
Operating Systems																		
Windows 2008 R2			X				X											
CentOS 6.4	X	X	X	X	X	X	X		X						X			

Economies of Scale

For Demonstration Purposes Only



PATHS FOR ONBOARDING

A

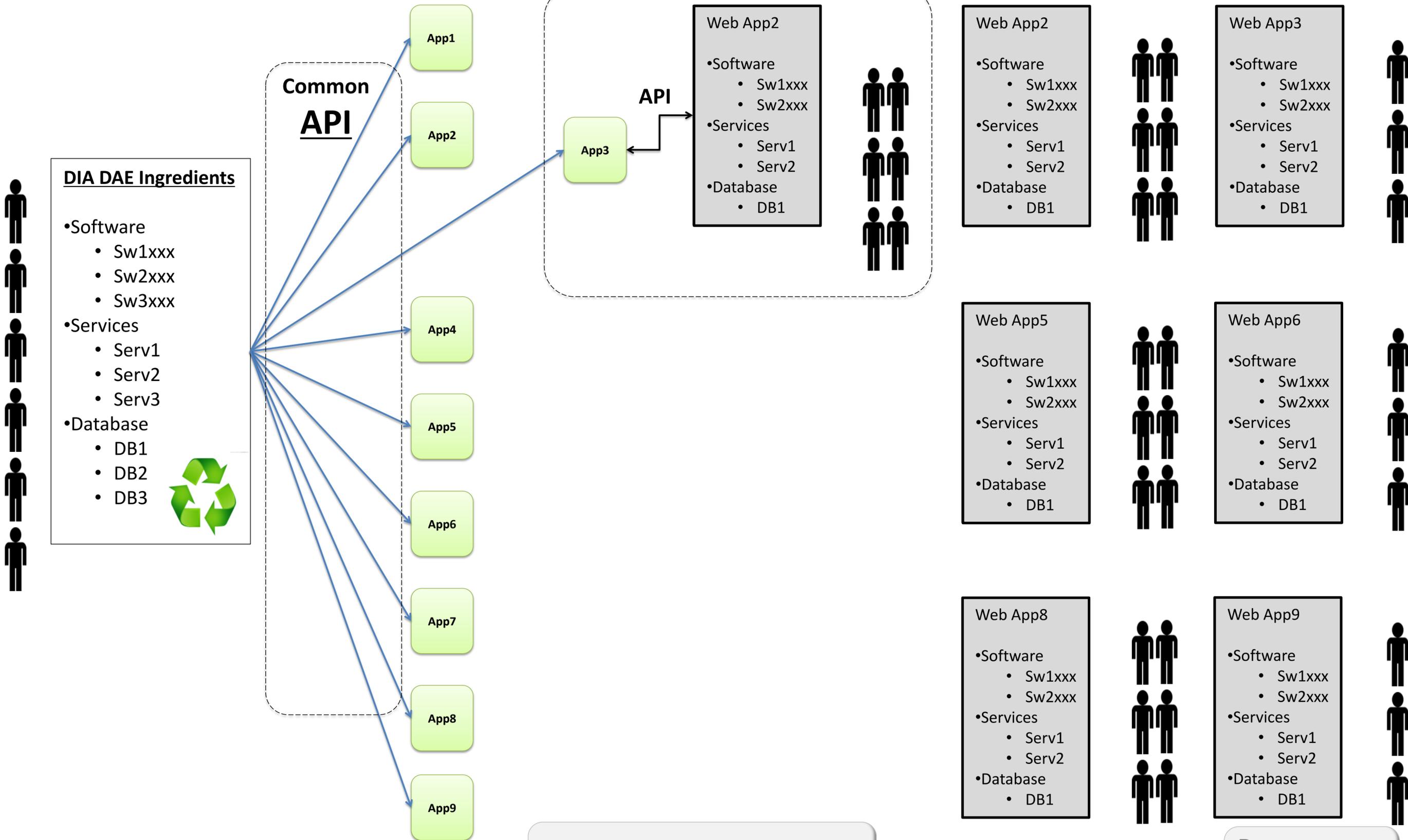
Refactoring/Revise (DAE): PaaS

B

Rebuild: PaaS/IaaS

C

Re-hosting: IaaS

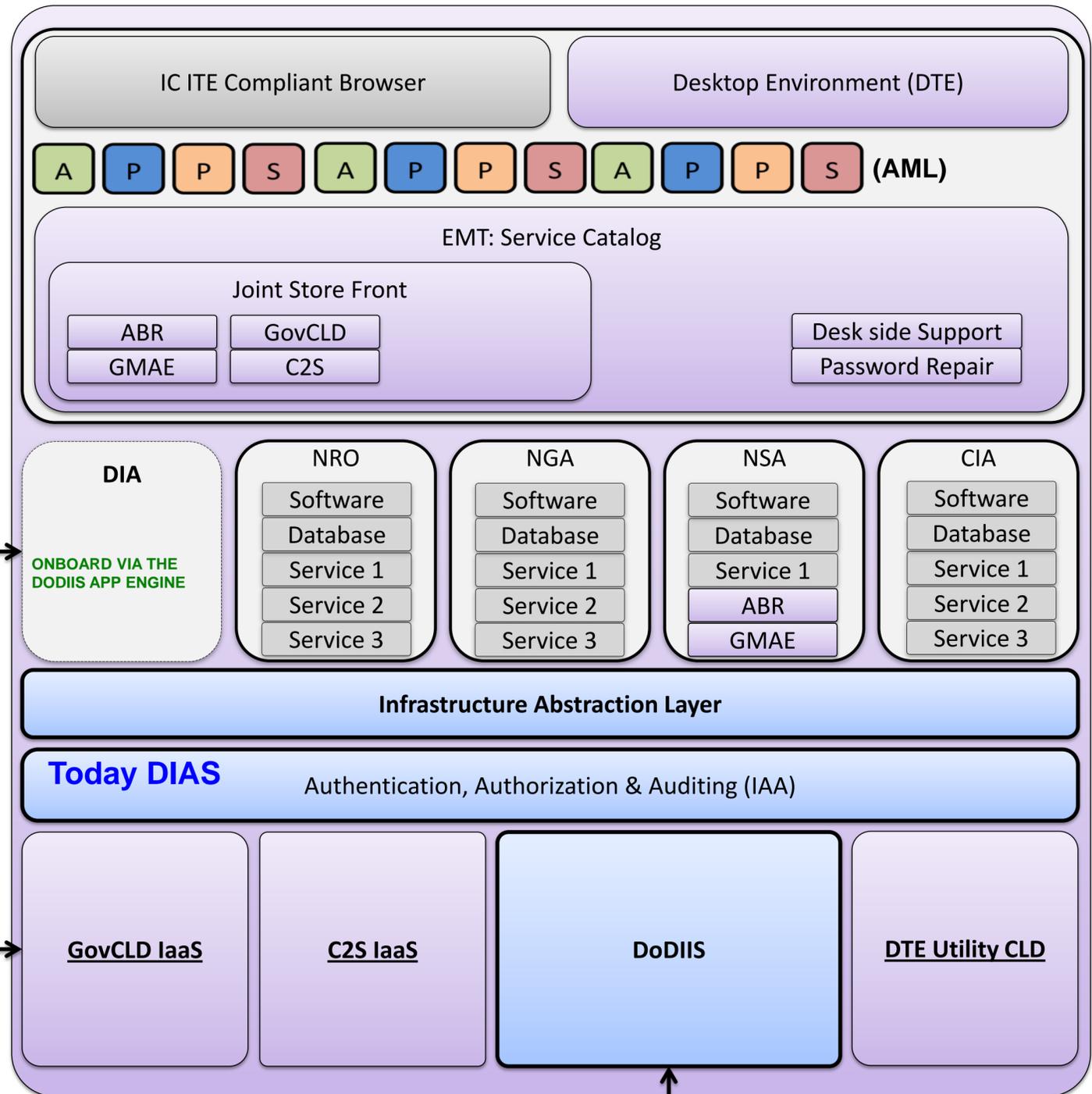
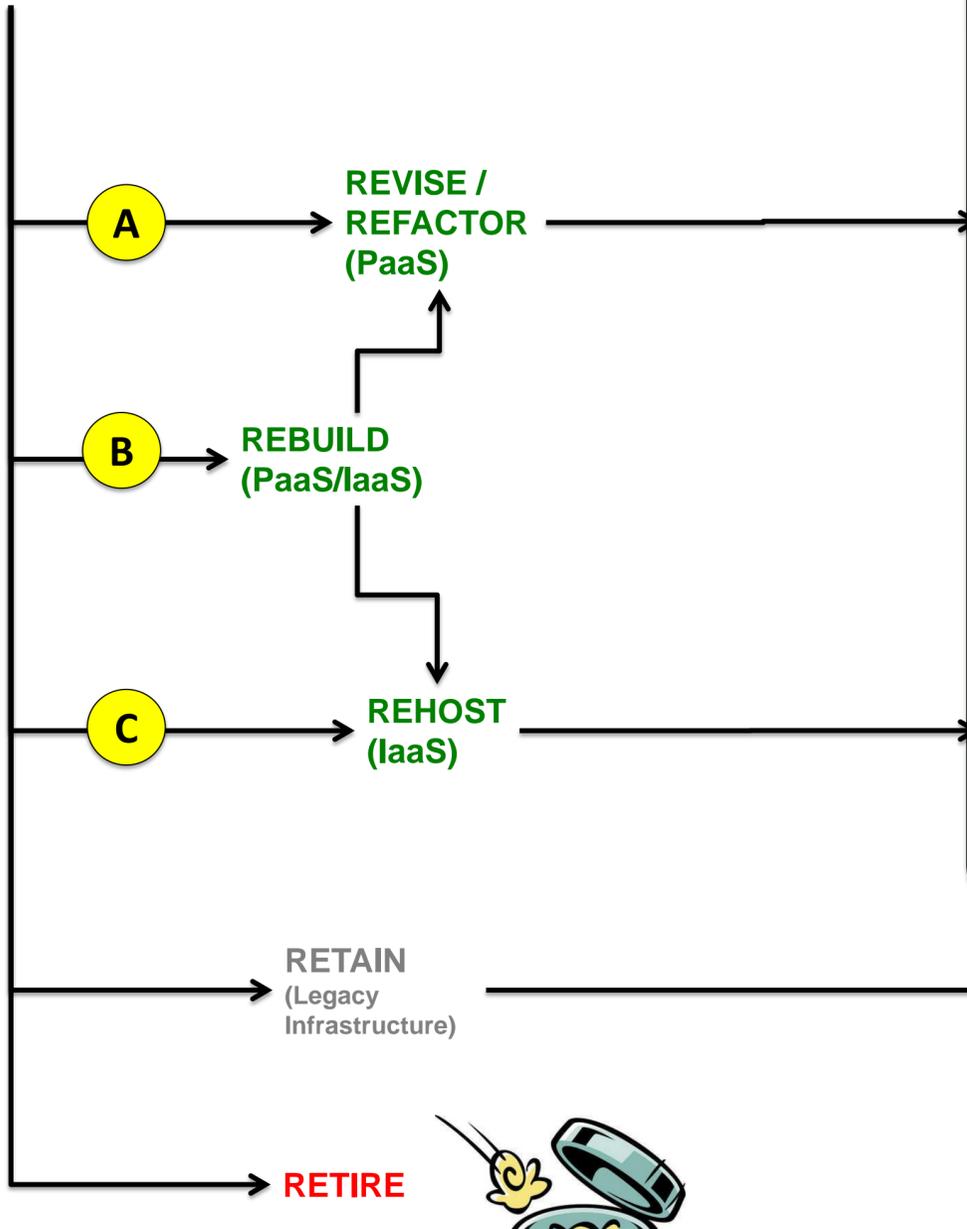




ONBOARDING CAPABILITY TO IC ITE



SAAS
PAAS
IAAS





Data Layer

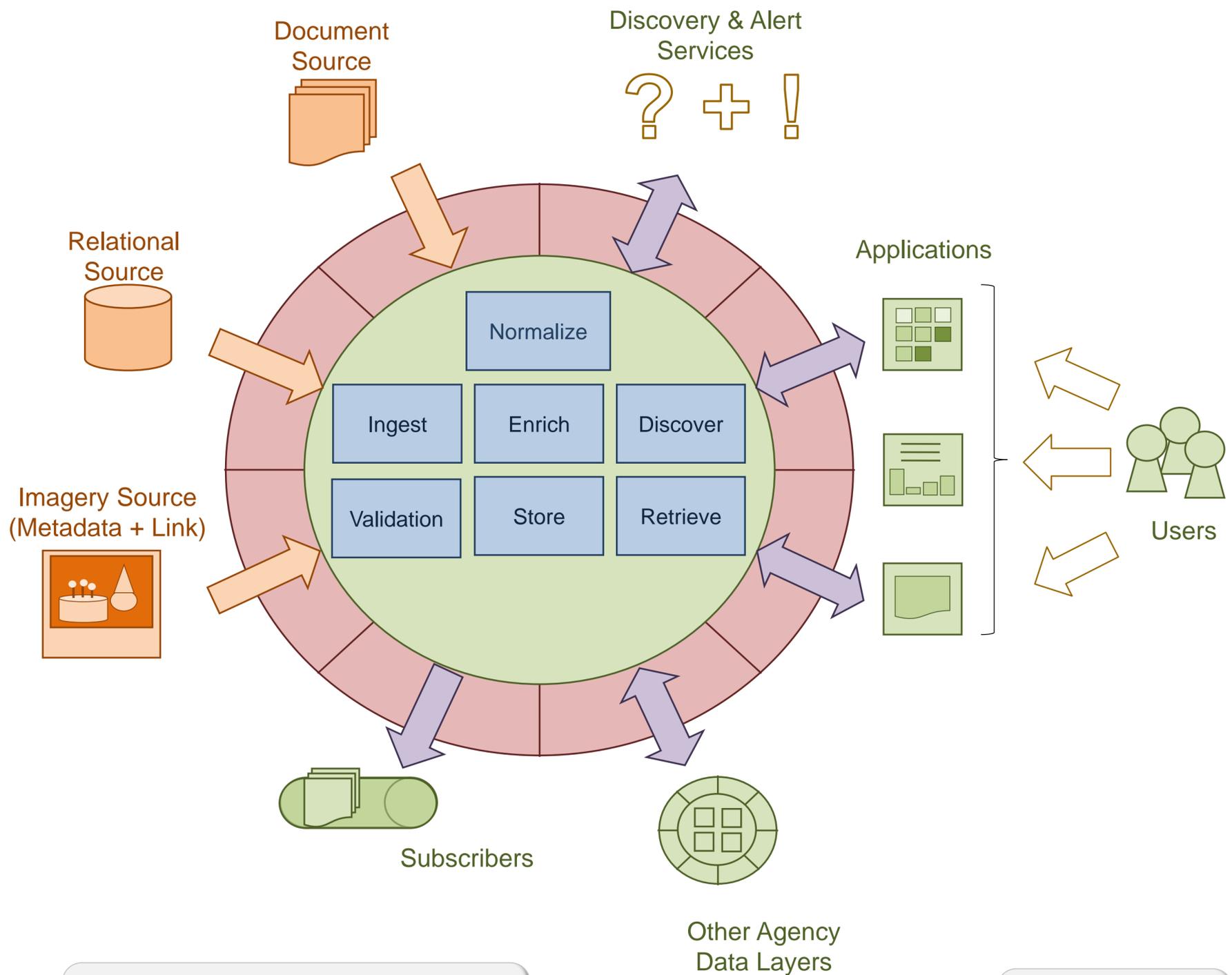
The Data Layer provides DIA's portfolio of enterprise data to consumers across the Intelligence Community.

The value of information contained in the standardized ingestion is:

- content normalization
- data enrichment such as gazeteering and entity extraction.

In addition to data ingestion, standardization, discovery and retrieval, the Data Layer:

- Acts as a steward for enterprise data and serves as a policy enforcement point.
- Add significant value to DIA's information holdings.
- Allows content owners to recall or revise information shared through the data layer.





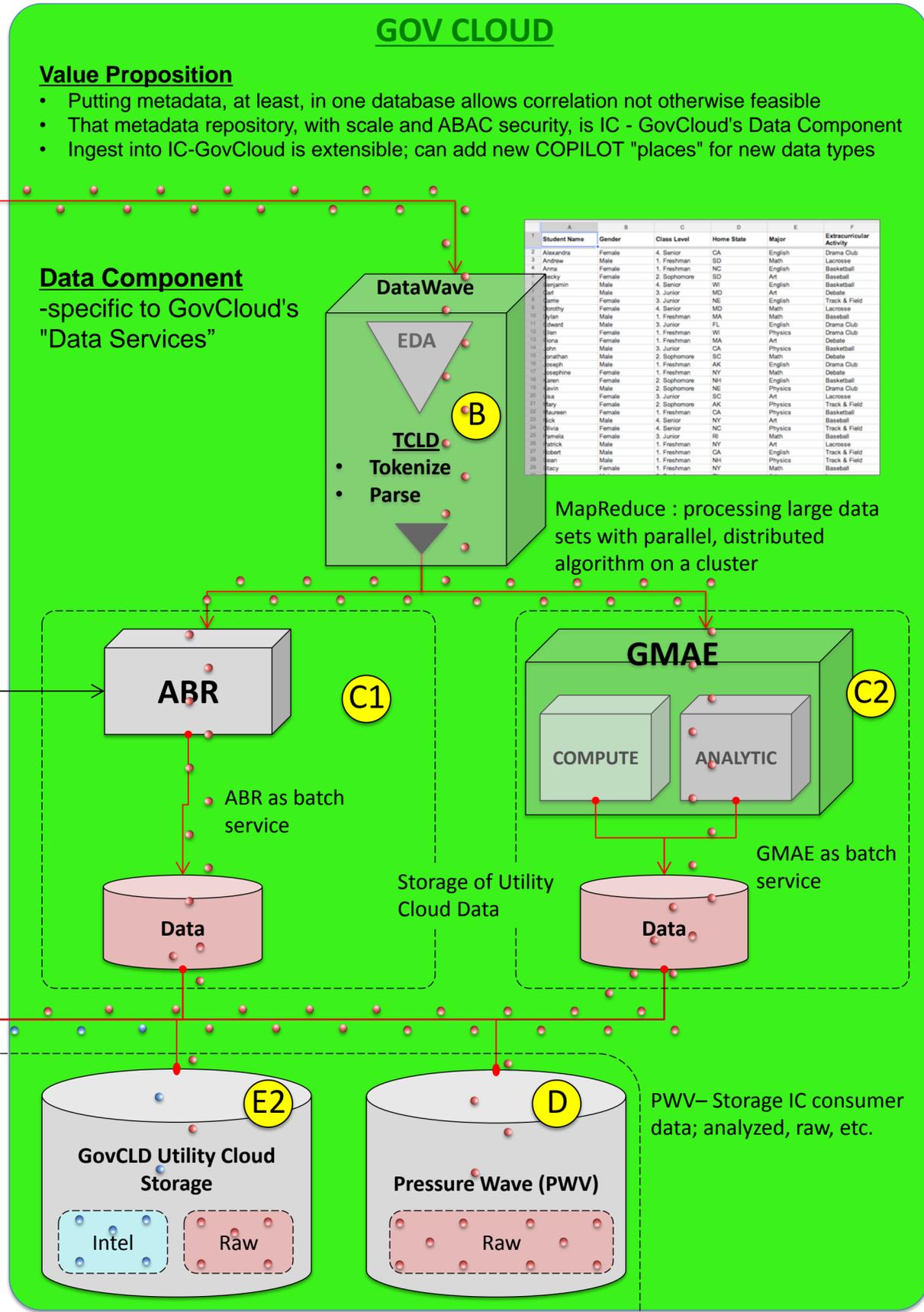
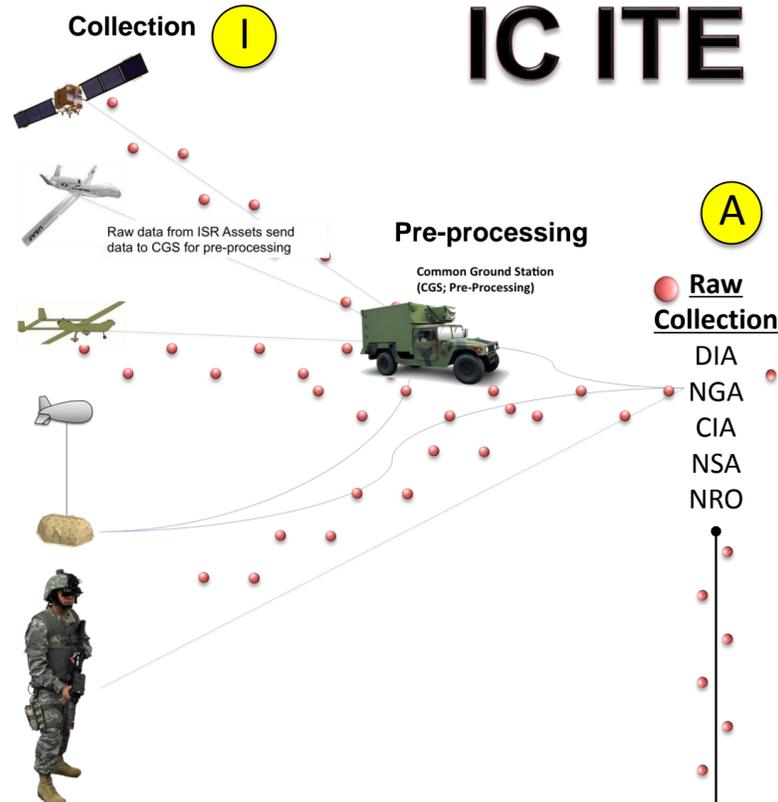
IC ITE Info Sharing: And Intel Cycle

Tasking
ISR Assets in accordance with mission need



Analysis/Exploitation

AML DTE



Student Name	Gender	Class Level	Home State	Major	Extracurricular Activity
Alexandra	Female	4. Senior	CA	English	Drama Club
Andrew	Male	1. Freshman	SD	Math	Lacrosse
Anna	Female	1. Freshman	NC	English	Basketball
Anthony	Male	2. Sophomore	SD	Art	Basketball
Benjamin	Male	4. Senior	WI	English	Basketball
Carl	Male	3. Junior	MD	Art	Debate
Charlie	Female	3. Junior	NE	English	Track & Field
Christy	Female	4. Senior	MD	Math	Lacrosse
Cylian	Male	1. Freshman	MA	Math	Baseball
Edward	Male	3. Junior	FL	English	Drama Club
Ellen	Female	1. Freshman	WI	Physics	Drama Club
Erika	Female	3. Junior	MA	Art	Debate
Ethan	Male	2. Sophomore	CA	Physics	Basketball
Jonathan	Male	2. Sophomore	SC	Math	Debate
Joseph	Male	1. Freshman	AK	English	Drama Club
Josephine	Female	1. Freshman	NF	Math	Debate
Kevin	Female	2. Sophomore	NH	English	Basketball
Lisa	Female	3. Junior	NE	Physics	Drama Club
Larry	Male	3. Junior	SC	Art	Lacrosse
Larry	Female	2. Sophomore	AK	Physics	Track & Field
Lauren	Female	1. Freshman	CA	Physics	Basketball
Mark	Male	4. Senior	NY	Art	Baseball
Olivia	Female	4. Senior	NC	Physics	Track & Field
Patricia	Female	3. Junior	RI	Math	Baseball
Patrick	Male	1. Freshman	NY	Art	Lacrosse
Robert	Male	1. Freshman	CA	English	Track & Field
Sean	Male	1. Freshman	NH	Physics	Track & Field
Tary	Female	1. Freshman	NY	Math	Baseball

Operation	SQL	HTTP
Create	INSERT	PUT / POST
Read (Retrieve)	SELECT	GET
Update (Modify)	UPDATE	PUT / PATCH
Delete (Destroy)	DELETE	DELETE

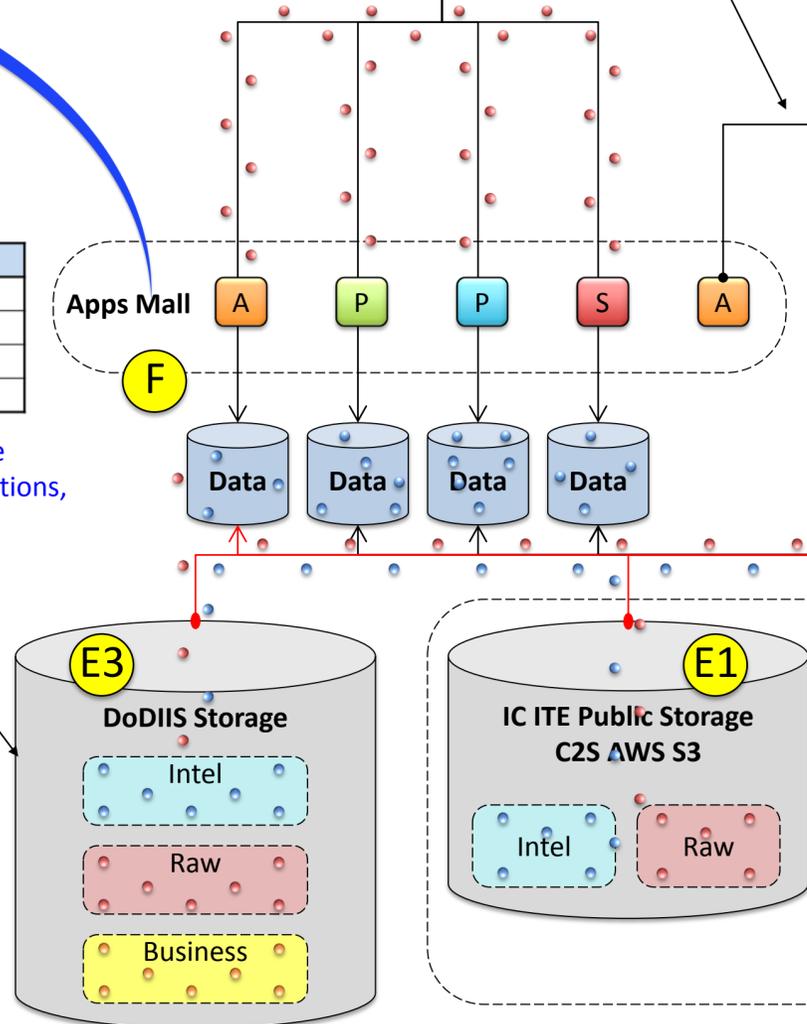
Agency unique capabilities/applications requiring more involved (CRUD) create, read, update and delete operations, to enhance the viewing, searching and changing of information.

May still require to store data in DoDIIS Infrastructure, because:

- Of capacity challenges
- Data titles and authority's

Storage Component- Place to put data objects with a unique id for later retrieval - safely stored in multiple places with high availability

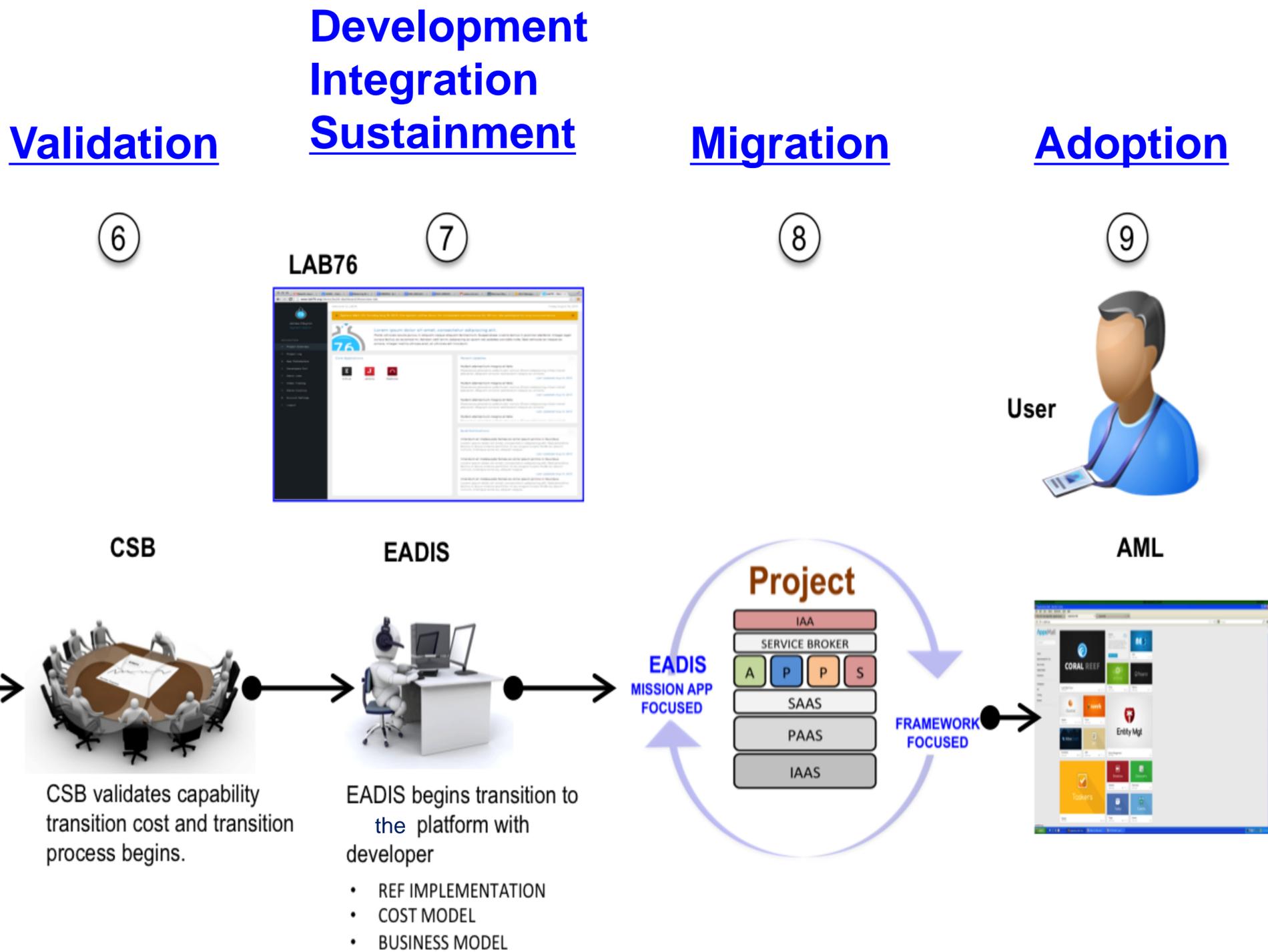
- Similar but Different: IC-GovCloud (PWV) and C2S (AWS S3)
- Security Model differs: Smart Data vs. "Account Owner" (resp.)
- i.e. Anyone with the right attributes vs. only the owning "account"



UNCLASSIFIED

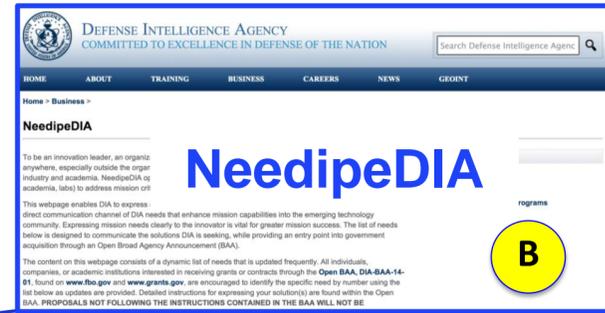


GOVERNANCE PROCESS



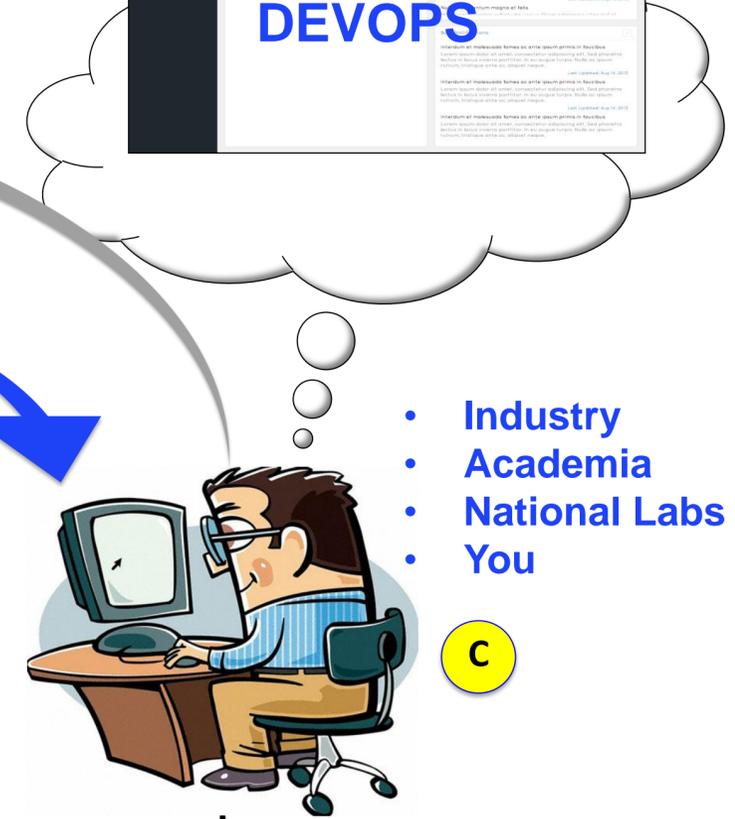


INNOVATION GATEWAY



Mission User

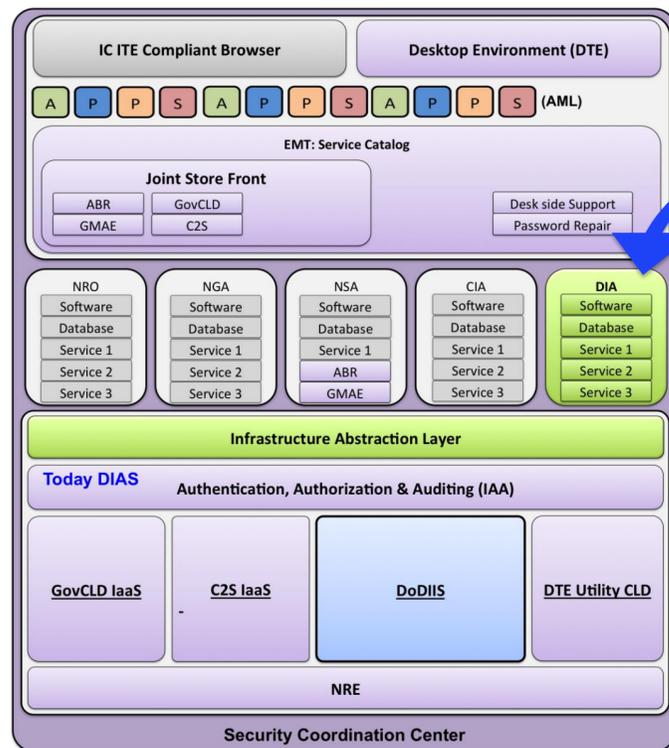
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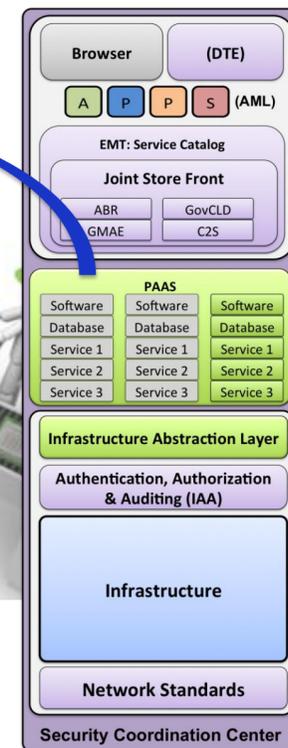
- Industry
- Academia
- National Labs
- You

C

IC ITE Ecosystem



GATEWAY



Refactor

Rebuild

Rehost

Solutions Built to Standard

D



CSB

UNCLASSIFIED



QUESTIONS

Contact Information

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