• Why Enterprise architecture
  – EA @ CDC
  – EA Hot Topics
• Enterprise Architecture Solution Stories
  – Examples
• Shared Services briefing
• Open data initiatives
• Cloud Computing
  – How to access readiness
  – How to move to cloud
## EA Value Proposition

### ROLE OF THE EA TEAM

- Applying EA principles and practices to help align technology to Program goals and objectives.
  - Capturing business architecture components (e.g., strategy, operations, core capabilities) to form a basis for IT portfolio assessments
  - Identifying opportunities to leverage new technologies such as cloud and mobile
  - Developing target architectures and related transition plans
- Fostering collaborative discussion among Programs to facilitate adoption of common approaches, architectural components, and standards enabling greater integration or consolidation
- Providing advice and counsel to program owners and project teams on: Project reviews, at all points in the life-cycle, to help promote more efficient and less costly solutions
  - Opportunities to better leverage innovative technology practices
  - Potential solutions that can be considered for meeting existing business needs
  - Architectural modeling to reduce complexities of cross-organizational collaborative planning and development
- Coordinating special CDC-wide initiatives such as Open Data, Shared Services, etc.

### ACCOMPLISHMENTS

- Working with select Programs to map IT investments, gaps, and opportunities to required core capabilities
- Rigorous IT portfolio reviews resulting in the retirement of numerous systems over the last several years
- Development of the EA Critical Partner network and guidance to foster success for the EA discipline across CDC
- Supported successful IT project, program, & portfolio management across CDC earning the distinction of a leader for HHS
- Identified and cataloged ~70 shared services across CDC and ~13 offered as HHS-wide services through CDC Shared Services initiative
- Completed successful CDC Grants Management systems review, contributing to CDC initiative to migrate from NIH's IMPAC II to ACF’s Grant Solutions as a more comprehensive and integrated grants full life-cycle system
- Executed North American Public Health Alerting initiative (Mexico, Canada, U.S.) pilot, using the National Information Exchange Model (NIEM)
## Highlights of Current Activities

### CDC Programs
- Architecture review for NCHS
- Business Architecture with NCCDPHP
- Solution Architecture for NIOSH
- Architecture support for NEPHTN, NCEH/ATSDR
- S3P

### CDC Wide
- Shared Services Initiative
- Open Data Initiative
- CIOs’ EA Critical Partner training and Engagement
- CPIC Investment Review support
- Grants Management Systems Analysis
- Electronic Records (eRM) Management analysis
- Annual CDC PortfolioStat support
- Support to CIO EA CPs in EPLC StageGate reviews
- Laboratory Architecture

### HHS Agency
- EA Maturity Assessments
- HHS Roadmap
- HHS eRM
- HHS Shared Services
Enterprise Architecture
Solution Stories
**OBJECTIVE**

Improve the timeliness, accuracy, and consistency with collecting and processing the nation’s official vital statistics - births, deaths, marriages, divorces, and fetal deaths. The process involves enormous amount of data, very different source systems and processes, formats, values, etc. Complicated further by fragmented flows of information and overly manual processing.

Program sought to assess current state capabilities relative to goals and objectives and to create a roadmap of strategic initiatives – technology and process – that address gaps and opportunities. A business focused, end-to-end consideration of improvement opportunities.

**ACTION**

The EA team worked closely with Informatics, the Division Lead, and the Integrated Project Team (IPT) to understand goals, objectives and key capabilities. For each capability, the team analyzed the supporting processes and enabling technologies, identifying issues, gaps, and opportunities for improvement.

**RESULT**

A formal report and roadmap with detailed, prioritized findings, and associated recommendations
Strengthen alignment between Program strategy and Information Technology (IT). As a first step, assess how IT resources are aligned to the core business capabilities that are key to achieving strategy. Management wanted a business focused way to quickly identify redundancies, weaknesses, and gaps with IT alignment.

EA met with the Informatics team. Value chain analysis and capability mapping were performed. Capability maps provided a graphical way of showing the relationship between business strategy, core capabilities, and the deployment of resources – current state and envisioned future state. A well constructed map makes evident redundancies, weaknesses, gaps and becomes an “anchor” diagram for business and IT management to formulate a common vision and drive to well aligned investments.

Business architecture deliverables have provided an effective IT and business planning tool.
Current State Assessment/Roadmap

Business Architecture Framework

Value Chain Analysis

Capability Mapping
Share Services + Open Data

Enterprise Architecture
5- minutes briefing
“Increasing Shared Approaches to Information Technology Services”
CDC Shared Services

**Strategy**
- Concept of Operations
- What should we share?
- How should we share?

**IRGC’s Shared Services Subcommittee**

**Shared Services Portal + CATALOG**
- Currently, over 80 services

**EPLC**
- How to find and leverage shared services in my projects?
- How to engage service providers?

**Communication**
- How to communicate the concept?
- How to be a shared services provider?
- What should rather be a shared service?
Open Data – Concept

In a nutshell

CDC Shares Data Online

Citizen translates data into app

How to fake you are sick and get excused at work:

1) Cough and spit
2) Pretend you cannot hear anyone
3) Stare at the infinite

Citizens benefit from app