

***Industry Advisory Council's
Enterprise Architecture
Shared Interest Group
(IAC EA SIG)***

**LIFT EA: Health Care Information
Sharing Environment Pilot**

Kick-off Meeting

Agenda

- Purpose of the Healthcare IT pilot
- Information Sharing Key Concepts
- Background
- Initiatives at the Various Government and Non-Government Organizations
 - CAPT Mary Forbes – HHS
 - Soori Kani - FHA
- Schedule for the Working Group
- Next Steps for the Working Group

Purpose of Healthcare pilot

- Part of the LIFT EA initiative that focuses on Leveraging, Integration, Focusing and Transferring of concepts between and among the federal, state, and local government with industry and standards participation
- Phase 1
 - Gather Information on Healthcare IT Initiatives
 - Identify Information Sharing issues/challenges
 - Document agencies progress to date
 - Provide Lesson Learned/Best Practices in the various health organizations in terms of information sharing
- Phase 2 (TBD)
 - Determine if the timing is right to develop a Healthcare Information Sharing Environment Profile
 - Develop a common profile that addresses the transport mechanisms along with the domain specific security and privacy policies (if appropriate and has OMB's backing)

Information Sharing Key Concepts

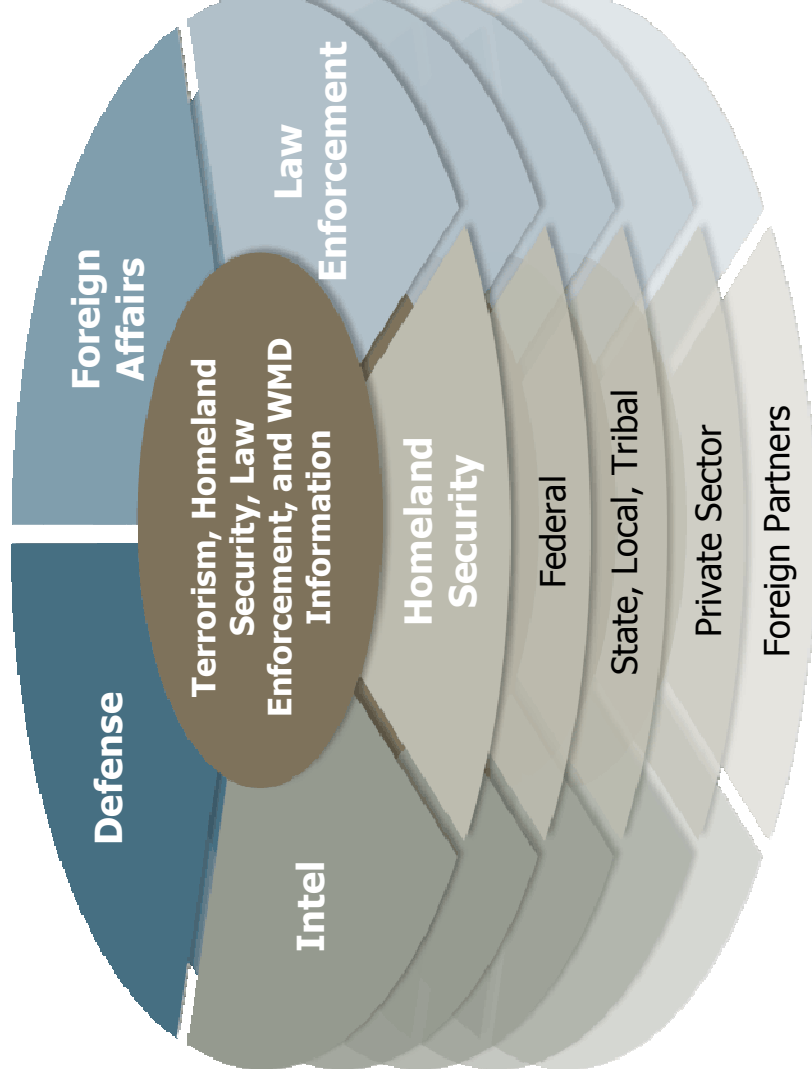
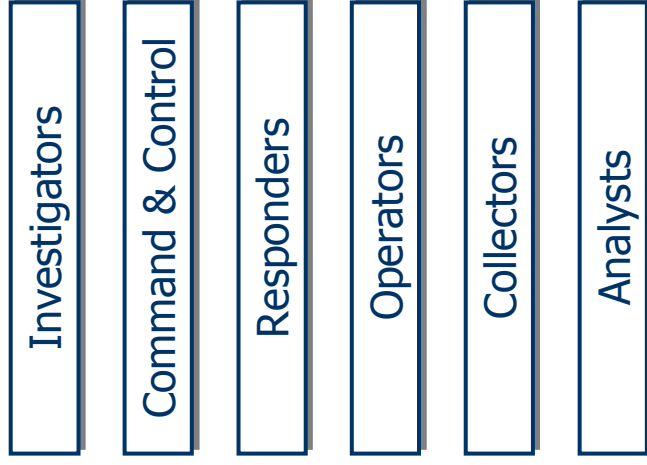
- **Responsibility to Provide – DNI**
 - Information Sharing Steering Committee (ISSC) – March 2007
- **Ability to “Know What We Know.” – DOJ**
 - ...and let others know what we know
 - Law Enforcement Information Sharing Program (LEISP) – FY’04
- **Net-Centricity – DOD**
 - DOD Information Sharing Strategy - May 04, 2007
 - Global Information Grid (GIG) – September 19, 2002
- **Global Initiatives**
 - Intelligence-Led Policing
 - National, integrated network of Fusion Centers
- **DHS Information Sharing Strategy**

Background

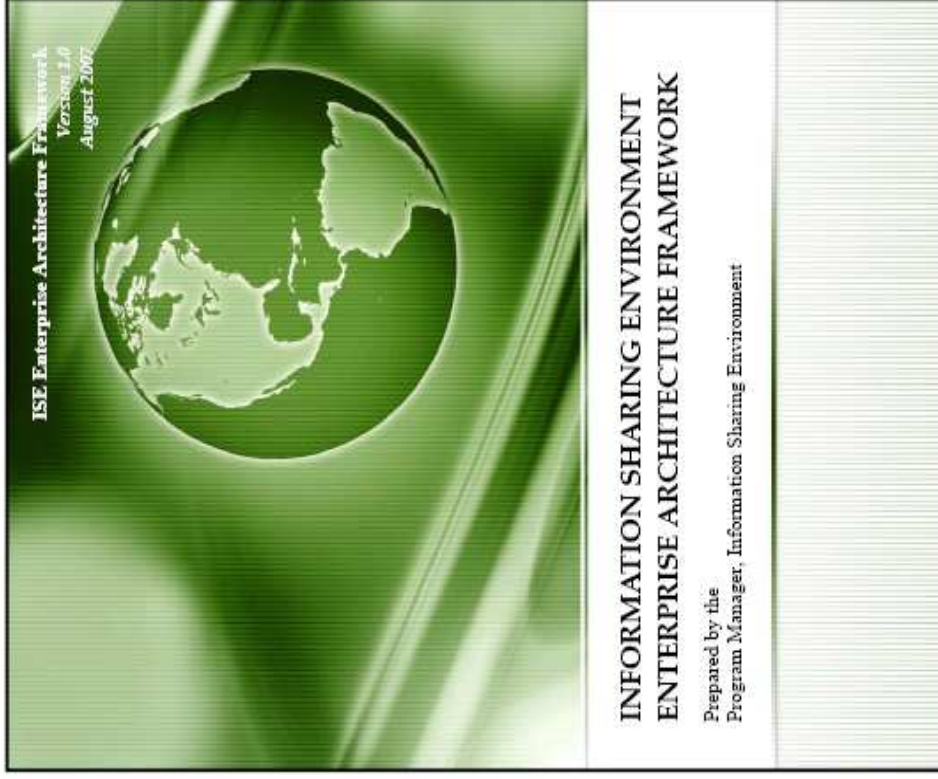
- Who is ISE?
- PM-ISE Profile on Information Sharing
- FEA Profile on Information Sharing
- Use of ISE EAF and FEA ISE Profile
- Standards

Who is the ISE?

- Multiple Communities of Interest
- Multiple User Types
- Multiple Governmental and Non-governmental Entities



ISE Enterprise Architecture Framework



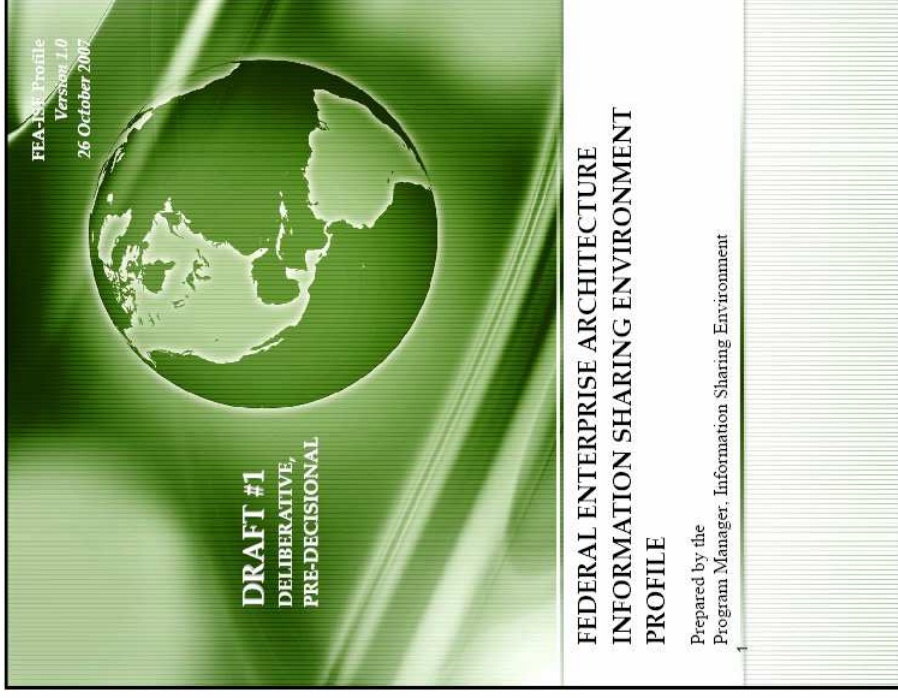
Version 1.0

- Provides a comprehensive, strategic description of the overall ISE architecture
- Establishes an architectural framework for implementing ISE capabilities
- Provides a lexicon of terms and information for implementing ISE capabilities
- Identifies key architectural decisions that have been made or must be made

www.ise.gov

www.actgov.org

FEA-ISE Profile, Version 1.0



- Purpose

- A companion document to the ISE EAF, Version 1.0 (released 30 Aug '07)
- Describes how agencies use existing resources, standards, best practices and use cases to implement ISE attributes and connect to the ISE
- Communicated compliance through OMB's Federal Transition Framework Catalog
- Current OMB Profiles
 - Security and Privacy
 - Geospatial
 - Records Management

Using the ISE EAF and FEA-ISE Profile

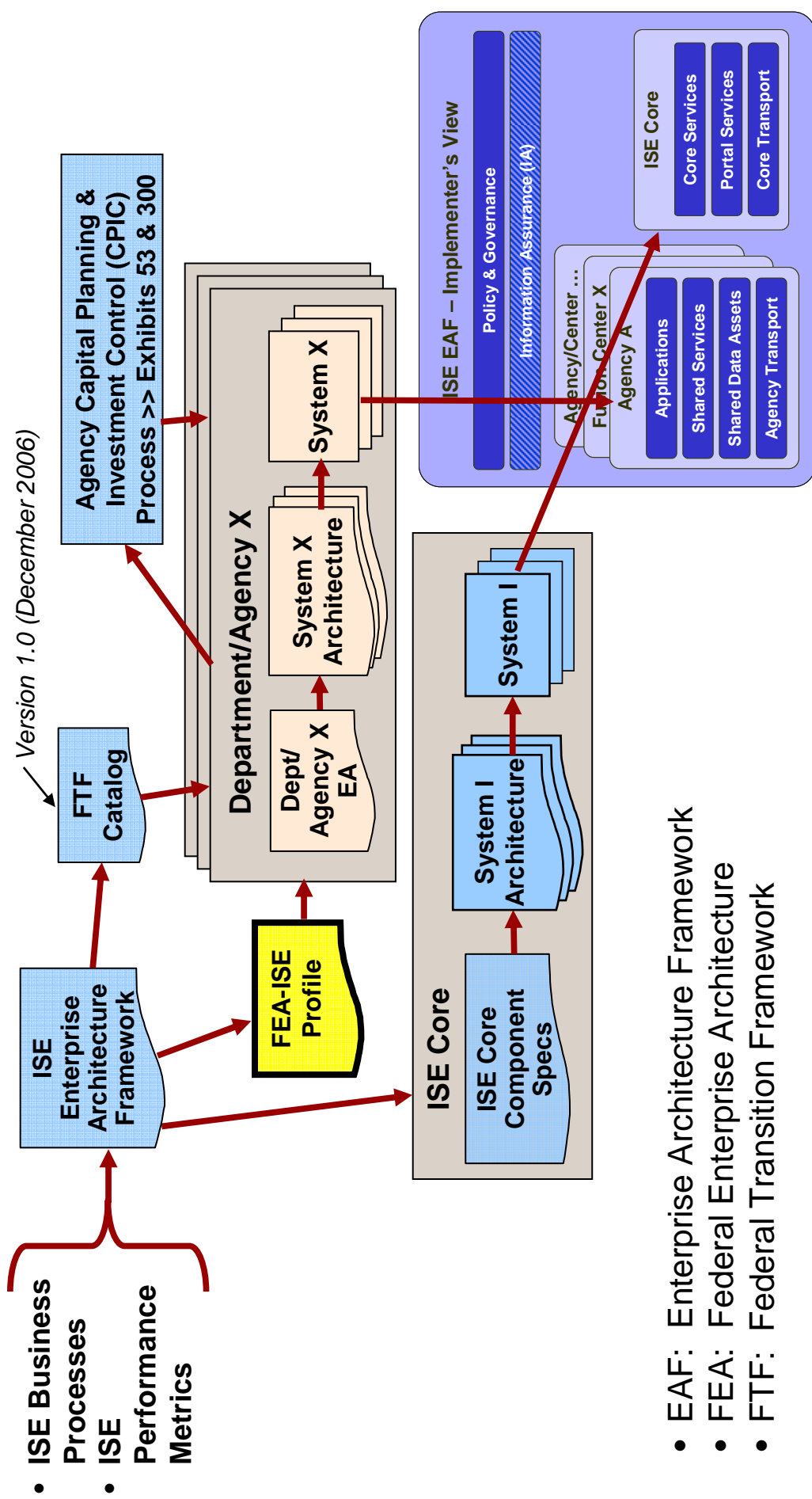


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- EAF: Enterprise Architecture Framework
- FEA: Federal Enterprise Architecture
- FTF: Federal Transition Framework

Initiatives at the various Government and Non-Government Organization's

What has been done so far on Information Sharing?

- What is in place for Information Sharing?
- Who are the stakeholders within inside the federal government? Outside?
- Where are the heavy-critical interfaces?
- Are there any special projects going on now?
- What are the values and business needs for Information Sharing?
- How are business agreements created?
- Does an Information Sharing Environment Vision and Strategy exist currently?
- What are the “special” issues?
- How does it fit with your Enterprise Architecture?
- What are your lessons learned?
- How that be leveraged?
- Where should we focus on improvement?

Standards Organizations

- Health IT Standards Panel (HITSP)
 - Interoperability specifications
 - o Electronic Health Record
 - o Bio-surveillance
 - o Consumer Empowerment
- International Health Terminology Standards Development Organization
- NIEM (Enables information sharing by focusing on the information exchanged among organizations as part of their current or intended business practices)
- HL7 (Standards for the electronic interchange of clinical, financial, and administrative information among health care oriented computer systems)

VA and DOD

- Federal Health Information Exchange (FHIE)
- Bidirectional Health Information Exchange (BHIE)
- Clinical Data Repository/Health Data Repository (CHDR)
- Laboratory Data Sharing and Interoperability (LDSI)

National Institute of Health (NIH)



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- caBIG (Cancer Biomedical Informatics Grid)
 - Network to freely connect the entire cancer community

Other areas

- Bi-directional Health Protocol : DOD to VA
- Medicare and Medicaid
- Food Safety Lines of Business

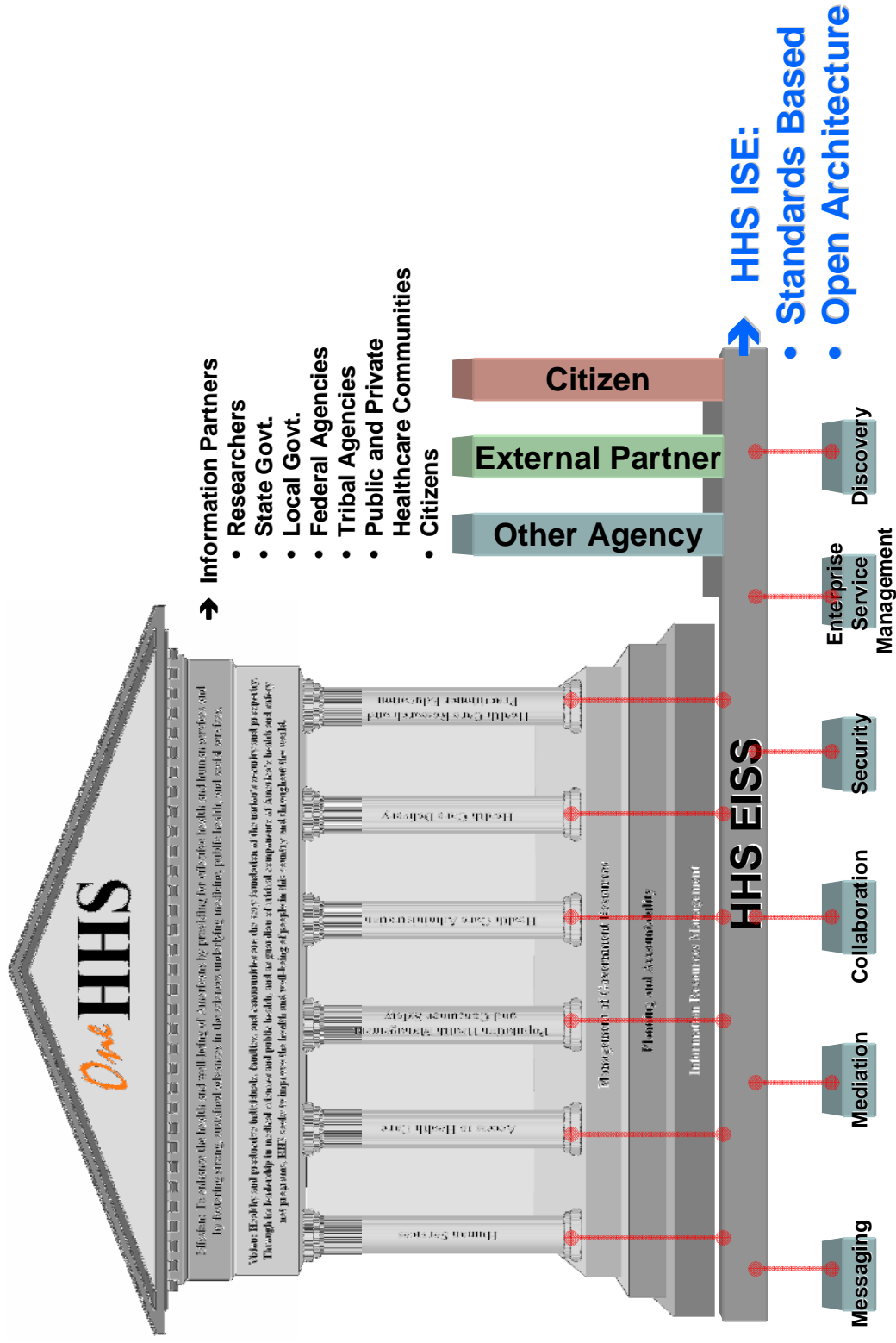
Private Sector

- Protected Critical Infrastructure Information (PCII) Program
 - Information-protection program that enhances information sharing between the private sector and the government. Used by DHS and other federal, state, and local analysts.
- InfraGard
 - A partnership between the Federal Government, an association of businesses, academic institutions, State and local law enforcement agencies, and other participants dedicated to sharing information and intelligence to prevent hostile acts against the United States

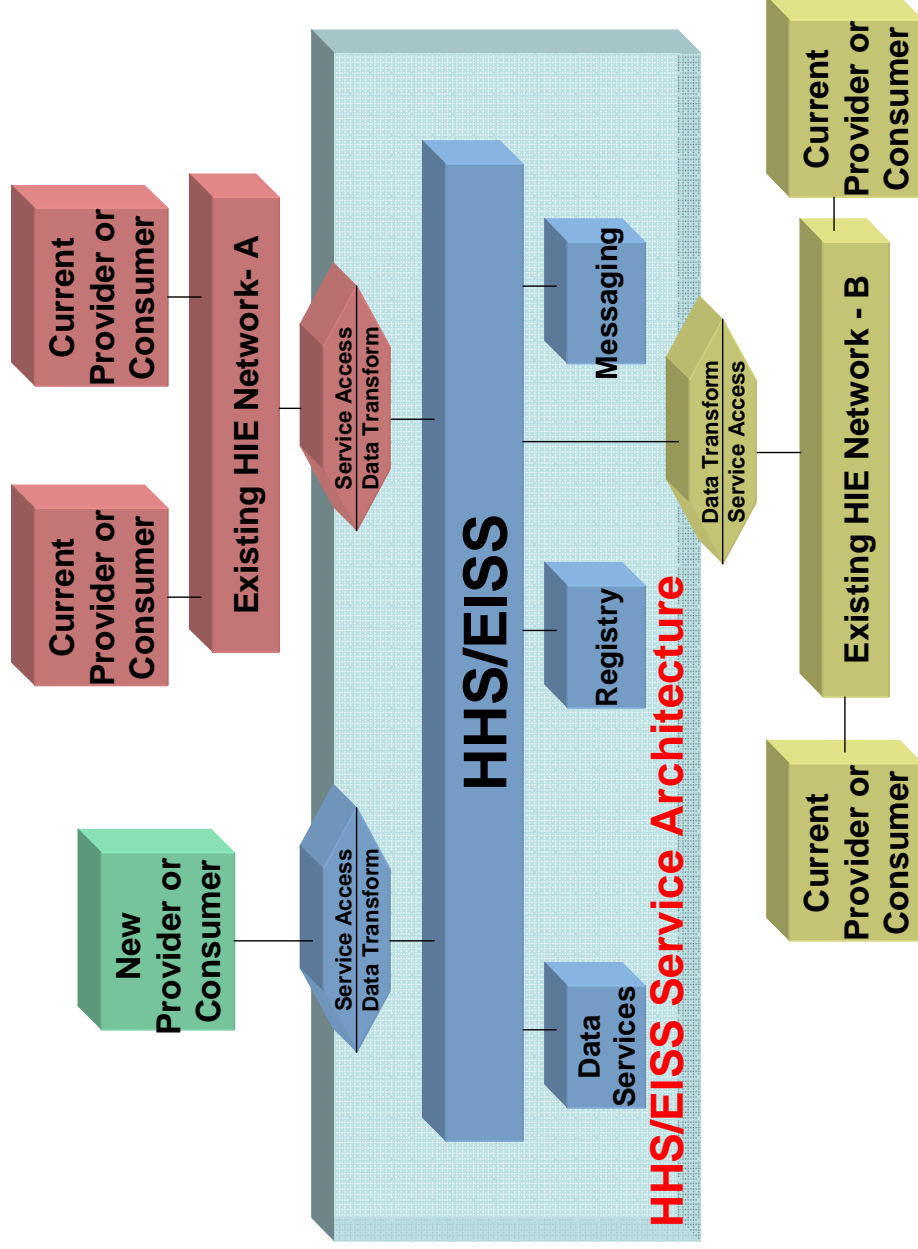
Speaker:

CAPT Mary Forbes, Certified Enterprise Architect
Office of the Chief Information Officer
Office of the Assistant Secretary for Resources and Technology
U.S. Department of Health and Human Services

HHS Enterprise Information Sharing Services



HHS EISS Conceptual Diagram



HHS Information Sharing Environment Activities

- Inventory HHS Information Sharing Environments
 - Health
 - Non-Health
 - Mission non-critical
 - Administrative
- Extract and Classify ISE Services
- Extract and Classify ISE Information Exchange Packages
- Develop HHS (or adopt existing) ISE Framework
- Create Baseline ISE Service Definitions
- Survey Industry Standards (data and service)
- Select Relevant Standards for HHS EISS
- Perform Gap Analysis
- Adopt a Baseline EISS (existing Gov. or Industry Solution preferred)
- Transition Planning

FHA



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Speaker:

Soori Kani

Project Manager – FHA Program Support

Presidential Executive Orders

Executive Order 13335 – April 27, 2004

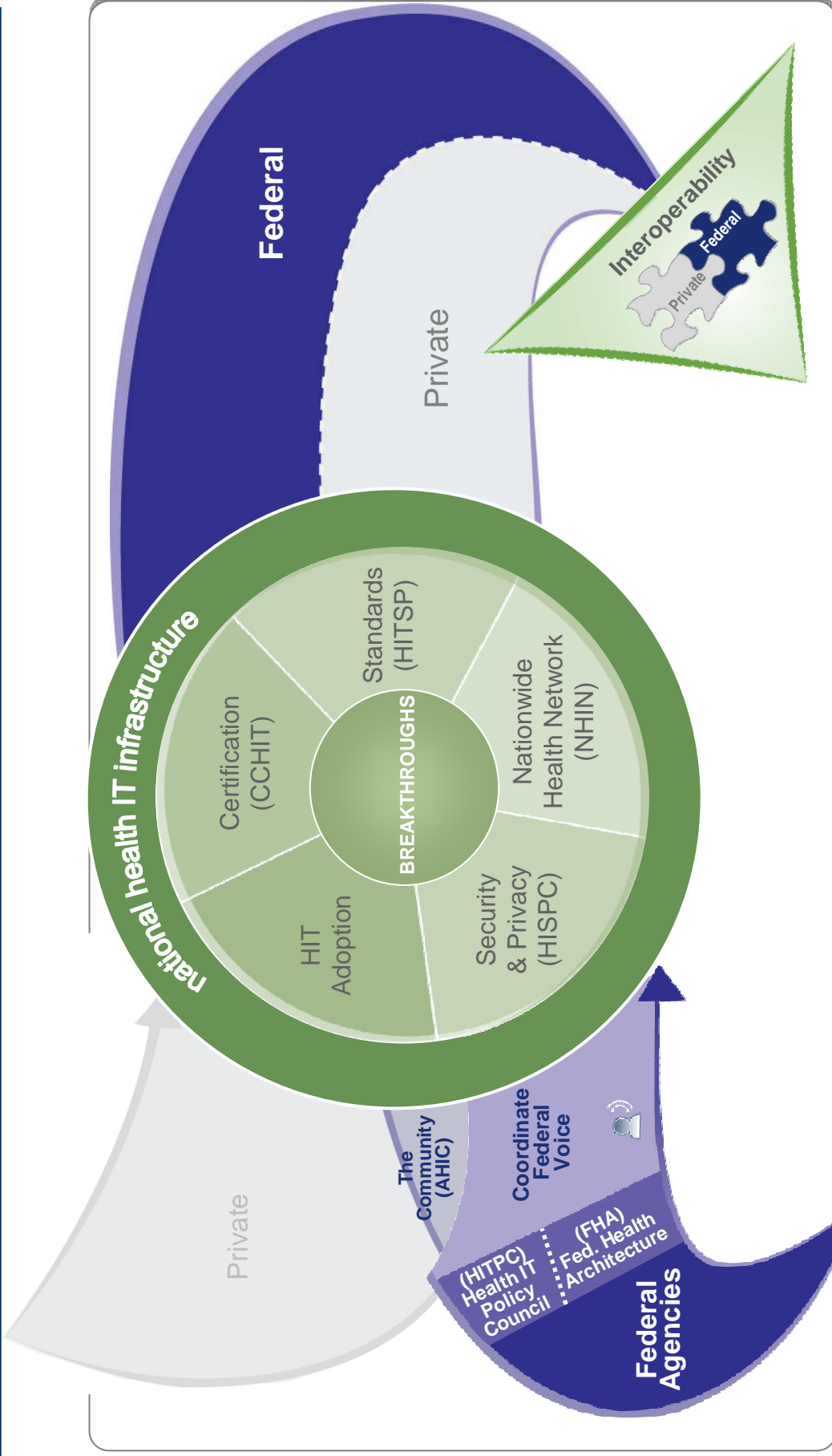
- Announces commitment to the promotion of health IT
- President Bush calls for widespread adoption of interoperable EHRs within 10 years
- Establishes the Office of the National Coordinator (ONC)

Executive Order 13410 – April 22, 2006

- **Requires federal agencies to perform the following:**

As each agency implements, acquires, or upgrades health information technology systems used for the direct exchange of health information between agencies and with non-Federal entities, it shall utilize, where available, health information technology systems and products that meet recognized interoperability standards.

FHA Vision – A federal health IT environment that is interoperable with the private sector and supports the President’s Plan enabling better care, increased efficiency, and improved population health.



Federal Agencies with a Healthcare Activity and Participating in FHA



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Department of Health and Human Services	Department of Veterans Affairs / Veterans Health Administration
Department of Defense / Military Health Systems	Department of Justice / Bureau of Prison
Department of State	Department of Agriculture
Department of Transportation	Department of Energy
Department of Homeland Security	National Aeronautics and Space Administration
Federal Communications Commission	Social Security Administration
Environmental Protection Agency	National Institute of Standards Technology
National Science Foundation	Office of Personnel Management
HHS-National Institute of Health, National Cancer Institute, National Library of Medicine	
HHS-Centers for Medicare & Medicaid Services	
HHS-Centers for Disease Control	
HHS-Indian Health Service	
HHS-Food & Drug Administration	
HHS-Substance Abuse and Mental Health Services Administration	
HHS-Office of the Assistance Secretary for Public Health Emergency Preparedness	
HHS-Agency for Healthcare Research and Quality	
HHS-Office of the Assistance Secretary for Planning and Evaluation	
HHS-Health Resources and Services Administration	

Today's Health IT Environment: What FHA asks of Federal Agencies



To meet the requirements of Executive Order 13410



Adopt use of CCHIT Certified Products



Implement HITSP harmonized standards



**Employ NHIN Compliant Services to
exchange health information**

FHA Program Tools and Services



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Secure Exchange of Interoperable Health Information

Federal Implementation Tools and Services

* Available for use by state, tribal, local governments & others

	Health Information Exchanges	Standards Adoption	Interoperability Architecture	Investment Planning and Progress Reporting	HIT Education
TOOLS	<ul style="list-style-type: none"> NHIN-Connect (C) Gateway* NHIN-C Software Development Kit for agency connectivity to NHIN-C* NHIN-C Community Portal* 	<ul style="list-style-type: none"> HITSP Engagement Plan SDO Engagement Plan Standards Catalogue Terminology Distribution Specification 	<ul style="list-style-type: none"> Health Information Interoperability Architecture Framework (HIIAF)* Federal Transition Framework (FTF) AHIC Use Cases Business Process Models (BPM)* 	<ul style="list-style-type: none"> Investment Planning and Information Reporting Guide* Health Information (HI) Survey <ul style="list-style-type: none"> - Systems Inventory - Implementation Planning - Standards Compliance Methodology 	<ul style="list-style-type: none"> Instructor-led Training Courses Computer Based Training Courses <ul style="list-style-type: none"> - Interoperability Specifications - Health info exchange Architecture - Investment planning Implementation
SERVICES	<ul style="list-style-type: none"> Agency Health Information Exchanges Requirements Definition NHIN Implementation Support 	<ul style="list-style-type: none"> Agency Participation Planning Support <ul style="list-style-type: none"> - HITSP - SDO - Terminology Distribution 	<ul style="list-style-type: none"> Agency Transition Planning Support 	<ul style="list-style-type: none"> Agency Investment Planning Support Implementation Planning Support 	<ul style="list-style-type: none"> Webinars Briefings On-site Presentations

Schedule

- Working Group kickoff – March 13th
 - Bi-weekly conference calls to follow
- Architecture Plus – March 18th
- Quarterly Meeting – End March
- Town-hall meeting – Mid April (date TBD)
- Whitepaper/briefing of lessons learned, progress, and best practices for Healthcare Information Sharing (Phase 1)– June end (date TBD)
- Out-brief of results – July (date TBD)
- Draft Healthcare Information Sharing Profile (Phase 2 TBD – If time is right)

Next Steps

- Develop questions that will guide the data collection efforts
- Gather information on healthcare IT initiatives
 - Progress in information sharing
 - Issues Faced
 - Lessons Learned
 - Reusable Best Practices
- Gather information on healthcare IT standards
- Look for overlaps, commonalities and gaps
- Use information gathered to develop whitepaper/briefing.

Contact

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To help and participate in the health-care information sharing pilot

** Please note – multiple people from the same company could not attend today’s meeting due to space limitation – please feel free to include those personnel in the work-group moving forward

Back- Up FHA Slides



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FEDERAL HEALTH ARCHITECTURE PROGRAM

IAC EA SIG Health Care Pilot Kickoff Meeting



U.S. Department of Health and Human Services

March 13, 2008

Today's Health IT Environment:

What steps are required for Agencies to implement products

How does an agency implements acquire, or upgrade health information technology systems used for the direct exchange of health information?



Identify Needs



Architect Solutions



Plan Investments

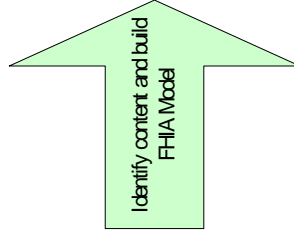
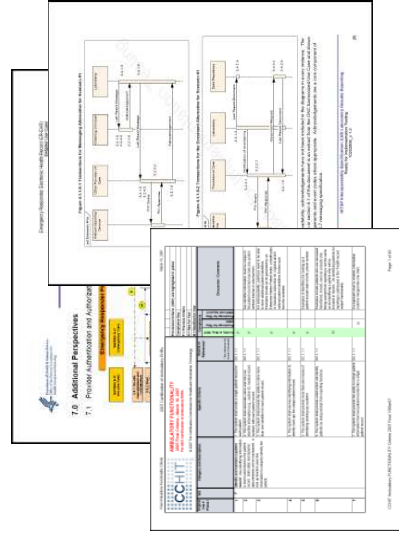


Implement

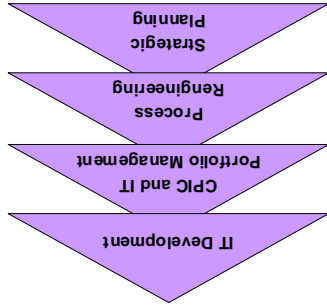
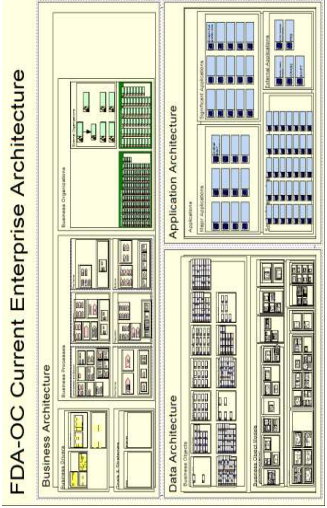


Measure Progress

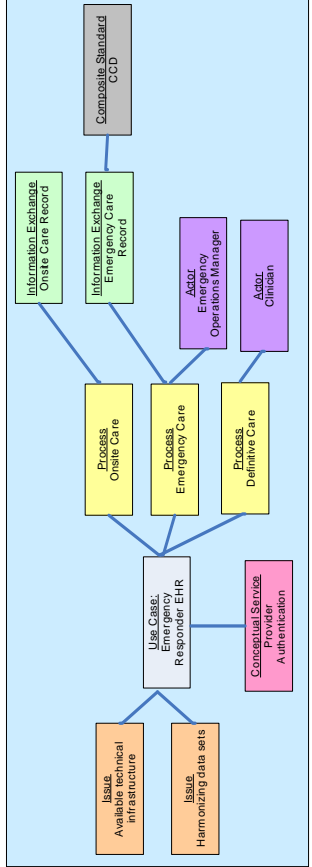
Modeling the National Agenda



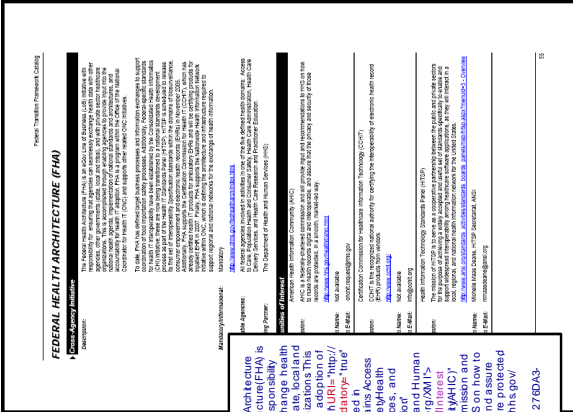
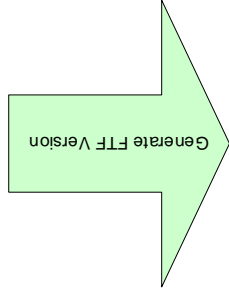
National Health IT Agenda



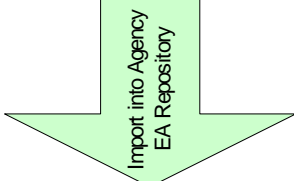
Agency EA Model



FHIA Model



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<CrossAgencyInitiative name="Federal Health Architecture (FHIA)" description="The Federal Health Architecture (FHIA) is an eGov Line of Business (LoB) initiative with responsibility for aggregating and coordinating information and data with other major government state, local and federal, and with private sector health care organizations. This is accomplished through the development and adoption of interoperable standards and information systems. The FHIA is managed by the Department of Health and Human Services (HHS) and is a key component of the eGov Line of Business (LoB) initiative." />
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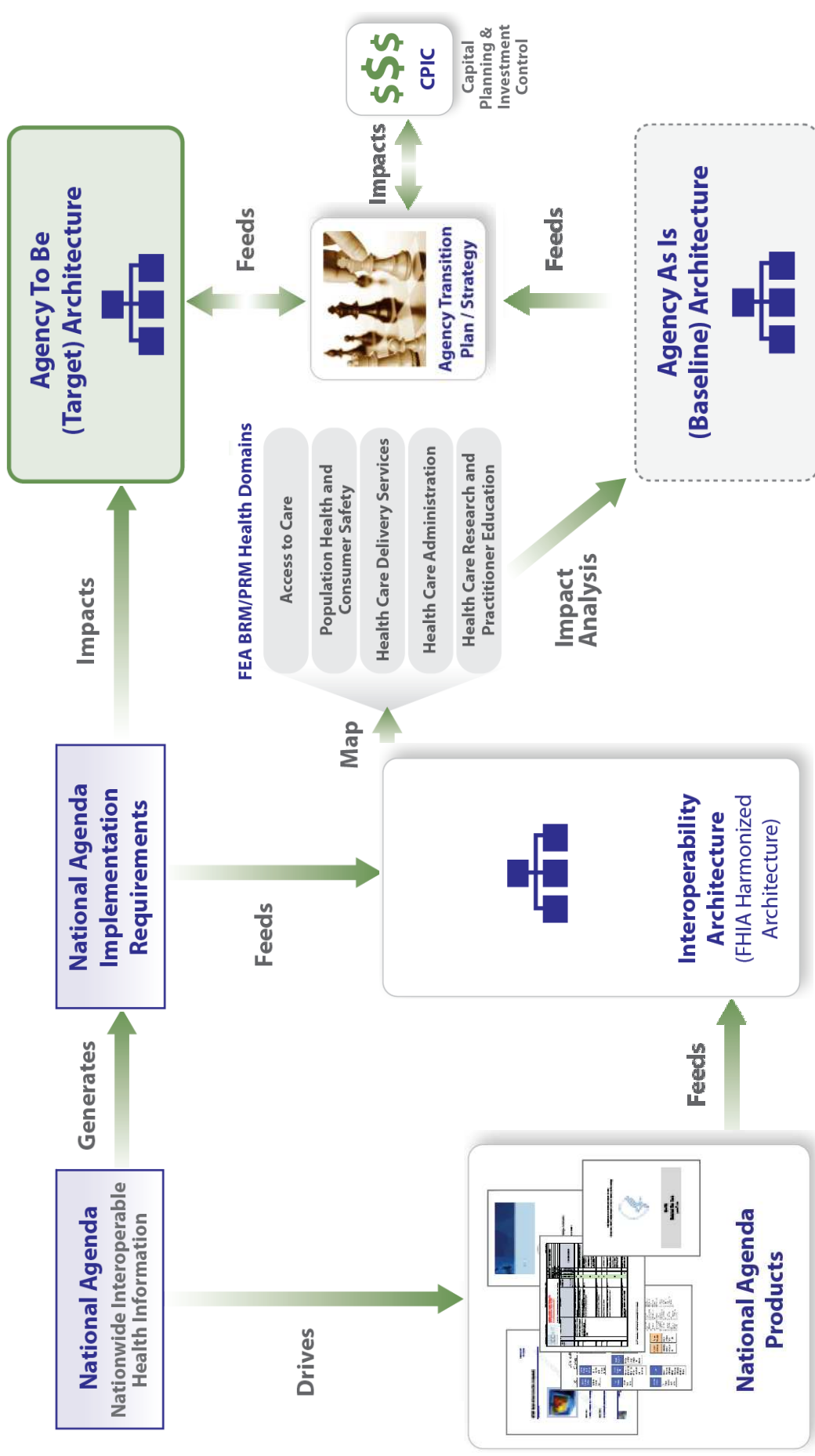
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Federal Transition Framework

The National Products, Agency Architecture, and Investment Decisions

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FROM THE NATIONAL HIT AGENDA:

...foster widely available services that facilitate the accurate, appropriate, timely, and secure exchange of health information

...information that:

- follows the consumer
- supports clinical decision
- integrates public health needs

FHA Tools and Services: Nationwide Health Information Network - Connect



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Nationwide Health Information Network-Connect (NHIN-C) initiative, a cross-agency collaboration.

- Composed of representatives from 20 federal agencies with a health line of business.
- The NHIN-C initiative articulates a coherent federal strategy to enable the exchange of health information through the emerging NHIN

NHIN-C Tools

- **The NHIN-C Gateway solution**
 - When implemented, a uniform implementation of the NHIN standards and service interface specifications that federal agencies can deploy into their operational environments.
 - At the end of the first year of NHIN Trial Implementations, agencies will receive the released gateway solution, a deployable package that includes the NHIN-C Gateway software and an adapter software development kit (SDK).

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What does this mean for – Our Stakeholders



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Citizens

- Improved provider efficiency and consumer savings
- Access to patient information fostering safety and reducing medical errors with clinical information delivered timely and securely



Federal Agencies

- Interoperable drug data leading to safer drug approval process
- Improve productivity, less paperwork, and point-of-care coordination with increased data quality, reduced costs, and efficient data interchange

State, Tribal and Local Governments

- Enhanced leveraging of Federal HIT program planning
- Enable data integration and enhanced reusability Improve communication among state/tribal and local governments



Service Providers

- Interoperable drug data for timely, safer drug approval process and safety studies
- Scope for selling products identified by common taxonomy and architecture Increased ability to respond to customer needs



The President Urges Agencies to Work Together



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“Our success depends on agencies working as a team across traditional boundaries to better serve the American people, focusing on citizens rather than individual agency needs ... I thank agencies who have actively engaged in cross-agency teamwork, using E-Government to create more cost-effective and efficient ways to serve citizens, and I urge others to follow their lead.”