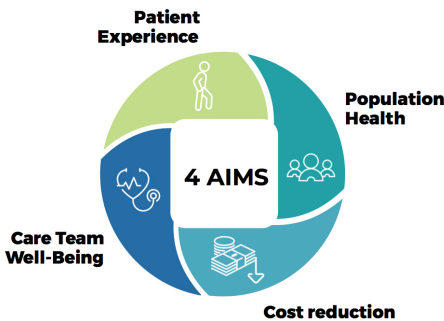


# INTEGRATING PROCESSES WITH ACTIONABLE DATA

The management and delivery of care is increasingly moving beyond the walls of individual institutions towards integrated and coordinated care built around the needs and preferences of the patient. This patient-first approach responds to both the broader aspirations of Quadruple Aim for healthcare and a commitment to enabling patient engagement. Digital-first tools and services are increasingly becoming part of the landscape of care, and the patient expects a single, integrated and coordinated experience.



To meet the needs of their patients, healthcare organisations need real-time visibility of how their services are being used and of the wider health system. The challenge for healthcare providers will be to effectively connect to this new integrated healthcare ecosystem, given that the data required to make this a reality is often not easily accessible. However, these challenges can be addressed with the right approach — including the ability to integrate and ingest data across disparate applications, link data sets, gain evidence-based insights about populations, and support clinical workflows across organisations. Dedalus DC4H® Platform solves these challenges and provides an holistic patient view.

## DEDALUS DC4H® SIX PILLARS OF VALUE: MEETING HEALTHCARE DATA NEEDS












Dedalus DC4H® Platform six pillars' approach enables a comprehensive multi-application ecosystem for innovation and modernisation to support an integrated health system that connects providers, patients and other caregivers across organisational and geographic boundaries.

Dedalus DC4H® supports healthcare organisations in accessing, integrating, ingesting and semantically link data held across multiple clinical settings and systems. As a result, delivering contextual and actionable insights for informed and timely decision-making.

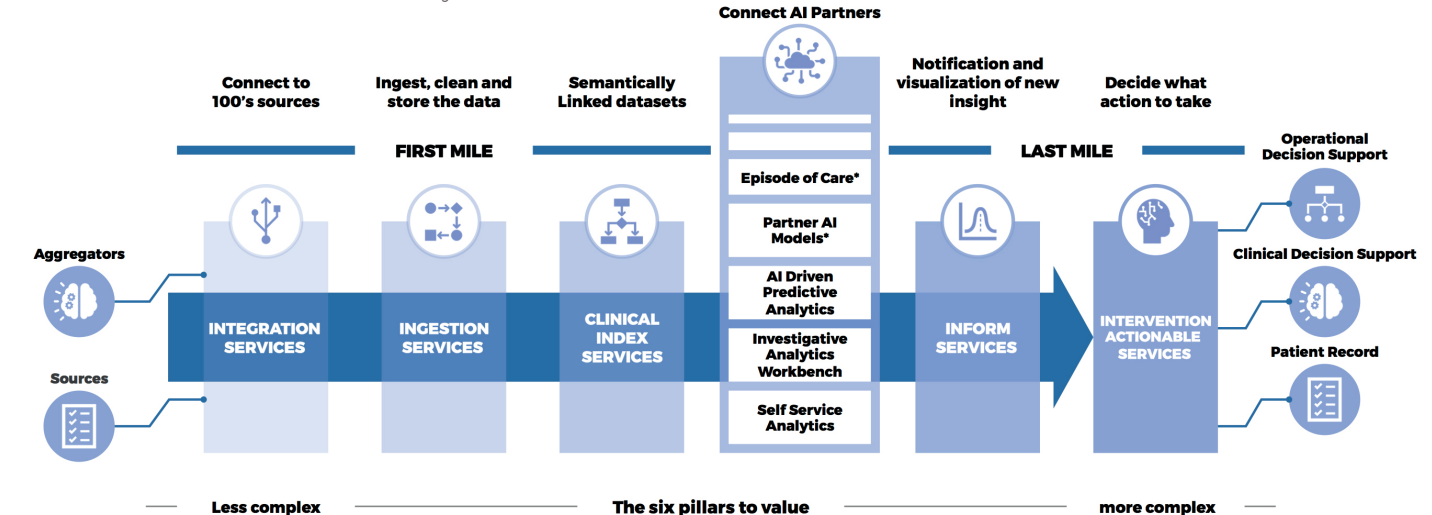
## THE DEDALUS DC4H® DIFFERENCE

As the healthcare industry looks to gain more real-time access to and insights from the vast stores of data and information about patient care, Dedalus DC4H® and its flexible, independent and connected pillars will make it easier to:

-  Integrate data from a wide range of existing healthcare applications.
-  Aggregate data faster and create an open, interoperable, agile platform environment connecting existing and legacy assets.
-  Better understand patients and how they interact with the hospital or other healthcare organisations.
-  Fill the gaps in the investments that businesses have already made in data integration and analytics and maximise the value by tapping into existing investments in data and systems.
-  Enable collaboration with partners across the healthcare ecosystem by leveraging industry standards.
-  Create an integrated care record or a consolidated data lake.
-  Securely share data across the healthcare ecosystem.
-  Deploy a multi-application ecosystem to support patients, providers and care coordinators.
-  Apply vendor-neutral data acquisition and point-of-care automation.

## DEDALUS DC4H® PLATFORM: AN OPEN ECOSYSTEM

Dedalus DC4H® Platform is an open ecosystem offering the building blocks to leverage machine learning (ML) models from third-party artificial intelligence (AI) partners and carry out predictive analytics. Furthermore, DC4H® Platform offers out-of-the-box self-service analytics dashboards for data investigation, as well as the ability to close the loop by triggering events based on clinical/operational decision support, providing a notification or alert to the clinician to act in a timely manner.



### Connect to 100's sources



Dedalus DC4H® connects and integrates existing and future systems, thus supporting the modernisation of legacy applications. DC4H leverages industry standards, such as Health Level Seven - including Clinical Document Architecture (CDA) and Fast Healthcare Interoperability Resources (FHIR) - and Integrating the Healthcare Enterprise (IHE), to allow users to integrate multiple systems and different data sources.

### Ingest, clean and store the data



Dedalus DC4H® integrated care record provides a single entry-point for ingested and aggregated data across multiple sources and normalised to an industry standard. To ensure semantic equivalence, Dedalus DC4H® utilises terminology to seamlessly transition between code systems, allowing all contributing applications to use their preferred nomenclature. Dedalus DC4H® addresses the problem of patient identity by including a Master Patient Index that allows all of the records belonging to a single patient to be matched to their integrated care record.

### Semantically Linked datasets



Once data has been normalised and stored into DC4H® integrated care record, healthcare providers need to determine the meaning of captured data through the "semantic linking" of the data sets. This enables clinicians to ask relevant questions and extract specific data. This addresses the long-standing challenge for healthcare data analysts caused by data being organised and coded in different ways depending on the system from which it originated.

### Connect AI Partners



Providing analytics and evidence-based insights about populations as well as the health of individuals underpins quality caregiving. The intelligence fabric components support visual investigative analysis of data for the generation of actionable insights and care planning. This enables organisations or third-party providers to deploy and execute their AI/ML models, while Dedalus DC4H® ensures that data is mapped from the FHIR integrated record format into the proprietary format usually used by third-party ML model vendors.

### Notification and visualization of new insight



Dedalus DC4H® is being leveraged to forecast models of medical care based on analysis of applied protocols, clinical guidelines, and screening programmes. Success metrics/quality indicators identified by the protocol or screening programme can be monitored by the platform. The inform pillar of DC4H® allows any healthcare professional to access and visualize a patient's clinical information via a powerful "optical layer" to display clinical information available on DC4H® either in the form of clinical documents or atomic, finer-grained clinical data sets from resources stored in the integrated care record.

### Decide what action to take



Dedalus DC4H® Intervene pillar allows clinicians to visualise an event and provides them with an intervention based on clinical decision support best practices. The data enables healthcare organisations to optimise their productivity and support health outcomes. Once the information is generated, rather than using static dashboards that provide the data but don't provide contextual information to the clinician, the Intervene pillar uses a set of defined business rules and automated processes, through a notification or alert, to offer an action based on what is actually happening.

