



# NIAC

13 December 2000

Naval Collaborative Engineering Environment  
Directorate (NCEE)  
Dr. Harry Crisp



# Outline

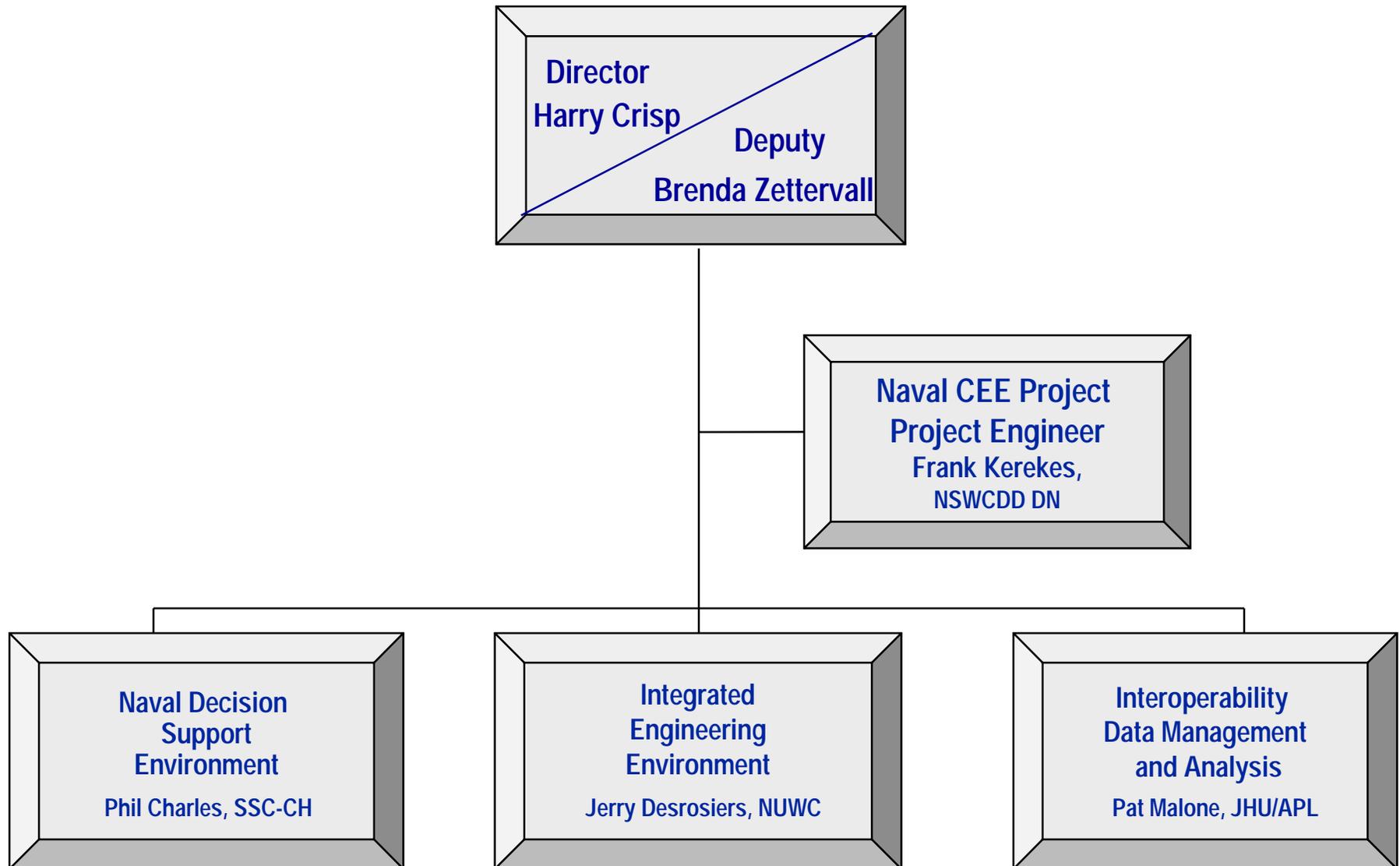
**RDA**  
**CHIEF**  
**ENGINEER**

- ◆ Organization and Role
- ◆ Approach and relationship to NMCI
- ◆ CONOPS and Naval CEE Elements
- ◆ Key Relationships
- ◆ Products, Activities & Initiatives
- ◆ Next Steps



# Naval Collaborative Engineering Environment

RDA  
CHIEF  
ENGINEER





# Naval CEE Central Role

RDA  
CHIEF  
ENGINEER

- ◆ Engine to accomplish processes and activities described by the MAC and Directors
  - Integration & Interoperability information sharing
  - Integrated toolsets
  - Architecture repositories
- ◆ Support PEOs and PMs in meeting DoN integration and interoperability requirements
- ◆ Naval CEE will enable ---

“... a process that assures that component systems are engineered and implemented to operate coherently with other systems or part of a larger force.” (ASN(RDA) memo of April 13, 1999)



# Naval CEE Benefits

**RDA**  
**CHIEF**  
**ENGINEER**

- ◆ Provides collaborative program management capabilities to maximize information flow, facilitate work flow and enhance decision making process
- ◆ Promotes collaboration and commonality across all stakeholder viewpoints
- ◆ Enables integration and interoperability within and across fighting units through knowledge sharing
- ◆ Supports development of the “what if” solutions as missions evolve and new capabilities are added

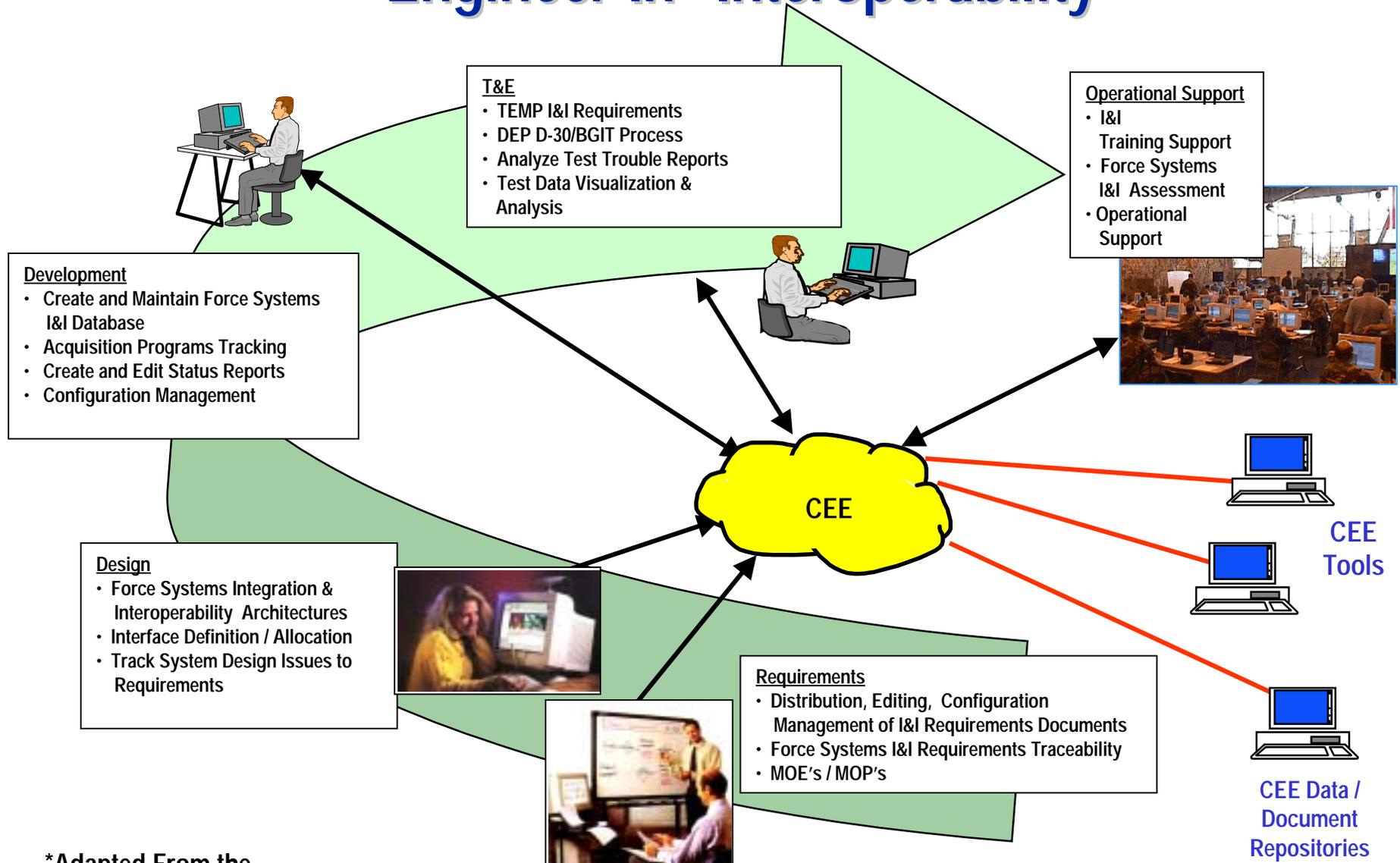


# Naval CEE Approach

RDA  
CHIEF  
ENGINEER

- ◆ Enable both business process and engineering capabilities
- ◆ NMCI compliance
  - Discussions with CDR Feldman (Operations, N/MCI Intranet Services)
  - Strategy for migration to NMCI services
- ◆ Leverage existing infrastructure (SE facilities; M&S; Range facilities)
- ◆ Utilize readily available architecting, system engineering tools
- ◆ Work jointly with SEA 53, SIAP SE, N81

# Naval CEE CONOPS \* "Engineer-In" Interoperability



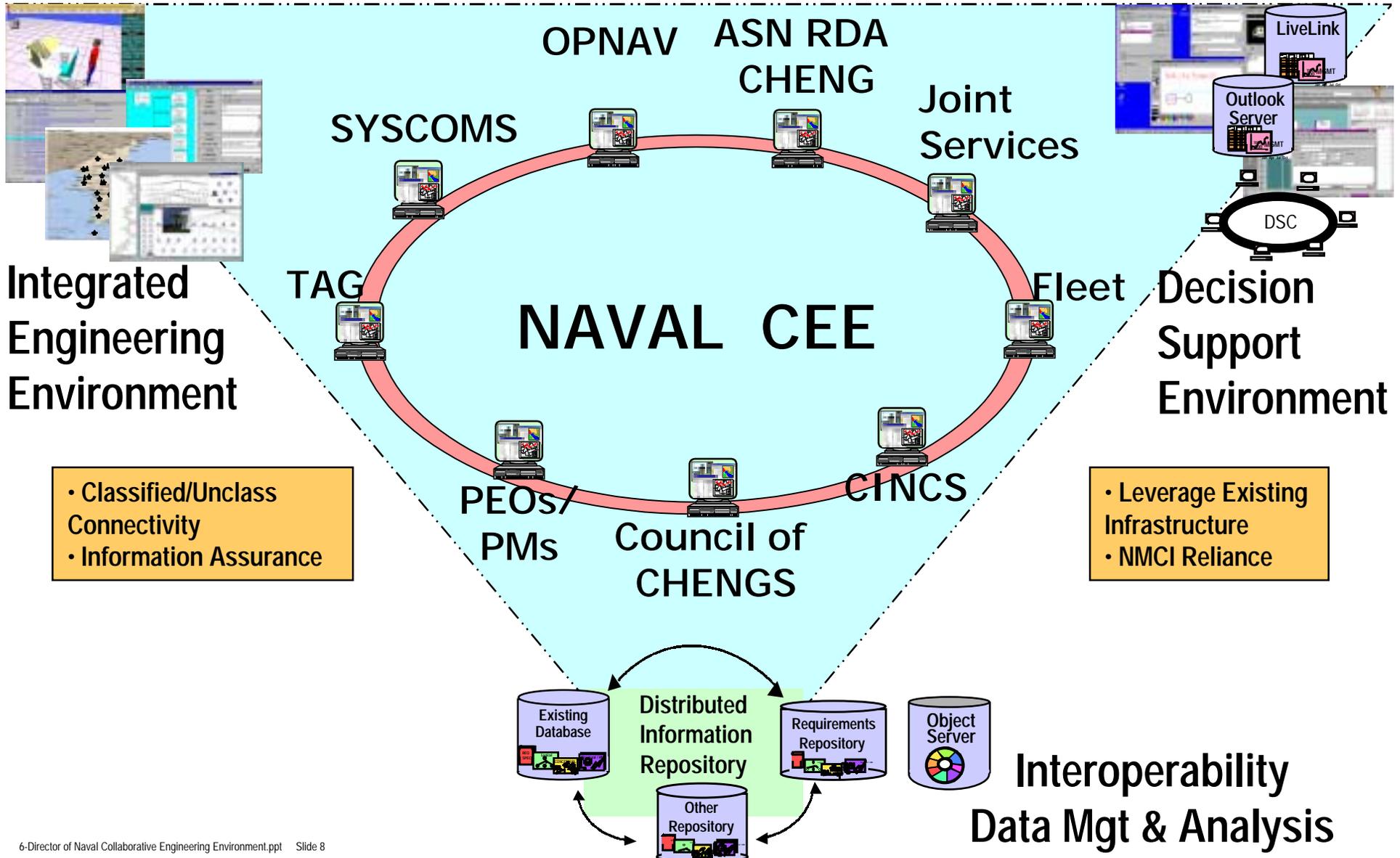
\*Adapted From the  
JDEP Report, 20 Oct 99

Supports Full System Acquisition Life-Cycle



# Naval CEE Elements

RDA  
CHIEF  
ENGINEER





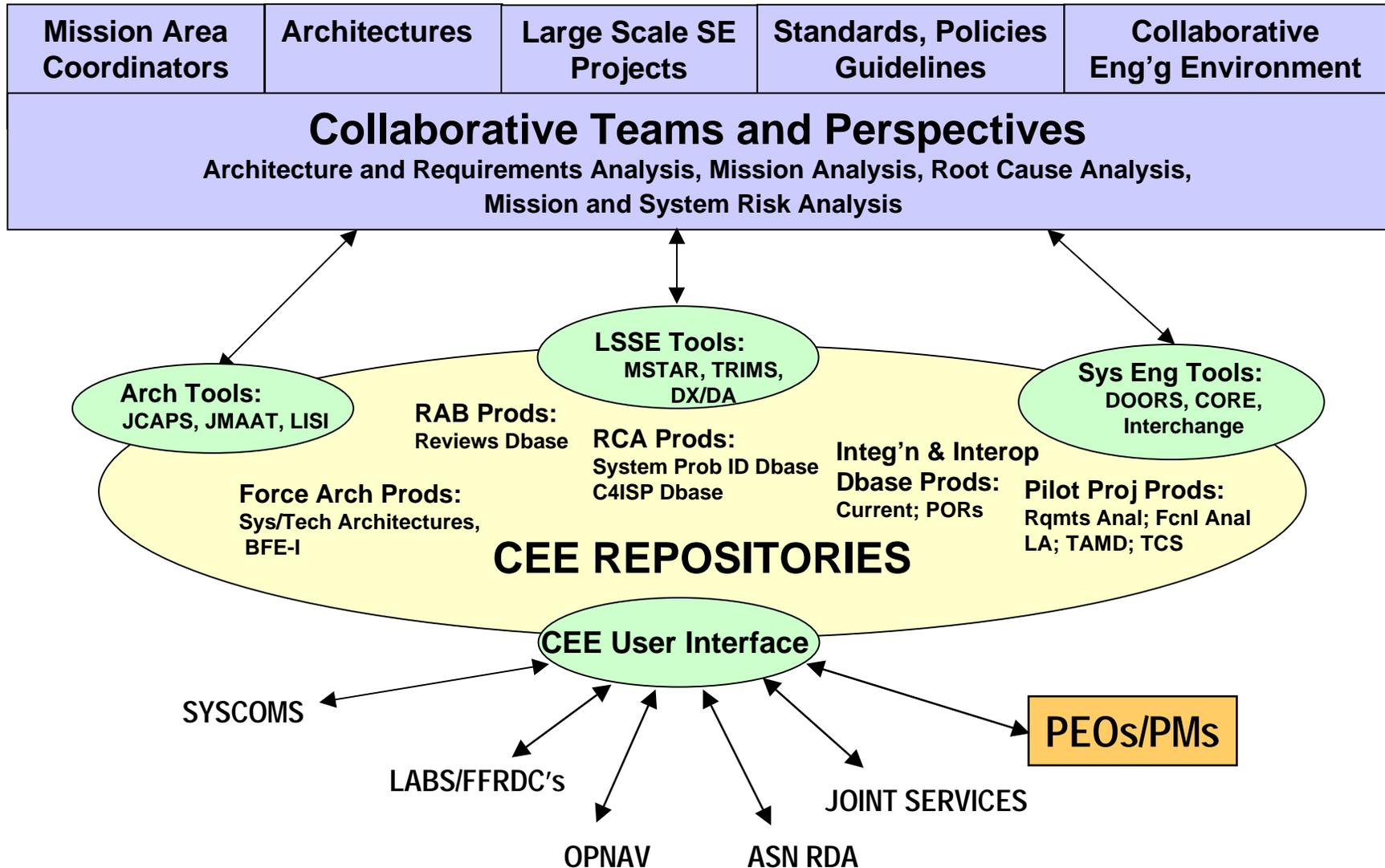
# Naval CEE Key Relationships **RDA CHIEF ENGINEER**

- ◆ PEO's / PM's, SYSCOMS, DEP for unit / system data to support force architecture descriptions and engineering analyses.
- ◆ N81, SEA 53, SIAP SE, JDEP for information/data underlying force systems engineering process and key products.
- ◆ LABS / FFRDC's, Industry for PEO / PM certified data and products to support force systems engineering activities.



# Naval CEE Uses / Products

**RDA  
CHIEF  
ENGINEER**





# Products, Activities & Initiatives

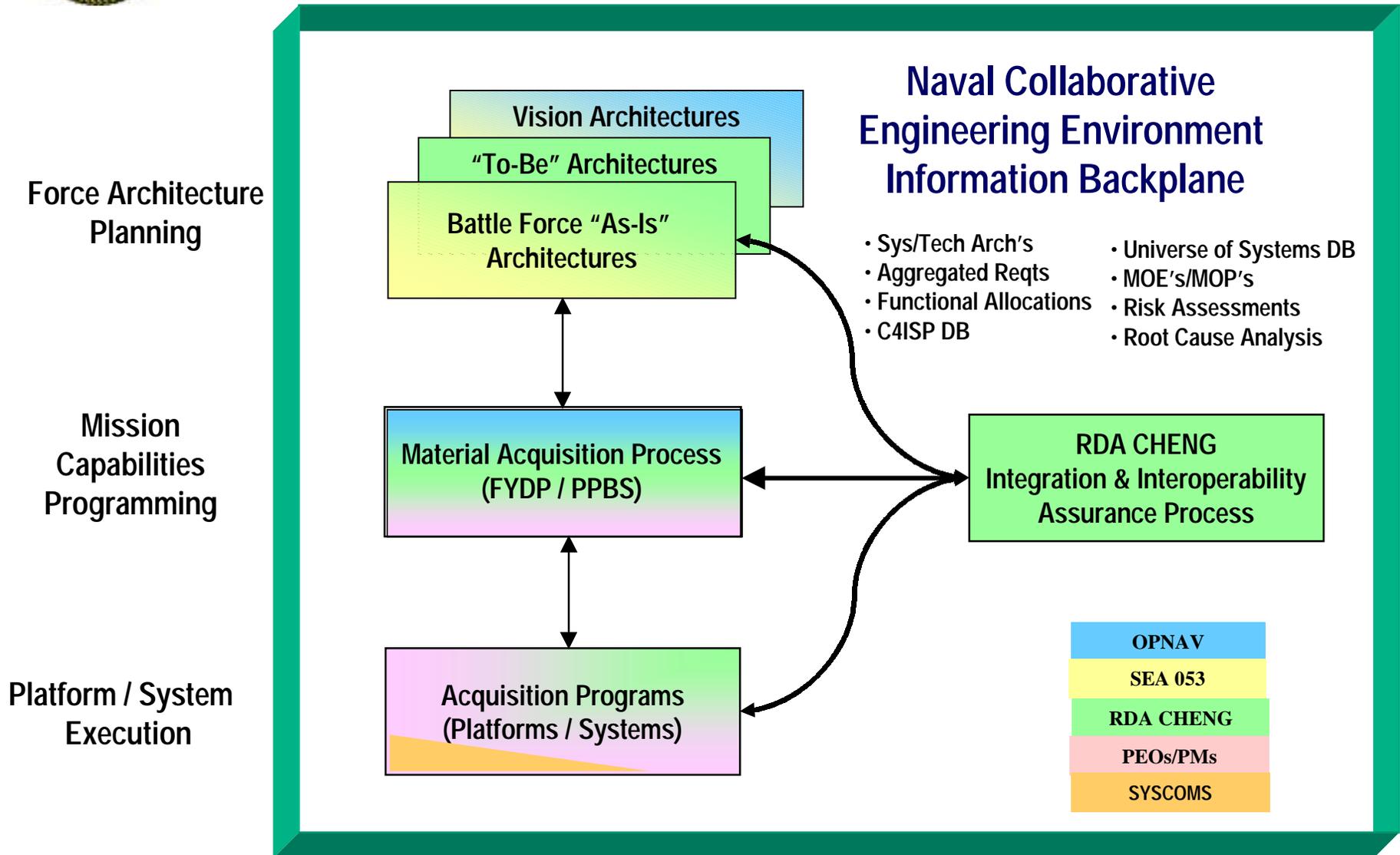
**RDA  
CHIEF  
ENGINEER**

- ◆ **Naval CEE Requirements Definition**
  - Terms of Reference; CONOPS
  - NAVAL CEE Use Cases
  
- ◆ **FY00 Initial Capabilities**
  - Livelink; Netmeeting; DOORS/CORE/Interchange
  
- ◆ **Interim CEE - 30 Nov 00**
  - Decision Support Center; Architecting Tools; SE Tools; SIPRNET (Feb 01)
  - Human Centered Design Environment
  
- ◆ **Operational CEE - 30 Mar 01**
  - Decision Support Environment; Integrated Engineering Environment; Interoperability Data Base Management and Analysis



# Naval CEE Data Repositories

RDA  
CHIEF  
ENGINEER





# Naval CEE Next Steps

**RDA  
CHIEF  
ENGINEER**

- ◆ Establish cross-functional IPT to define information and data required to support force architecture descriptions and engineering analyses
- ◆ Establish mechanisms to provide for secure access and protection of information and data
- ◆ Establish work flow processes to support collaborative program management and force systems engineering