



Growth partnership for a self-care centric lifestyle

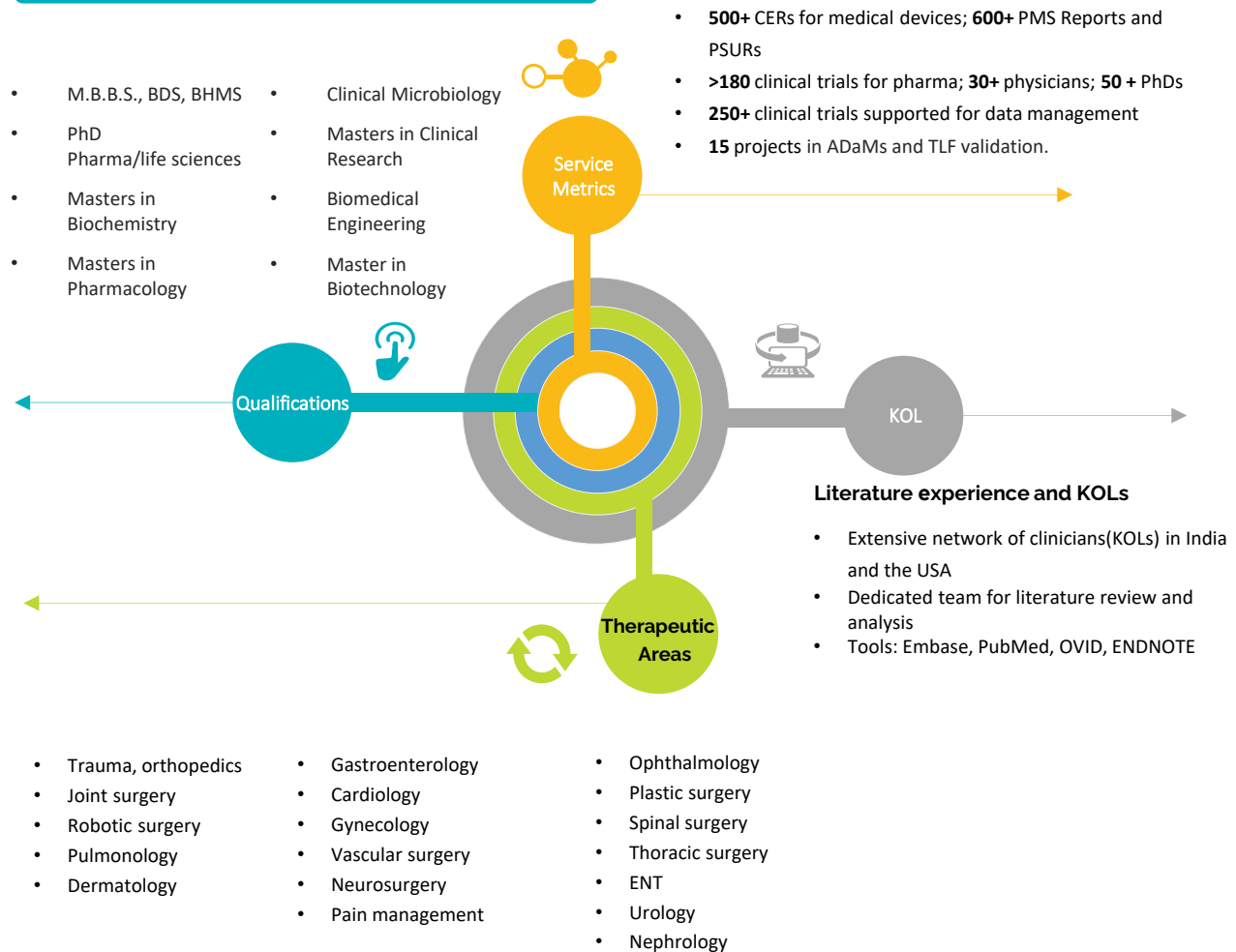
Innovation | Acceleration | Growth



HCL Medical Affairs Center of Excellence

Medical affairs CoE

Global presence – 400+ resources USA, EU, Canada, India



Medical device clinical evaluation report and PMS services



- Gap assessments for CER
- Creation/update of clinical evaluation plan and report for EU, China, Australia
- Periodic risk evaluation reports (PRER) – China



- Creation and update of PMS plan, PMS report, PSUR,
- Creation of SSCP, PMCF plan and report
- Validation of clinical claims



- Literature search and analysis
- Complaint analysis – medical records
- Risk-benefit analysis
- Risk management file review

Clinical trials – End-to-end services

Medical writing

- Clinical trial documents
- Publications
- Posters, brochures, flyers, manuscripts
- Scientific slide decks
- Medical information documents
- Standardized process flow for content creation

Biometrics

- Study setup phase
- Data management
- EDC platforms and standards
- Statistical consulting
- Statistical analysis plan
- SAS programming
- Reporting and analysis

Safety management

- Review subject eligibility
- SAE management
- Medical monitoring
- Medical coding
- PSURs, PBRERs, PADER, clinical overview documents

Clinical data management service overview

Study start up phase

- Protocol finalization
- DMP development
- eCRF/DB Design
- DB testing and UAT
- Edit check specifications programming and validation
- Go-Live

Study conduct phase

- Discrepancy management
- Medical coding
- External data reconciliation
- SAE reconciliation
- Manual listings review

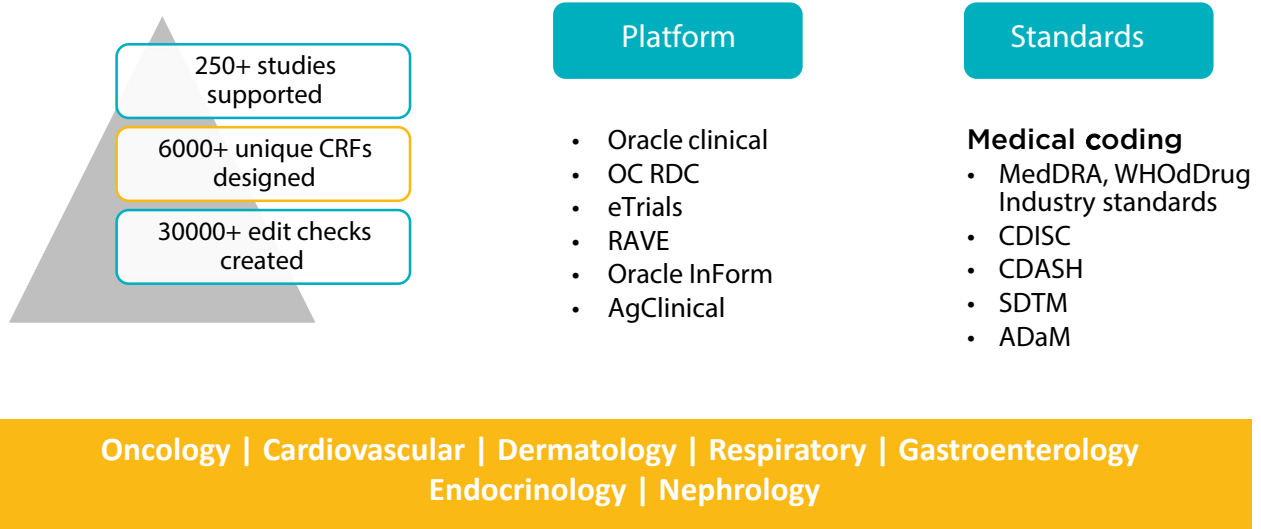
Study close out phase

- Clean patient tracking
- Quality review
- Pre-database lock activities
- Database lock

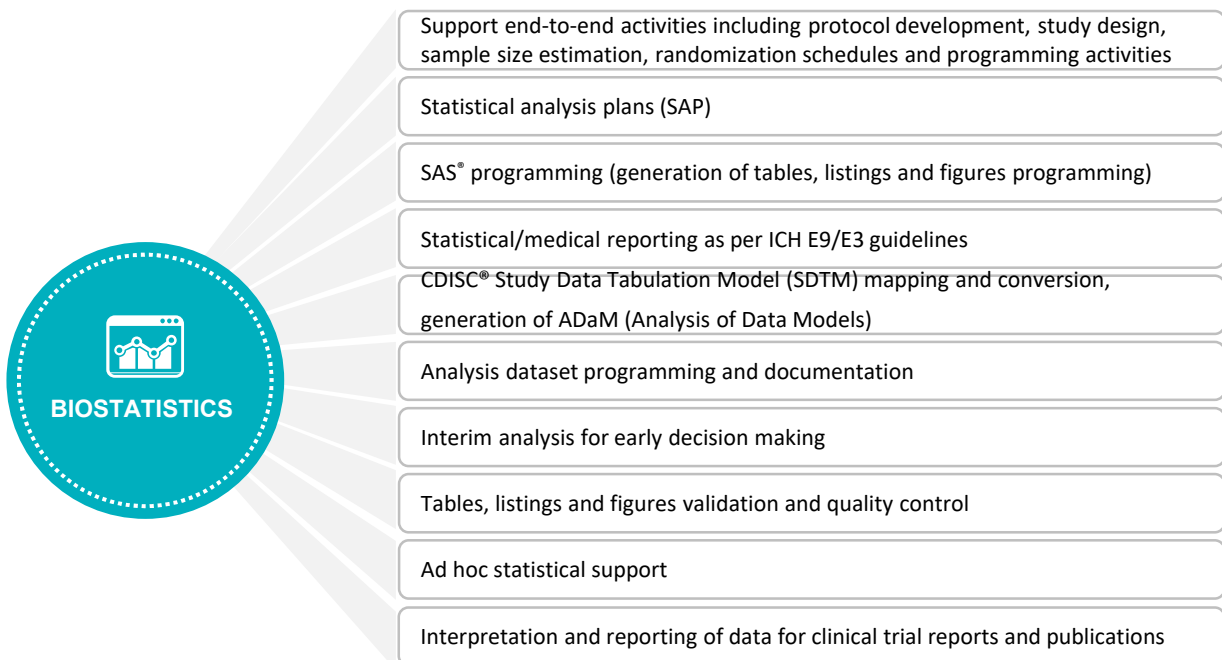


Capabilities and platform

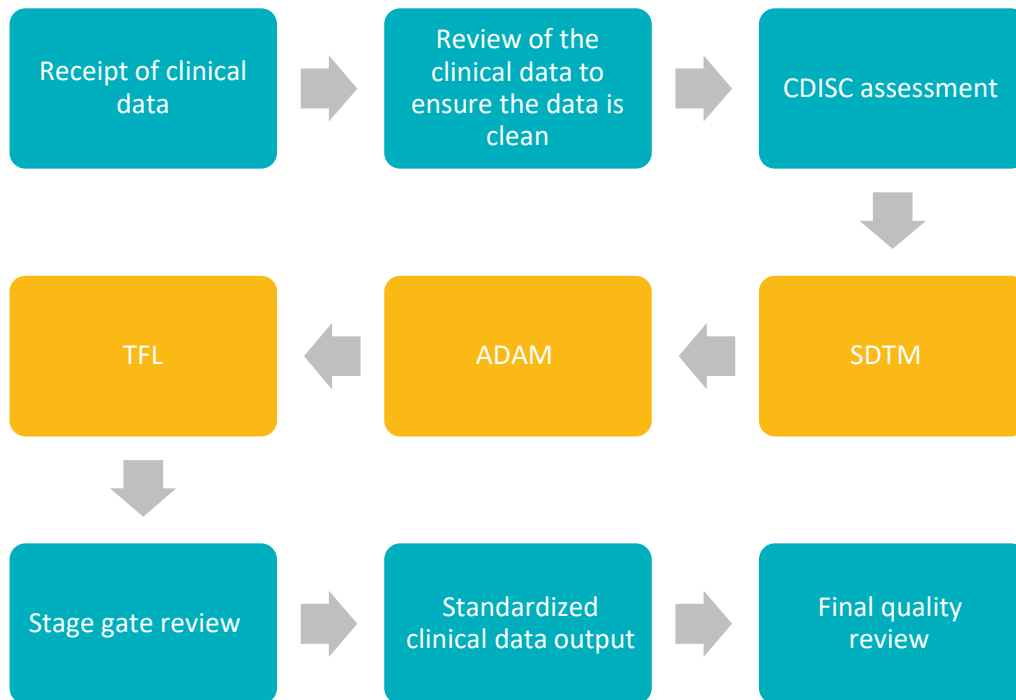
- Clinical data management offers flexible service offerings
- Several customer audits with <5% minor observations and been part of ISO and DCGI audits



Biostatistics overview

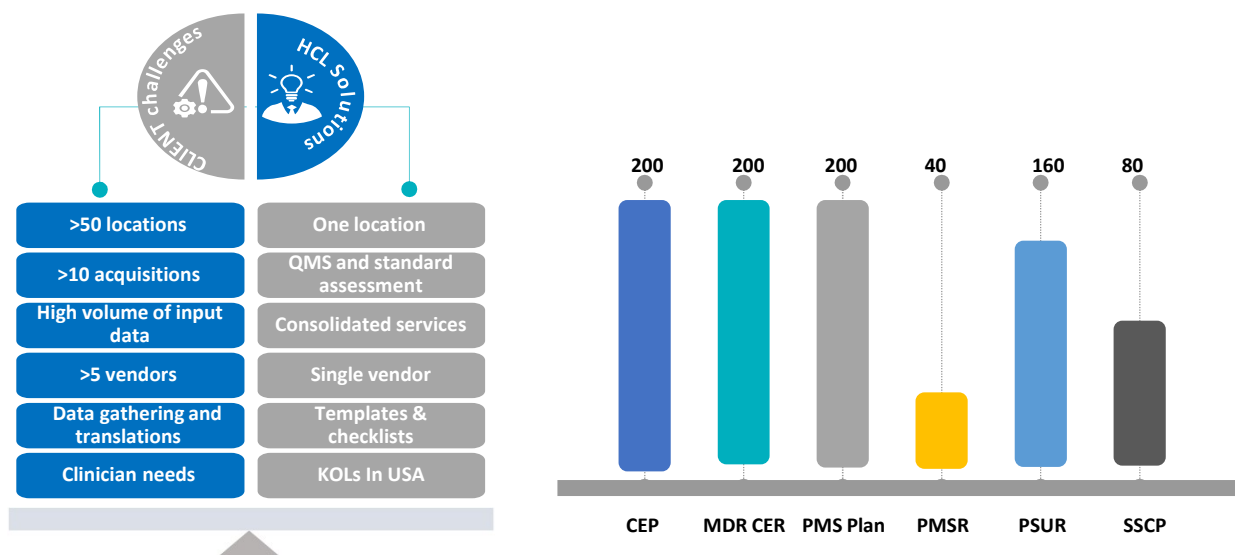


Statistical programming flow



- Successfully completed around 15 projects in ADaMs and TLF validation
- 10 ongoing projects in medical devices
- 100 % high accuracy rate and client appreciation for on-time delivery

Centralized clinical support for a large medical device leader



Volume increase from 100 to 680+ documents in 5 years



CER creation template creation



Support in notified body audits



Flowchart for PMCF assessment



Dedicated medical writing team comprising technical writers, medical writers, SMEs, expert quality reviewers and copy editors



30%

Reduction in cost



100%

Adherence to timelines



One-stop
solution

Case study : Centralized clinical support for a large medical device leader



Dr. Praveen Kandula
Nephrologist



Dr. Ira Davis
Pediatric Nephrologist



Dr Prashanth Sreeramoju
General Surgeon



Dr. Rahul Pannala
Gastroenterologist



Dr. Joshua
Cardiothoracic Surgeon



Dr. Swetha Kandula
Dermatologist



Dr. Radha Annamalai
Ophthalmologist



Dr. Suresh Chandra
Surgical
Gastroenterologist &
Laproscopic Surgeon



HCL medical affairs - Subject matter experts



Dr. Sreedhar Bunga
MBBS, MPH
19yrs in Clinical Research



Dr. Padma Priya
MBBS, MSc CRRA
15+yrs in Pharma & Medical Devices



Dr. Arun Bhaskar
MBBS, MMST (IIT Kharagpur)
10+ years in Clinical Research



Rashmi Angeline Grace V
MBA, Msc IT
13 yrs in Clinical Data Management



Thambidurai Muthusamy
Masters in Pharmacy
10+yrs in Pharma & Medical Devices



Lakshmi C A
Masters in Biotechnology
13+ years in Clinical Research



Bharath Kumar Yakkala
Masters in Statistics
8+ years in Clinical Research

HCL experience with notified bodies

Notified body review comments

Clarifications on clinical evidence of devices based on available information, appraisal criteria, request for submission of device promotional materials, query on PMCF plan requirement, CER sections on device claims and clinical benefits to substantiate scientifically sound evidence

CERs completed

Class I, IIa, IIb & III – 500 CERs
MDR CERs - 50

PMS experience

Creation of 150 PMS plans, 200 PMS reports, 73 PSURs, 10 PMCF plans, 2 SSCPs

Notified body audits

BSI, TUV SUD, TUV Rheinland, DEKRA and DQS
20 engagements (US/Japan/EU customer)

- >100 CERs went through the NB review and had < 5% observations
- HCL has supported a US client during BSI's Assessment of technical documentation for one of the CERs and received positive feedback with no major findings on the CER
- HCL supported CE certification of two products belonging to Japan OEMs. Both the CERs written by HCL were accepted by NBs.

CDM case study 1



Challenges

- The client is one of the world's largest pharmaceutical companies based in the US
- Handling huge volume of external data reconciliation including outliers while performing end-to-end activities for phase 3 study
- Reconciling vendor data (Lab & SAE) with clinical database data is time-consuming and tedious

- Introduced SAS system to avoid manual reconciliation of vendor lab data and SAE
- SAS reports were programmed in such a way highlighting the discrepancies to be reviewed by data managers



HCL Solution



- Reviewers can easily compare the lab data, SAE data and clinical data in stringent timelines while reviewing overall data.
- Reconciliation process was streamlined with access to all key stakeholders
- Readily available metrics, reduced reconciliation time up to 75%

Outcome

CDM case study 2



Challenges

- The client is a global pharmaceutical company dedicated to clinical trials. The challenge during reconciliation activities were vendor sending the external data (Lab data, SAE data) in a different format template from agreed over the initial agreement discussion
- Large multicentric clinical trial services involving multiple geography and vendors
- Delay in transferring the data impacts the whole reconciliation process delay and in analyzing the critical data

- Established a procedure to ensure external data transfer in agreed format from all vendors. Maintaining uniformity in the reference ranges and units as defined in the protocol
- Perform test transfer before production
- Review and clean external data on an ongoing basis



HCL Solution



- Seamless functioning with multiple vendors and sites throughout the world
- Efforts been channelized properly and rework on reconciliation data format have been eliminated by 80%

Outcome

SAS programming case study 1



- Validating correctness of raw data for multicenter phase III study
- If data discrepancies are identified in later stages, like in reports, then the whole process has to be repeated and likely lead to corrections in SDTMS, ADAMS and REPORTS (also database unlock rarely)
- This could impact study timelines, cost and data quality

Challenges

- Use of standard macros for early detection of discrepancies from the raw data using edit check programming (both manual and system-driven).



HCL Solution



- 100% clean datasets
- Saves a significant amount of time

Outcome

SAS programming case study 2



Validation and output review for critical and most-critical data

Challenges

- Risk-based validation approach for primary and secondary endpoints
- Pass through multiple QC gateways
- Parallel approach on both production and validation process



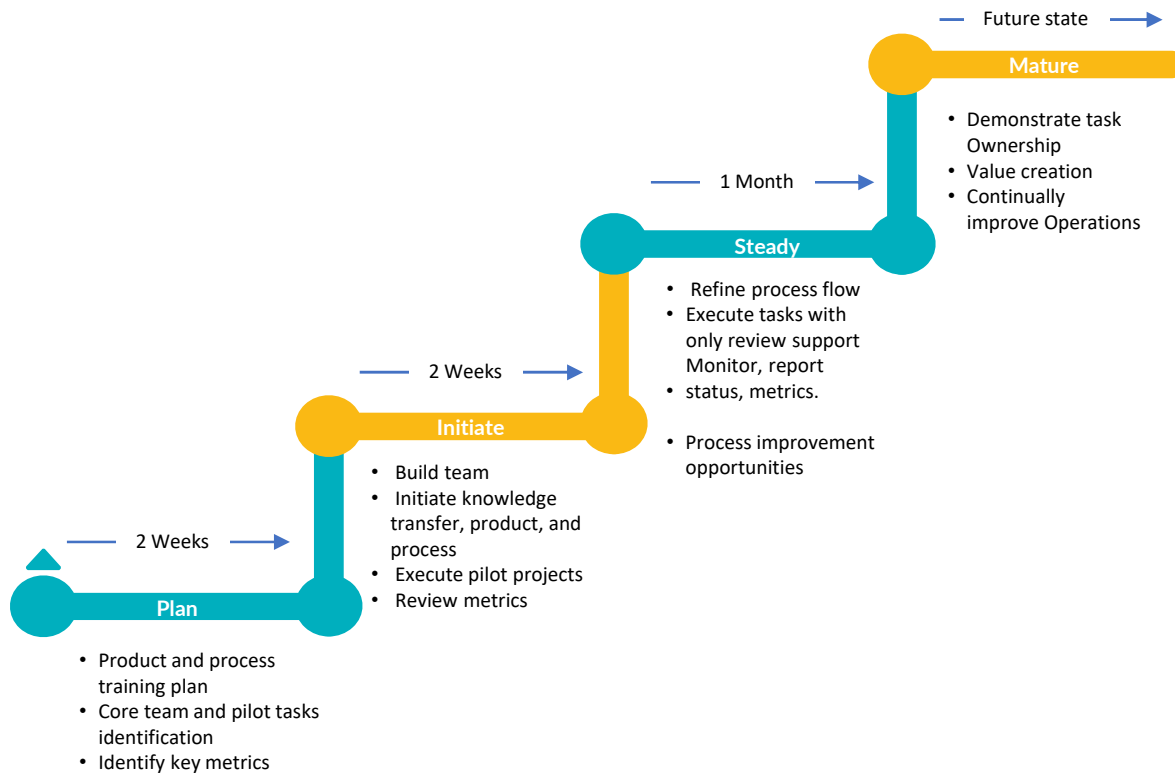
HCL Solution



- First-time quality
- High accuracy
- On-time delivery of datasets (SDTM's, ADAM's) and TFL analysis reports

Outcome

Change management / transition approach



Scalability, training, and issue resolution

20-25% additional resources in the clinical team



HCL can ramp up to around 40-50 resources in 8-10 weeks of time



Project 1



Project 2



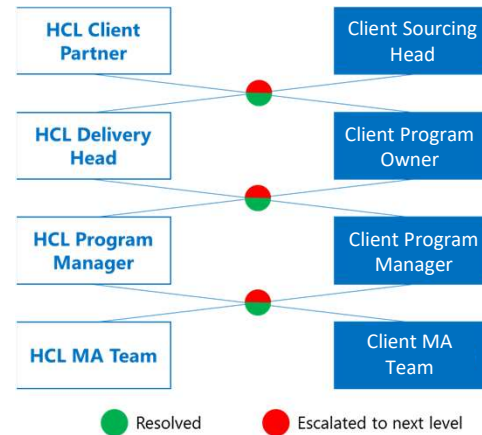
Project 3

Client BU-specific onboarding, process and products training

Project alignment

Associate development plan	Skill GAP assessment done for all associates and training are provided per the gaps identified
Critical resource developmental plan	Critical resources are identified and rated by HCL and client managers and a developmental are initiated.
Succession & Rotation Plan	Succession plan and rotation plan are put in a place to ensure associates are rotated to mitigate personal dependencies.

Strong governance mechanism jointly managed by HCL & Client



Continuous monitoring of program health and course correction through:

Weekly status reporting | Monthly project reviews | Quarterly business reviews

FOR MORE INFORMATION, PLEASE CONTACT

ERS.info@hcl.com



www.hcltech.com

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HCL offers its services and products through three lines of business - IT and Business Services (ITBS), Engineering and R&D Services (ERS), and Products & Platforms (P&P). ITBS enables global enterprises to transform their businesses through offerings in areas of Applications, Infrastructure, Digital Process Operations, and next generation digital transformation solutions. ERS offers engineering services and solutions in all aspects of product development and platform engineering while under P&P. HCL provides modernized software products to global clients for their technology and industry specific requirements. Through its cutting-edge co-innovation labs, global delivery capabilities, and broad global network, HCL delivers holistic services in various industry verticals, categorized under Financial Services, Manufacturing, Technology & Services, Telecom & Media, Retail & CPG, Life Sciences, and Healthcare and Public Services.

As a leading global technology company, HCL takes pride in its diversity, social responsibility, sustainability, and education initiatives. As of 12 months ending on December 31, 2021, HCL has a consolidated revenue of US\$ 11.18 billion and its 197,777 ideapreneurs operate out of 52 countries. For more information, visit www.hcltech.com