PEO DIGITAL

PROGRAM EXECUTIVE OFFICE DIGITAL & ENTERPRISE SERVICES

Notional NIS Integration with NDP ORE

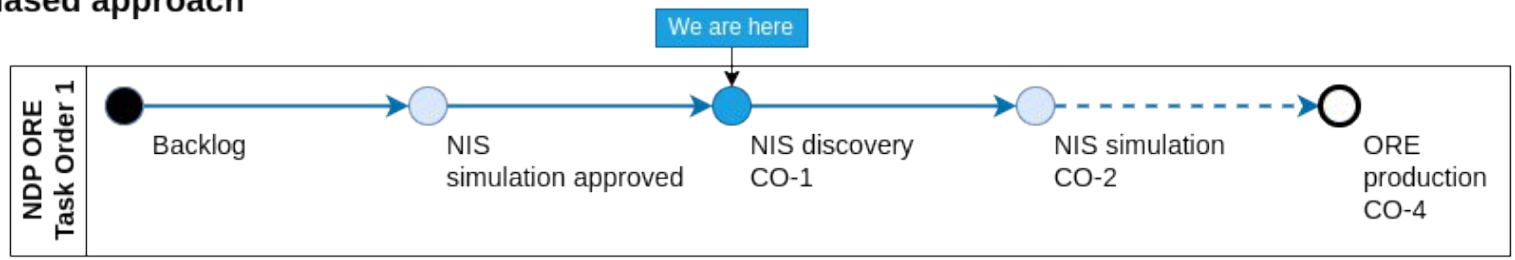
NDP ORE Team
2 Twelve Solutions

Recommended Approach

- Integrate with Naval Identity Service to
  - Provide authoritative identity, authentication and MFA using SAML assertions for NDP ORE users
  - Reduce level of effort for any orchestrated applications to leverage NIS authenticators
  - Potential to use NIS as platform for creating any business process workflow leveraging NIS Sailpoint service to do digitized SAAR-N process for user on boarding and off boarding

Approach Phased Plan Details

Phased approach



Approach details

Backlog:

CO 1 NIS use case identified and included as #2 of 6 simulation during the NDP ORE Task Order #1

Approved:

GO 1 NIS simulation receives final approval from DES CHENG, BAN/LAN/WLAN Service Owner and Project Manager

Discovery:

CO 2 ORE Team (2 Twelve) had preliminary conversation with NIS technical staff about NIS capabilities and how to onboard to NIS. Further technical exchanges required to definitize further actions

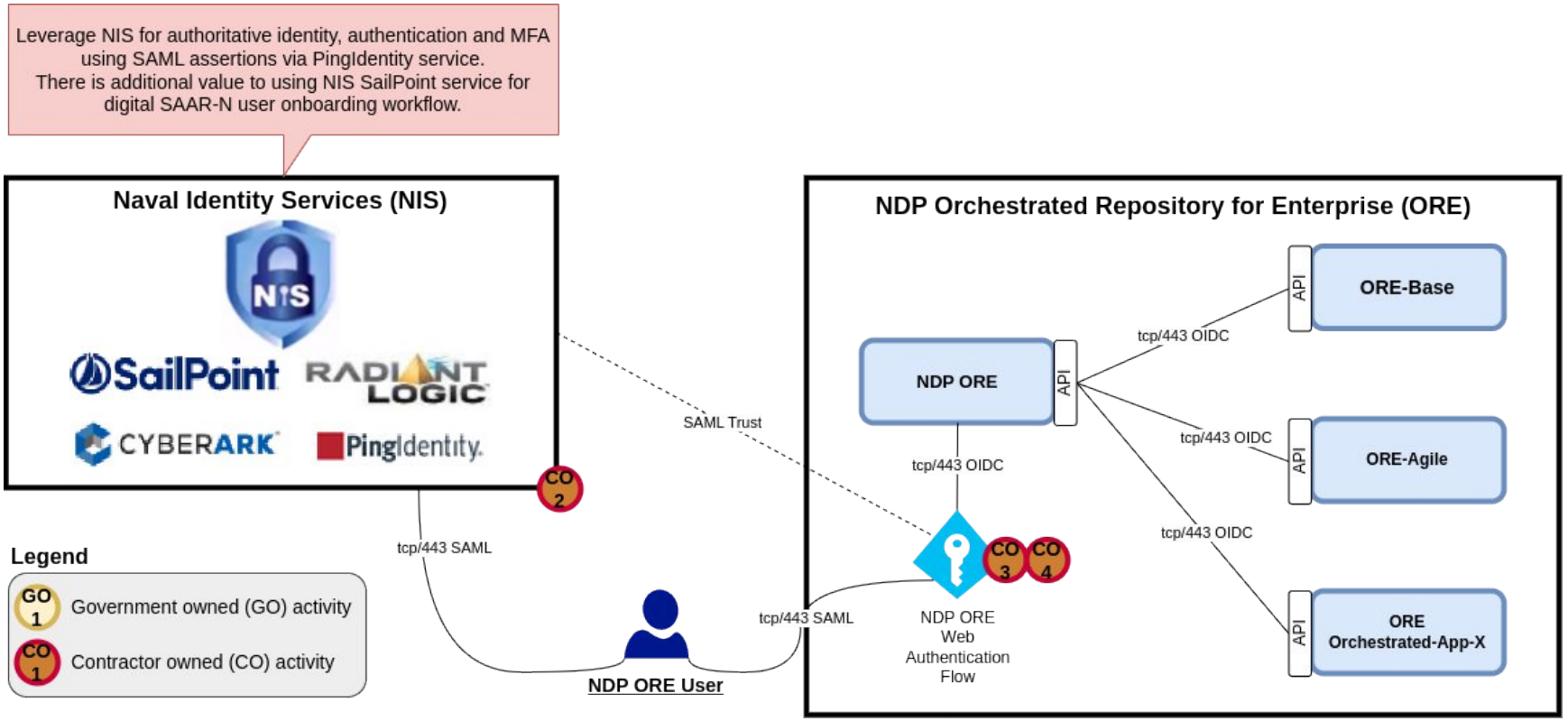
Simulation:

CO 3 ORE Team (2 Twelve) to implement simulation #2 that shows process for Navy user to login to NDP ORE using their NIS identity

Production:

CO 4 Ore Team (2 Twelve) transitions CONOPS and data to production NDP core nodes

Architecture View



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BACK-UP

Key Elements of the ORE

- **Source Code Repository** — Used primarily during the development phase. Modern source code repos are Distributed Version Control Systems
- **Artifact Repository** — Used during the development and operations phases. It is a database for storing binaries. Additionally, test data and libraries can be stored on it as well.
- **Configuration Management Database** — Used during the development and operations phases.
- **Secrets Repository** – Security related certificates and tokens are stored in a repository where they are forwarded on behalf of the user/computer to authorize and authenticate
- **Content management** – Centralized, with policy enforcement based on the needs of the individual files, A modern document repository also leverages APIs to share partial or full access to various systems, which allows documents to be consumed

Authoritative single source of truth
Acts as the enterprise IT DNA

Repositories enable the distribution of knowledge and peer review/supervision

Orchestrating Multiple Clouds and On premise Infrastructures

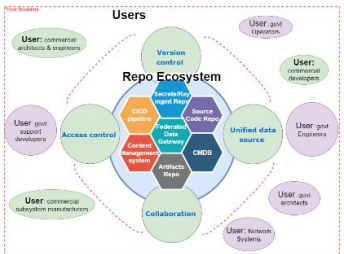
ORE: Requirement to sync ORE with SANDE repo

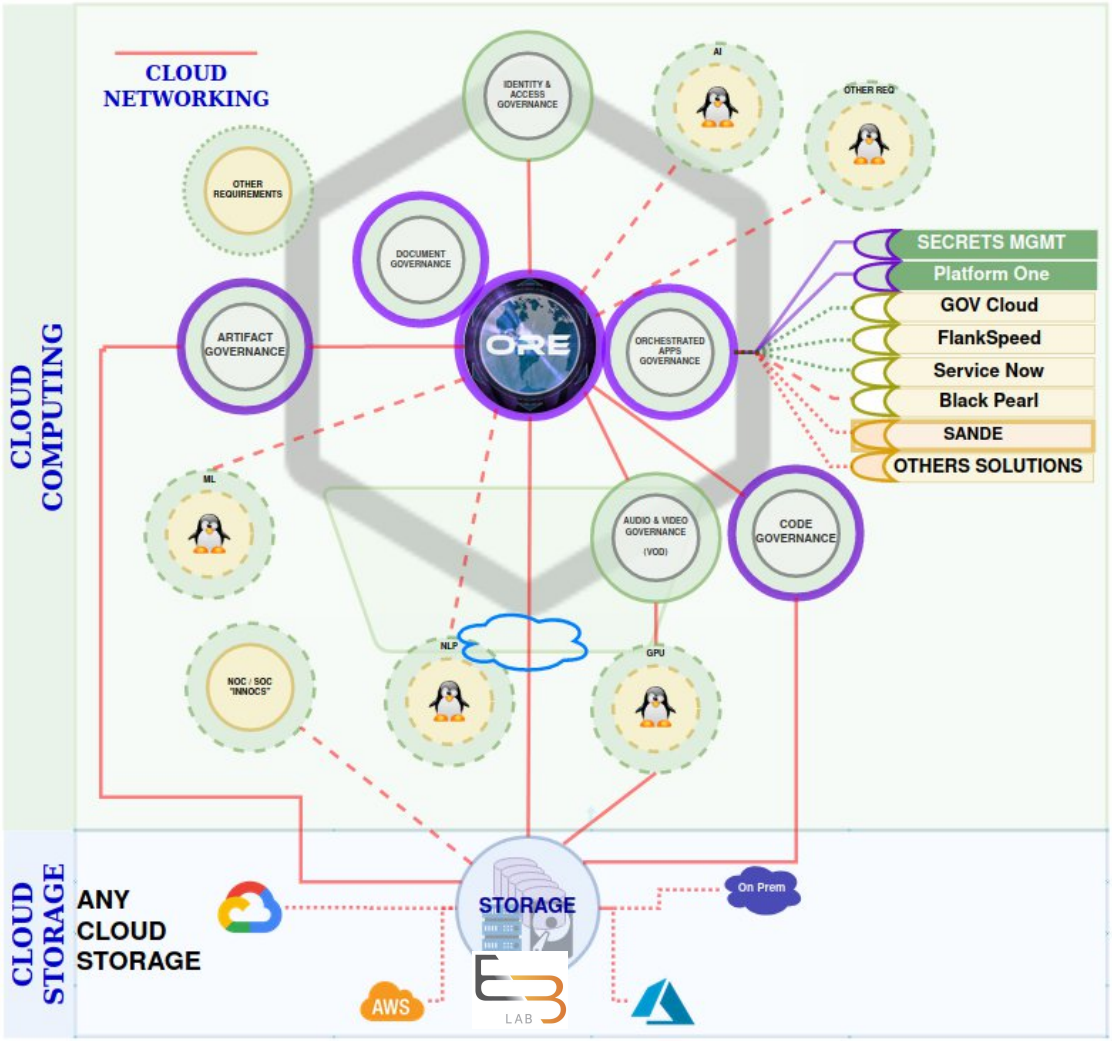
To connect the ORE to "SANDE", the solutions provider must simply provide the following...

1. Cloud native API consumable Zero Trust endpoint, i.e., secure TLS accessible web node to "SANDE" source code repository(ies)

Note: *NDP ORE preference is to integrate over TLS 1.3 endpoints, but if that is not possible, we do support several alternative legacy secure application data transport options.*

2. Solution service providers' preferred solution approach to credentials management for synchronization (i.e. keys, username-password, certs, tokens, etc)





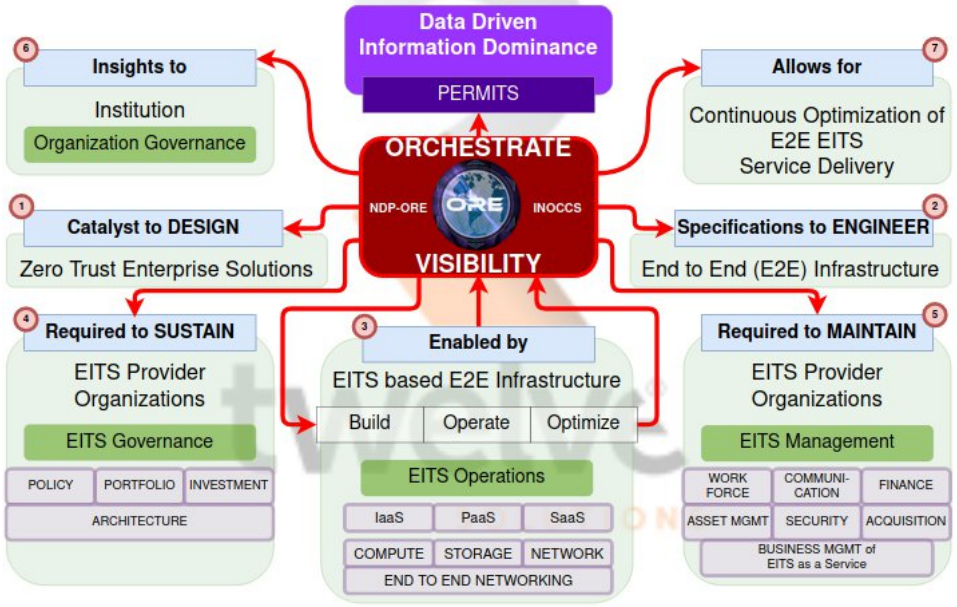
ORE : Governance Guidance Oversight for Organizational Maturity

Phase 1: (Task Order 1)
- **Integration:** Connecting Enterprise IT Solutions
- **Synchronization:** Syncing Asynchronously Relevant Data
- **Operation:** Verifying Validity

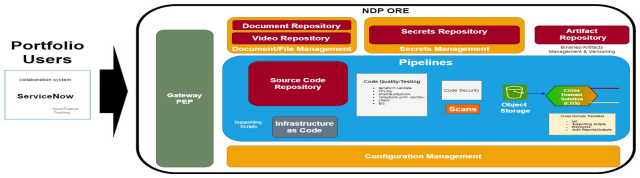
Phase 2:
- **Utilization:** Leveraging Work Products
- **Contribution:** Sharing Transparently
- **Democratization:** Collaborating for Transformation

Phase 3 (During Phases 1 & 2):
- **Supervision:** Providing Relevant Information to Stakeholders
- **Iteration**: Ingesting New Data, Analyzing and Delivering Insights
- **Optimization:** Calculating effectiveness and efficiency for the establishment, evaluation & elimination of functional roles, processes, and technologies

Governance Guidance Oversight Feed Back Loop

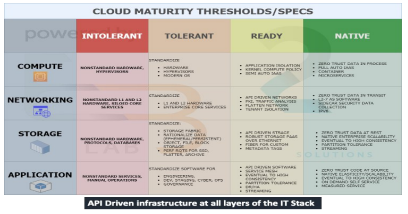


People (IT Workforce) Maturity



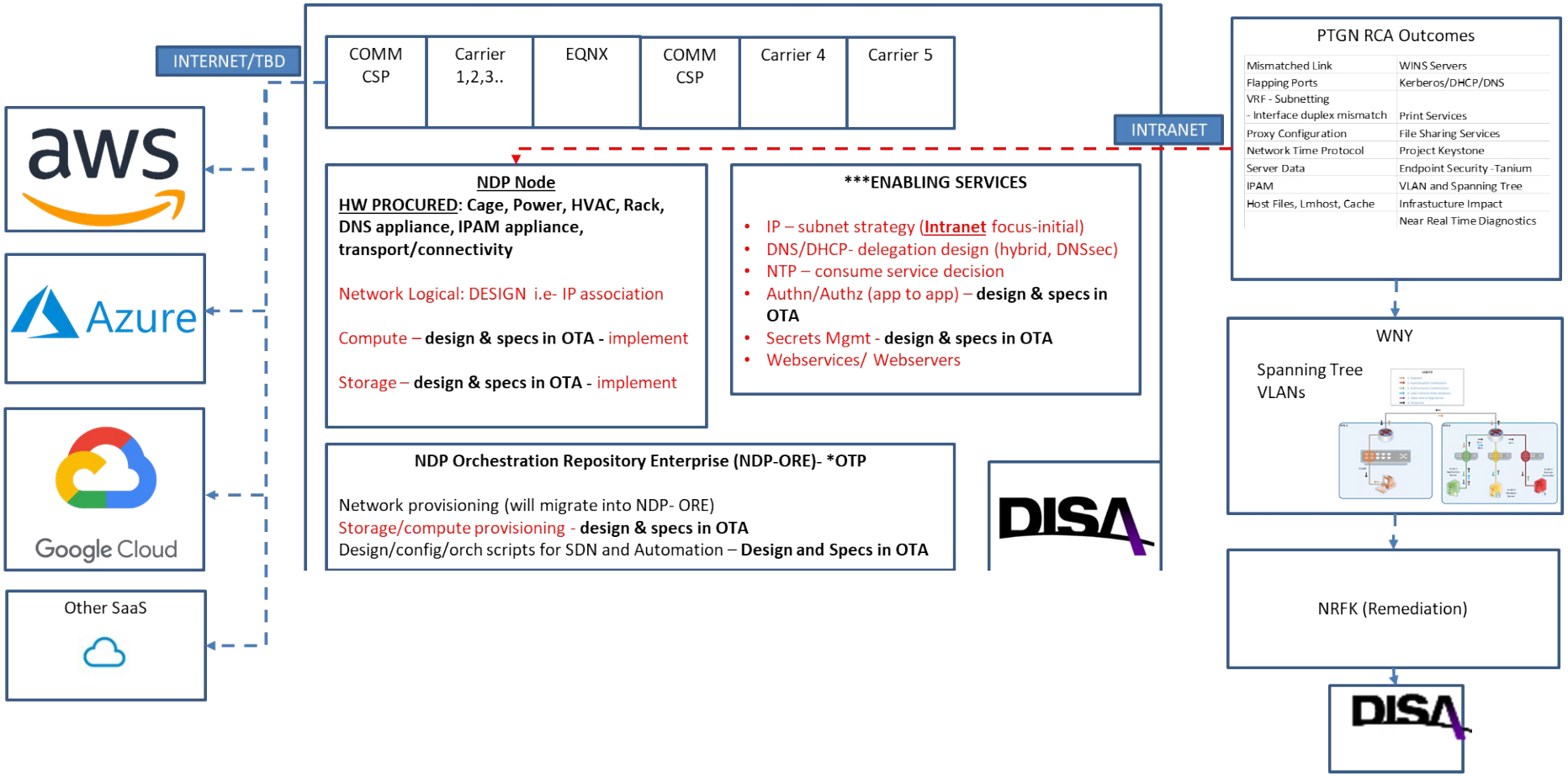
Process Maturity

Technology Maturity



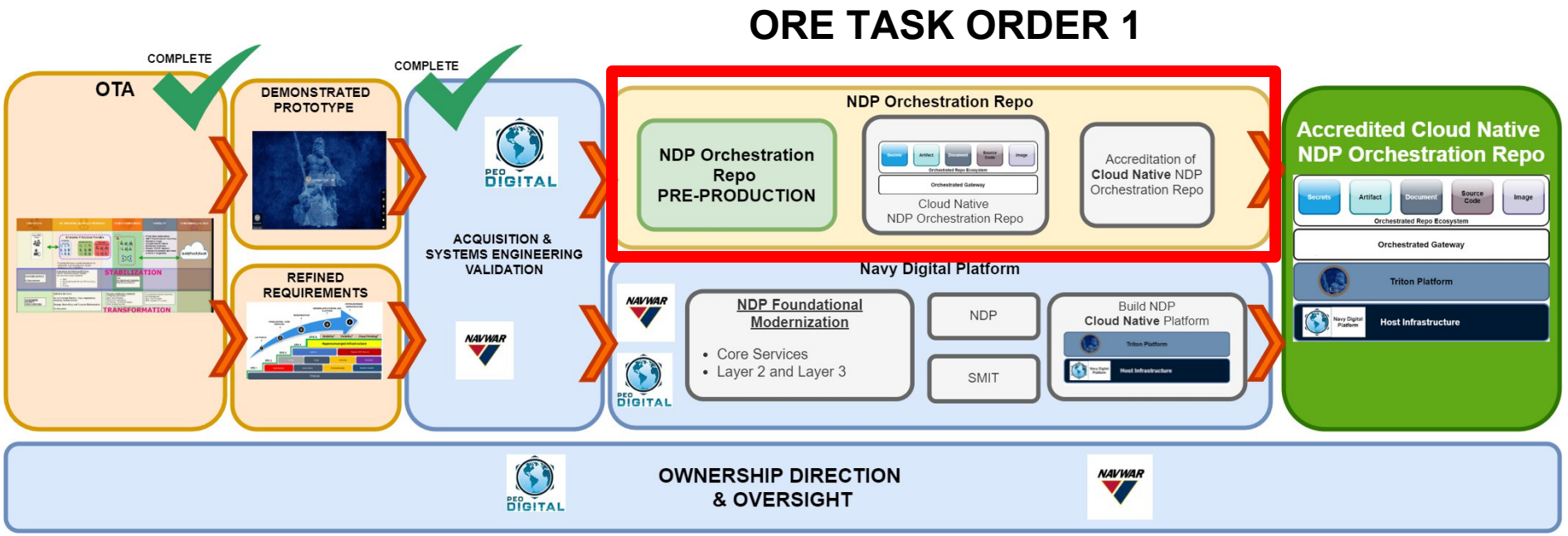
ORE Pipelines enable the IT Lifecycle

NDP Platform Critical Assumptions



The ORE will depend on NDP for the core enabling services as well as cloud native storage, compute, networking provided by the NDP teams.

OTA to Cloud Native Orchestration Repo



Assumptions

- Specs provided in the prototype for the core enabling services, as well as storage, compute, networking in cloud native states are under development by other NDP teams.
- Templates of functional code will be stored in the ORE once completed.