HEALTHCARE TRIANGLE

r2 RISK-BASED 2-YEAR HITRUST® CERTIFIED

DataEz™

HITRUST Certified Data Analytics AI Platform

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Accelerating Digital Transformation Through AI

AI has dramatically changed the way we think and interact with real world problems every day. Whether it's in healthcare, education, or manufacturing, AI yields success in every industry. One leading research on the impact of AI in 12 developed countries revealed that AI could potentially double economic growth rates by the 2030s. AI will enable people to use their time efficiently, which will increase their productivity by at least 40%. This is especially true for global IT economics. AI will increase labor productivity and optimize business efficiency in some cases by 67%, automate communication by 70%, and even improve data analytics efficiency by 59%, according to AI predictions.

With the inevitable adoption of AI across organizations, it should come as no surprise that the market size of AI is set to increase dramatically. The latest research shows that the market size of artificial intelligence was valued at $27.23 billion in 2019 (Fortune Business Insights, 2020). This figure is projected to reach at least $266.92 billion by 2027—a nearly tenfold increase in just eight years and with a Compound Annual Growth Rate (CAGR) of 33.2 percent. According to industry analysts, healthcare will be the biggest sector to benefit from the applications of AI. This is even more so during any global pandemics, during which AI can provide more accurate diagnoses and in turn, more efficient treatments.

Business Challenges

Digital Transformation in HCLS requires digitizing large amounts of legacy data & processes. Moreover, the adoption of Business process automation requires complex integrations with disparate tools and solutions. This means that currently Data driven decision making is challenged by the capability of collecting and meaningfully managing Data at scale. For HCLS the added constraints of accounting for Security & Compliance controls for data protection & changing data regulations and requirements for PHI and PII level of data must be factored in. Managing such complex entities is cumbersome and not cost effective. HCTI has helped many healthcare and pharmaceutical companies to meet and exceed these challenges by building highly modular, scalable, secure, and compliant AI Engineering & Analytics platforms.

AI In Healthcare

AI is applicable in every aspect of healthcare & life sciences. Including but not limited to:

- Personalized Healthcare
- Real World Evidence
- Precision Medicine
- Selfcare, Prevention & Wellness
- Triage & Diagnosis
- Diagnostics
- Clinical Decision Support
- Care Delivery
- Chronic Care Management

Currently the adoption of AI is already increasing by contributing significantly to data driven decision support and diagnostics through image analytics, video analytics, text analytics and mining.

Real World Data

Data and Data Analytics in healthcare is transforming the way illnesses are identified and treated, improving quality of life and avoiding preventable deaths. The drive now is to understand as much as possible about a patient through real world data and to be able to diagnose serious illness though advanced predictive modeling or through advanced AI and ML at an early enough stage that treatment is far simpler, and less expensive. For this a compliant, secured, cost optimized, and a future proof Data Ecosystem is essential.

Wearables and Sensors

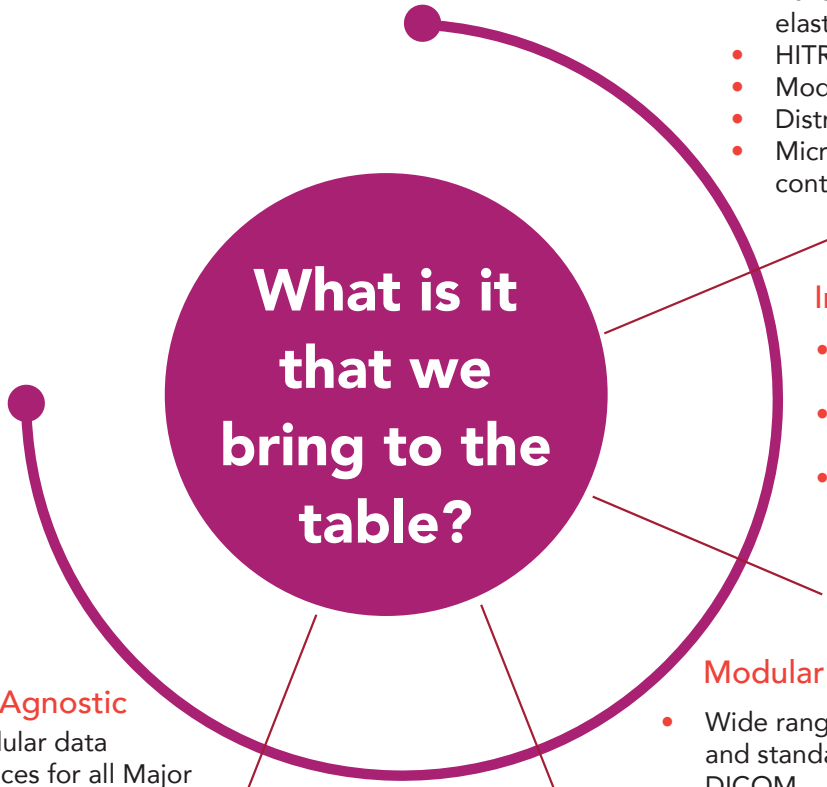
Wearables and sensor driven aggregation of digital health data is going to be a significant trend in the next decade towards Personalized Healthcare for continuous monitoring of patients through Daily activity logs, Biometric Sensors, Fall Sensors, Social Activity sensors etc. AI and ML models will be capable of predicting onset of illness in advance by processing and analyzing this digital data rapidly. Life Science industries need a data platform that is able to scale with the surge of the upcoming digital data.

Genomics and Sequencing

DNA sequencing made huge strides in the last decade. Studies based on large sequencing datasets appear frequently, and public archives for raw sequencing data have been doubling in size every 18 months. A Data Platform on the cloud provides greater total capacity, and a larger variety of services to ingest, process and gain insights from the data. Life sciences industries will require a future proof data platform as a basic underpinning for large-scale genomics collaborations and for efforts to re-analyze archived data, including privacy-protected data.

HCTI Core Principles

Our experience shows that AI Projects are still in their nascent stages, due to a lack of an AI engineering platform. HCTI's HITRUST certified DataEz platform is built by leveraging cloud Infrastructure automation & continuous integration & continuous delivery processes and tools. HCTI believes that **AI Engineering driven through ModelOps, DevOps & DataOps** is key to facilitate the performance, scalability, interpretability and reliability of an Analytics and AI Engineering platform built to support decision making for any organization.



Next Generation Enterprise Analytics and AI Engineering Platform Architecture

- Built on Cloud Infrastructure for scalability, elasticity and agility
- HITRUST certified
- Modularized and API driven
- Distributed domain architecture
- Microservices enabled through containerization

Infrastructure Automation

- One Click deployment enables rapid platform build
- Automated provisioning of Application and Tool containers
- Secure and hardened compute nodes

Modular Data Services

- Wide range of interfaces serving proprietary and standard protocols such as FHIR, HL7 and DICOM
- Services that cleanse, enrich and aggregate Data
- Chain Multiple Data Services to create custom data pipelines
- Multiple layers of Security across Storage, Metadata and Compute with fine grained access control

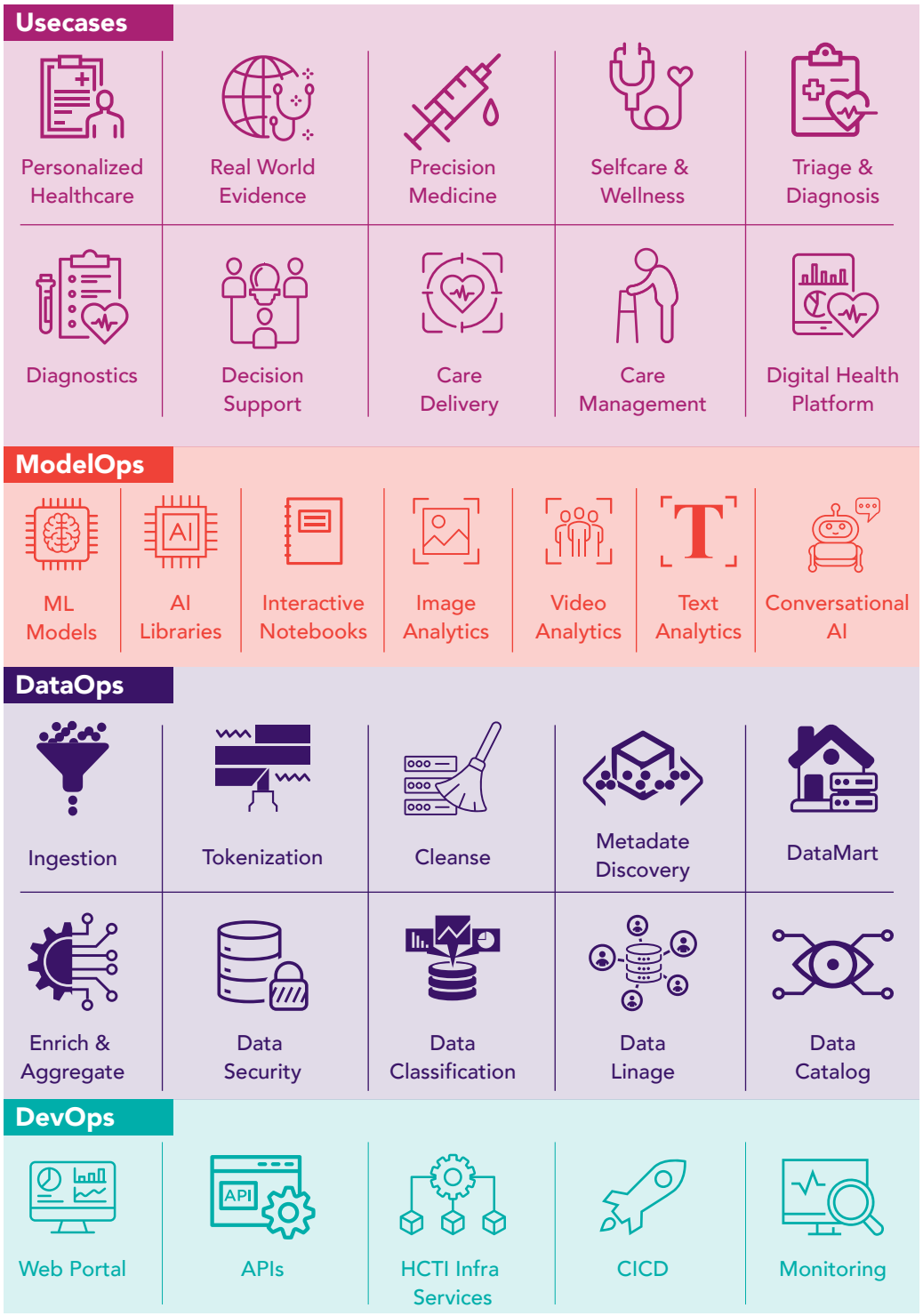
Compliant and Futureproof

- Technical and Monitoring controls to meet compliance reqirements
- Automated & Continuous Compliance Monitoring

Cloud Agnostic

- Modular data services for all Major Cloud Providers

AI Engineering Services



HEALTHCARE TRIANGLE

Reinforcing Healthcare Progess™

Request an Assessment

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"Next Generation Enterprise Analytics and AI Engineering Use cases enabled though seamless DevOps, DataOps & ModelOps "

Healthcare Triangle, Inc.™ (HCTI), based in Pleasanton, Calif., reinforces healthcare progress through breakthrough technology. HCTI achieves HITRUST Certification for Cloud and Data Platform (CaDP) to manage risks. We support healthcare and life sciences organizations improve health outcomes by enabling the adoption of new technologies, data enlightenment, business agility, and accelerating the value of their IT investments. HC/LS turn to HCTI for expertise in cloud transformation, security and compliance, data lifecycle management, and clinical/business performance optimization.