

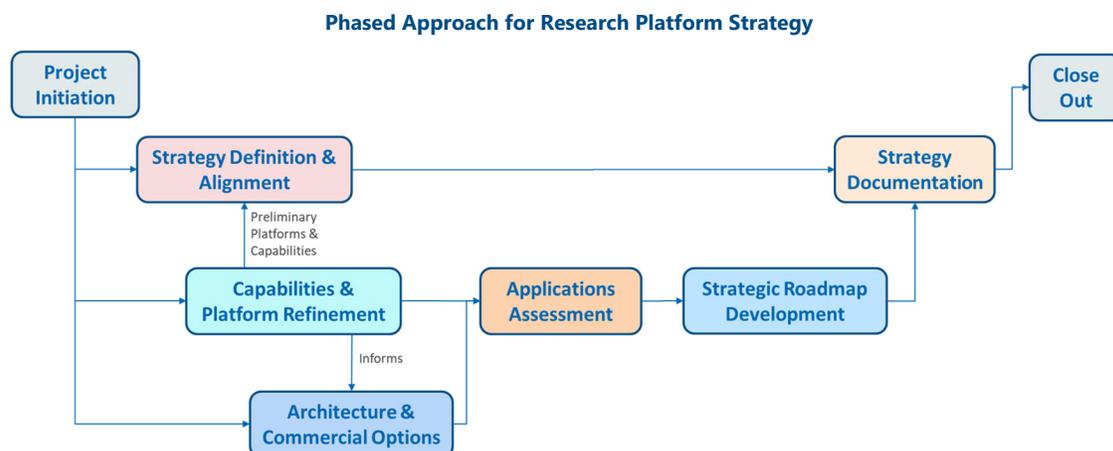
# Developing a Data Centric, Platform Based Technology Strategy for Research and Early Development

## THE SITUATION

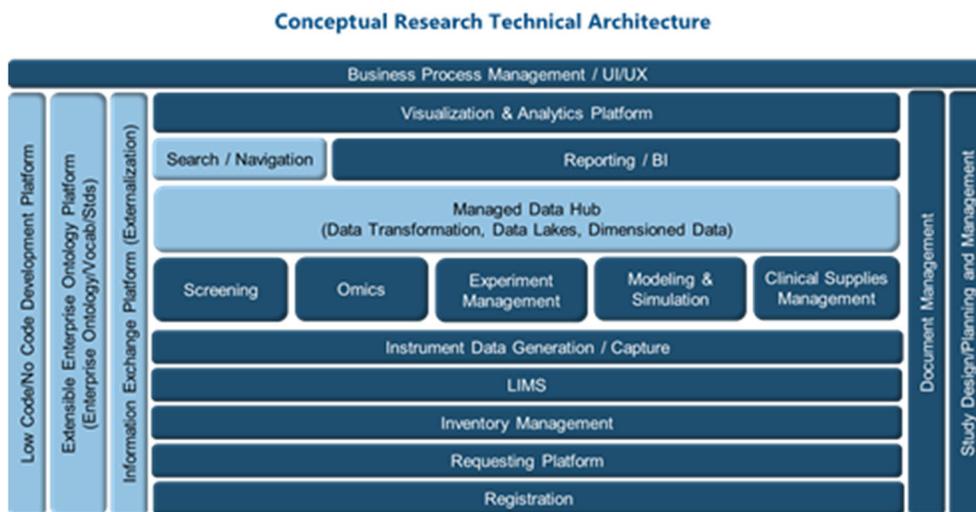
This global pharmaceutical company had grown steadily over many decades through many acquisitions. For much of that period, technology management was decentralized allowing each business unit and site to invest independently. Over time, this led to a significant duplication of systems and processes with inconsistent data. As executive leadership called for more capabilities to leverage research and development efforts globally, it became clear that the technology strategy needed to change. To fuel the next stage of company growth, they desired to integrate technology capabilities across research and early development functional areas, and across many geographic regions.

## THE SOLUTION

ResultWorks was called upon to develop a comprehensive strategy and roadmap to move to a modern, global, data centric, platform-based architecture with a mix of cloud and on-premises technologies. The strategy also needed to enhance company capabilities for interchange and collaboration with external partners and vendors.



ResultWorks offered a phased project approach outlined in the graphic below. One of the first hurdles was to transition the team thinking about technology platforms where a platform is defined as a suite of modules/ applications/ components that are used together to deliver multiple complex business processes. Platform definition must be approached logically to model specific domain needs expressed independently of technologies. Only after the logical platform has been defined can the physical platform be addressed considering actual commercial solutions and technologies.



Once business capabilities and logical platforms were defined, the team evolved a technical architecture. A generalized conceptual version of the architecture is shown in the graphic below structured as layers of logical technology platforms. The platforms provided the basis to assess commercial technology options from current vendor offerings to vendor technology plans over the ensuing planning horizon. Over 40 technology vendors were evaluated at a level sufficient to determine the top vendors for each platform. A subsequent applications assessment mapped existing technologies in use by the client to the viable commercial options under consideration. A comprehensive strategy roadmap was then developed for each platform with detailed project descriptions for each identified project.

Fundamental to a program of this size is the management and team commitment to driving through the myriad of organizational, process, data, and technology issues. At the outset, a cohesive team was built, and the team adopted a set of guiding elements, agreed on a vision statement and a purpose, and incorporated key business drivers into the decision making throughout the project. The result was a comprehensive strategy document structured to meet the vision of providing the right data, to the right people, at the right time.

## KEY BENEFITS

---

**Capabilities Definition:** Defined needed capabilities focused on key business and technical capabilities and mapped those capabilities to existing systems to identify gaps

**Logical Platform Centric Design:** Designed a logical platform to support work execution, information management, technical capabilities and supporting capabilities

**Reference Architecture:** Developed a reference architecture to support the platforms and which addressed global performance considerations

**Physical Platform:** Identified physical platform options and assessed commercial options for instantiation and assessed existing applications to identify long term dispensation

**Aligned Strategy:** The team aligned on the technology strategy and adopted a strategy roadmap for implementation

“Your work describing R&D capability platforms, how they work, and how they integrate is the best I have seen. I plan to use this as we work with this team and beyond on methods for implementing a data centric, platform centric technology landscape for our transformation efforts

– R&D Transformation Program Office Lead

For more information, visit our website [www.resultworksllc.com](http://www.resultworksllc.com) or contact us at [marketing@resultworksllc.com](mailto:marketing@resultworksllc.com).