Reliability And Data Accuracy for Right Decisions -

Data Assurance

Organizations are adopting newer technologies to draw insights from gathered data for driving their business strategies. Ensuring Data quality, integrity and security is no more optional. Many organizations are now looking for scalable, flexible and reliable cloud-based data warehouses. Infrastructure plays a key role for organizations to obtain an acceptable return from their data warehousing investments. Organizations usually face issues in areas of Data Coverage, Performance & Security of Data Processing Systems, Data Quality & Correctness, and Test Data Availability. Another issue is the lack of holistic data QA strategy, which not only impacts quality but also leads to higher expenses.

To overcome the above challenges, LTI has developed a proprietary innovative solution, RADAR (Reliability and Data Accuracy for Right Decisions), to handle data assurance needs.
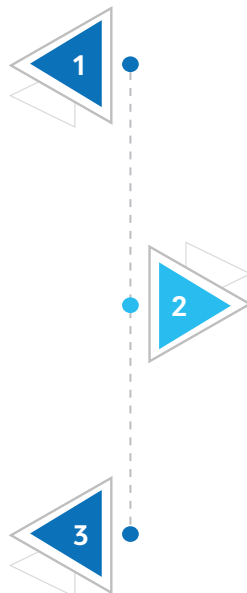
Data Assurance using RADAR

LTI's RADAR is designed with a keen focus around People, Processes and Technology engaged for Data Assurance. It offers end-to-end solutions across the data warehouse/business intelligence lifecycle as mentioned below:

Data Warehouse Testing

- Data Structure and Schema Validation

- Data Quality & Integrity Validation

- Data Completeness & Correctness Validation

- E2E Business Rules Validation

Business Intelligence Testing

- Dimensions and Metrics Validation

- Pixel to pixel text comparison and Layout validation

- Data reconciliation

- Report Testing

Data Migration Testing

- Data Transformation Validation

- Referential Integrity Verification

- Data Corruption/Redundancy Verification

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- RADAR - Reliability And Data Accuracy for Right Decisions

Data Warehouse

Database comparison across:

- Oracle, Teradata, DB2, MySQL, SQL server, Sybase, Netezza, SAP BW

- Flat, Excel, CSV, PSV, XML, Fixed Length File

Big Data Assurance

- Heterogeneous data sources validation

- Field level validations for structured and semi-structured data

- Checksum based data validation for un-structured data

- Data validation engine using MapReduce

- Validation in Hadoop cluster

Business Intelligence & Reports

- Text and image comparison in PDF files

- Excel sheet comparator and merger utility

- XML comparator and merger utility

Enterprise Test Data Management Tools

ETDM Realistic Right Sized Masked Data ▶ Data Subset | Data Generation | Data Masking

Business Benefits

- Dedicated DW/BI Testing Practice with a certified pool of domain and technical experts

- Strong expertise in setting up DW/BI Testing CoEs for global clients and a well-defined readily available DW/BI Process Framework

- Intensive Delivery Model, improving test data coverage upto 100%

- Proprietary comprehensive framework RADAR, enabling reduction in testing efforts by 60%

- Pre-defined Data Validation strategies to identify bad or unwanted data

- Continuous innovation by creating client-specific IPs, and implementing continuous improvement

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CASE STUDY - Implementation of RADAR increases Test Coverage and Automation for a leading US-based P&C Insurer

The Client

US-based Global Insurance Company, offering a wide variety of Insurance & Surety products, as well as Risk Management Services, to numerous types of businesses, organizations and individuals.

Challenges

Large volume of data from multiple and disparate sources affecting Data Accuracy, Consistency & Reliability

Lack of technology agnostic automation tools

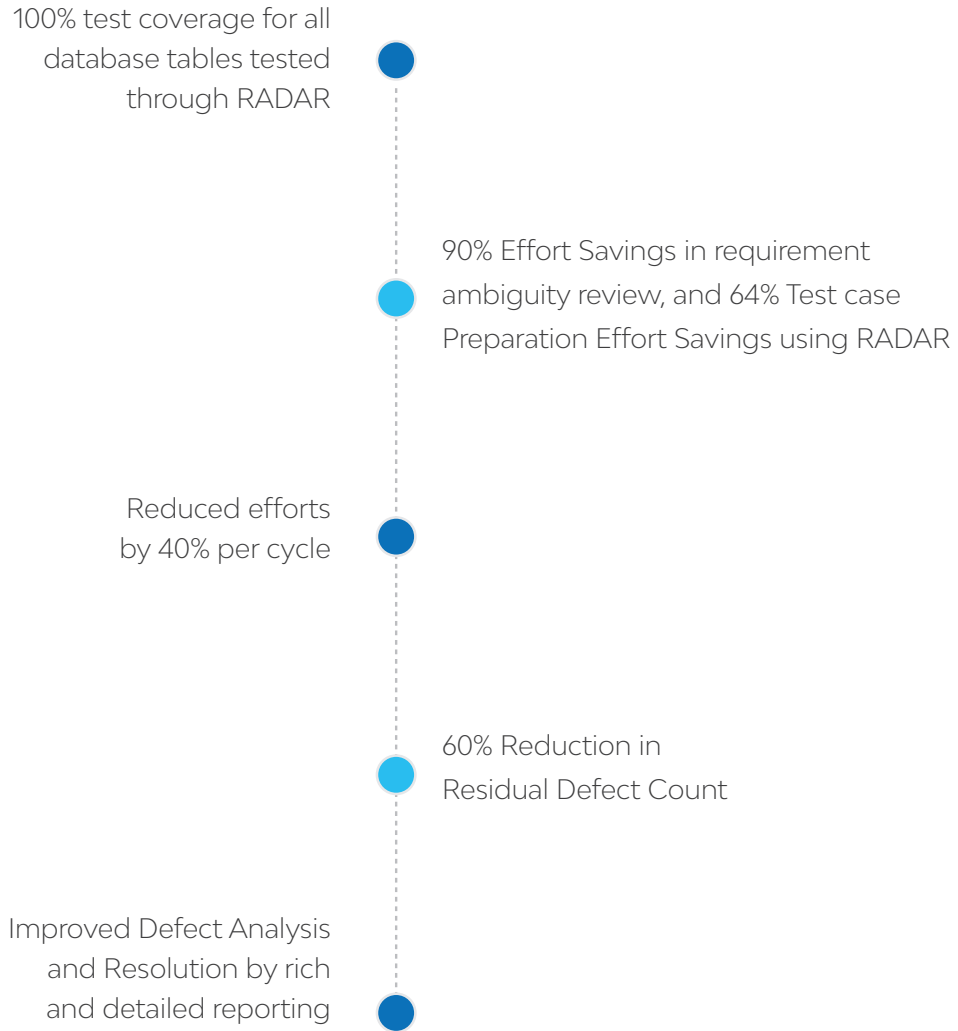Extensive efforts & time required for comparing the volume of data

LTI solution

- 90% Regression and Functional data testing automation

- Set up DW/BI Domain and Data assurance experts team

- Leveraged propriety tool RADAR for Data Validation for Oracle, DB2, Teradata, etc.

- Established a common ETL framework, to facilitate Application Development with built-in optimization

- Completed Risk based testing by preparing Test Suite, based on functionalities

Business benefit delivered

100% test coverage for all
database tables tested
through RADAR

90% Effort Savings in requirement
ambiguity review, and 64% Test case
Preparation Effort Savings using RADAR

Reduced efforts
by 40% per cycle

60% Reduction in
Residual Defect Count

Improved Defect Analysis
and Resolution by rich
and detailed reporting

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