Long Range Technical Architecture (LRTA)

Overview Brief

August 2016

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Agenda

- Background
- Purpose
- Results: A 10-Year Roadmap
- 1-3 Year Timeframe
- 4-6 Year Timeframe
- 7-10 Year Timeframe
- Conclusion

Background

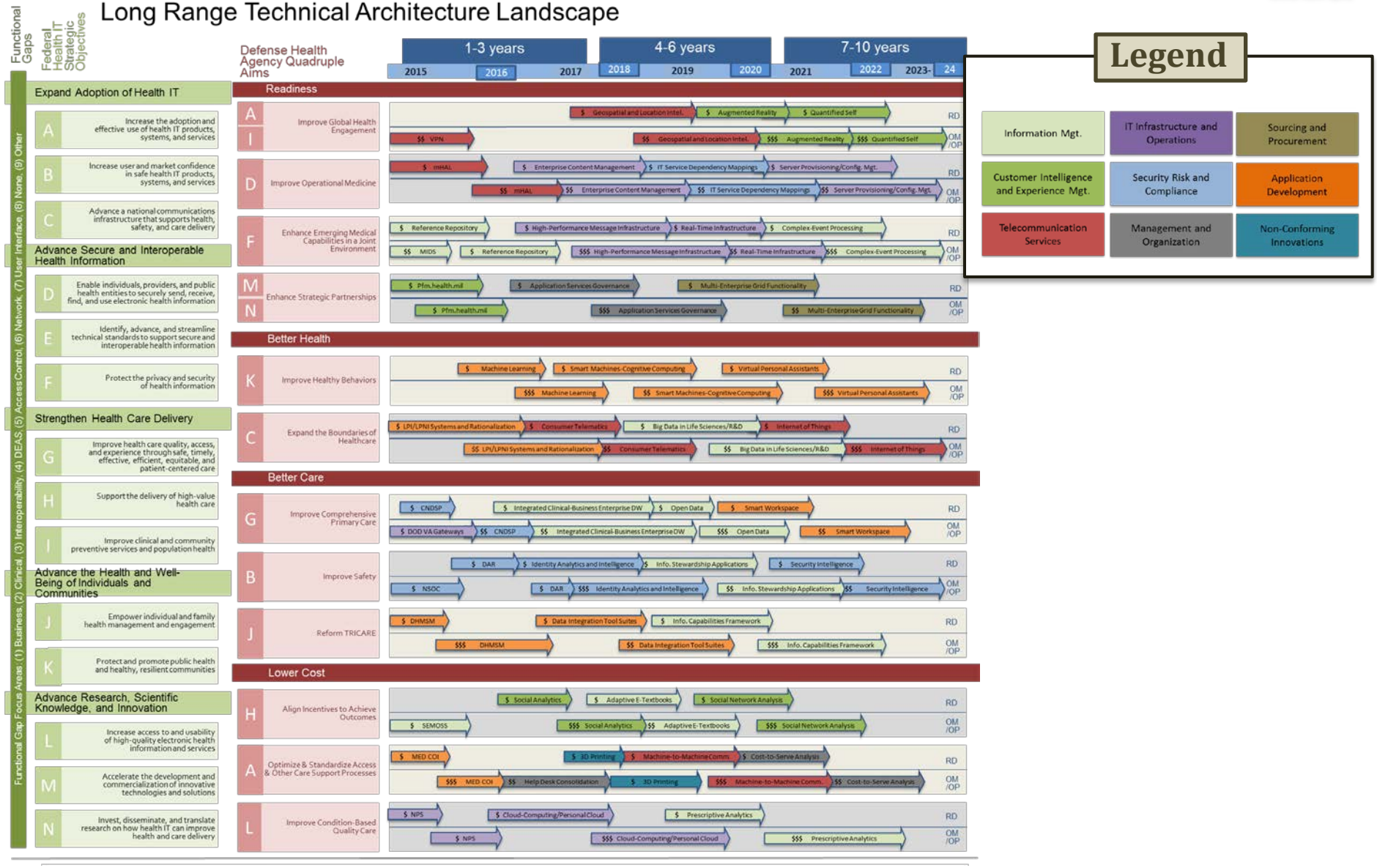
We are sharing this technology investment roadmap with you so you can gain a better understanding of how we operate, and align these objectives with any future plans you may have with the Defense Health Agency (DHA).

The Long-Range Technical Architecture (LRTA) was created to determine the best method to actualize strategic objectives, provide direction of DHA's future technology investments, and guide leadership through significant mission decisions.

The LRTA measures potential HIT initiatives based on their ability to drive DHA strategy, DOTMPLF, and the closure of enterprise functional and technical gaps.

The LRTA provides an actionable perspective of the DHA's technical architecture 1-3, 4-6, and 7-10 years into the future.

Long Range Technical Architecture Landscape



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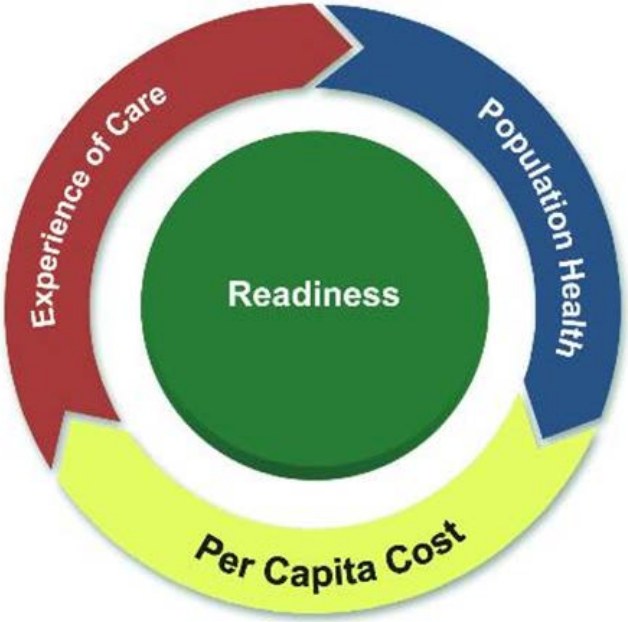
Purpose

The LRTA aims to meet the MHS Quadruple Aims and DHA Director's goals by guiding future IT investment planning and identifying an actionable path forward to achieve strategic objectives:



Fortify our Relationship with the Services

Strengthen our Role as a Combat Support Agency

Optimize DHA Operations

Our Stepping Stones for Success

Technology Investment Roadmap	Consolidated, Standardized IT Infrastructure	Single, Reliable Medical Network	Cyber Security	
New EHR	Data Analytics	Mobility	Standardized Portfolio	Customer Service

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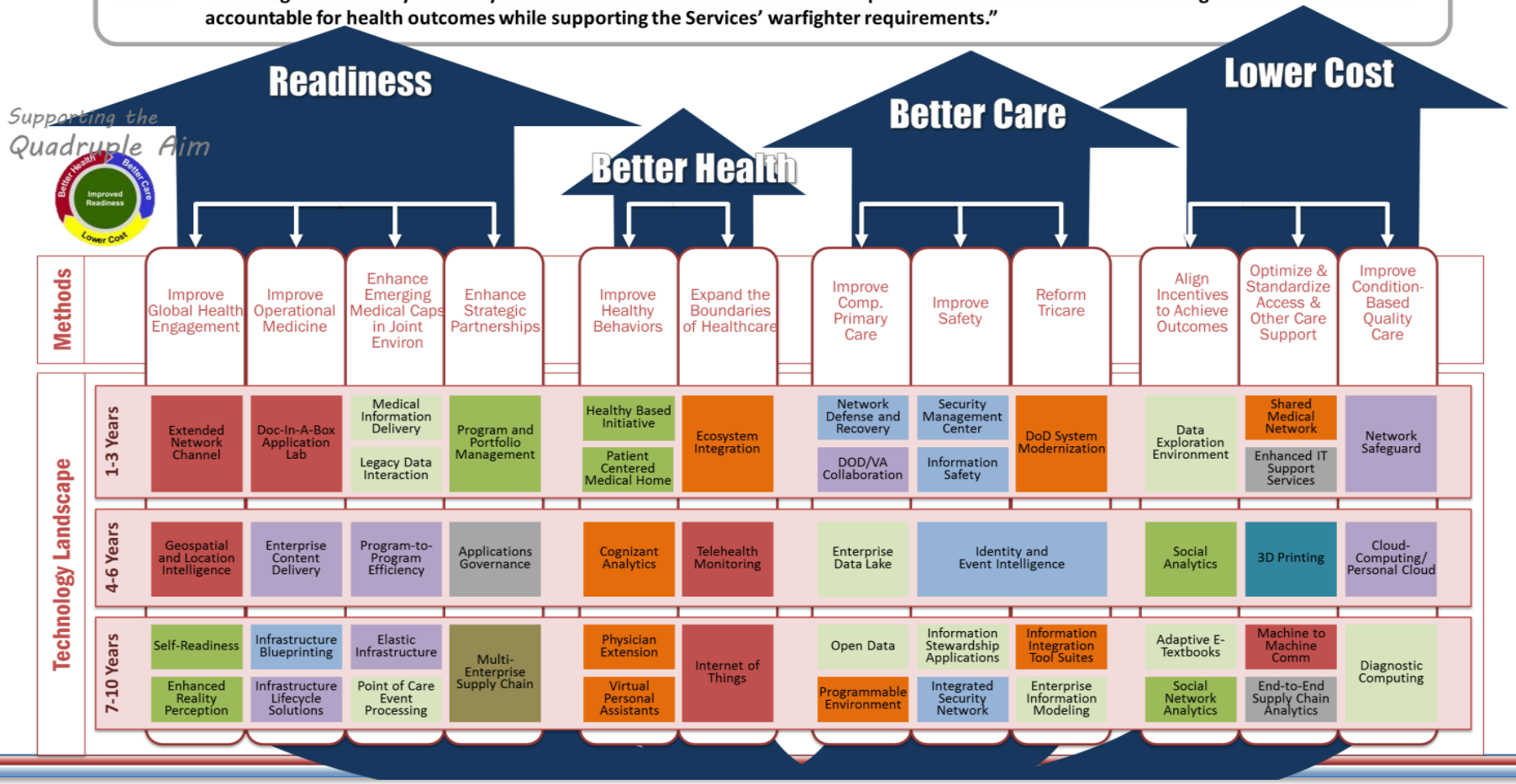
Results: A 10 Year Roadmap

The LRTA is based on this 10-Year Technology Investment Roadmap, plotting 32 technologies across 3 distinct time frames based on their predicted DHA benefit and maturity

Mapping the Long Range Technical Architecture Implementation Roadmap to the Military Health System's Strategy Map

Mission: "To enhance DoD and our Nation's security by providing health support for the full range of military operations and maximizing the health of all those entrusted to our care."

Vision: "The Integrated Military Health System delivers a coordinated continuum of preventive and curative services to eligible beneficiaries and is accountable for health outcomes while supporting the Services' warfighter requirements."



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1-3 Year Timeframe
2016-2019

The 1-3 Year Timeframe

Overview

Over the next 1-3 years, the DHA plans to address prevalent usability issues by integrating a new EHR and consolidating systems within the legacy portfolio. These actions will improve existing functionality and enable a more flexible technical backbone to drive rationalization.

STRATEGIC FOCUS AND TECH TRENDS

- Support consolidation of infrastructure and systems, including portfolio rationalization
- Leverage commoditized services for improved performance and lowered maintenance cost
- Provide an intelligent user interface, enabling ease of use

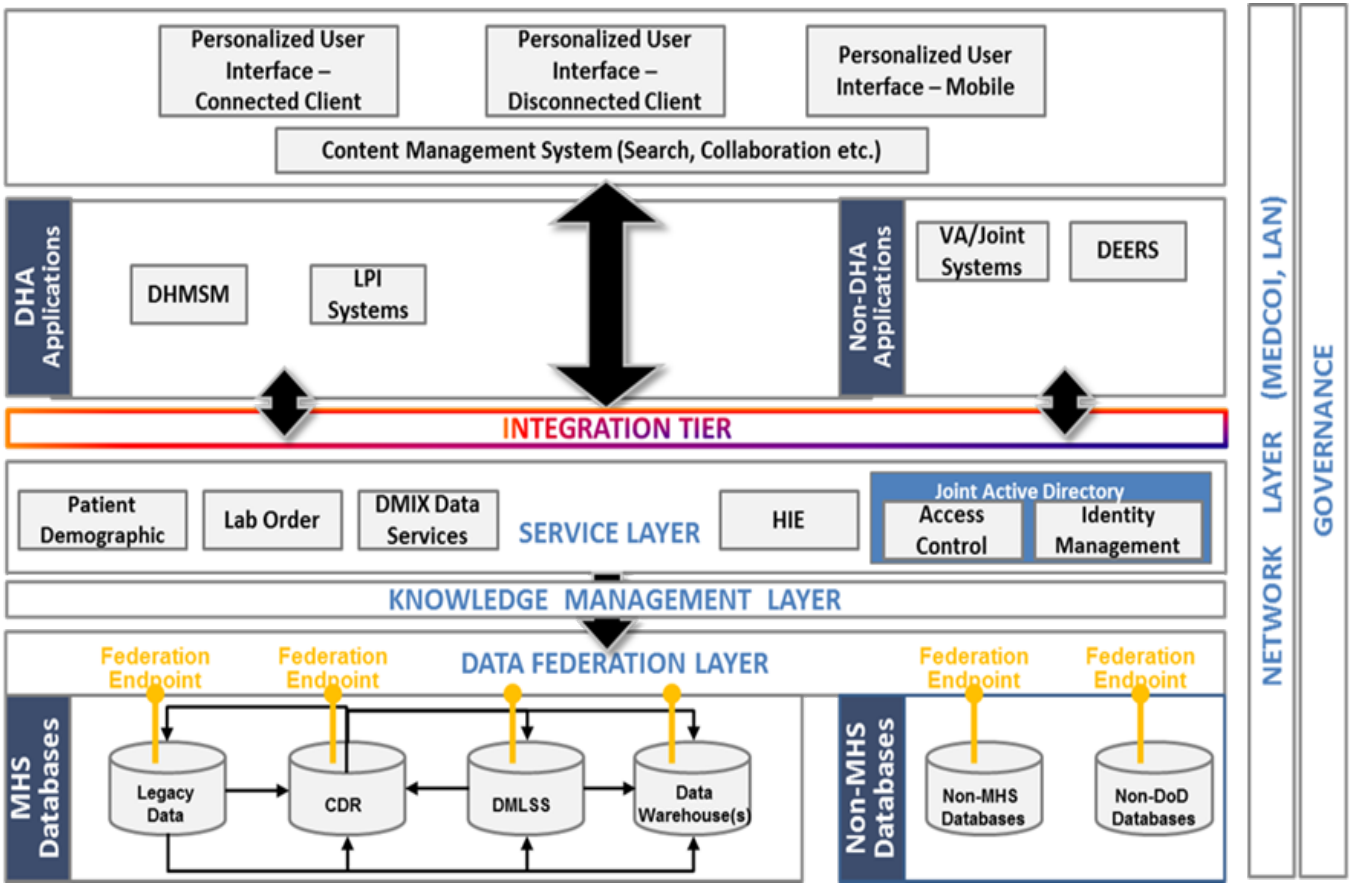
IMPACTS

- Consolidated legacy systems/infrastructure, enabling significant cost savings
- Implementation of service oriented architecture (SOA) common services for an ROI, improved application security
- Increased system usability, as user interface will adapt to the end user's requirements

The 1-3 Year Timeframe

Evolution of Architecture

In order to support the enterprise's immediate needs, the technical architecture must enable portfolio rationalization and system consolidation, while ensuring consistent communication.



Our 1-3 Year Architectural Requirements can be identified as follows:

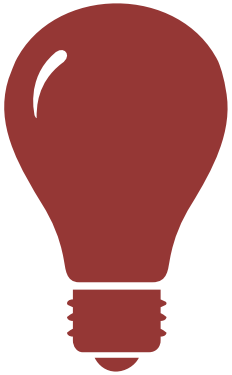
- **Data Federation.** Provides a uniform and integrated view of distributed data
- **Integration.** Provides seamless data from unique systems though authorized functionalities
- **Interoperability.** Allows different functionalities to operate the same data

4-6 Year Timeframe
2019-2021

The 4-6 Year Timeframe

Overview

Over the next 4-6 years, the DHA will be in the midst of a shift in the way healthcare is administered…patients will **take ownership of their healthcare**, and care will be more **customer self-service driven**.



STRATEGIC FOCUS AND TECH TRENDS

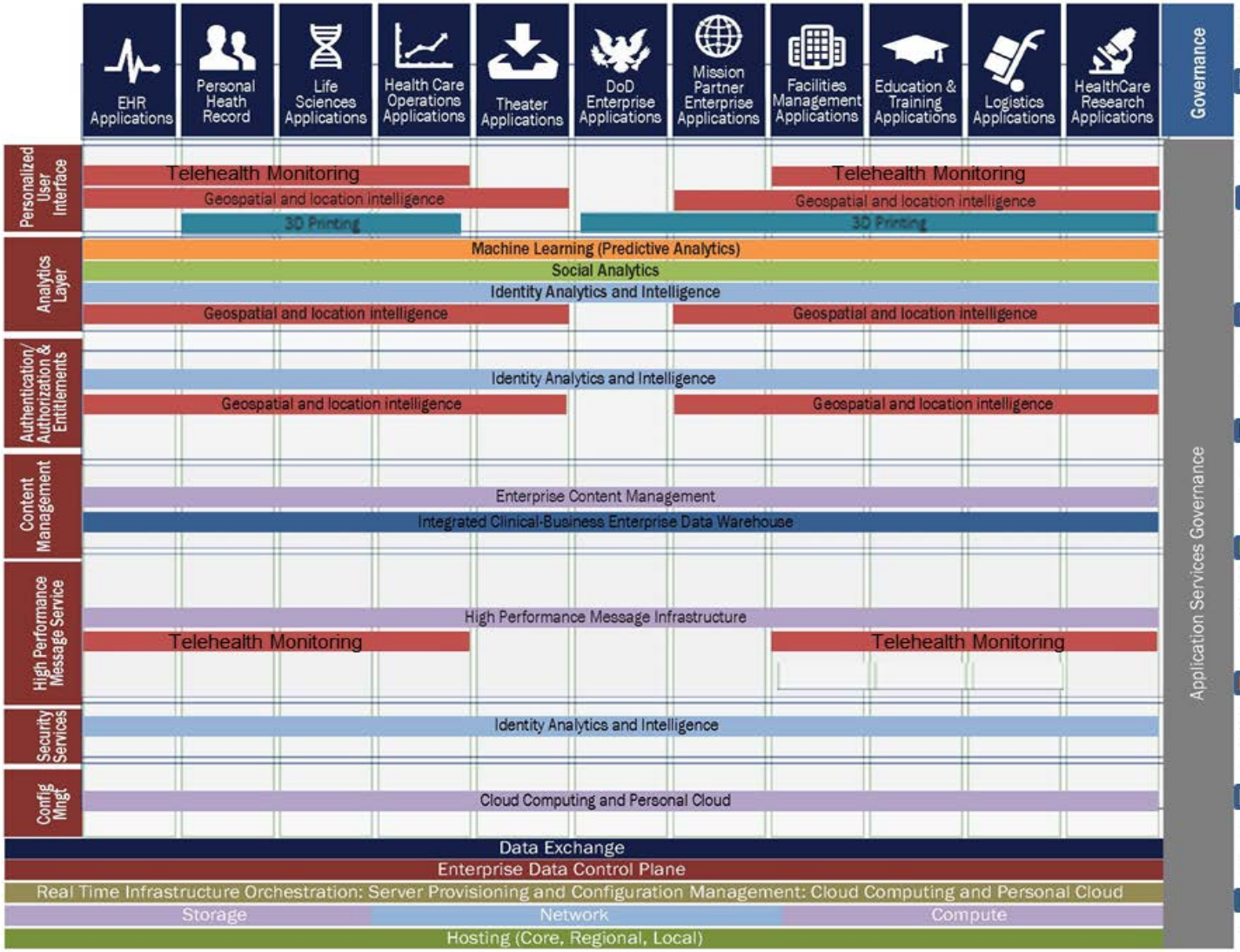
- Apply more robust requirements as business drives the technology
- Increase interoperability between the healthcare system and consumers
- Increase security for data architectures
- Provide an adaptive user interface
- Insert a more efficient data federation layer

IMPACTS

- Legacy data repositories will connect with new systems and become part of the central data lake
- External data connection can be facilitated through high performance messaging integration for advanced analytics
- Information Security will be part of the Interface and Service Lifecycle Management process

The 4-6 Year Timeframe

Complete Map of Mid-Term Solutions



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7-10 Year Timeframe
2022-2025

The 7-10 Year Timeframe

Overview

In 10 years it is expected that the DHA will move more towards a **commoditized IT framework, using techniques such as 'drag and drop' modeling and responsive application design**. The shift from internal data creation to external data intake will provide healthcare providers and beneficiaries with an increase in data knowledge.

STRATEGIC FOCUS AND TECH TRENDS

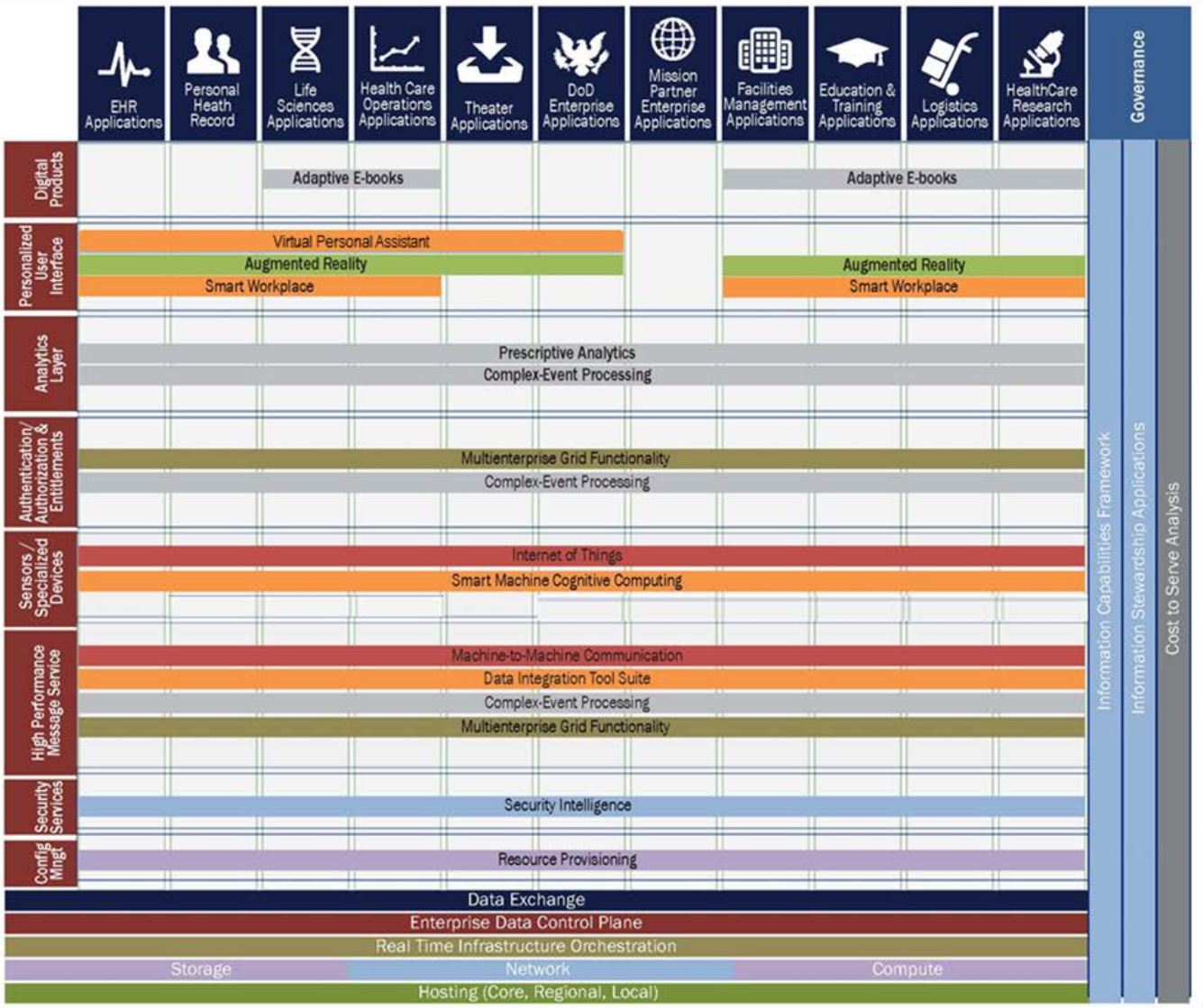
- Implement a consistent data integration tool suite to support analytics layers
- Ensure the data exchange and enterprise data control planes provide data in a standard manner
- Replace individual security applications with one integrated, encompassing security layer

IMPACTS

- Digital devices and sensors interconnected through a high-speed network
- Automated internal business processes
- Continuum of care between hospital and home with extensive interoperability and communication

The 7-10 Year Timeframe

Complete Map of Long-Term Solutions



Best Practice Enterprise Technical Focus Areas:

- Security Risk and Compliance
- Telecommunication Services
- IT Infrastructure and Operations
- Information Management
- Customer Intelligence And Experience Management
- Application Development
- Management and Organization
- Sourcing and Procurement

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In Conclusion…

Our Mission:

- Determine the best method to actualize strategic objectives
- Provide direction of DHA's future technology investments
- Guide leadership through significant mission decisions

Significance to you:

- Increase transparency of how we operate
- Gain insight into how we evaluate potential technical investments
- Align these strategies with any future business plans you have with the DHA

Questions??