MOBIA TECHNOLOGY INNOVATIONS

Outcomes based HIS/CIS consumption models: Optimization & Transformation

Spending on healthcare continues to rise at a rate beyond the capacity of most jurisdictions, and is the largest segment of public expenditure. The Canadian Institute for Health Information (CIHI) estimates that Canadian spending on healthcare will continue to rise at a compound annual growth rate of 7%. Healthcare now accounts for as much as 50% of provincial budget spends and shows no sign of abating.

As a result, governments and health authorities across the country are looking at innovative solutions and partners that improve patient care, health system planning and accountability. A complicating factor is that the majority of Clinical Information System (CIS) platforms are "end-of-life" and in need of replacement or upgrading. According to the Branham Group, a leading Canadian Industry Analyst, it is estimated that the cost of CIS replacements in Canada will exceed $9 billion over the next decade. The lifetime cost for a full provincial CIS is in the hundreds of millions of dollars. The healthcare system will be stretched to afford the large capital expenditure required to replace these systems. Alternate procurement and financing models could be an option to free up capital for investment elsewhere.

COACH, Canada's health informatics association, estimates there is a need for 65,000 new FTE's to support Canada's eHealth needs. The opportunity for a new approach to solve these challenges has never been better. Mobia, through our consortium of strategic partners, offers two approaches which will drive better outcomes: Optimization and Transformation.

Optimization

Optimization focusses on reducing cost and complexity be removing the HIS/CIS operational burden on healthcare organizations – allowing them to be agile and redeploy resources driving innovation. Transformation achieves the benefits of Optimization while moving toward a complete continuum of care delivery model (think Accountable Care) including population health and analytics. Mobia and Bell are currently in the process of moving the province of Newfoundland to a Meditech Hosted Shared Services model with significant expected annual budgetary savings. As well, the following benefits can be expected:

- Remove operational cost and complexity associated with supporting a large HIS vendor solution from within your organization
- Consume HIS resources as required while focusing on outcomes vs. operations
- Avoid large, expensive and complex IT infrastructure capital investments which are proving to be unsustainable
- Redeploy FTE resources on strategic clinical projects to innovate and drive new initiatives
- Extend additional capabilities such as population health and analytics within the same cloud delivery model
- Facilitate LHIN/RHA and provincial care coordination objectives while removing barriers associated with 'siloed' date
- Provide business continuance and privacy via private, secure Canadian cloud with Tier 3 datacenter assurance
- Predictable fixed monthly/annual operating model.

Transformation

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Our transformation approach is made possible through our strategic partnership with Evident. The time for a new player in the Canadian Market Place has never been better. Evident, MOBIA Technology Innovations, and Bell Canada have formed a Consortium expressly to pursue the implementation of Evident's Thrive CIS in the Canadian healthcare marketplace. We offer the Thrive CIS Solution as a managed Software-as-a-Service (SaaS) basis that aligns with the actual usage of the system in healthcare facilities. The benefits of our SaaS model include:

- Enhanced patient care across the care continuum, and clinical outcomes by utilizing a fully integrated solution operating from a single database
- Increased operational efficiencies by reducing the duplication of effort for input of data thereby reducing the total cost of providing care
- Standardization of care, processes and practices that leverages the new digital reality to support and enable the needs of both health system leadership and clinicians to provide insightful health system planning and patient care
- A unique technology foundation that easily migrates and merges historical data with current CIS data creating a rich dataset to spark new research and discoveries
- A solid data foundation to drive future analytics research helping to manage, govern, mobilize and analyze data to uncover insights for better outcomes
- A hosted, managed solution, with compressed implementation timeline to minimize disruption and lower the overall total cost of ownership, and
- An alternate financing model, moving away from a large capital expenditure to a predictable fixed monthly operating model.

Evident has been a leading provider of CIS solutions in the United States for over 35 years. Evident offers a complete and scalable suite of integrated products in the healthcare community; from Thrive CIS, installed in more than 600 hospitals all the way through clinic systems installed in over 700 clinics. It is all designed to work in concert and provide small and large hospitals, as well as specialty health centres, with comprehensive, real-time information. It ties together a hospital's key departments and specialty centres with a single database resulting in up-to-the-moment information available to your caregivers and support staff. This promotes improved patient care, increased patient safety, and better patient outcomes. The Thrive CIS solution is modular and fully integrated by design. The various application modules can be installed either as a whole or in phases, over a period of time. The more application modules the hospital installs, the more complete the electronic record becomes and the greater the benefits of the system.

The Thrive CIS provides a complete suite of integrated components that work seamlessly together to maintain a real-time electronic health record (EHR) as a by-product of all daily healthcare operations. From the moment of admission, a patient's detail EHR and status is accessible to all departments throughout the hospital providing care. For example, order a diagnostic test at the nursing station, and it can be immediately received and confirmed by the appropriate department. Results are reported in real time and the patient's record constantly updated. Even repeat orders need to be entered only once. The result is that throughout the healthcare environment, routine tasks, and paperwork - including all billing and collection operations – are reduced. When vital information is processed faster and made available immediately, patient care is more effective. You get timely and complete information to help you reduce your expenses and make better, more efficient use of your human resources - all of which can improve your quality of care and productivity. Integration and interoperability is enabled through a robust interface engine that communicates patient data to care providers beyond the hospital environment.

The Thrive CIS platform meets all US and Canadian interoperability, functionality and privacy requirements – including Meaningful Use 3. Early consideration to address the Canadian market was to ensure the Thrive CIS complied with the Canada Health Infoway Blueprint and prevailing Canadian electronic health record standards for interoperability.

Our solution provides the foundation for a single health record, and establishes a sustainable and scalable service that will respond to the increasing clinical demands of the jurisdiction. It allows for enhanced quality services, enable system wide processes and standardized workflow and support efficiencies across the health care system. It lays the foundation for big data analytics, and the use of data to improve patient care and system planning.

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