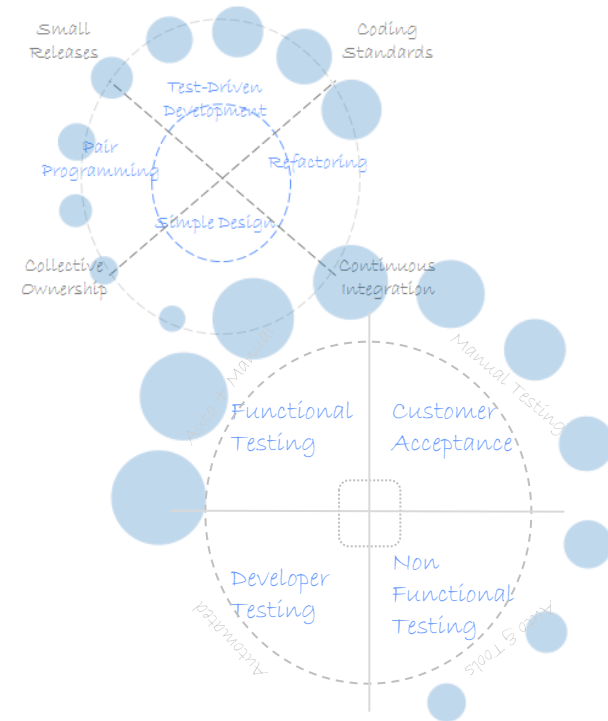




Test Data Management

A Case Study

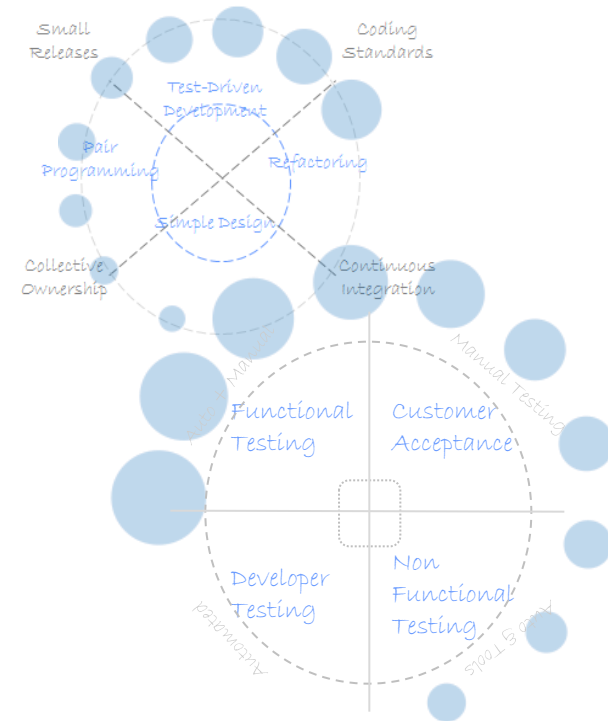


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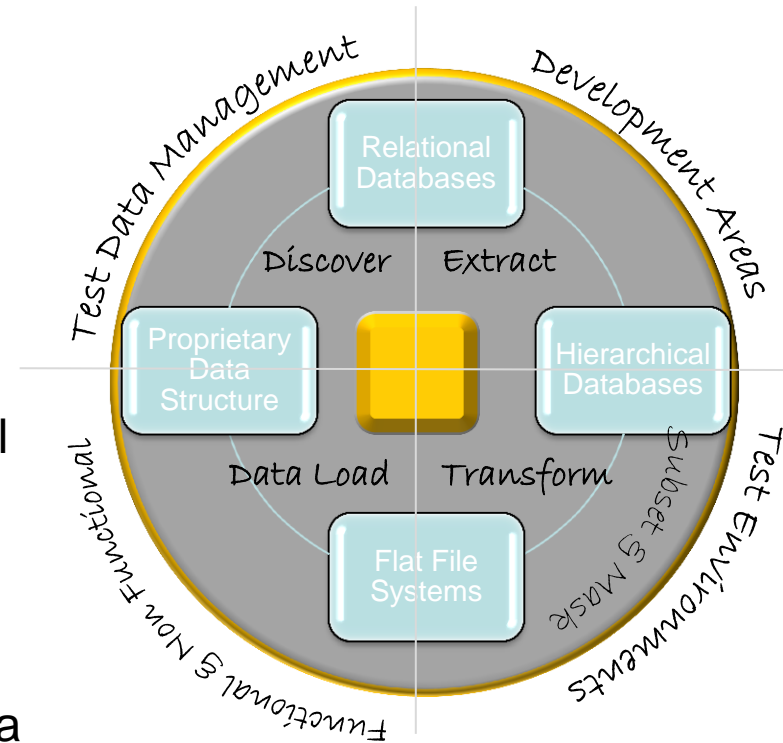


What is TDM?

Test Data Management consists of managing the provisioning of required test data efficiently and effectively, while at the same time ensuring compliance to regulatory and organisational standards.

TDM delivers to key business and IT objectives by systematically deriving test data needs from overall testing needs, this may include:

- Create targeted, appropriately sized test environments instead of replicating entire production environments
- Choosing between synthetic and production data
- Ensuring the test data sets are to the necessary Quality Level.



Common TD issues



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- High impact to delivery due to data related outages and/or data synchronisation issues
- High OPEX costs and inefficiencies due to outages relating to management of test data
- High Risk and Penalties associated with not adhering to compliance and/or data privacy laws
- Outsourced and or off-shored testing services have access to the personally identifiable customer data
- Data in test environment(s) is not masked or privitisation
- End to end data synchronisation





Techniques to protect customer privacy

Customer name, date of birth, postal address, telephone numbers, email addresses, transaction history and tax file numbers

- Encryption
- Masking
- Aging
- Data Generation
- Translation

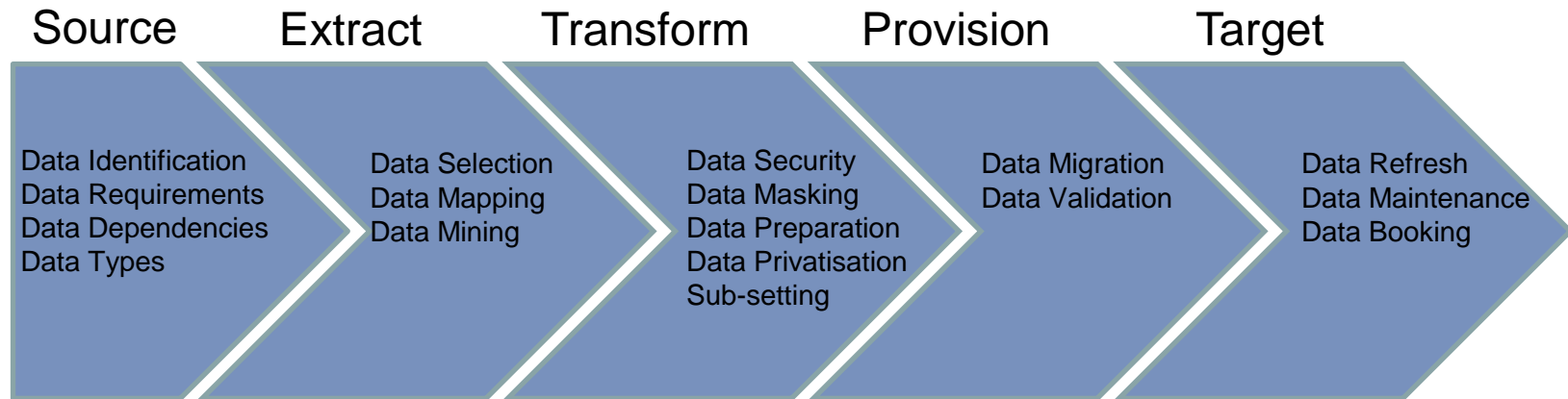
The challenge is: after privatisation is to have a usable data across the test Environments (Dev, SIT, ST, NFT, E2E..)



TDM Process



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The core objectives of a Test Data Management approach are:

- To develop a TDM Framework and process to support data transformation and refresh
- Leverage TDM Tools and techniques to simplify, automate and optimise the use of test data
- Apply Data sub-setting techniques to create realistic and manageable test databases
- Apply Data privatisation techniques to safeguard customer privacy/security
- Quickly and easily refresh data in Test Environments
- Empower test teams to select and book test data sets

A Case Study



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When We arrived:

- Sampling of test data (eg. every 1000 records)
- Manual/Ad hoc test data privatisation resulting in heavy outages
- Different levels of test data privatisation (Depending on the platform – sensitive information was removed or masked)
- Limitations of who could do testing due to test data privacy concerns
- Manually create data set and type into the database
- Testing teams changing data resulting in data integrity issues with other testing teams

A Case Study



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Background:

- 60 Core applications across the enterprise
- 20 people at any given time working on analysing, mapping, privatising and loading test data
- Target savings:
 - 33% reduced storage requirements
 - 33% reduction in required CPU

Outcomes



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- Accurate test data sets (accurate spread and alignment of test data)
- Up to 80% reduction in test environment storage capacity requirements
- Up to 50% reduction in test environment CPU requirements
- Reduced data refresh downtime (from days or weeks to hours)
- Improved data quality and thus improved testing quality
- Empowered the testing teams to select and book their own data sets