

Strategic Change – Master Data Program

INTEGRATION

TEAMWORK

EFFICIENCY

Master Data Program
Creating a Unified Mortgage Loan System

Charter Overview





Master Data Initiative: Author's Note

Copyright 2008 – Mark C. Freeman – mark@markfreeman.info 847-971-4500

Note: This document is based on public information sources, and is only intended for personal use by the author as an example of work. The content is a mock-up and is not to be considered a source document, a transfer of intellectual property, or to be redistributed for any purpose other than as allowed by the author. Incorporating any part of this document into a new or different document requires the prior written permission of the author.

Sample Document
Not for Commercial Use





Master Data Initiative: Overview

1) Master Data Initiatives

- Program Roadmap
- Program Charter
- Program Phases

2) Master Data Model

- Information Data Model
- Subject Areas
- Basic Architecture
- Metadata for Mortgage Information Standards Organization (MISMO) Specifications

3) Data Sources

- Transaction Systems
- Corporate Data Warehouse
- Other Data Sources – Other Applications & 3rd Party

4) Data Processes

- Source Data Processing
- Data Services
- Data Analysis & Reporting

5) Preparing for New Challenges

- Mortgage Market Dynamics
- Geocode Initiative
- Expanding Requirements
- Next Steps





Master Data Initiatives

1) Master Data Initiatives

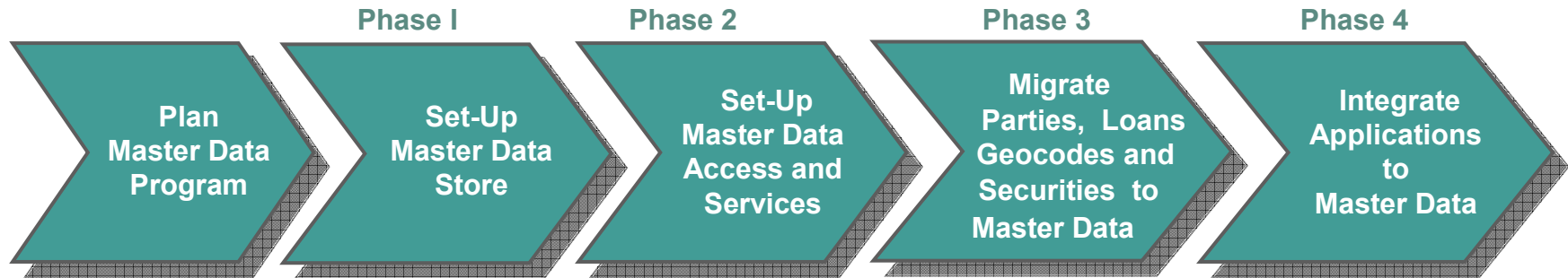
- Program Roadmap
- Program Charter
- Program Phases





1. Master Data Initiative: Program Roadmap

- Single Source Data Store for Parties, Loans, Geocodes, Assessments and Securities



What are the Strategic Objectives ?

- Provide a Single Source for Master Reference Data – ‘One Version of the Truth’
- Build a Framework for Fully Attributed Loan Data and Improved Financial Management

What Benefits are Derived ?

- Data is Centralized; Redundant Data is Decommissioned; Operational Costs for Data are Reduced
- Data Quality is Assured Prior to Application Usage and Distribution to End Users
- Data Integrity is Documented with Data Versioning; Date/Time Stamps; Regular Updates
- Organization Can Quickly and Accurately Respond to a Wide Range of Data Inquiries and Analysis





1. Master Data Initiative: Program Charter

Program Charter

Overall Objective – Create a Master Reference Data Store with Access & Services

- Consolidate Multiple Data Sources and Repositories
- Integrate Applications and Migrate End Users to Master Reference Data Usage



Planning Phase – Form Enterprise Information & Strategy Team & Prepare Detail Plans

- Organize Program & Technical Offices
- Inventory / Document Current Data Systems & Usage – Data Environments / Applications / Users
- Create Detail Project Plan – Master Data & Services Set-Up / Data Migration / Testing / Integration Waves

Set-Up Phases 1 & 2 – Set-Up Master Reference Data & Services Facility

- **Database:** Data Schemas / Environments / Identifiers / ETL / User & Application Security / Admin. Controls
- **Access & Services:** Interface / Analytic Tools / Reporting / Extracts / Distribution Services

Migration Phase 3 – Migrate / Compile Master Data from Existing Sources

- **Corporate Data Warehouse:** Historical Master Data for Party, Loan, Security and as Determined
- **Transaction Systems & Other (3rd Party) Sources:** New Data for Party, Loan, Security and as Determined

Integration Phase 4 – Redirect Applications & Users to New Master Reference Data

- **Multiple Waves** – Applications Integrate and End Users Subscribe to Master Reference Data





1. Master Data Initiative: Program Phases 1-2

Program Phases

Planning Phase – Solution: Integrated Program Team Develops Transition Plan



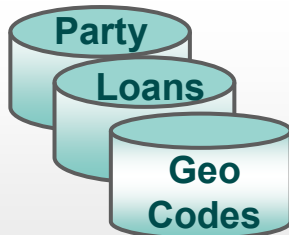
TEAM
Management
+
Corporate IT
+
Vendors
+
Business Units



DELIVERABLES
Project Charter
Data Inventory
Project Plan
Requirements
Master Data Solution

**TARGET
DATE(s)**
TBD

Set-Up Phases I & 2 – Solution: Set-Up Master Reference Data Center



Database

+



Data Services

Master Data Center:

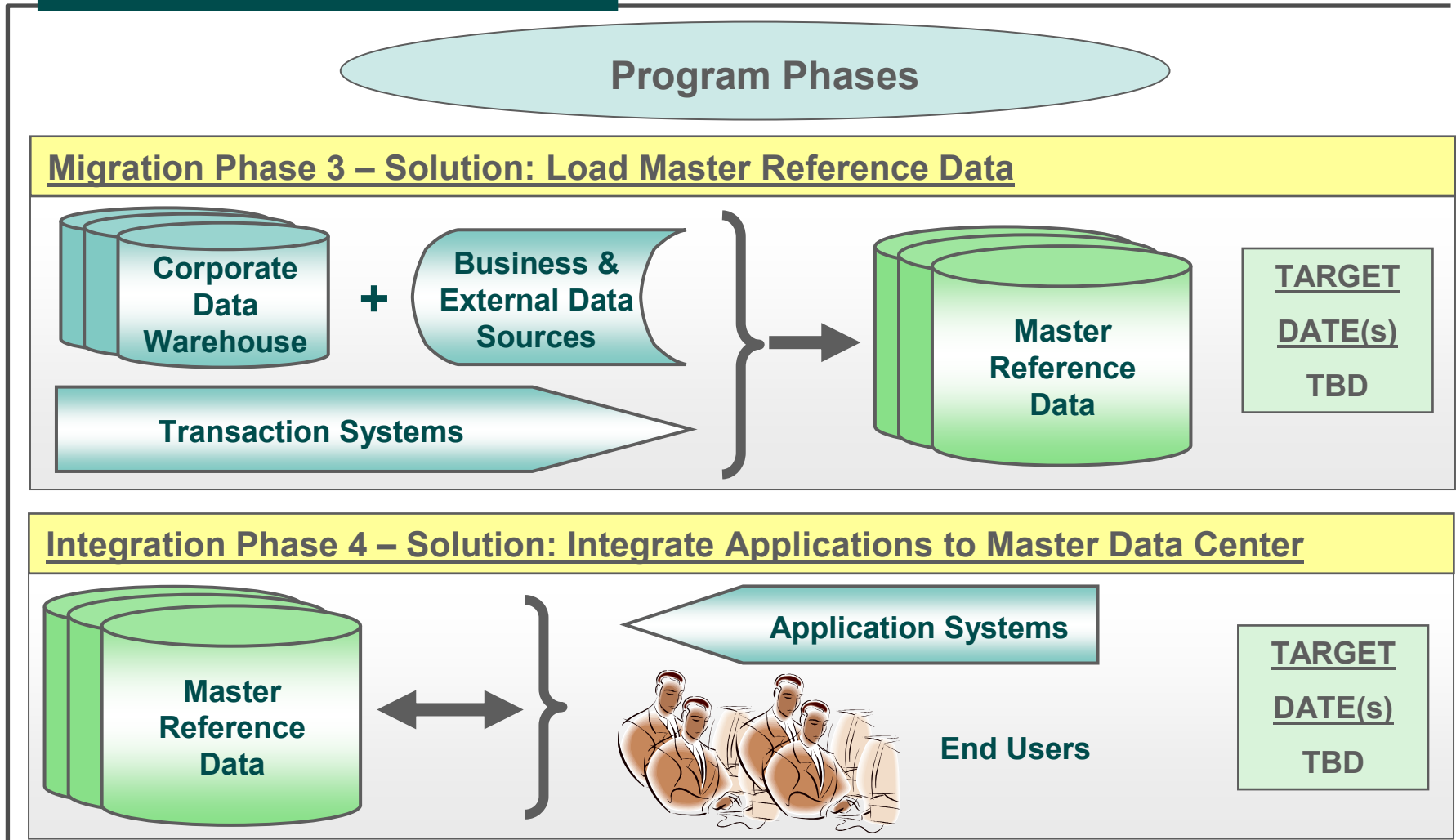
- Blade Servers
- Database / Environments
- ETL & Application Tools
- Reporting / Distribution Tools
- Data Mirror / DRC Mirror
- 3rd Party Services

**TARGET
DATE(s)**
TBD





1. Master Data Initiative: Program Phases 3-4





Master Data Model

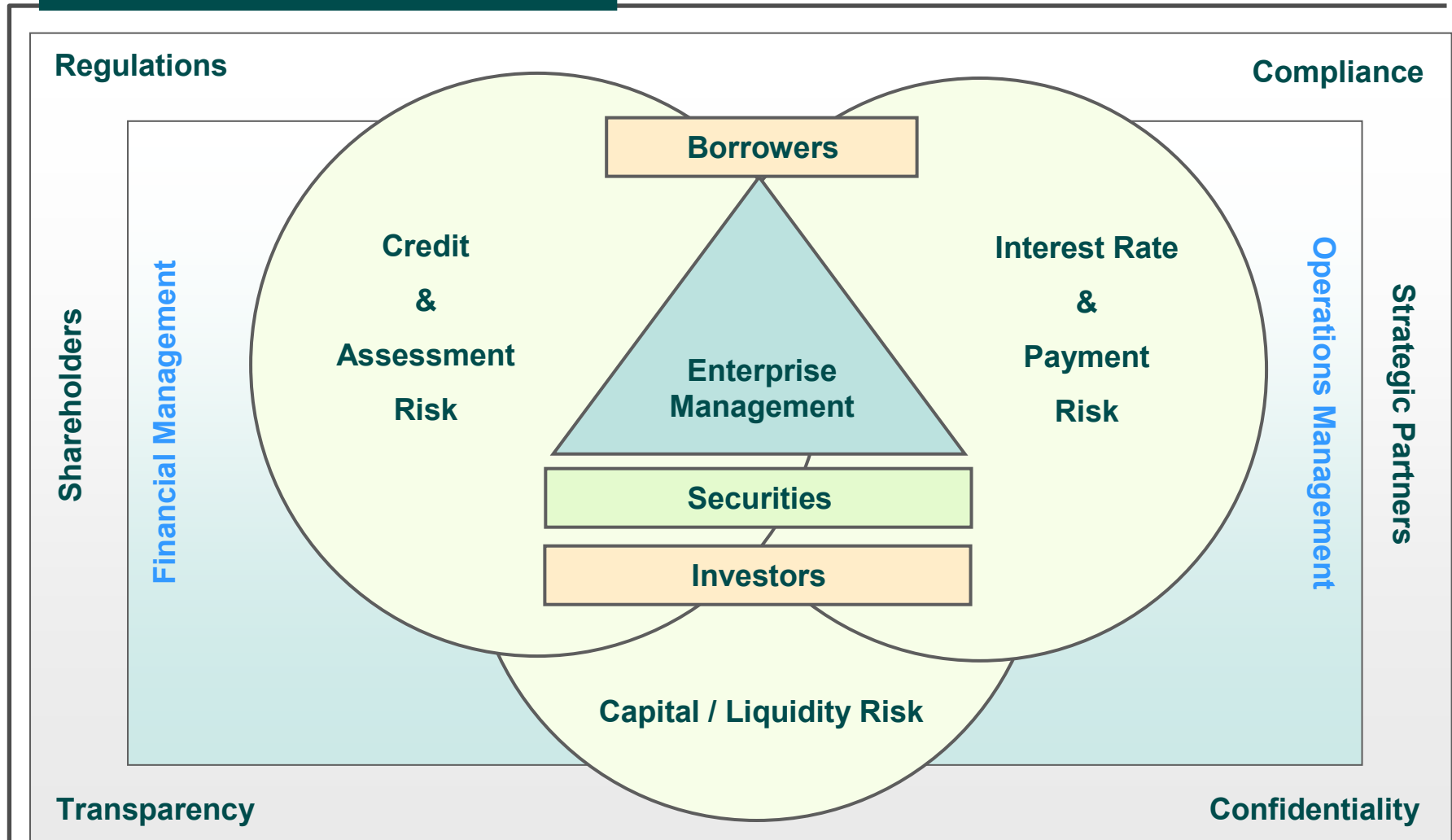
2) Master Data Model

- Information Data Model
- Subject Areas
- Basic Architecture
- Metadata for Mortgage Information Standards Organization (MISMO) Specifications



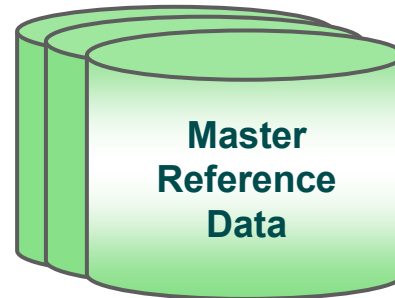


2. Master Data Model – Information Data Model





2. Master Data Model – Subject Areas



Subject Areas

Borrowers

Geocodes
Mortgage Loans
Property & Assessments
Property Owners
Tenants
Payers
Payments
Bill Presentation
Servicers & Vendors

Securities

Rate Schedules
Cash Flow Schedules
Funding Categories
Funding Products
Funding Instruments
Document Custodians
Funding Sources
Financing Originators
Financing Agents

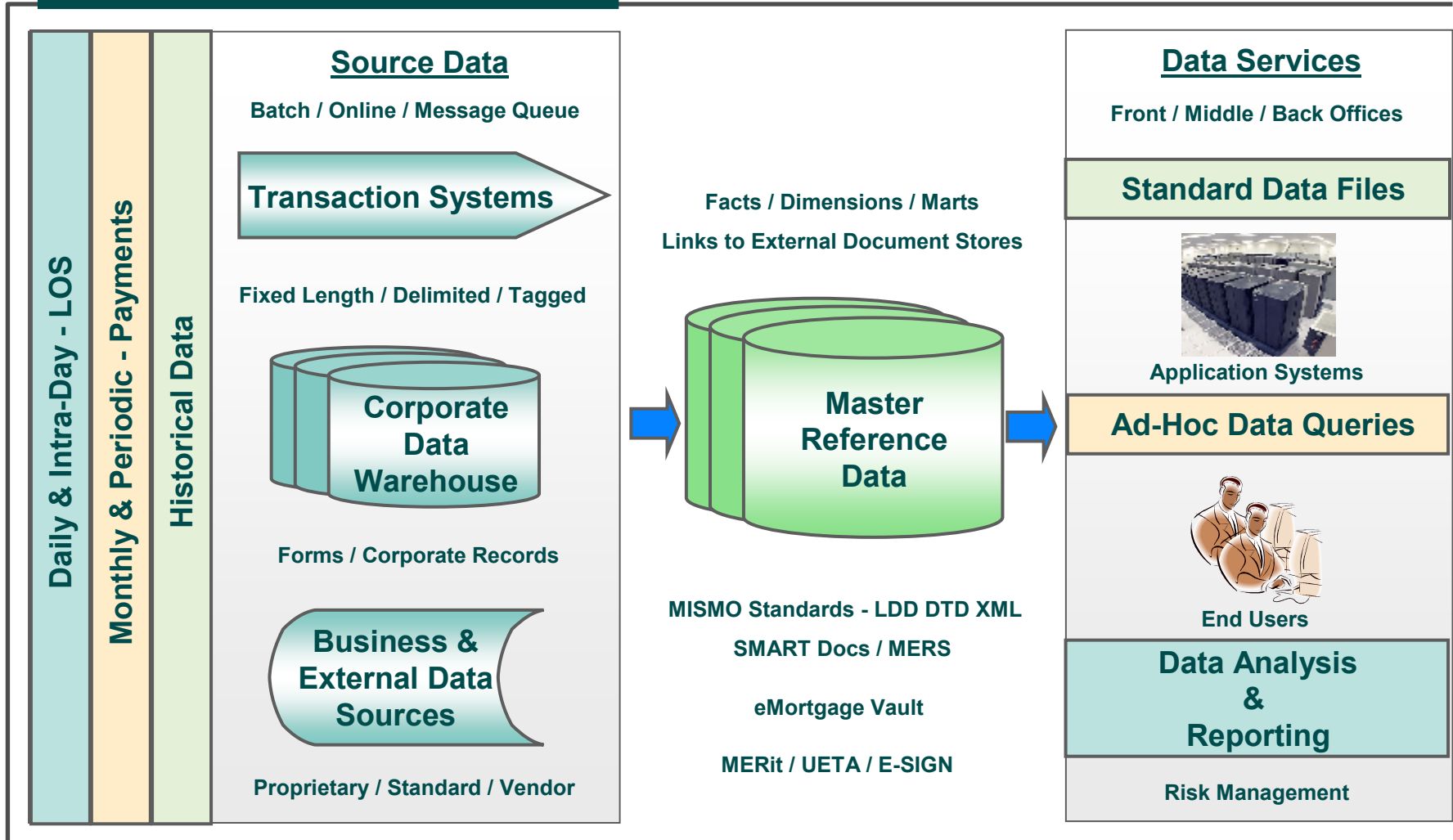
Investors

Guarantors
Counterparties
Investment Types
Investors
Investments
Derivatives
Performance
Risk / Return



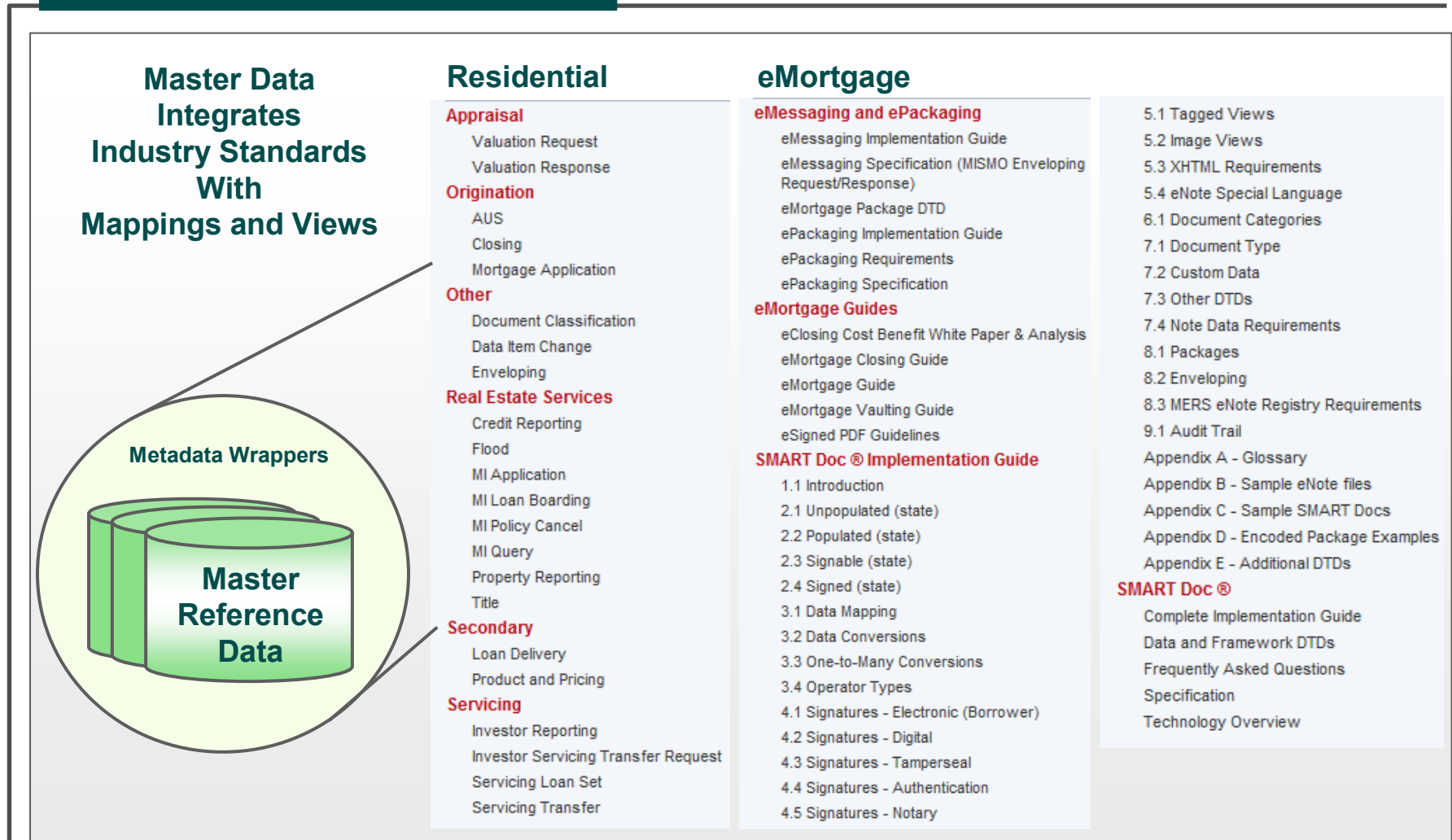


2. Master Data Model – Basic Architecture





2. Master Data Model – MISMO Specifications





Master Data Sources

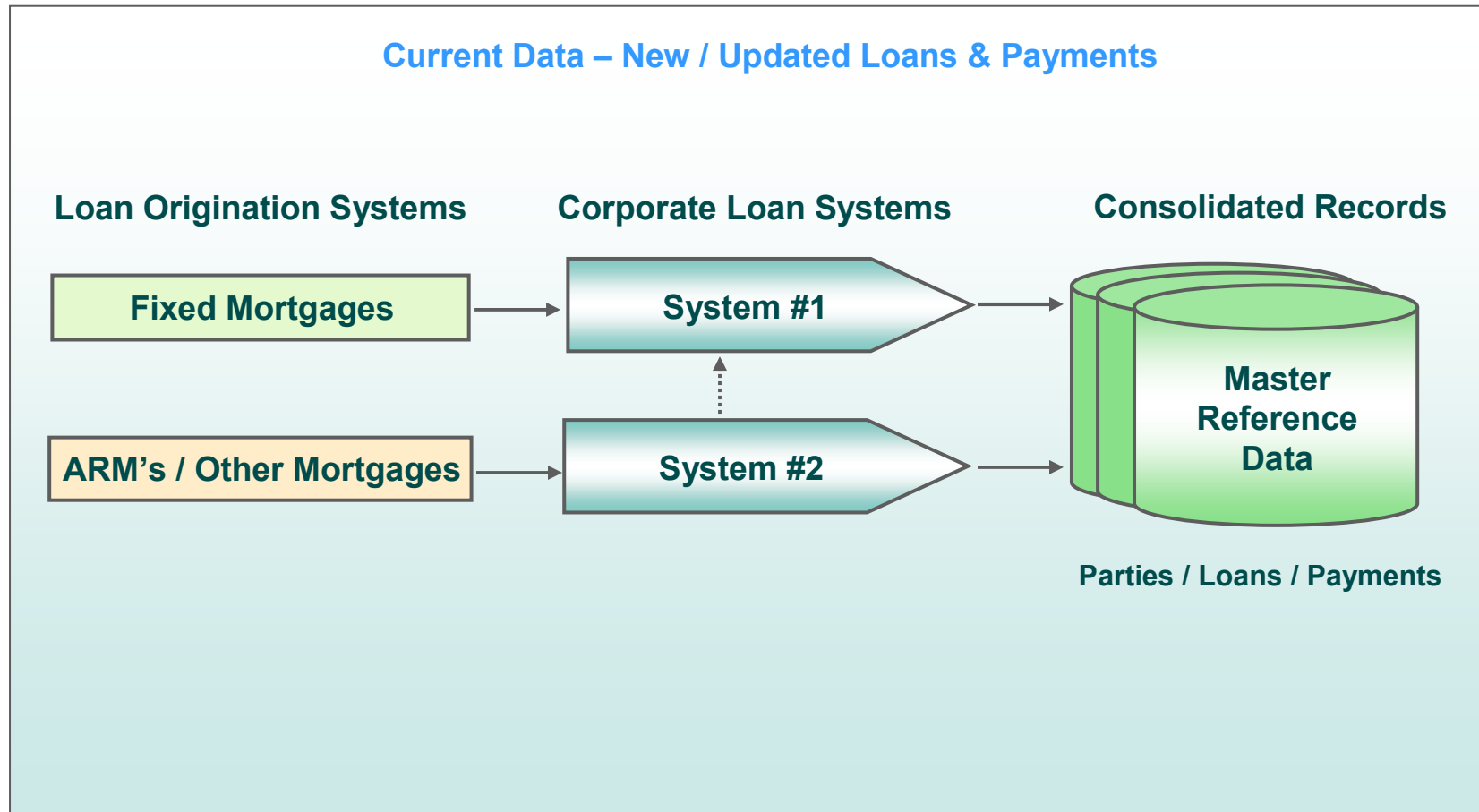
3) Data Sources

- Transaction Systems
- Corporate Data Warehouse
- Other Data Sources – Other Applications & 3rd Party



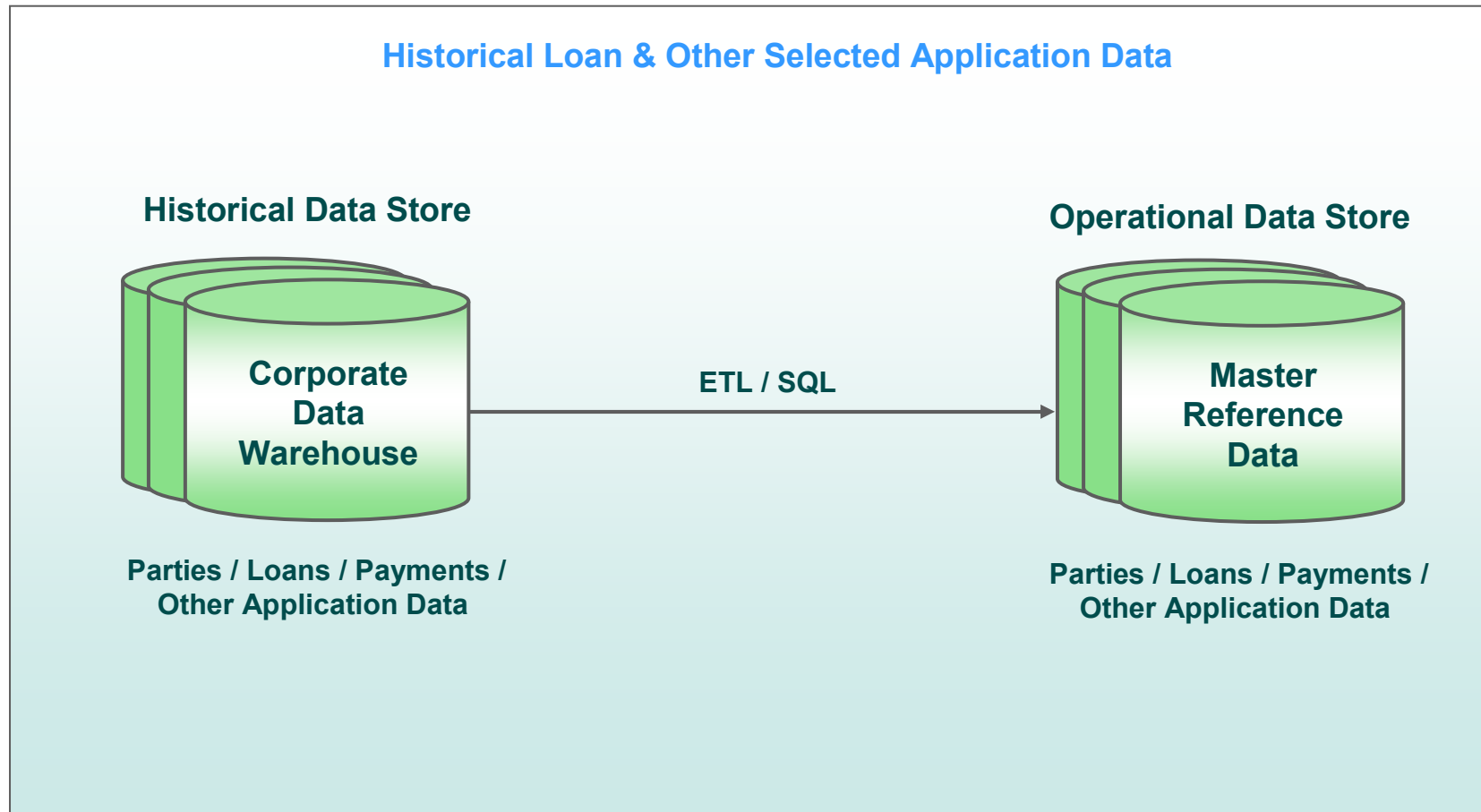


3. Data Sources – Transaction Systems



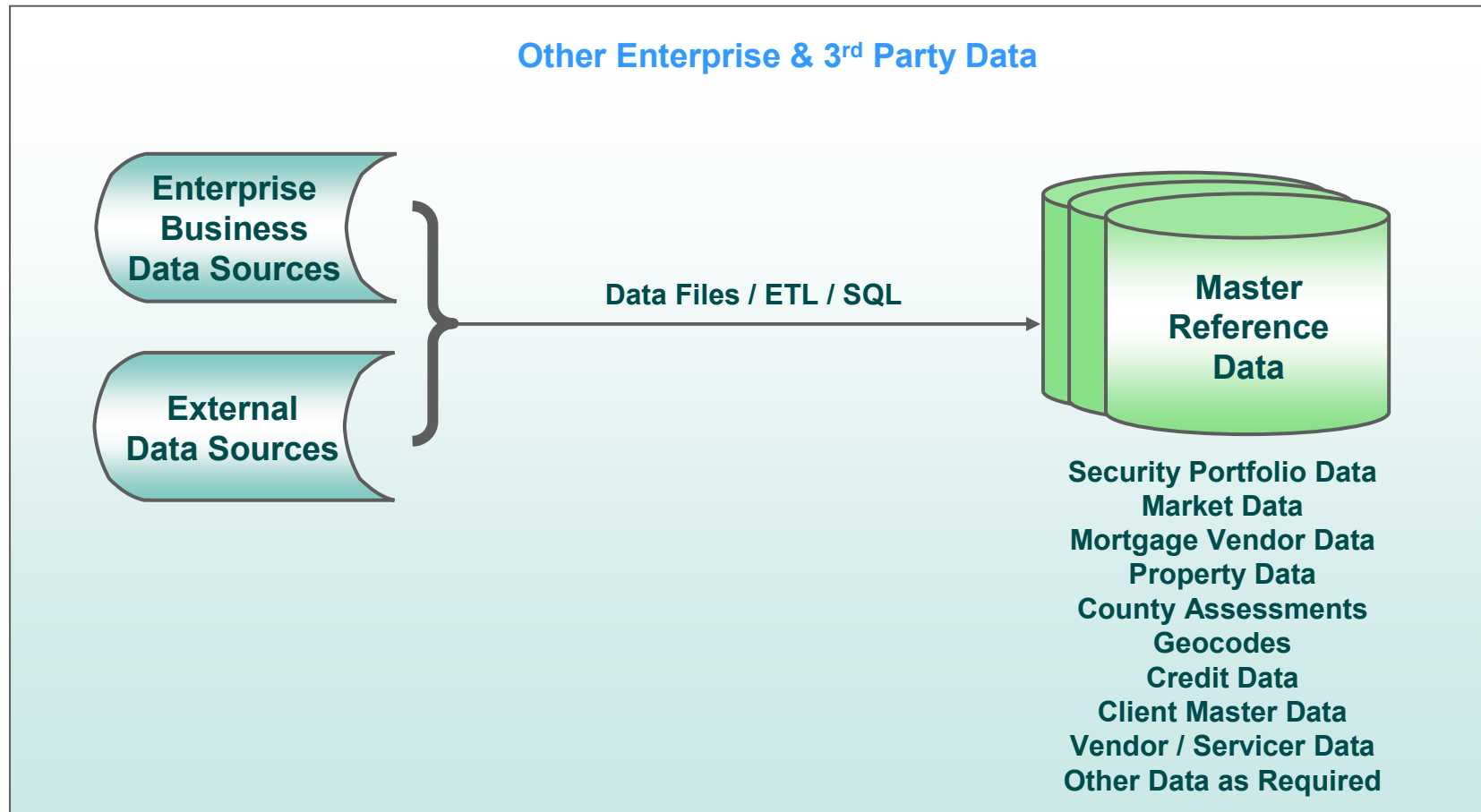


3. Data Sources – Corporate Data Warehouse





3. Data Sources – Other Applications & 3rd Party





Master Data Processes

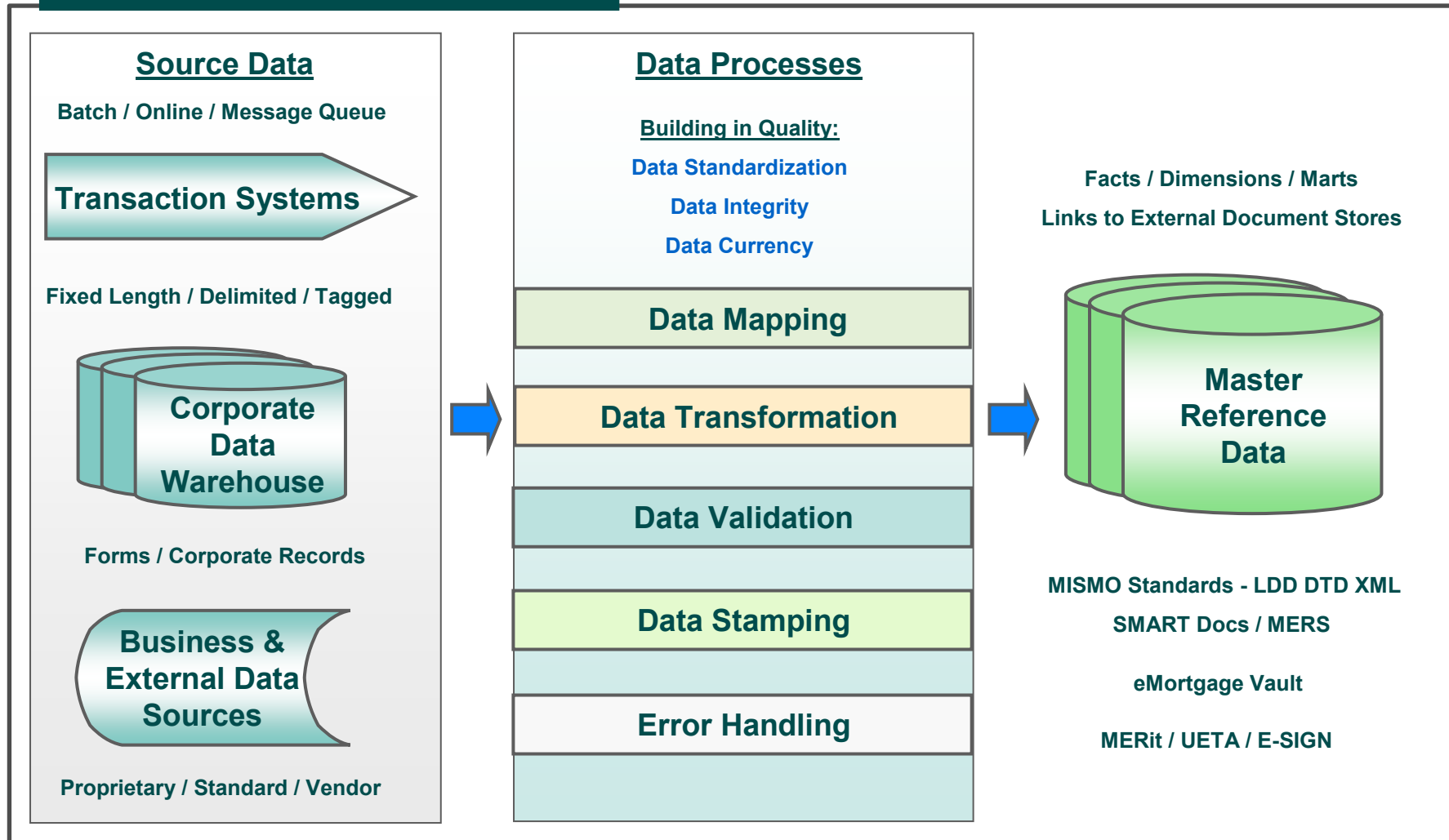
4) Data Processes

- Source Data Processing
- Data Services
- Data Analysis & Reporting



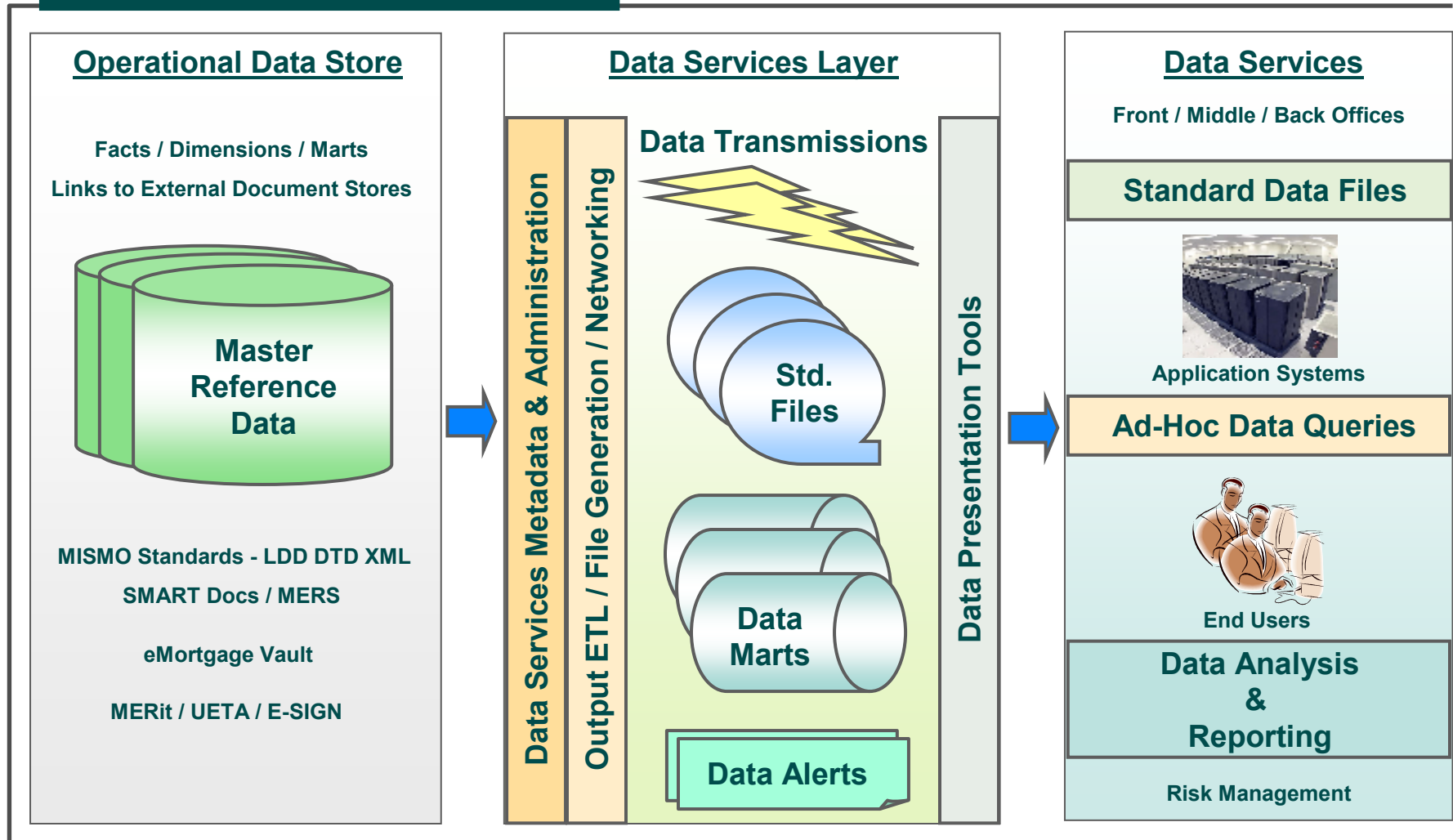


4. Data Processes – Source Data Processing



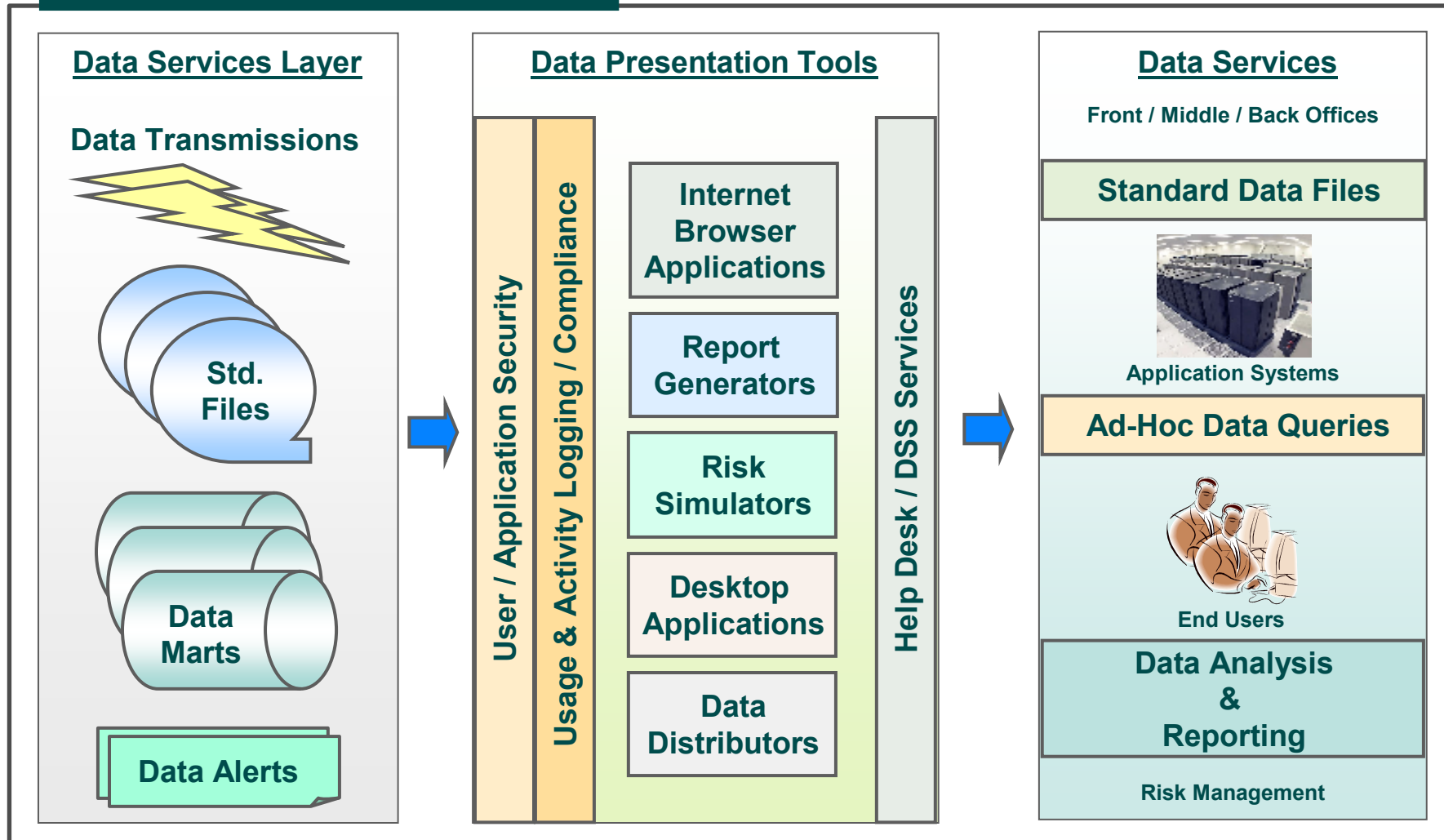


4. Data Processes – Data Services





4. Data Processes – Data Analysis & Reporting





Preparing for New Challenges

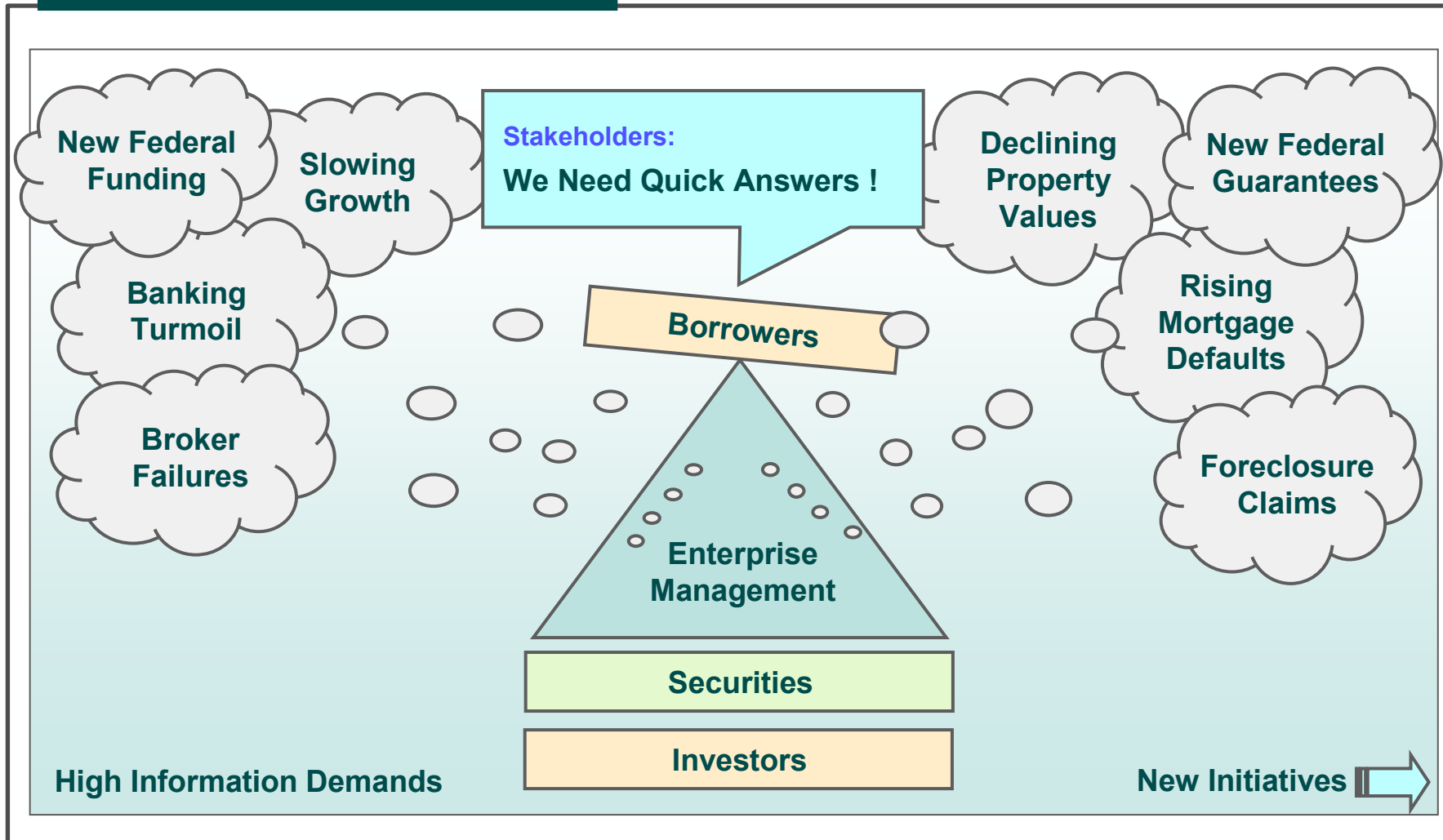
5) Preparing for New Challenges

- Mortgage Market Dynamics
- Geocode Initiative
- Expanding Requirements
- Next Steps





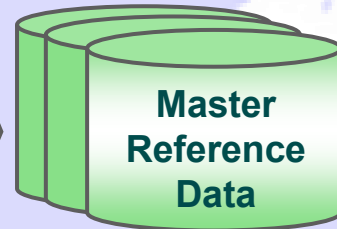
5. Preparing for New Challenges – Mortgage Market Dynamics





5. Preparing for New Challenges – Geocode Initiative

Geocodes – Know Your Customer Location – Focus Priorities



Global Address Cleansing Products

Business Geographics Products

Get the precise information you need when location really counts. With Group 1 Software, you can pinpoint exact latitudes and longitudes and run calculations based on unique business needs. These leading-edge technologies allow you to automate business processes and make smarter business decisions.

Identify Credit Risk by:

- Region
- State
- County
- Metro Area
- Neighborhood
- Property
- Ownership
- Visual Mapping

Cross-Sectional Analysis by:

- Originator
- Funder
- Servicer
- Security
- Portfolio
- Investor

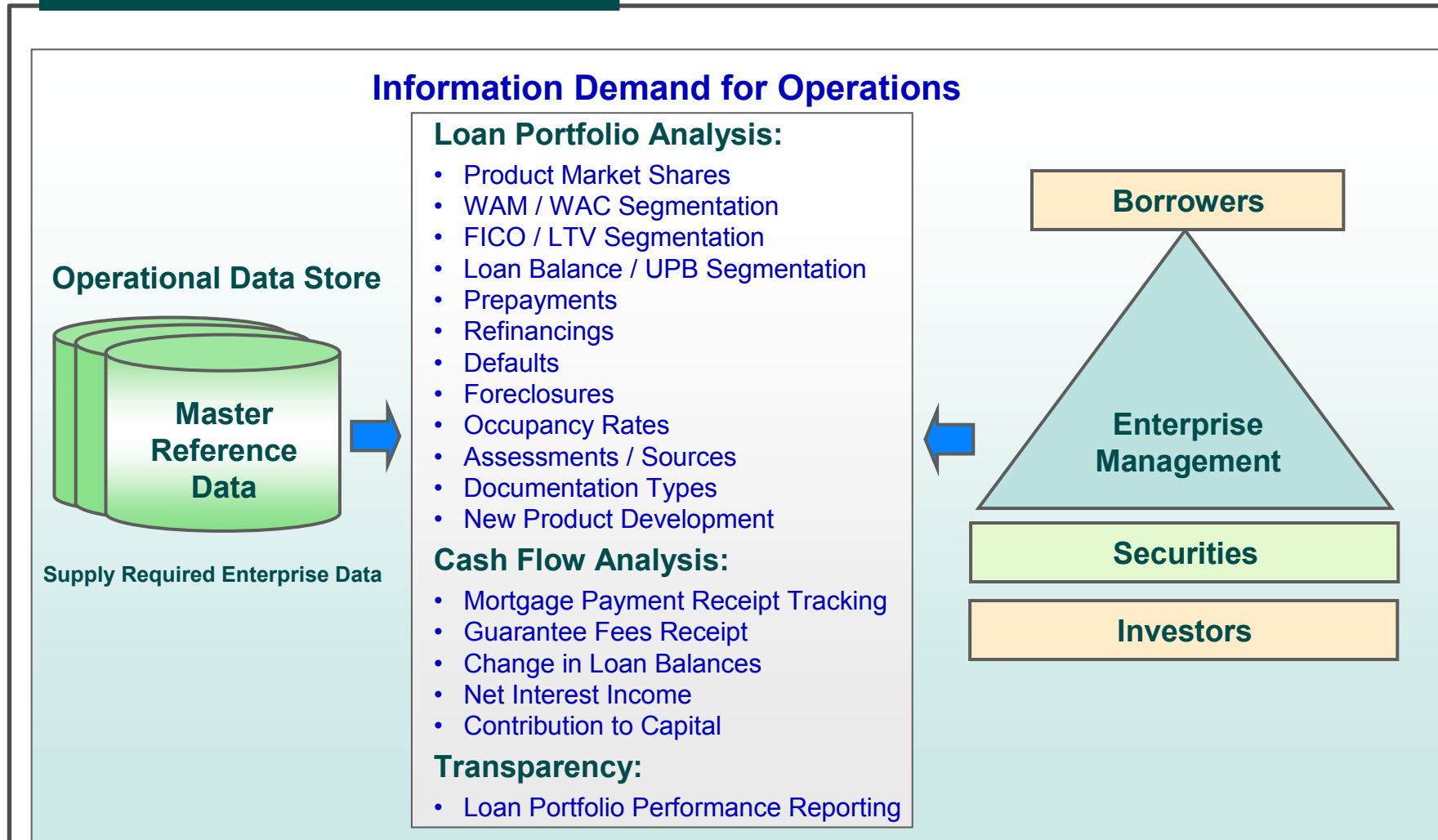
Property Grouping / Verification:

- Property Type
- Wholesale Value
- Retail Value
- Assessment
- Tax Cost
- Sales Areas





5. Preparing for New Challenges – Expanding Requirements

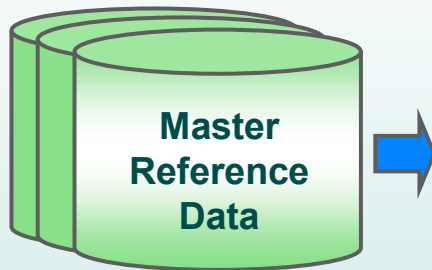




5. Preparing for New Challenges – Next Steps

Plan / Design / Build / Implement / Consolidate

Enterprise Operational Data Store



Single Source Data Repository
“One Version of the Truth”

Plan / Project Manage:

- Identify New Initiatives
- Identify Legacy Initiatives – Document Islands of Data / Data Applications / Owners
- Identify Data Services / Data Delivery Requirements
- Prioritize and Coordinate Scheduling of Conversions to Master Data Repository
- Manage Data Migration Project Life Cycles

Design:

- Data Design Strategy – MISMO and Standards Overlay for Proprietary Structures
- Logical / Physical Detail Data Designs for the Master Reference Data Store
- Detail Designs for Metadata and Data Processes – Mappings / Transformations / Validation / Data Stamping / Error Handling / ETL / Scripts / Schedules / Messages
- Service Layer Designs – Security / Logging / Compliance / Extracts / GUI Interface
- Implementation Tool Selection – Vendor / Package Review and Custom Coding

Build:

- Infrastructure Build Out – Development / Test / Production / DRC Environments
- Development of Processes – Core Processes / Project Specific Deliverables
- Rapid Development Cycles – Front to Back Developer / End User Focus Groups

Implement:

- Roll-Outs – Infrastructure Team / New Initiatives and Legacy Migrations Teams
- Consolidate – Redirect Systems / Train / Decommission Old Apps / Rationalize

