

CTI Healthcare Solution Framework

Redefining Care Delivery Efficiency Using Intelligent Data Analytics.

THE CHALLENGE: Hospital and health system experts today face an urgent imperative to improve operational efficiency by better anticipating system demands while effectively managing staff and system resources. Unfortunately, the data information needed to make these more informed decisions is spread across multiple hospital applications, making it difficult to access and leverage.

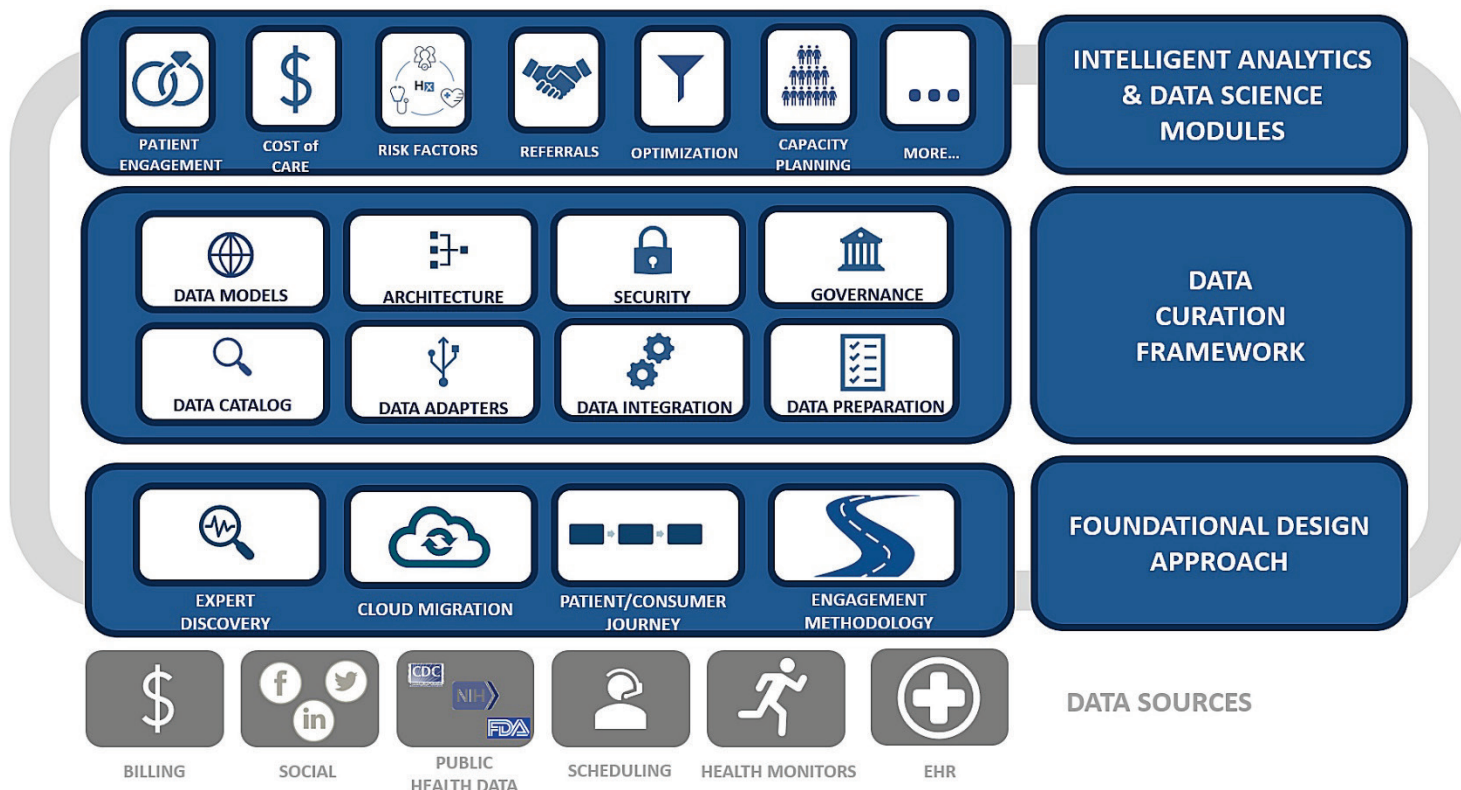
THE SOLUTION: Streamlining patient flow will simultaneously increase revenues, decrease costs, enhance patient satisfaction, and improve care team wellbeing.

CTI's Healthcare Solution Framework is comprised of an intelligence technology platform, predefined solutions, and expert services for operationalizing technology to:

- Enable staff to dig deeply into data from multiple hospital source systems for more informed decisions.
- Augment current hospital applications such as Epic, Cerner, and Allscripts without disruption.
- Support the creation of interactive dashboards with up-to-date information, search, sort and drill-down.
- Enable scenario planning for dynamic system demands by revealing insights hidden in EMR and other systems.
- Deliver insights to users via a secure web browser or mobile device.

HEALTHCARE DATA FRAMEWORK

The CTI Intelligent Data Framework is a modern master data management solution that addresses the complexities of harnessing the continuum of patient care.



This data framework provides trusted secure information and incorporates data science and machine learning to serve the need for deeper insights that drive the highest quality of care.

Integrated data sources are curated and governed; real-time data is protected yet available for analysis by those that need a comprehensive, trusted data set. Analysts can engage in data exploration by using google-like search techniques to identify trends, standardize patient episodes, track patient flow and progress to identify care and cost risks.

INTELLIGENT ANALYTICS MODULES

We provide pre-built analytic frameworks which we have developed that connect our intelligent analytics modules to data sources managed by our intelligent data framework.



CTI Analytics Frameworks: Pre-built and customizable by our consultants or your team:

- **Projected Level-of-Care Needs** - Manage critical resources by examining a system-wide view of dynamic patient population needs.
- **Guide System Resource Allocation by Unit** - Use predicted LOS to guide the allocation of scarce resources based on utilization, predicted LOS, and the demand for select services.
- **Dynamically Adapt and Balance Staffing by Unit and Skill** – analyze data from patient workload, workforce, and bed management systems.

[Request a remote session](#) with one of our healthcare consultants. For immediate response, please call Michael LoPreste at 781-204-9037 or email mlopreste@ctidata.com.