

# **FEDERAL ENTERPRISE ARCHITECTURE (FEA): FEA and Strategic Planning of US eGov**

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**BAE SYSTEMS**



## FEAC<sup>™</sup> Institute Background

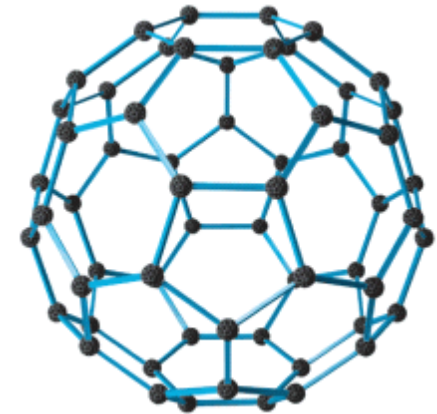
- The FEAC Institute was the first organization providing EA education and certification
- FEAC was founded in 2001 and has certified over 1000 enterprise architects
- Many Architects of large organizations and Government Agencies are FEAC Certified Enterprise Architects (CEA)s
- FEAC has also trained several thousand additional architects in its short courses in government enterprise architectures

# Enterprise Architecture

## What is it?

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- ❑ Enterprise Architecture (EA) is used to look at the Department and Agencies from different angles and perspectives
- ❑ EA helps us interrelate governance and technology with program visions providing a cohesive management plan
- ❑ EA is a strategic information asset base, which defines the mission, the information and technology necessary to perform the mission, and the transitional processes for implementing new technologies in response to the changing mission needs



# Enterprise Architecture Integrated Program

~ Enterprise Architecture, Capital Planning, Portfolio & Project Management are capabilities that enable Department organizations to operate more efficiently ~

## Enterprise Architecture

- Target Business Architecture/Transition Plan
- Linkage between IT investments and business functions

## Capital Planning Investment Control

- Selection across groups of individuals
- Strategic alignment
- Prioritization
- Consistent decision making
- Maximize investment value

## Project Management

- Control within individual investments
- Data needs, standards, quality
- Project tracking and analysis (i.e. ROI)
- Content for Capital Planning and EA

### Evaluate

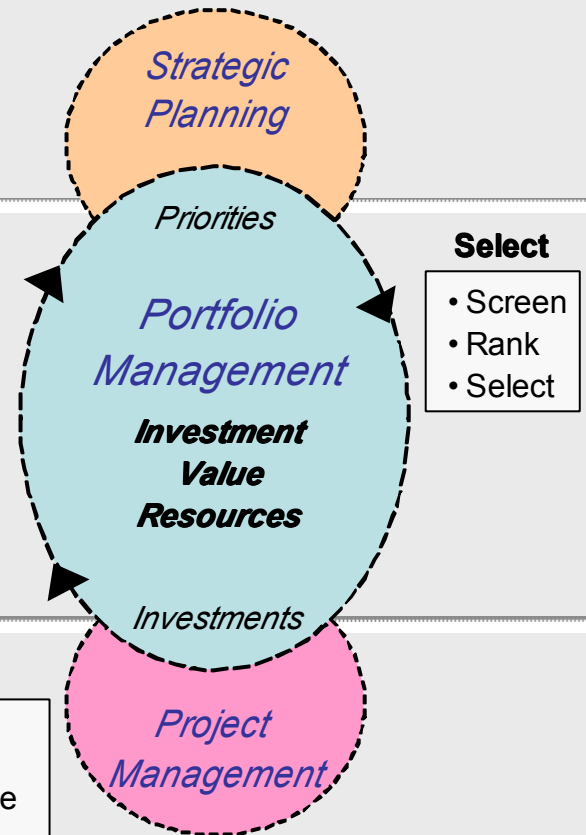
- Conduct Reviews
- Make Adjustments
- Apply Lessons Learned

### Select

- Screen
- Rank
- Select

### Control

- Monitor Progress
- Take Corrective Action

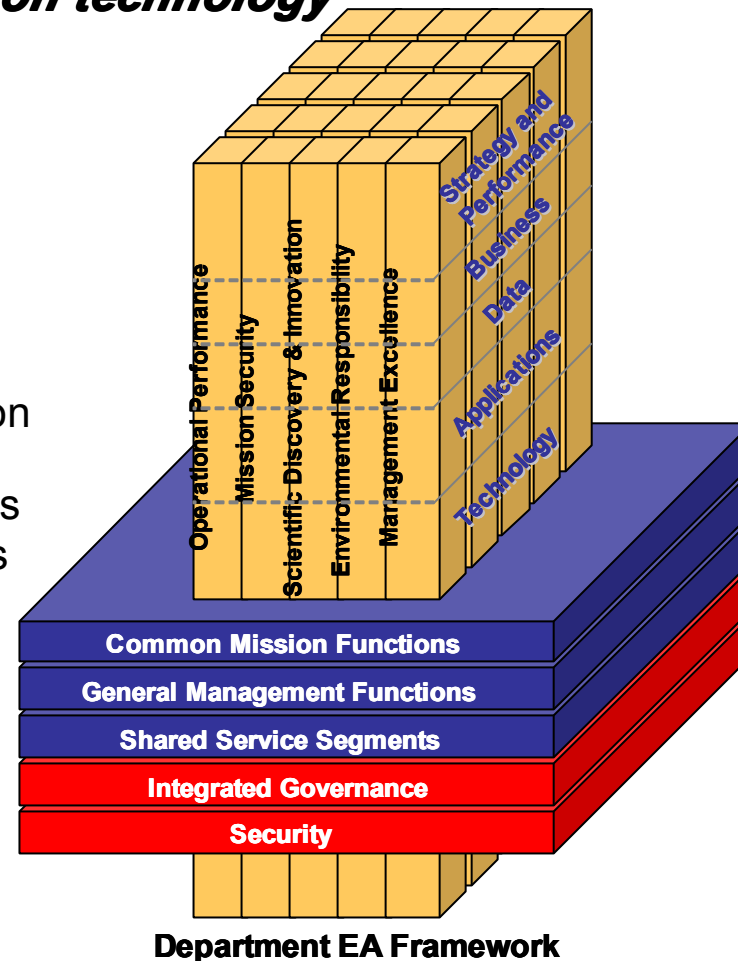


# Enterprise Architecture Relationships

*~ Enterprise Architecture manages the relationships between business and information technology ~*

## Requirements for an EA

- Clinger-Cohen Act (ITMRA)
  - Requires development of an EA
  - Assigns responsibility to CIO
- OMB Requirements
  - Use or create an EA Framework
  - Develop and use an EA to identify the Business, Performance, Data, Application and Technology aspects of an Agency
  - Use the EA to guide IT investment efforts
  - Update the EA when significant changes occur
- Federal CIO Council Guidance
  - Federal EA Framework
  - Federal Transition Framework
  - OMB EA Assessment Framework
- Department Guidance
  - IT Strategic Plan
  - Capital Planning Guide



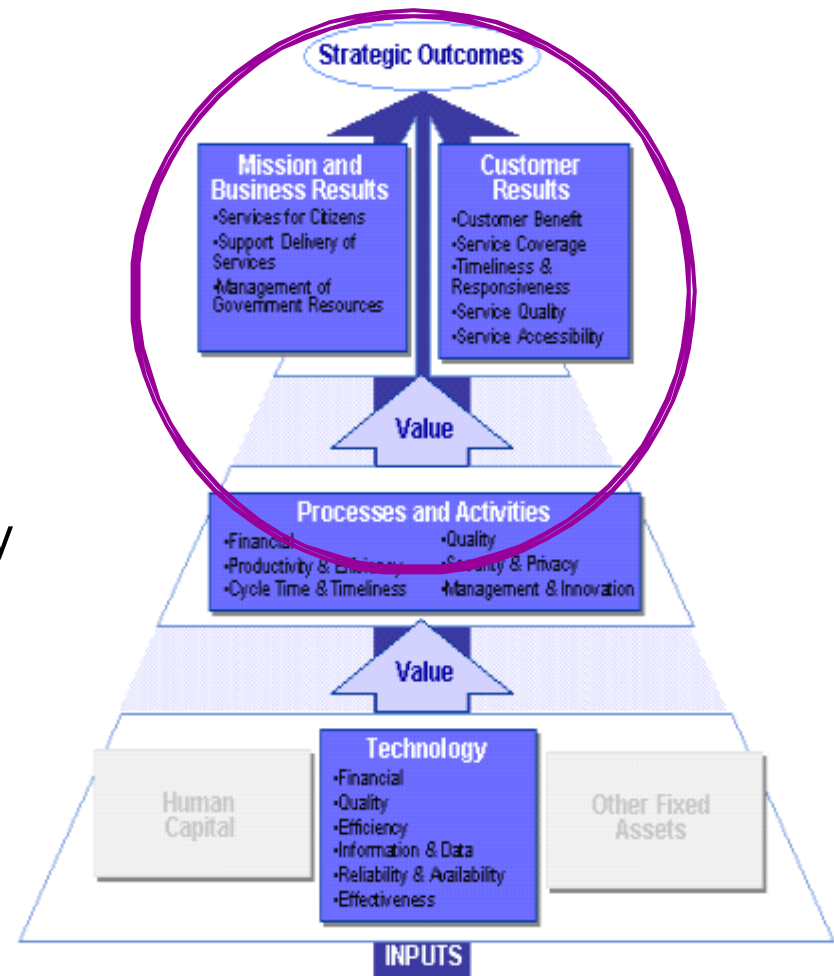
# EA Provides Knowledge Management for Improved Performance & Mission Results

EA Programs helps senior leadership become more:

- Strategic Focused,
- Risk Aversive,
- Performance Managed, and
- Decision Oriented.

Making organizations more effective in performing the business. Aligning IT investments with business priorities. And improving business and technology optimization for mission success.

- It's a Strategic Information Asset
- It's a Risk Management Tool
- It's a Performance Management Tool
- It's a Decision Support Tool



## **Challenge For Departments: Demonstrating Effectiveness while Improving the Current State**

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- ❑ As an organization develops more integrated systems, complexity increases and the need to provide more enterprise-wide coordination, management and security increases.
- ❑ The Office of Management and Budget (OMB) requires agencies to demonstrate sound and effective utilization of more than \$64 billion spent on Information Technology government-wide each year.



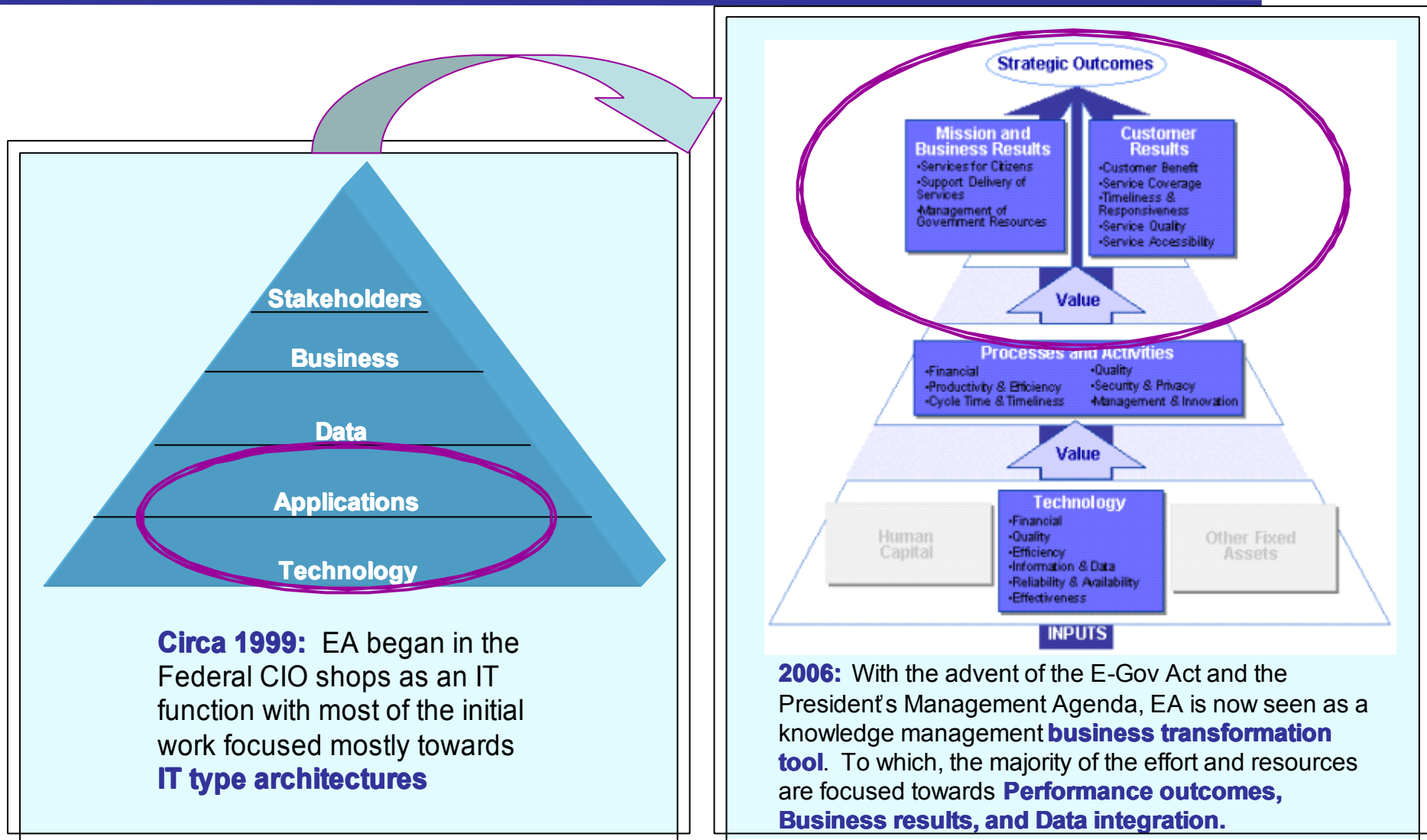
## Overlap & Gaps in Critical Government Functions is Extensive\*

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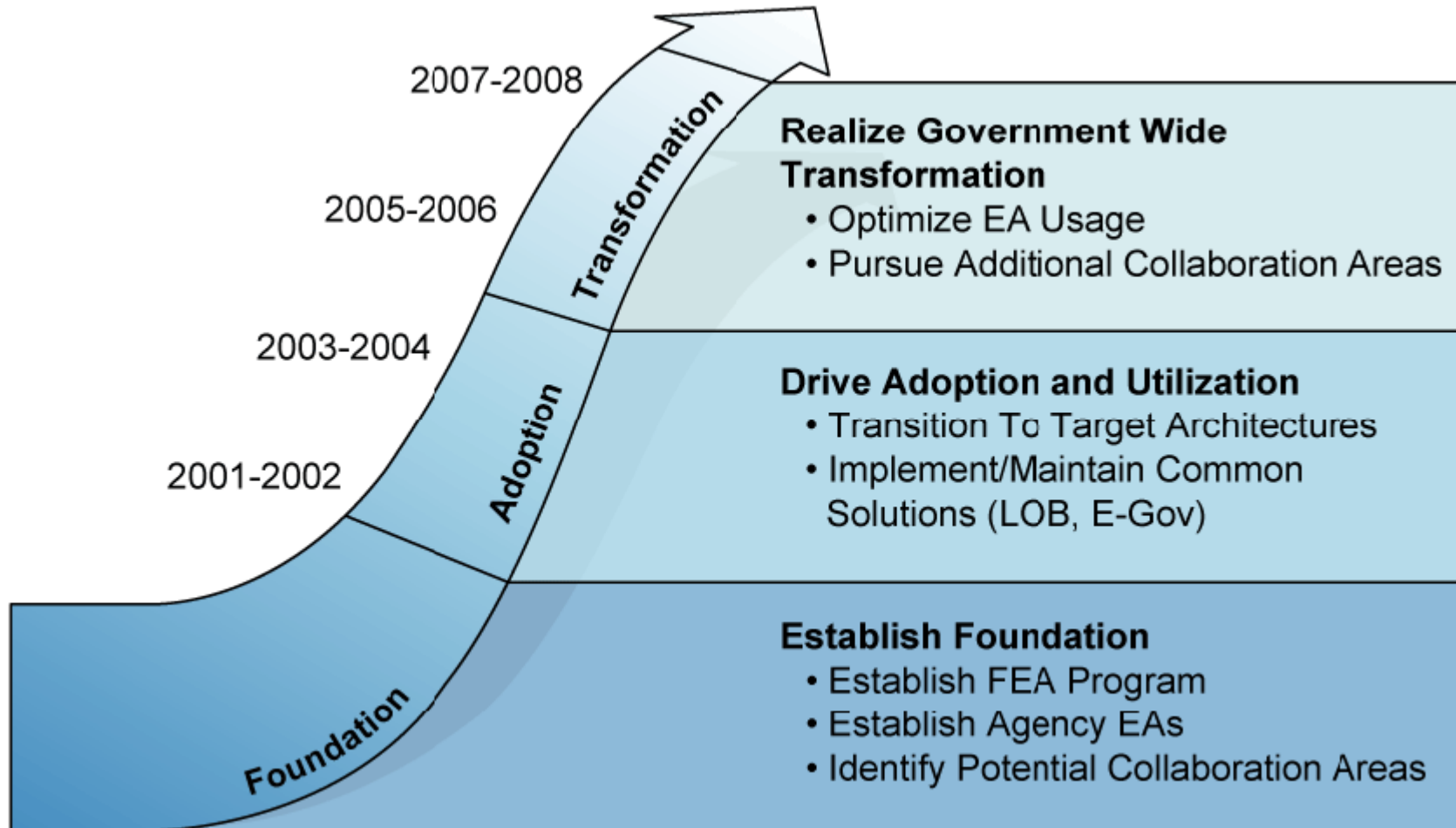
- 8 50 agencies implement Federal drug control strategies
  - ✎ 29 agencies administer 541 clean air, water, and waste programs
- 8 23 agencies administer 200 programs that provide assistance to countries formerly part of the Soviet Union
  - ✎ 13 agencies administer 342 Federal economic development-related programs
- 8 17 agencies operate a total of 515 federal R&D laboratories with 88% of the funding within four agencies
  - ✎ 5 agencies have spent nearly \$1 billion in support of 12 international environmental agreements with major differences in spending and scope
- 8 9 agencies administer 27 teen pregnancy programs
  - ✎ 8 agencies administer 50 different programs to aid the homeless
- 8 7 agencies administer 40 different job training programs
  - ✎ 11 agencies administer 90 early childhood programs



# Evolution of FEA and E-Gov Focus



# FEA Roadmap to Government Transformation



Source: OMB FEAPMO

## **The Federal Enterprise Architecture (FEA) cuts across the Federal Government and opportunities to collaborate, consolidate, and leverage IT investments are being developed as E-Gov initiatives and LoBs**

- ✓ The FEA is providing the Office of Management and Budget (OMB) and Federal agencies with a new way of describing, analyzing, and improving the Federal Government and its ability to serve the citizen
- ✓ The FEA will eliminate the organizational obstacles that have historically hindered improvement without forcing reorganizations
- ✓ The FEA is a business-focused approach and is not just planning IT
- ✓ The FEA provides a common framework for improving a variety of key areas:
  - Budget allocation
  - Horizontal and vertical information sharing
  - Performance measurement and budget performance integration
  - Cross-agency collaboration
  - Improved service to the citizen
  - e-Government
  - Service Component Based Architecture

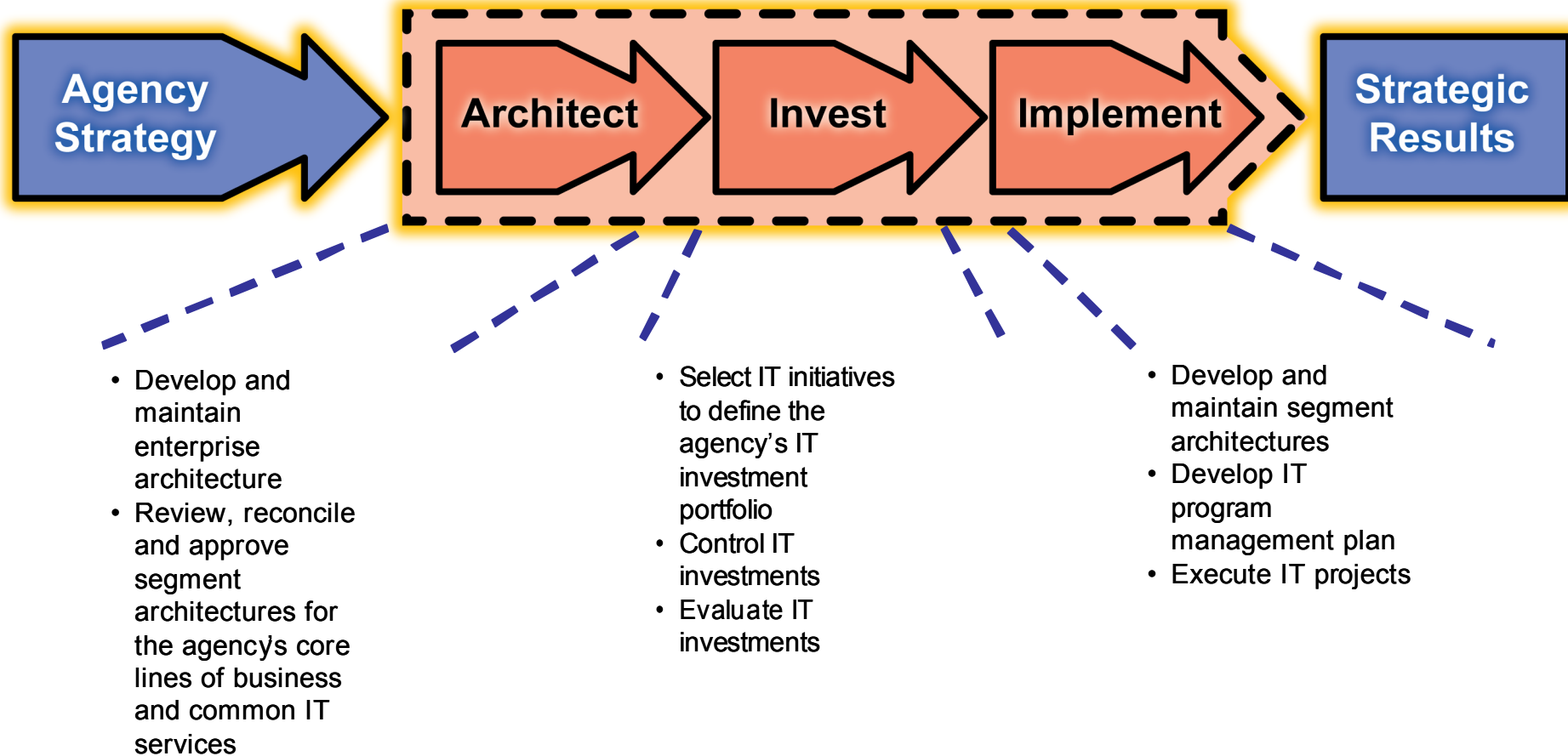
Source: Federal EA Program Management Office ([www.e-gov.gov](http://www.e-gov.gov))





# Performance Improvement Lifecycle

## Performance Improvement Lifecycle





# FEA Reference Models

Business-Driven Approach

Component-Based Architecture

## **Performance Reference Model (PRM)**

- Inputs, outputs, and outcomes
- Uniquely tailored performance indicators

## **Business Reference Model (BRM)**

- Lines of Business
- Agencies, customers, partners

## **Service Component Reference Model (SRM)**

- Service domains, service types
- Business and service components

## **Data Reference Model (DRM)**

- Business-focused data standardization
- Cross-agency information exchanges

## **Technical Reference Model (TRM)**

- Service component interfaces, interoperability
- Technologies, recommendations

- Provides a common language for defining performance, business processes, information, services (capabilities) and technologies (products)
- Defines relationships between related elements in an architecture (*processes, services, information and technology*)
- Standardizes evaluation criteria for selecting vendor products and services

**Thank you... Now  
any questions?**



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**FEAC Institute – Thank You! ... Now any more questions?**

