HEALTHCARE IN THE UNITED STATES

Fifteen percent of our population is consuming about...

65%

65 percent of the total U.S. healthcare budget.

75 PERCENT of the U.S. healthcare spending is for chronic illnesses that could be prevented.

Source: Kaiser Family Foundation, 2010, and the Center for Disease Control

HAWAII HEALTHCARE

Every year, healthcare expenditures in Hawaii increase an average of 6.2 PERCENT

In 2009, Hawaii spent $8.8 BILLION on healthcare, which is more than 13 percent of the state’s total economy.

The State purchases healthcare for nearly FORTY PERCENT of all residents ...

and commits TWENTY FIVE PERCENT of the state budget to health expenditures.

Source: Kaiser Family Foundation, 2016, and the Center for Disease Control
The State of Hawai`i

- **Budget**
  $11 B State (~30% Federal) – 1.4% IT

- **People**
  1.4 M residents - 41K State employees – 1.8% IT

- **Organization**
  18 Departments, 108 Attached Agencies, and 162 Boards & Commissions; de-centralized IT

- **Business**
  35 Lines of Business; 220 Business Services; 100’s of Complex, Manual, Silo, Paper Processes

- **Technology**
  ~30 years old; 743 fragmented IT systems (90= Health IT); No interoperability, Disaster Recovery

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A Value Chain for Hawai`i

- Economic Development, Commerce & Consumer Affairs
- Human Services, Workforce Management
- Defense, Homeland Security, Disaster Management, Law Enforcement
- Environmental Management, Public Health, Child Support
- Land & Natural Resources, Hawaiian Home Lands
- Correctional/Public Safety, Criminal Justice, Juvenile Justice, Legal
- Transportation
- Education, Higher Education, Public Libraries
- Agriculture

Business Outcomes
- Value To Citizens
- Value to Business Partners
- Value to Federal Agencies and Other Funding Providers

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#1 The New Day Vision: Business and Technology Transformation

http://hawaii.gov

http://oimt.hawaii.gov
The OIMT Vision is a Digital State

through one portal
my.hawaii.gov

Residents, State Employees, Government and Business Partners

have access to the right information

on any device, securely and reliably

for any mission, at any time

BPR and Mission-Oriented Application

Enterprise Shared Services and Consolidated IT/IRM Infrastructure

Governance Framework

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## Alignment and Goals

### Hawaii Health IT/IRM Goals

1. Secure data access for health transformation
2. Provide analytics capabilities to inform policymaking for public health
3. Provide cross-program analyses
4. Ensure program integrity
5. Provide better resident services

### Alignment to “Triple Aim”

1. Improve patient experience (quality & outcomes)
2. Manage cost
3. Improve public health

### MITA Alignment

1. MITA Alignment Condition
2. Modularity Standard
3. Industry Standards Condition
4. Leverage Condition
5. Business Results Condition
6. Reporting Condition
7. Interoperability Condition
Design of the Triple Aim Enterprise for All Health IT Programs

Define “Quality” from the perspective of an individual member of a defined population

Patient-Centered Care
- Individuals and Families
- Definition of Primary Care
- Integration
- Per Capita Cost Reduction
- Prevention and Health Promotion

Medical Homes

Public Health

System-Level Metrics

Health Care
Public Health
Social Services

Creating a Learning Health System

+ CONTEXT = Information

+ EXPERIENCE = Knowledge

+ UNDERSTANDING = Wisdom

Projects Implement Strategy within an Architectural Roadmap and Governance

Source: Patricia Seybold, Architect

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Hawaii’s Major Health Strategies

1. IT & Performance Improvement
   • Goal: Get to increased levels of understanding through normalized data across silos, governance, standardization, common analytics

2. Patient-Centered Improvement Strategies
   • Goal: Actionable patient-level information for care utilizing common metrics, dashboards, and reporting on key performance indicators (KPI)
   • Empower cross-program analysis, and utilizing common dashboards (e.g., identify longitudinal trends, disease registries, patient-level interventions)

3. Align State-Payer Quality Strategies: Medicaid & EUTF
   MedQuest Quality Strategy
   • Monitoring: compliance to standards
   • Identifying & Pursuing: opportunities for improvement
   • Providing Framework: to enable quality interventions
   • Assuring IT Infrastructure: to provide needed data & analytics
     (Source: DHS)

(Source: DHS)
Alignment to Hawaii Health IT Initiatives

Policy/Process
- Healthcare Transformation State Innovation Model
- Strategic Planning
- Regulatory Compliance
- Business Process Reengineering (BPR)

Data/Information
- Data Governance
- Master Data Management
- Data Repository
- Data Integration
- Data Visualization & Feedback
- BI/Analytics/Trend Analysis

Infrastructure
- State Data Services Hub
- Telehealth
- Security & Information Assurance
Hawaii’s Major Health IT Projects

Clinical Health IT

➢ Healthcare Transformation
➢ Data Governance
➢ Data Repositories & Analytics
➢ EHR Modernizations
➢ Medicaid Meaningful Use program
➢ Public Health Data Exchange
➢ *Hawaii Health Information Exchange – HHIE*

Affordable Care Act & Health IT

➢ DHS Integrated Eligibility System
➢ DHS/OIMT State Data Services Hub
  • Data Hub & Master Data Management
➢ *Hawaii Health Connector (Hawaii Health Insurance Exchange - HIX)*

*Non-profit State-Designated-Entities

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Improving Healthcare Quality and Efficiency: Opportunities for HIT