



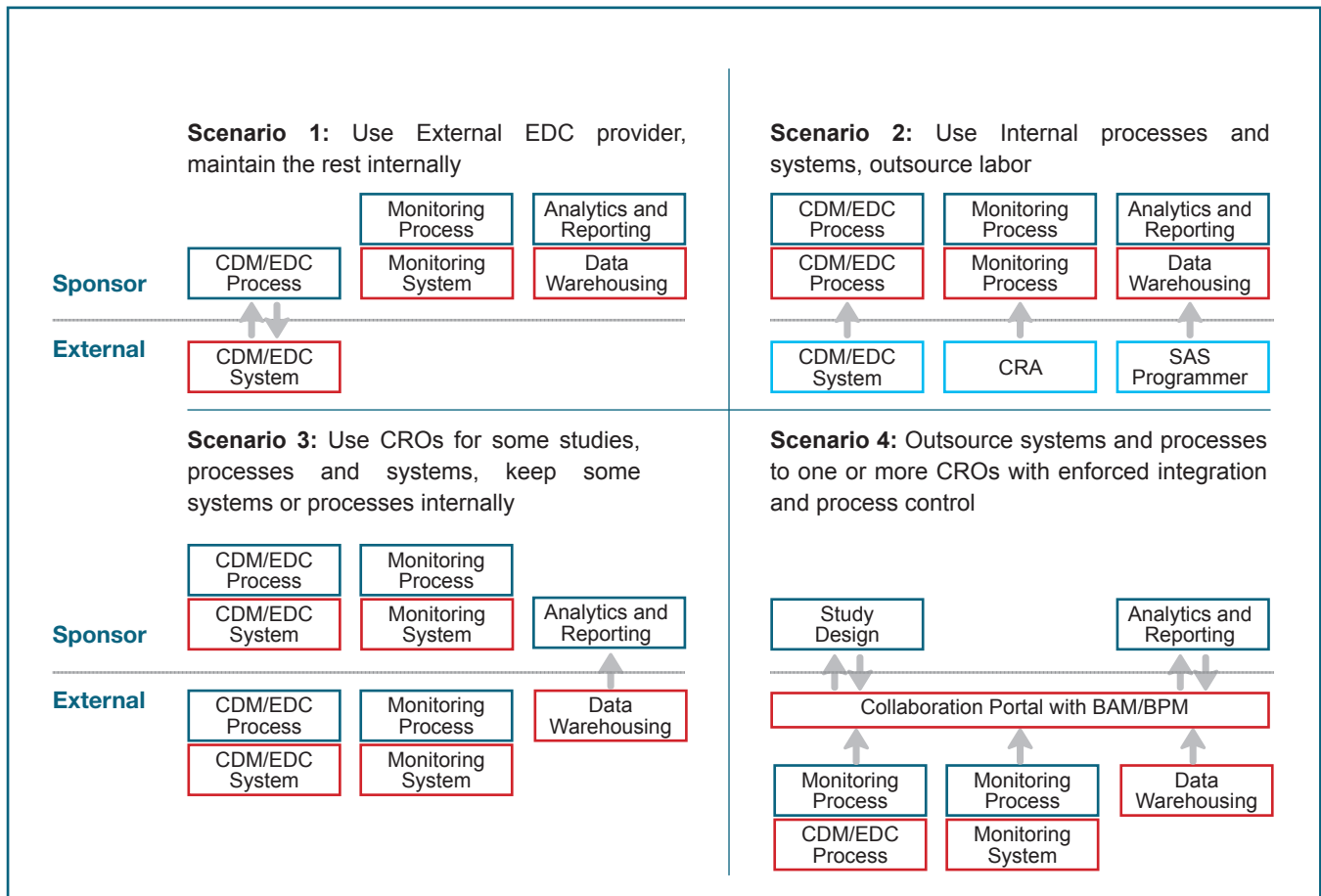
Unambiguous insights through
HCL's R&D Transformation

Unlimit your business



Life Sciences industry is undergoing a transformational change - blockbuster patent expirations, global interconnected world, and increased regulatory scrutiny. We are at the verge of transitioning to personalized medicine, enabled by translational research and technological innovation. The traditional models through which the Pharma companies operated are becoming obsolete with the emergence of a new ecosystem of partnership driven by externalization & enhanced collaborations with IT providers and functional service providers alike. Pharma companies adopt one or more of the models below for their clinical needs, based on their outsourcing maturity.

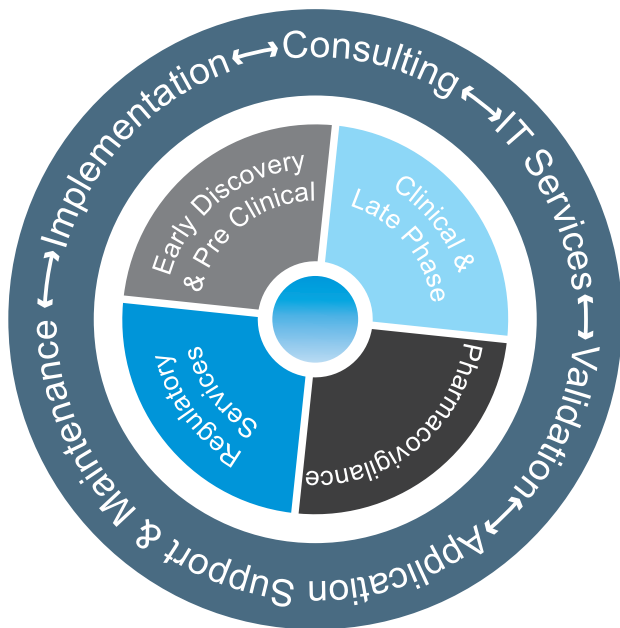
Evolving Clinical Business Models



Irrespective of the model adopted, the fact remains that the **Next-Gen R&D** is **patient-centric** thus demanding R&D platforms to be agile, and disruptive, fostering innovation and collaboration while supporting emergence of SMAC (Social, Mobile, Analytics and Cloud).



Competency across R&D value chain



- 1 **Strategic Consulting for R&D Transformation**
 - Cloud Adoption, BPaaS, PaaS
 - CDISC Standards Adoption (BRIDG, CDASH, SDTM)
 - R&D Externalization
 - Clinical Systems Roadmap and Implementation
- 2 **Full BPO experience from protocol to submission since over 11 years**
 - CDM, Site Monitoring, Biostats & Programming, Medical Writing
- 3 **Strategic Partner for implementation of multi-year Integrated Development Platform**
 - Oracle HS product suite Implementation, Integration, Testing and Enhancements
- 4 **CDISC SDTM Conversion** (legacy, in-line studies) and Cloud Based Assembly Line Services
- 5 **Largest Pharma R&D IT support in Industry**
 - 390+ Applications supporting end to end process
 - Supporting 95% trials of customer's legacy pipeline

With a dedicated Life Sciences practice that provides services across the complete Pharma value chain, and with our dedicated partnerships with market leaders in Life sciences product space, we have been helping clients in creating new propositions and innovative solutions through Data standardization, rationalization and consolidation of disparate systems leading to higher quality & improved decision making while simplifying R&D operations and governance.

HCL's R&D Transformation would guarantee reduced costs of ownership through its innovative pricing models and outcome-based partnerships. HCL via its deep rooted industry expertise in innovation, historical R&D experience with global giants, diverse geographical outreach, is uniquely positioned to enable its customers achieve objectives of "run", "improve" and "transform" initiatives in the R&D Space



HCL has developed unique transformation solutions taking a 360° view of the entire R&D transformation process:

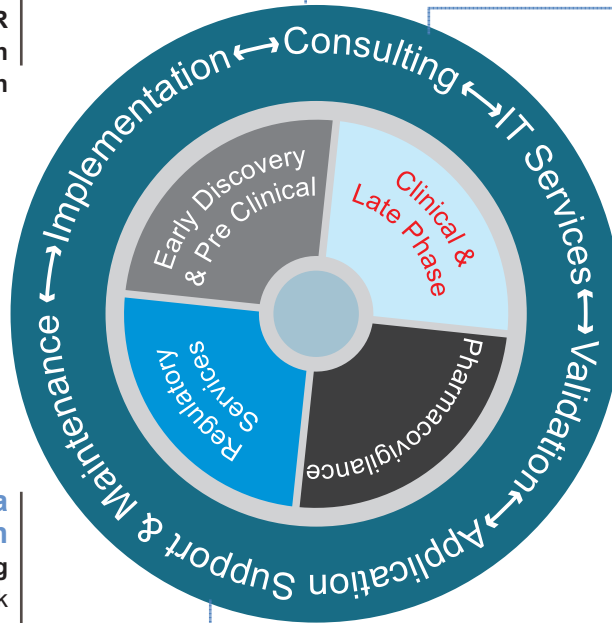
Differentiated Solutions in R&D

PaaS - Platform as a Service

- Platform as a Service for EDC, CTMS, eTMF, CDR
- Savings up to 30-40% in implementation

DaaS - Data Integration as a Service

- Smooth on-boarding of CROs and exchange of patient and operational data. Supports BRIDG, SDTM, ADaM
- Cycle time reduction of up to 40%



Global Clinical Data Monitoring Solution

- Optimize data monitoring with flexible and risk balanced approach
- Savings up to 40-50% in clinical operations

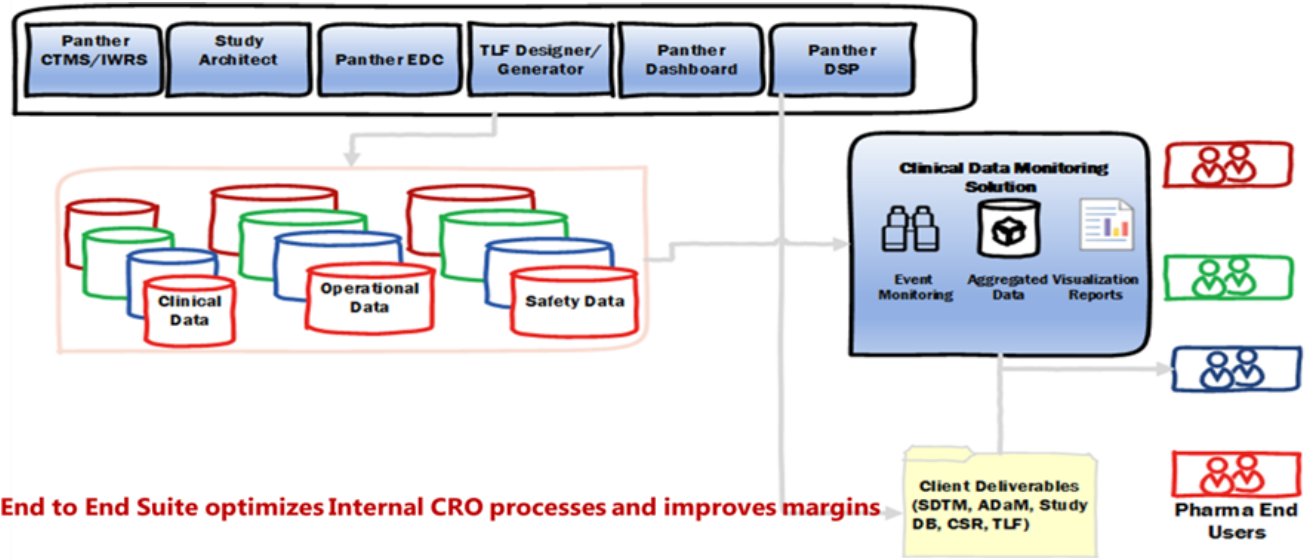
End to End Patient Data Flow (EDC to CDR Toolkit)

- Comprehensive set of adapters (EDC to CDR), BRIDG-based data model and LSH based integration and enhancements
- Savings up to 20-30% in implementation



PaaS – Platform as a Service for Early Phase:

Scalable and secure Cloud offering to enable accelerated implementation of clinical systems to support early phase clinical trials. Relieves Sponsors from managing operational complications through Integrated Service Delivery covering Configuration, Data Migration, Business services, Infrastructure as a Service and Cloud Hosting.



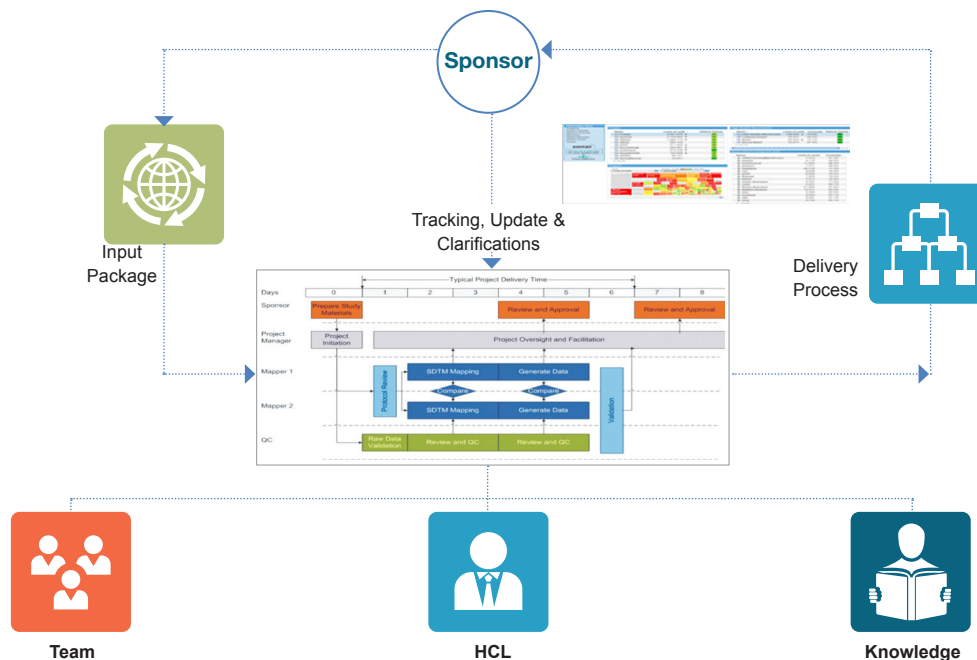
- Utility Based Model supports multiple environments with no upfront capital investment by Sponsors
- Relieves Sponsors from managing operational complications and data eccentricity
- Cycle time reduction of up to 35-40%

DIAAS - CDISC Standards Conversion Platform:

“One Stop Shop” for data transformation from any source to any industry or proprietary target standards.

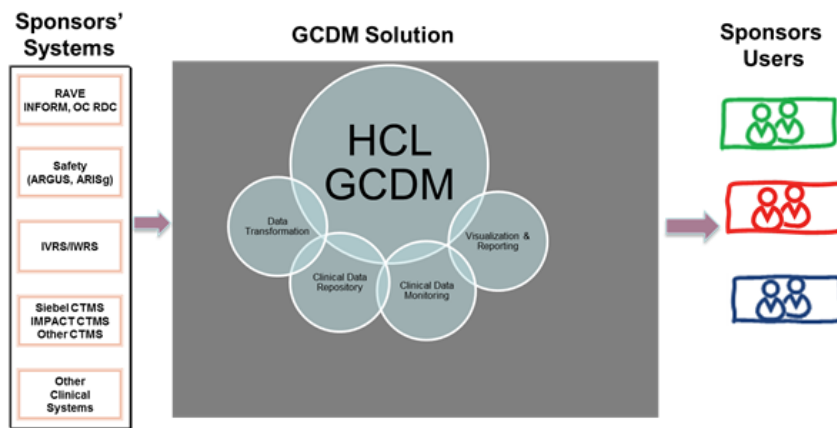
- CDISC registered platform for legacy and live clinical study conversion
- Metadata driven and workflow managed
- Supports BRIDG, HL7, CDISC standards
- Comprehensive QA process with standard & custom checks (Open CDISC™)
- 100% transparency and traceability





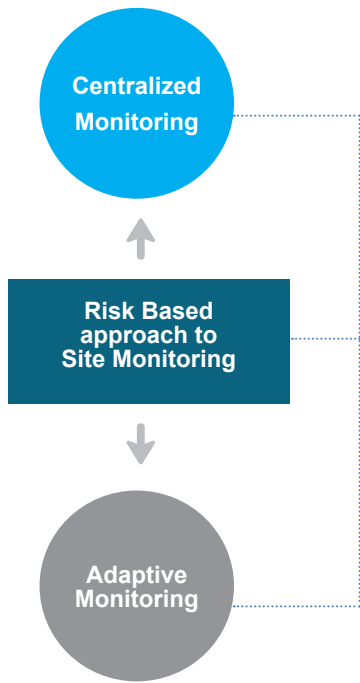
- Cloud based platform with virtually unlimited scalability and complete security
- Minimizes sponsors' time/resource requirements
- Simplified pricing with an average \$15k/study

Global Clinical Data Monitoring Solution:



It combines best of breed partner products in Data Transformation, CDR, and Monitoring with HCL integration, data standards and analytics to provide continuous monitoring of processes and information across the clinical trials landscape.





Improved Quality

- Reduced query resolution time
- Reduction in number of protocol deviations
- Identification of unusual data trends
- Ability to focus on critical study parameters



Trial Execution Time Savings

- Perpetual Site performance improvement measures
- Ability to focus on recruitment strategies
- Lowering the subject withdrawals



Savings

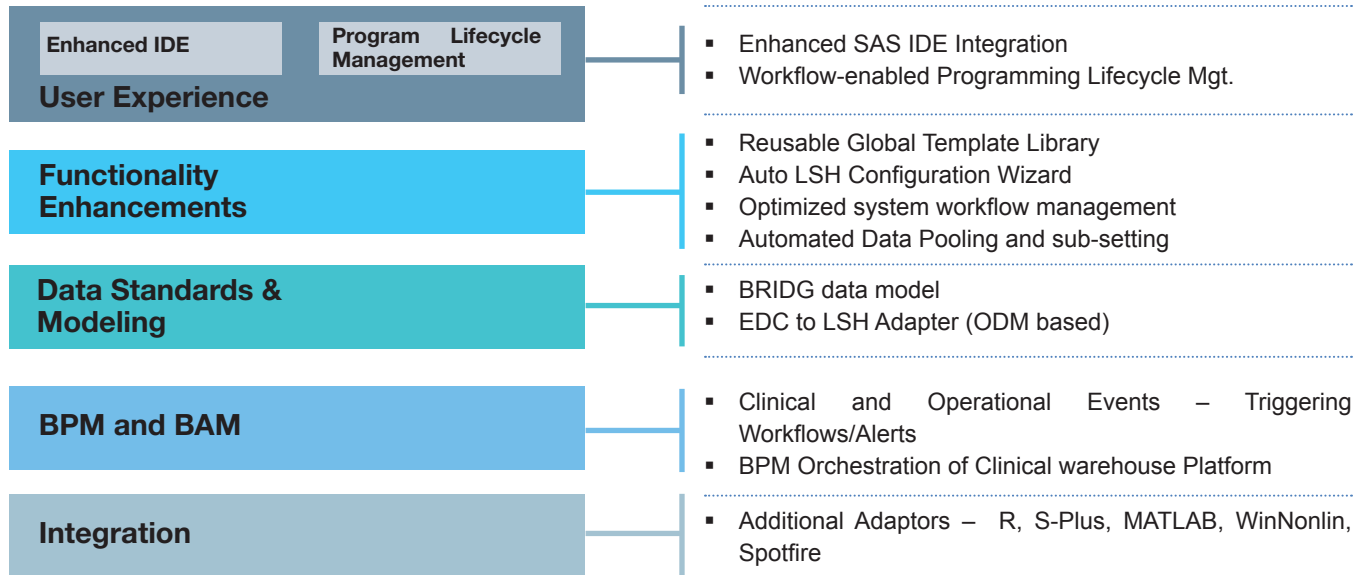
- 40-45% savings in overall monitoring costs
- Reduced onsite monitoring visits
- Decreased CRA workload
- Effective utilization of monitoring resources

- Improve quality and integrity of data thus reducing overall regulatory submission risk
- Allows onsite CRAs to focus on more strategic tasks
- Cost savings of up to 40% associated with clinical site monitoring



End-to-end Patient Data Flow (EDC to CDR Tool Kit):

Comprehensive data modeling (BRIDG based) and proprietary LSH tools and accelerators for functionality enhancements and improved user experience.



- Data Model supportive of healthcare, clinical, genomics and other disparate data sources.
- Better acceptance by SAS programmers and clinical staff in working with LSH and reduces configuration time up to 80%
- Enhances LSH with data-driven event monitoring and enables “fraud detection signals”

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About HCL Technologies

HCL Technologies is a leading global IT services company working with clients in the areas that impact and redefine the core of their businesses. Since its emergence on global landscape after its IPO in 1999, HCL has focused on 'transformational outsourcing', underlined by innovation and value creation, offering an integrated portfolio of services including software-led IT solutions, remote infrastructure management, engineering and R&D services and Business services. HCL leverages its extensive global offshore infrastructure and network of offices in 31 countries to provide holistic, multi-service delivery in key industry verticals including Financial Services, Manufacturing, Consumer Services, Public Services and Healthcare & Life Sciences. HCL takes pride in its philosophy of 'Employees First, Customers Second' which empowers its 90,190 transformers to create real value for the customers. HCL Technologies, along with its subsidiaries, had consolidated revenues of US\$ 5.2 billion, as on 31st March 2014 (on LTM basis). For more information, please visit www.hcltech.com

HCL – Life Sciences & Healthcare

HCL is one of the market leaders in life sciences & healthcare IT service providers. HCL's clientele includes nine of the top ten global pharmaceutical companies, six of the top ten health insurers, one of the largest payer conglomerates in US and top five service providers in UK. With experienced and certified technology and domain specialists, HCL offers services in the critical areas of drug discovery, clinical development, drug safety, Pharmacovigilance, regulatory compliance, manufacturing and plant automation, sales and marketing, member experience management, fraud, waste and abuse management, ICD-10 transformation and others.