

Digital ML - Inaugural Canonical Model Forum

Using data models and industry standards as the basis for your Canonical Model

Brian Otten – Global Markets & Research Technology

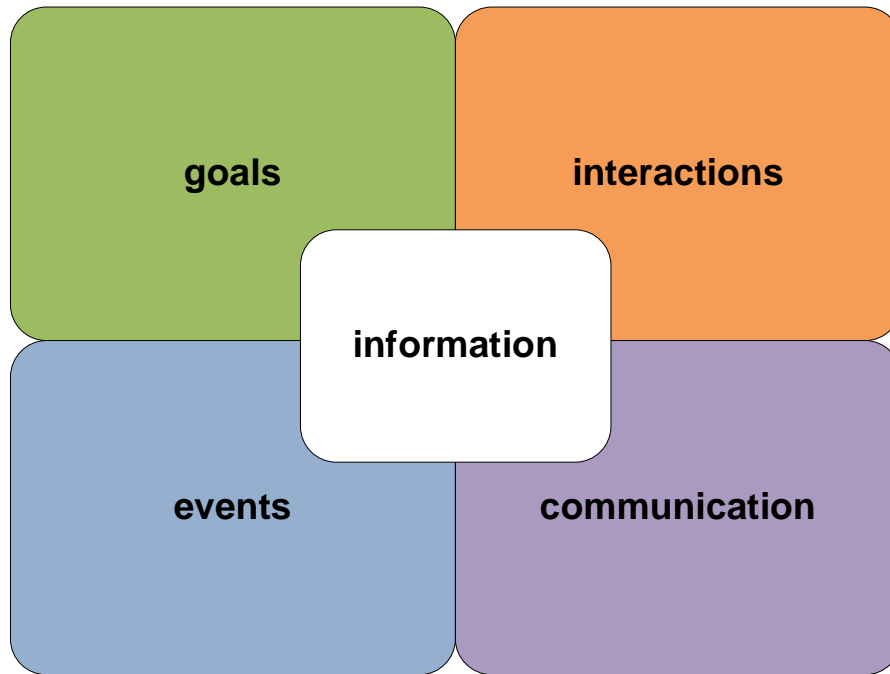
Bank of America – Merrill Lynch

08 Mar 2010

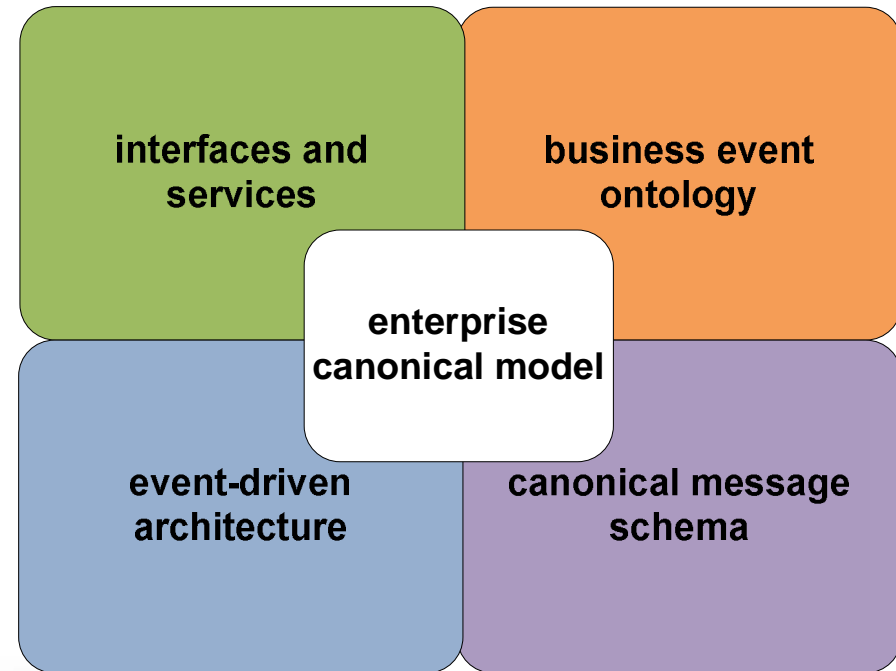
Bank of America 

Canonical Model – Architecture Context

Business Architecture



Solutions Architecture



Establish a canonical data model framework

How Data Models Deliver Benefit

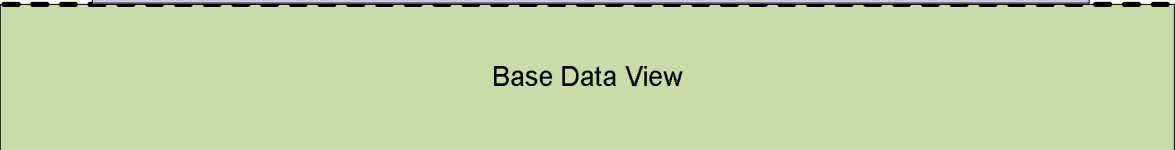
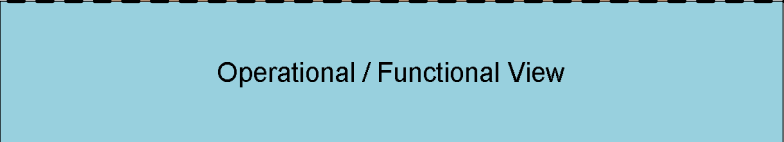
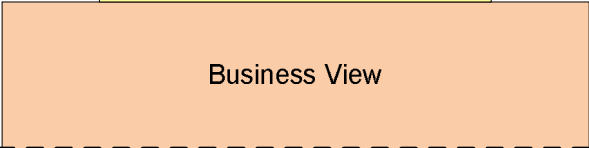
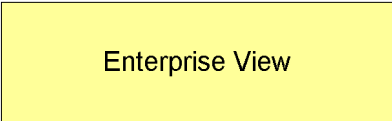
Timely response to business opportunities

Increased Effectiveness

Responsiveness to Change

Reduced Risk

Reduced Costs



System Integration

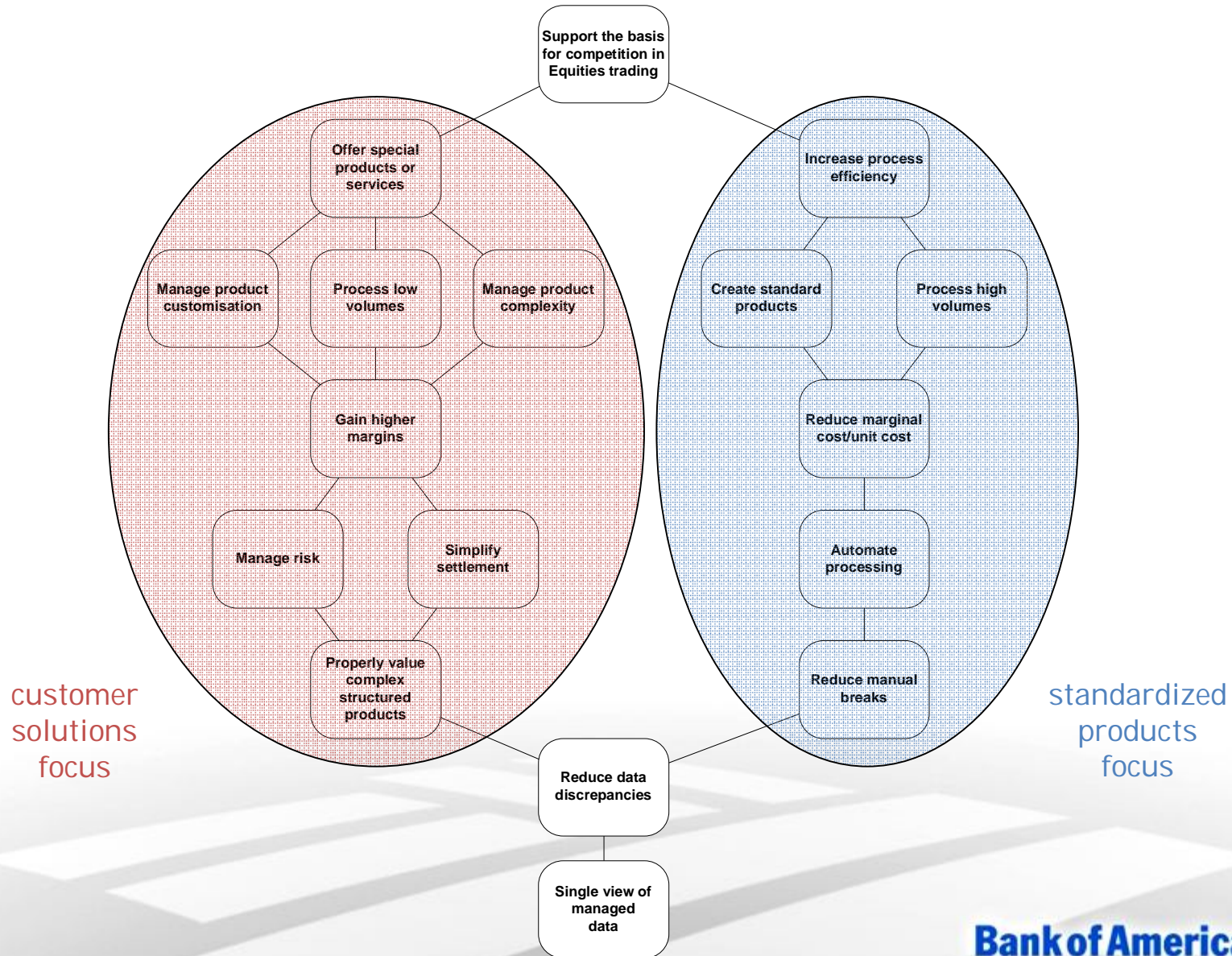
Simple Interfaces

Minimum Data Redundancy

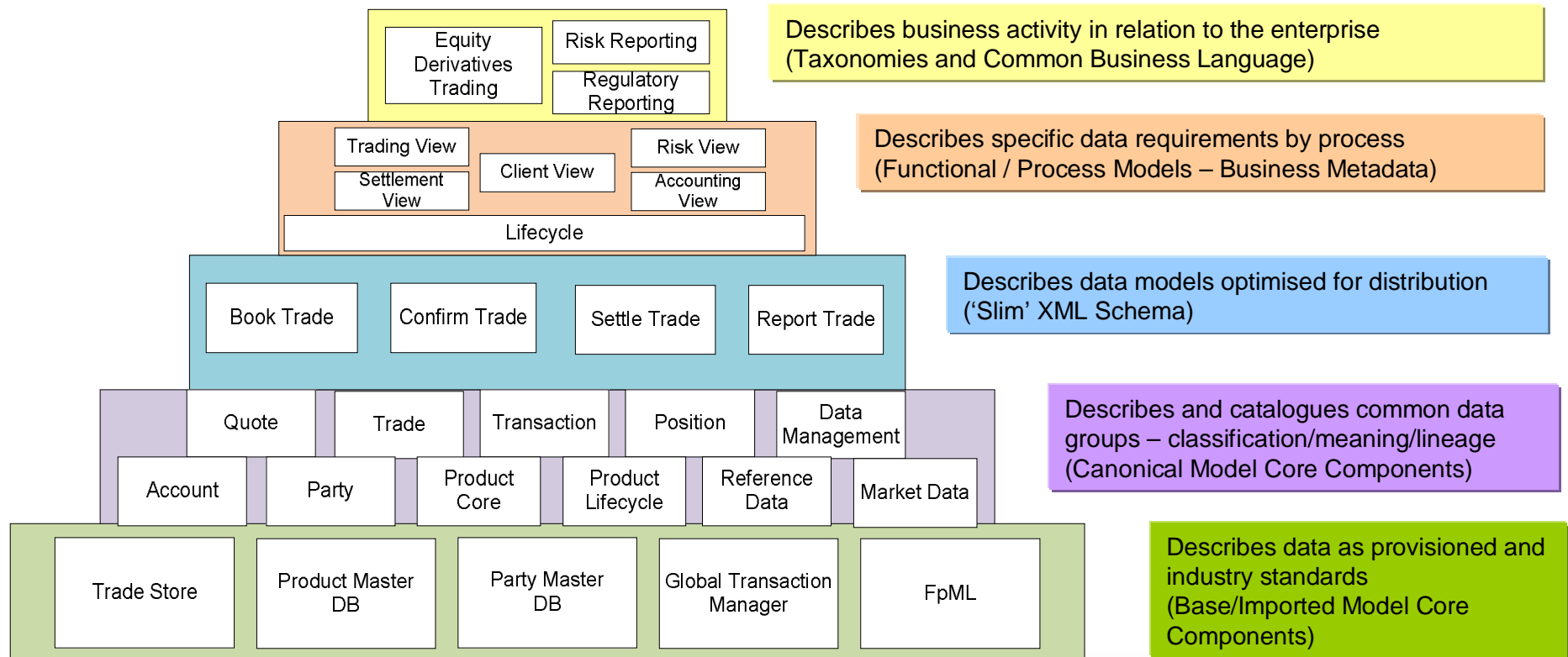
Compatible Data

Model framework ties views together with consistent models and standards

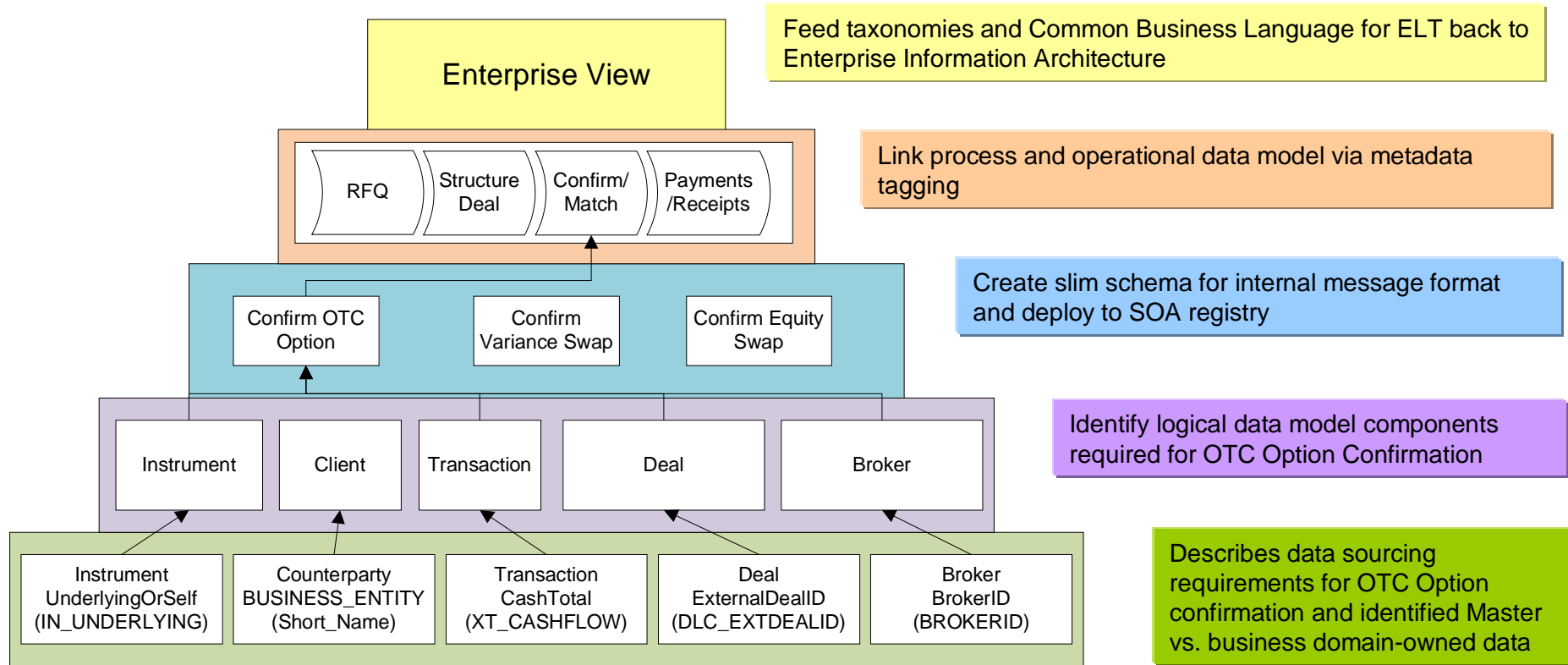
Canonical Model – Business Context – Global Markets – Equity Derivatives



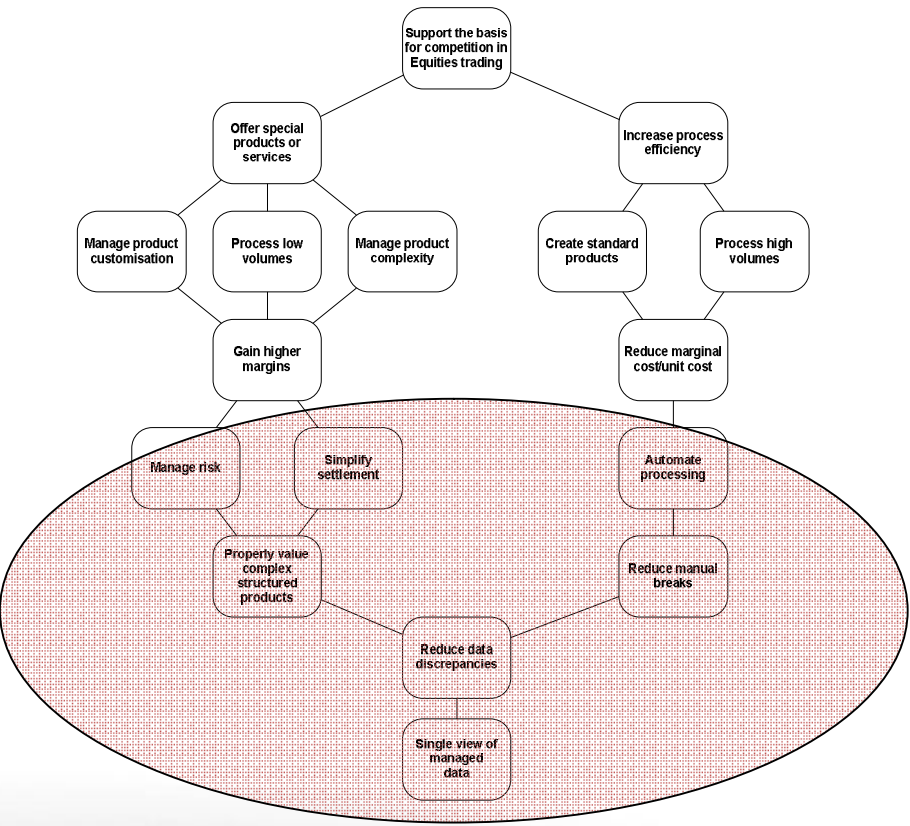
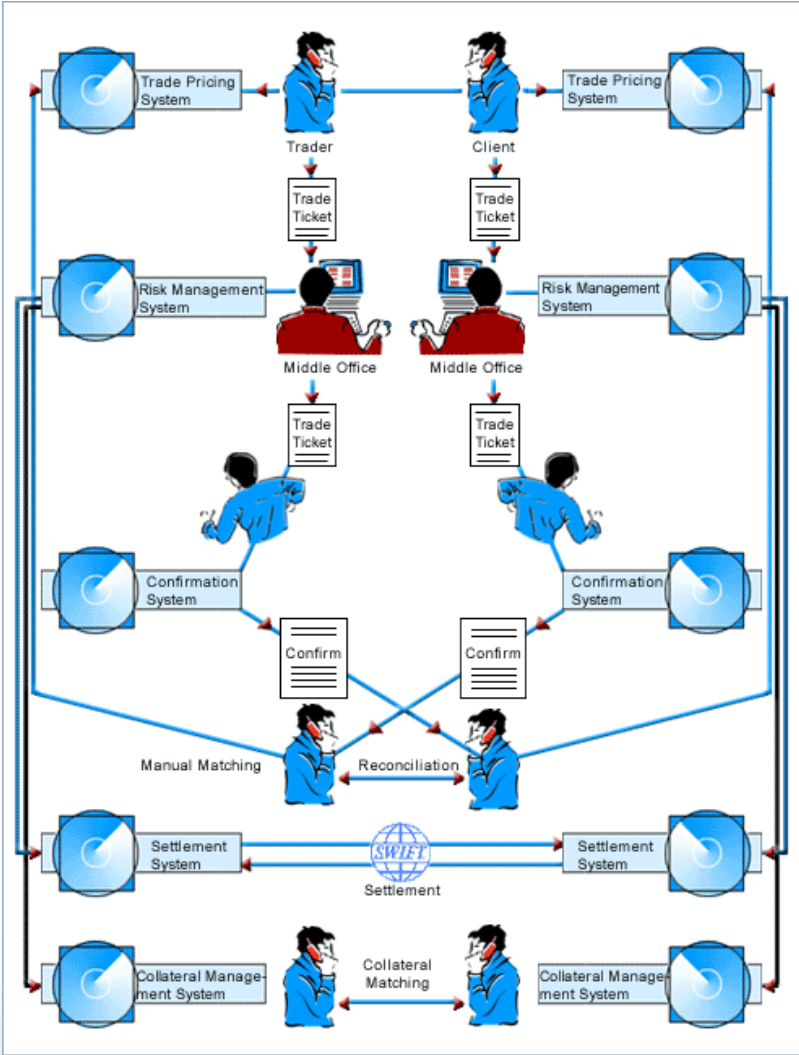
Allow the business to tell their story using the framework



Build it up using data requirements from in-flight projects



Industry Standards – The need for FpML

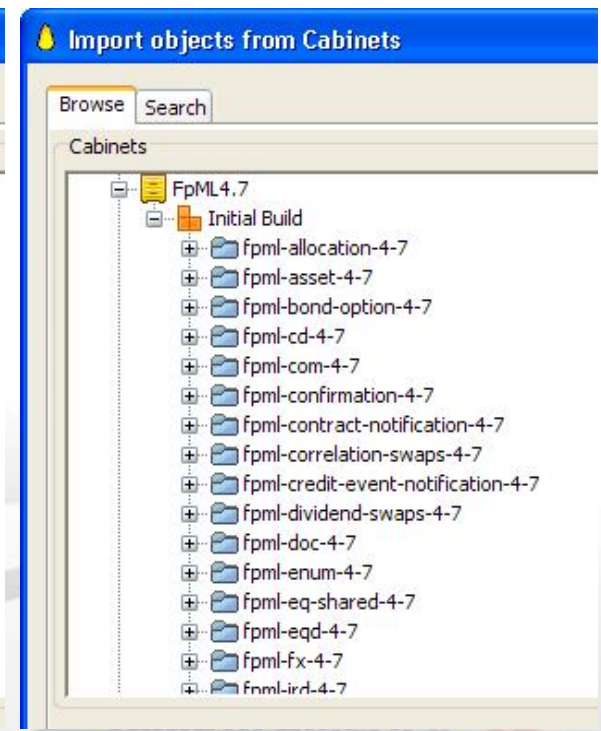
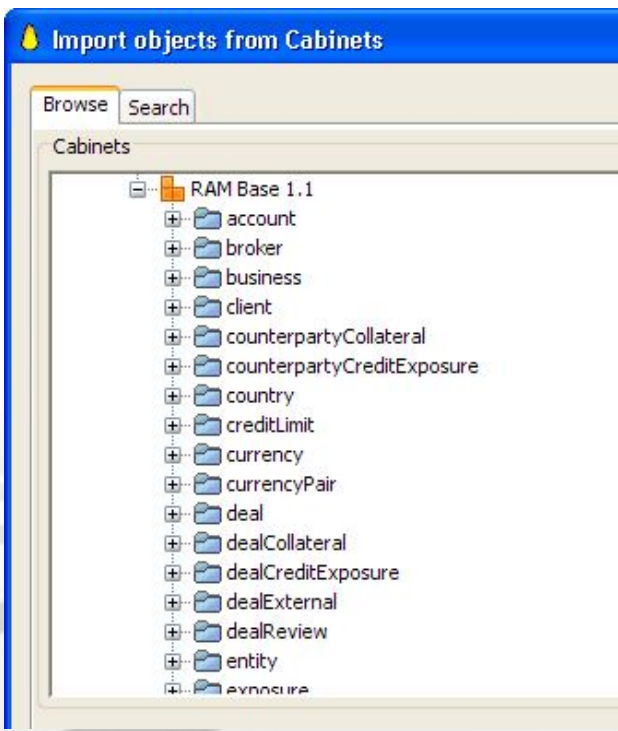
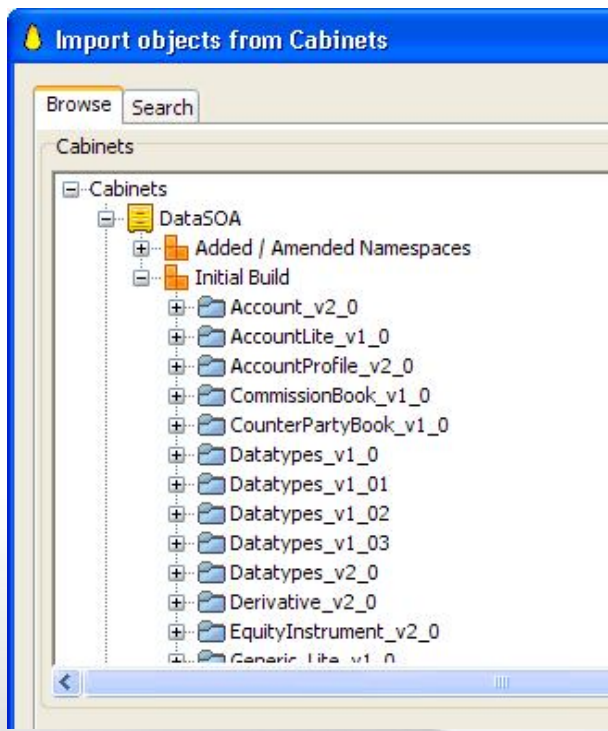
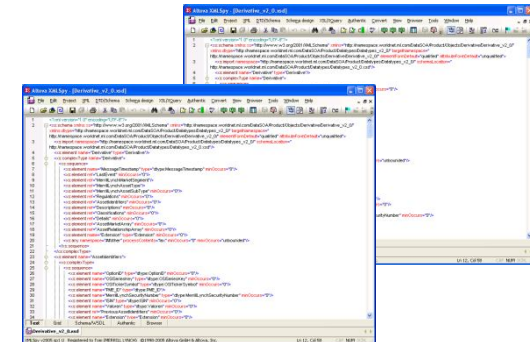
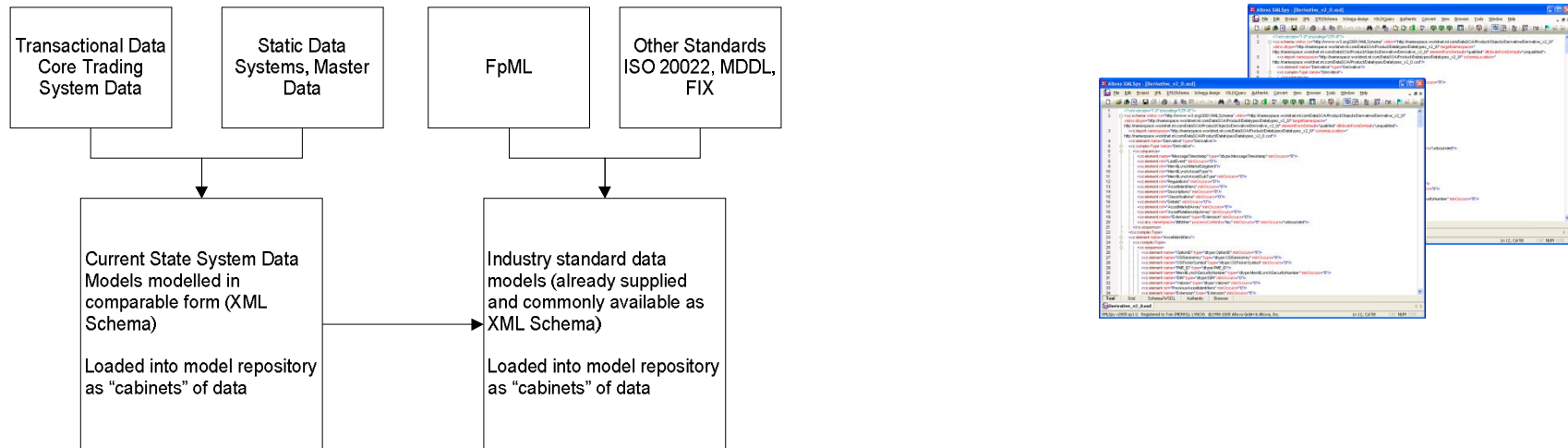


Industry Standards – FpML

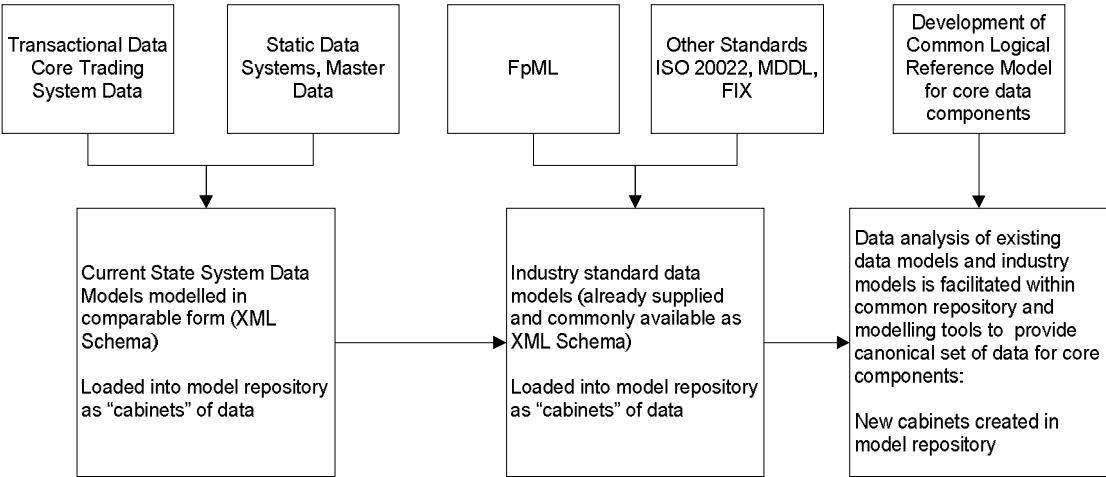
ISDA / FpML	FpML WGs	Tools	Tools & Implementation						FpML Specification	
		FpML Services	Training			Consulting				
		Business Process/ Messaging	Pretrade		Trade Affirmation	Increases	Novations	Terminations		Cashflow Matching
			Trade Status Inquiry		Trade Confirmation	Amendments	Allocations	Contract Notifications		
		Asset Classes	IRD	CD	Equity	Commodities	FX	Bond Options		Loan
			Validation Rules							
		Vocabulary	FpML Schema		Architecture	Schemes	Examples			
		Foundations	W3C Schema							
			XML							



Gather analyze and record – Industry models that work well across organizations



Build canonical model core components

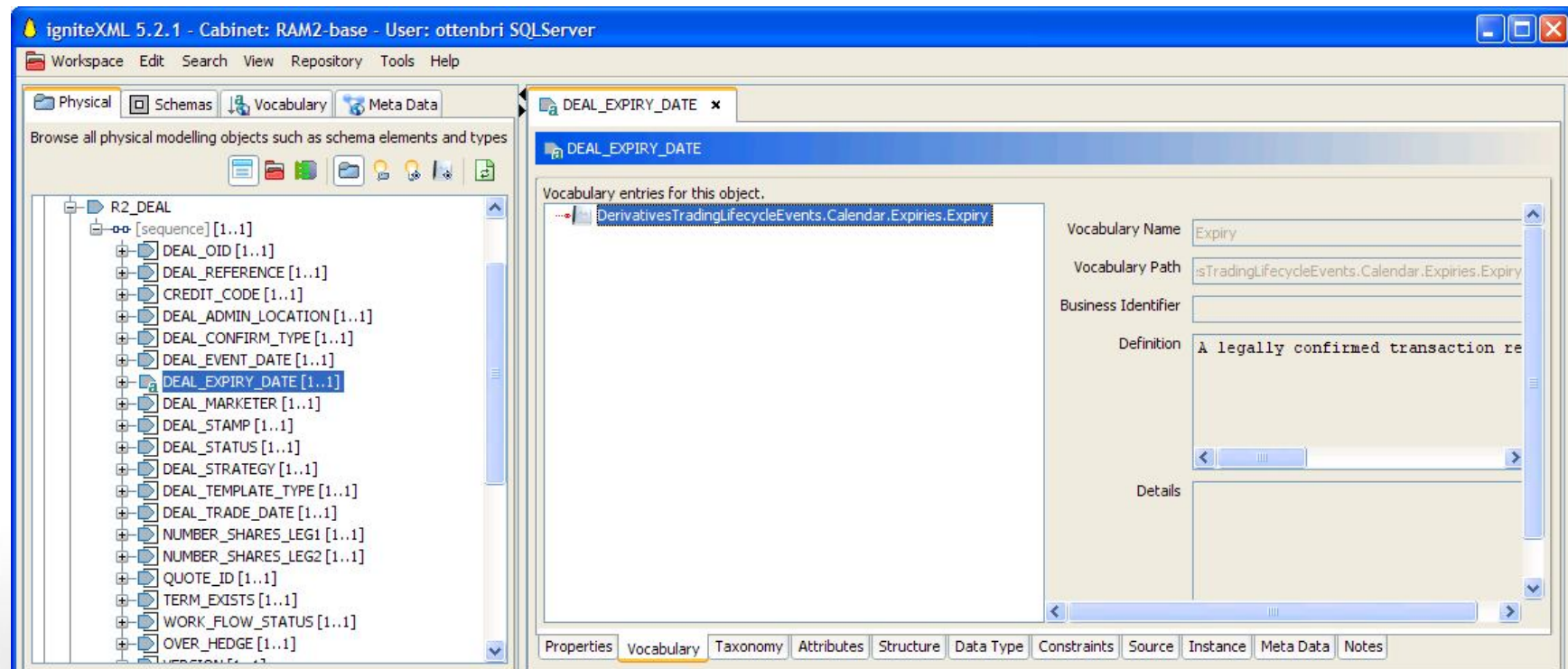
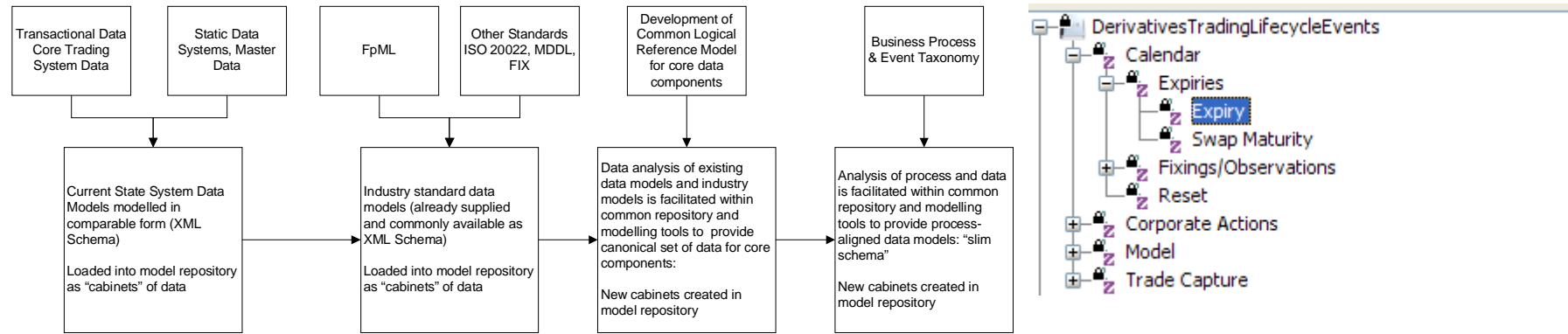


The image displays three screenshots of a software interface, each titled "Import objects from Cabinets".

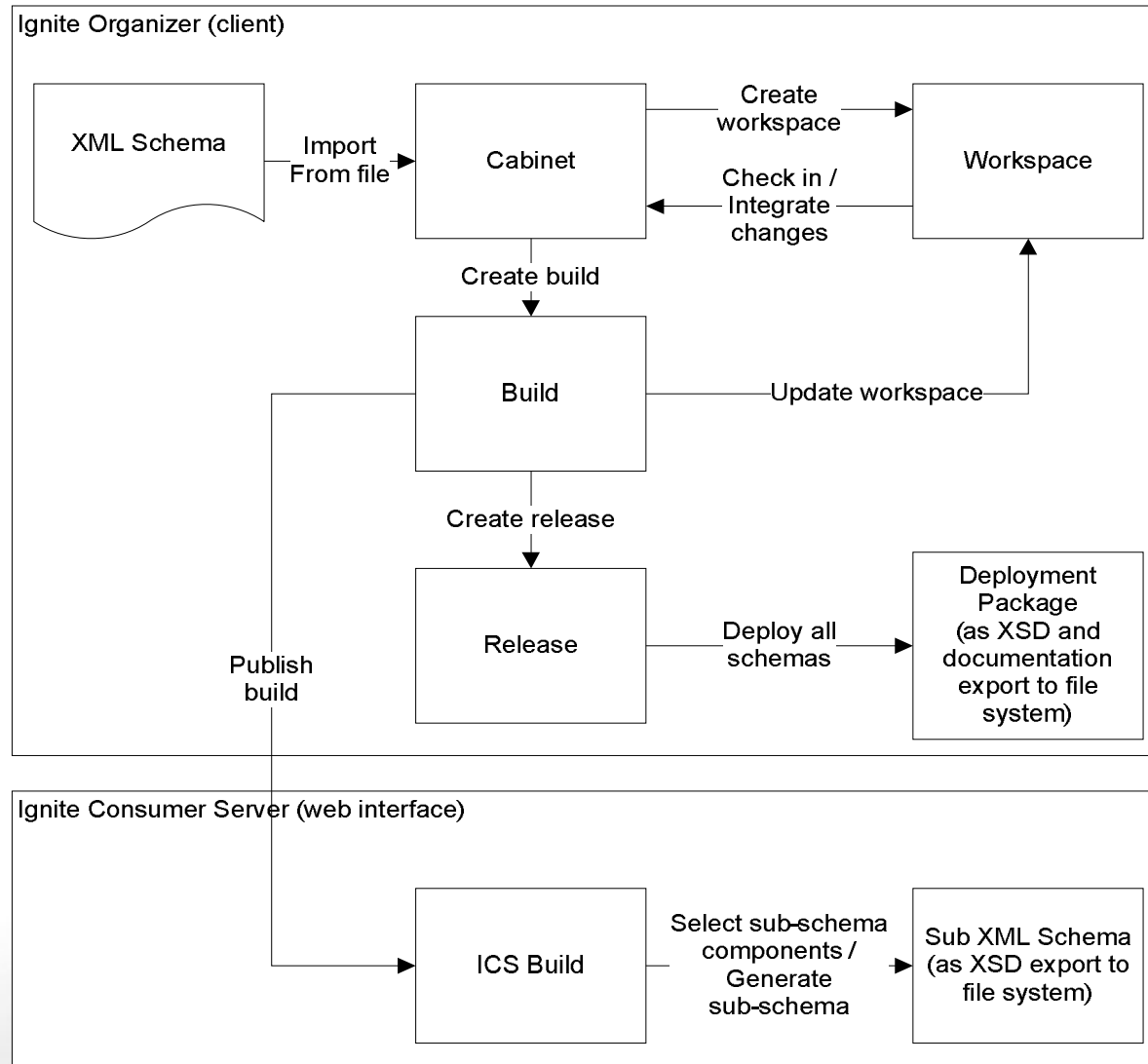
- Party:** Shows a tree view under "elt-canonical-party" with a "Build 1.0" folder containing various FpML and StaticData objects such as FpMLParty, FpMLPartyDoc, FpMLPartyIrd, FpMLPartyMsg, FpMLPartyOption, StaticDataCounterPartyBook, StaticDataGeneric, StaticDataPartyAccount, StaticDataPartyAccountProfile, StaticDataPartyEquityInstrument, StaticDataPartyIssue, StaticDataPartyOrganization, StaticDataSettlementLocation, TradeCounterpartyCollateral, and TradeCounterpartyCreditExposure.
- Trade:** Shows a tree view under "elt-canonical-trade" with a "Build 1.0" folder containing various FpML and StaticData objects such as FpMLTradeAsset, FpMLTradeConfirmation, FpMLTradeCore, FpMLTradeExec, FpMLTradeMatchingStatus, FpMLTradeNotification, FpMLTradePosttrade, FpMLTradePosttradeExecution, FpMLTradePosttradeNegotiation, FpMLTradeReconciliation, StaticDataTradeDerivative, StaticDataTradeEquityInstrument, TradeCollateral, TradeConfirmation, and TradeCore.
- Product:** Shows a tree view under "elt-canonical-product-coredef" with a "Build 1.0" folder containing various FpML and StaticData objects such as FpMLInstrumentRiskdef, FpMLInstrumentShared, FpMLProductPretrade, FpMLProductSummary, StaticDataProductAccountProfile, StaticDataProductGMIDerivativeRaw, StaticDataProductIndexInstrument, StaticDataProductPrice, TradeInstrument, TradeInstrumentDeal, TradeInstrumentDealReview, TradeInstrumentHoliday, TradeInstrumentNote, TradeInstrumentPL, and TradeInstrumentPrice.



Manage metadata - overlay vocabulary / taxonomy



Govern the framework



Data Management Policy & Disciplines

Data Provisioning

Data Movement

Data Quality

Metadata

Business Intelligence

Data Model Management