

"Industry-Leading Software and Support"





# Commercial Lending & Investment Platform



- > In business for 20 years
- > 80+ years of combined experience in CRE systems
- > 25 enterprise implementations since '02
- Proven financial longevity/business model
- Located in Orange County, CA

#### **CUSTOMERS – past & present**



 $N \cdot S \cdot S$ 



# **North Shore Value Proposition**

# NSS is the *COMPANY* that will serve you the best: most experienced, responsive, future direction

# North Shore is the most *MATURE* SYSTEM on the **market:** most implementations; feature rich; continually enhanced & supported

### **ARCHITECTURE** accommodates all your business goals and operational needs: Straight-thru, end-to-end dataflow; rules-based processing; implement incrementally

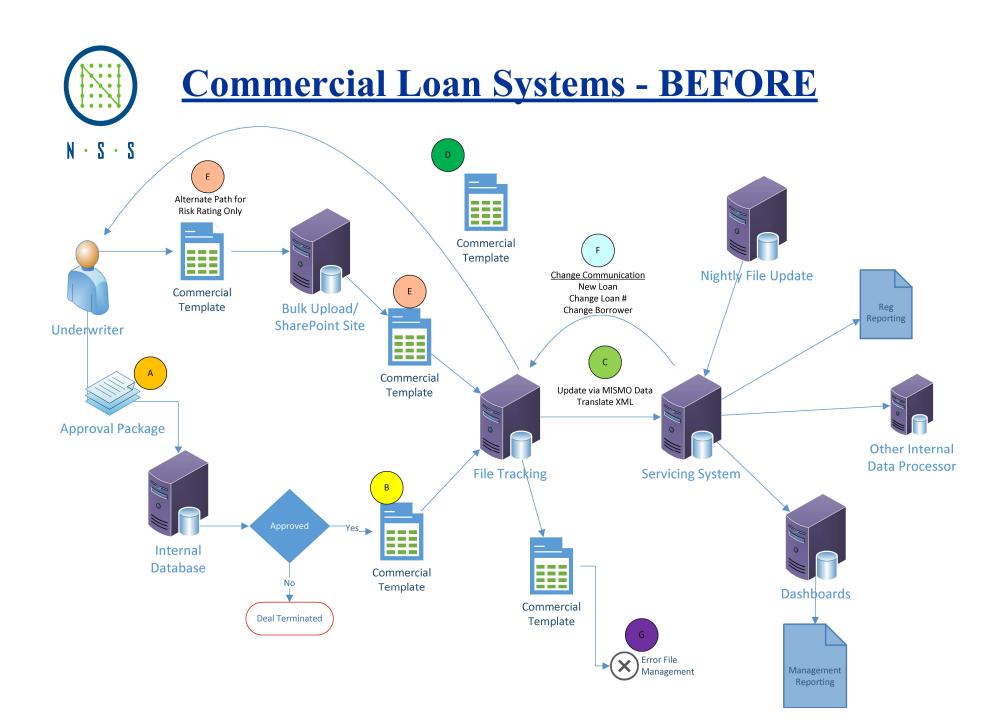


# **NS Competitive Advantages**

- Technology-partner approach
- Maturity and robustness of application
- Ability to function as a data hub
- **Ease of tailoring system to workflow processes, business lines**
- Flexibility for underwriting/excel integration
- Technology and technical expertise
- Integration experience with Servicing Systems
- > Seamless integration with the GSE's and other agencies
- Turn-key installation and on-going system support
- > New releases and on-going enhancements

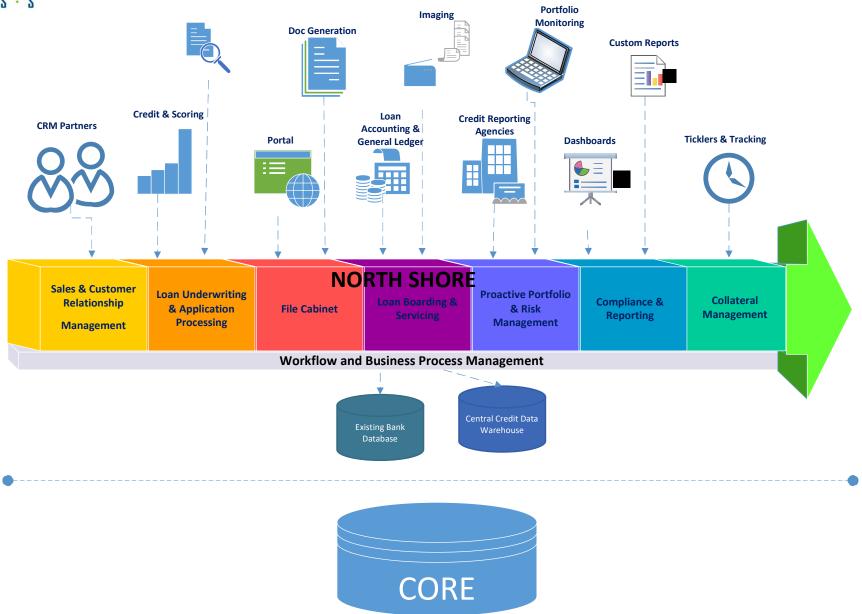


- Platform for end-to-end digital transformation
- Central access to system-of-record information
- ✓ Consolidate systems/tools used
- ✓ Lessen dependency on excel
- Ability to adapt products to market
- ✓ Ability to readily comply
- Cost savings and efficiencies



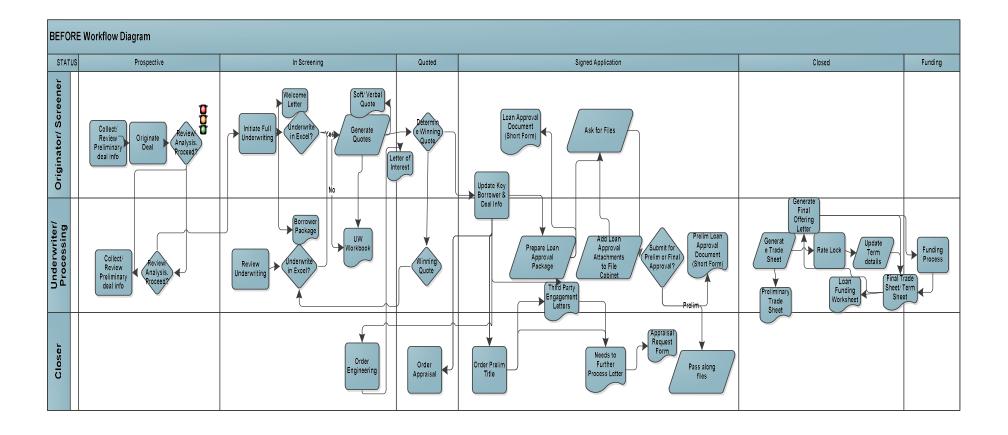


#### **Systems Environment - AFTER**



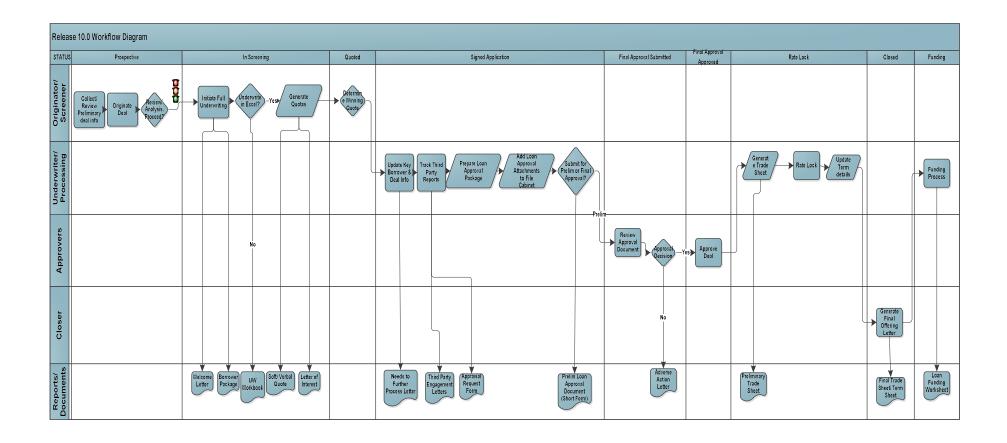


#### **Commercial Lending Workflow - Before**



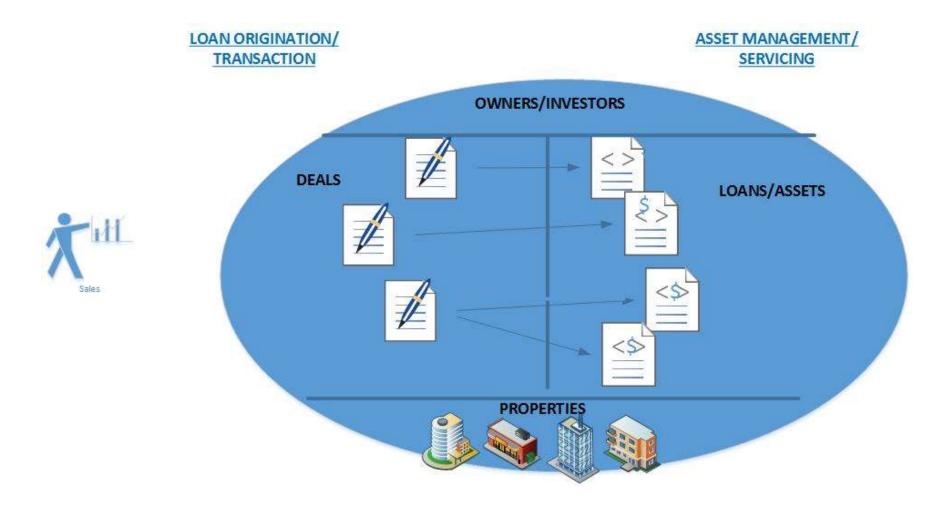


#### **Commercial Lending Workflow - After**





#### **Integrated Front-End/Back-End Database**





# **NS Features To Note**

- ✓ Web-based, hosted model (.NET technology)
- ✓ Easy to use, configure, modify
- ✓ Works for all commercial loan and investor types
- ✓ Integrates with your internal systems
- ✓ Data Import/Export capabilities
- ✓ Reporting Engine and Ad Hoc Query
- ✓ Rules Engine (workflow, underwriting, compliance, exceptions)
- ✓ MISMO, CREFC, Fannie/Freddie/HUD compliant
- Externally facing Portal for borrower/third party access
- ✓ Supports multiple lending operations from ONE system!



# **Solution for All Commercial Lenders**

- ✓ Banks/Portfolio Lenders
- ✓ Agency Lenders/CMB's
- ✓ Life/Insurance Co's
- ✓ CMBS/Conduit Lenders
- ✓ Fintechs
- ✓ REITS/Equity Investors
- ✓ Single Family Rental
- Construction Lenders
- ✓ Corporate Real Estate
- ✓ State Housing Authorities
- ✓ Servicers/Asset Managers
- ✓ C&I Lenders

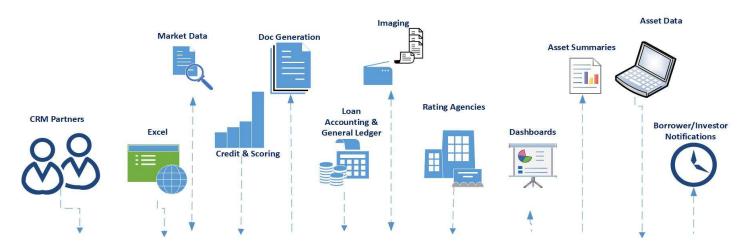


### **Future Developments**

- ✓ Browser-agnostic HTML5 version
- Mobile device access
- ✓ Industry-leading DATA HUB capabilites
  - ✓ Talks to all other systems w/ web services and API's
  - ✓ Mismo and CREFC compliant
- ✓ Facilitating Agency Digitization
- ✓ Helping Enterprises with Digital Transformation
- ✓ Portfolio Management & Analysis
- Portal and Fintech Capabilities
- ✓ Servicing Module
- Externally facing Portal for borrower/third party access
- ✓ Supports multiple lending operations from ONE system!



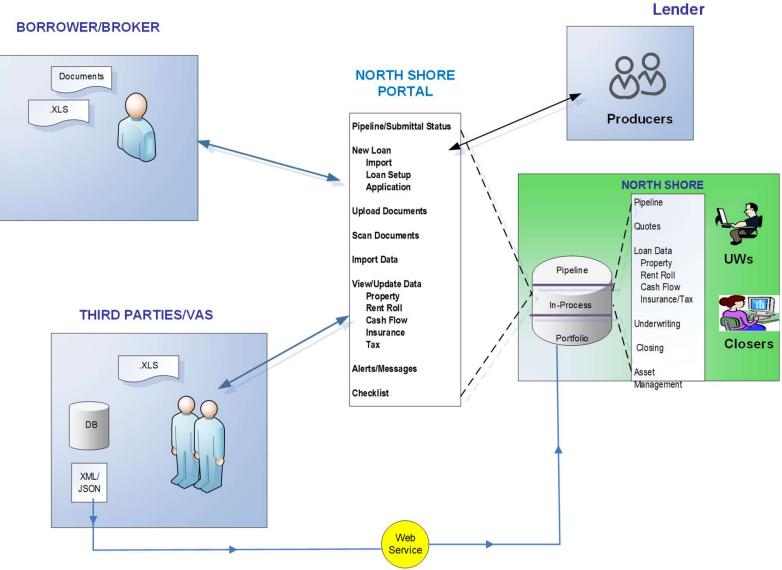
#### **Single Platform of Integrated Modules**



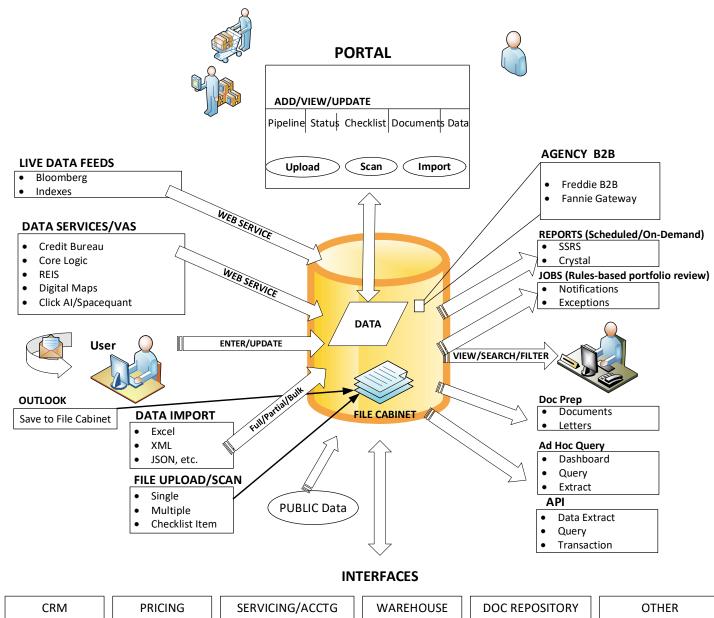
PORTAL / INTERFACES										
REPORTING / DOC PREP / QUERY										
CRM/ Origination	Underwriting/ Closing	Construction	Servicing	Asset Management	Equity Investment	Portfolio Analysis	CMBS			
WORKFLOW										
BUSINESS RULES										
DATABASE										



#### North Shore Connect (Portal)



### North Shore as DATA HUB – In's and Out's





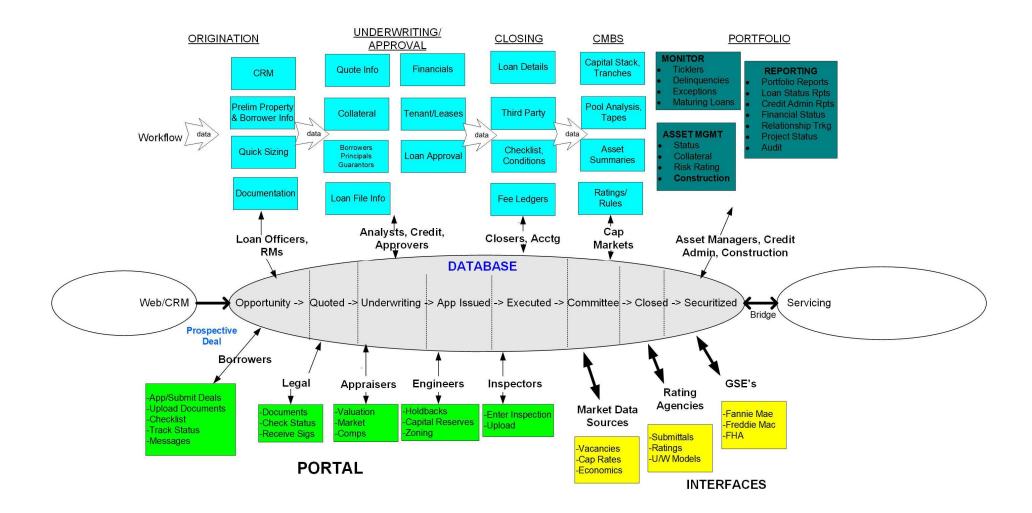
# **North Shore Modules**

### > Origination

- Portfolio & Asset Management
- > CMBS
- Construction Loan Administration
- > NS CONNECT (Customer/Third Party Portal)
- Servicing (Accounting) (2019)
- Construction Project Analysis (2020)



#### **END-TO-END PLATFORM**





# **Origination**

> Workflow Automation & Pipeline Tracking

Excel integration and/or Integrated Underwriting

- Document Generation
- > Management Reporting
- Quote Tracking
- Contact Log
- Procedure & Document Checklists
- Committee Presentation
- Complete Closing & Accounting Functions
- > Underwriting & Credit Policy Business Rules



# Asset Management

- > Rules-based portfolio surveillance & asset management
- > Automatic Property Financials requests
- > Property Inspection scheduling and capture
- Initial & Continuing Valuations
- Disposition & Business Plan Write-up & Approval
- > Appraisal Tracking
- Document Tracking and repository
- > Risk Analysis & Loss Protection
- Portfolio & Regulatory Reporting
- > Budgeting & Cash Management
- > Over 2,500 Data Elements



# **Project/Portfolio Performance**

> Portfolio mix and concentration reports

- Risk Based Capital
- **Borrower Exposure**
- Dynamic trend analysis
- **Exception reports**
- >Economic impact analysis
- Comparable reporting
- ≻Market data
- Production and performance reports



# **NS Connect** Customer Portal

- > Integrated with client web-site, private label
- > Initial loan inquiry and loan application
- Customer/broker Pipeline
- Deal Dashboard w Status and Messages
- Data and File submission
- Excel integration and/or Integrated Underwriting
- Document Checklist and File Upload
- Document/Notification Generation
- Construction Draw Requests
- > Third-Party Collaboration/Data upload



# **Online Underwriting**

**One 'enterprise spreadsheet'** – based on lender's underwriting templates – eliminates version-tracking or distribution issues

> All underwriting data integrated with other parts of the origination process — excel is an 20+ yr old technology that has no database interface and major data integrity issues

> Increased underwriter productivity – 'best' underwriting practices and business rules put in system for all to refer to

> Increased functionality – access to database during the underwriting process saves time and provides more accurate analysis.

**Vinderwriters integrated into automated workflow processes** – *for better collaboration and coordination* 

> Higher-quality deal information – for management and investors





- Excel Integration
- Rule-Based Underwriting and Pooling
- Build Pools and Perform What-If Scenarios
- Track Bond Details and Participants
- Closing and Securitization Checklists
- CREFC Investor Reporting Package
- Loan or Pool Import/Export
- Asset Summaries
- Rating Agency Tape Creation
- On-Going Asset Administration
- Pool Analysis/Statistics & Reporting



### **Commercial/Multifamily Lending**

- Workflow Automation
- Pipeline Tracking
- Broker Interface
- Sizing/Loan Options
- Quote/Application Tracking
- Business Rules/Exceptions
- Integrated Underwriting
- Cash Collections
- Borrower Relationship
- Credit Bureau Download
- Fee & Expense Tracking
- Property/Unit Mix
- Tenancy Details

- Site Issues/Improvements
- Site Inspection/Appraisal
- Sales Comps
- Management Firm
- Environmental
- Engineering
- Future Commitments
- Loan Approval
- Closing Checklist
- Management Reports
- Doc/Letter Generation
- Servicing System Interface



# **GSE-Lending Features**

- GSE-specific data fields
- GSE-specific configuration of process flow and screens
- GSE-specific data tags for use in doc prep
- GSE-specific XML and adhoc query access
- Tiered Loan Sizing Screen
- Fail Safe Tracking Screen
- LIHTC and Credit Enhancements screens
- Future Commitment screen
- Bi-directional UW excel template
- Business Rules by Program (configurable)
- Electronic M-code submission
- GSE specific reports
- Property/Unit Mix & Tenancy screens & analysis
- Site Issues/Improvements to support UW Narrative
- Robodocs interface



# Fannie Mae Report/Document List

- GSE UW Narrative
- Fee Reconciliation Report
- Fail Safe Tracking Report
- Loan Options Report
- Cash Collections Report
- Income Report
- Loan Sizing Report
- Rent Analysis Report
- Waivers and Conditions Rpt
- Exit Strategy Report
- Property/Unit Mix Repot
- Tenancy Report
- Final Loan Summary Doc
- M-code Reconciliation Report

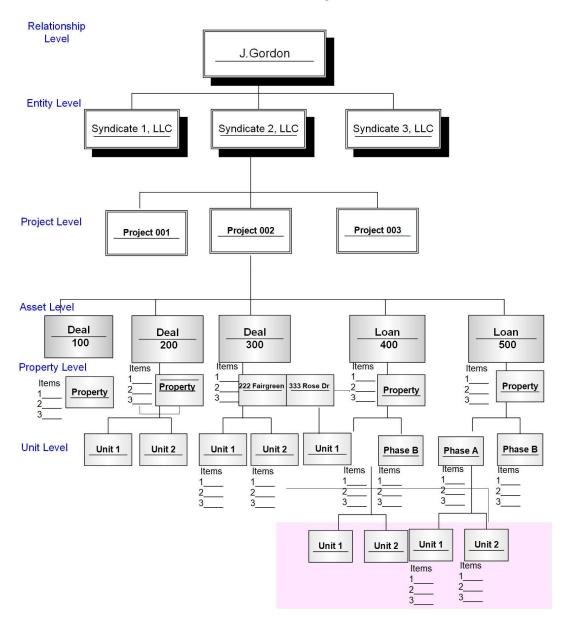


### **Construction Loan Administration**

**Borrower/Project/Loan Reporting & Control Hierarchy** >Hard Cost/Soft Cost Chart of Accounts Templates **Line Item-level Percent Complete, Retainage, Locks** Stage Draw, Percent Complete, Builder Line Controls Borrower Equity Tracking > Disbursement Schedule & Revolving Lines > Multi-unit Development & Lot Release Tracking > Web-Based Inspection Module, Borrower Module **Seamless Integration with Existing Systems** 



#### **Control Hierarchy**





Note 001

Rent Roll

Title

**Title Info** 

#### DEAL D **Deal Mgmt Info** deal team, contacts, quote status/comments ticklers file cabinet approval info Dashboard Broker, Client, Third Party Note 002 **Borrowing Entities Borrowing Entities** Terms Info Terms Info Property 1 Property 2 Property Info **Property Info** Income/Expense Income/Expense Rent Roll Appraisal Info Appraisal Info Tax/Insurance/ Tax/Insurance/ Title Environmental Environmental Engineering Engineering Tax/Insurance/ Tax/Insurance/ Title Info Title Info

### exible Deal :ructure Note 003 **Borrowing Entities** Terms Info Property 3 **Property Info** Income/Expense Rent Roll Appraisal Info Tax/Insurance/ Title Environmental Engineering Tax/Insurance/

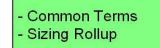


#### Deal CF-FM001



#### Credit Facility

#### <u>Note 001</u>



<u>Property 1</u>		Property 2	Property 3		Property nnn	
Pro	operty Info	Property Info	Property Info		Property Info	
Incor	me/Expense	Income/Expense	Income/Expense		Income/Expense	
	Sizing	Sizing	Sizing		Sizing	
App	oraisal Info	Appraisal Info	Appraisal Info		Appraisal Info	
Tax	/Insurance/ Title	Tax/Insurance/ Title	Tax/Insurance/ Title		Tax/Insurance/ Title	
Env	rironmental	Environmental	Environmental		Environmental	
En	gineering	Engineering	Engineering		Engineering	



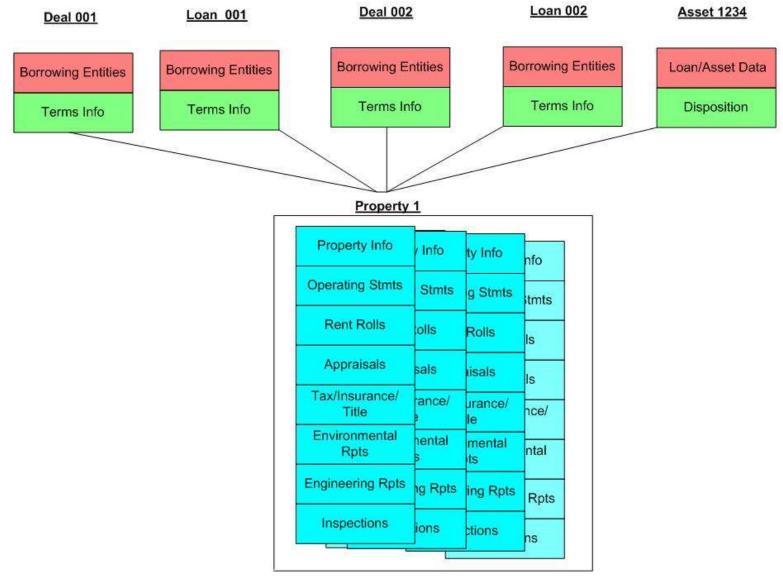
#### North Shore – Functionality Layers

'White Label' CUSTOMER PORTAL CUSTOM PROGRAMMING (Enhancements, Systems Integration) **REPORTING / DOCUMENTS / QUERY** (Filters, Canned Reports, Doc Prep, Ad Hoc Query, Excel Import/Export) **BUSINESS RULES** System Functionality (Data Validation, Underwriting, Approval, Workflow, Compliance, Surveillance) **CONFIGURATION** (Menus, Workflow, User Interface, Dropdowns) CORE SYSTEM

(Origination & Asset Management)



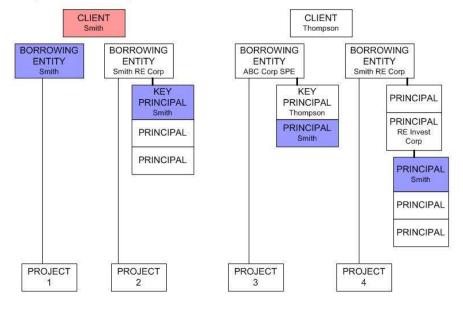
#### Single Property Record (Delivery thru Final Disposition)



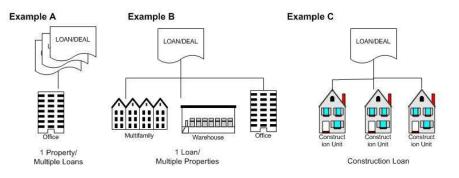


#### **Relationship Tracking**

Example: 'Smith' Relationship

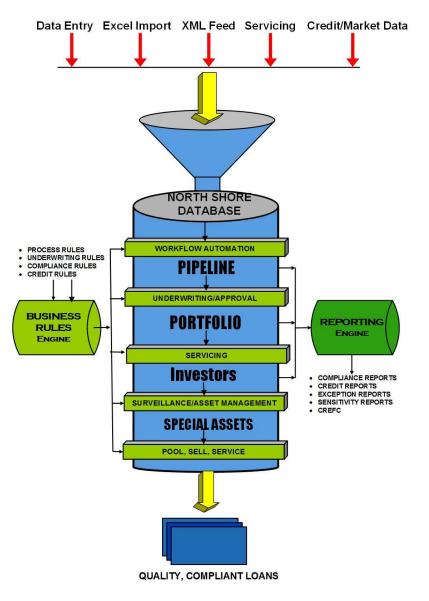


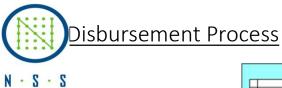
#### **Project Structures**

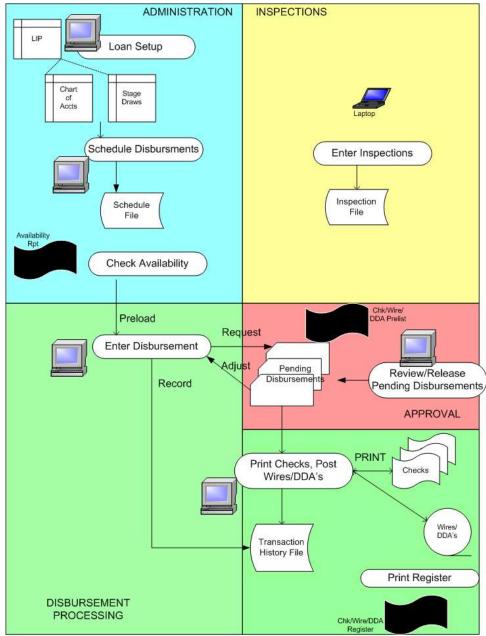


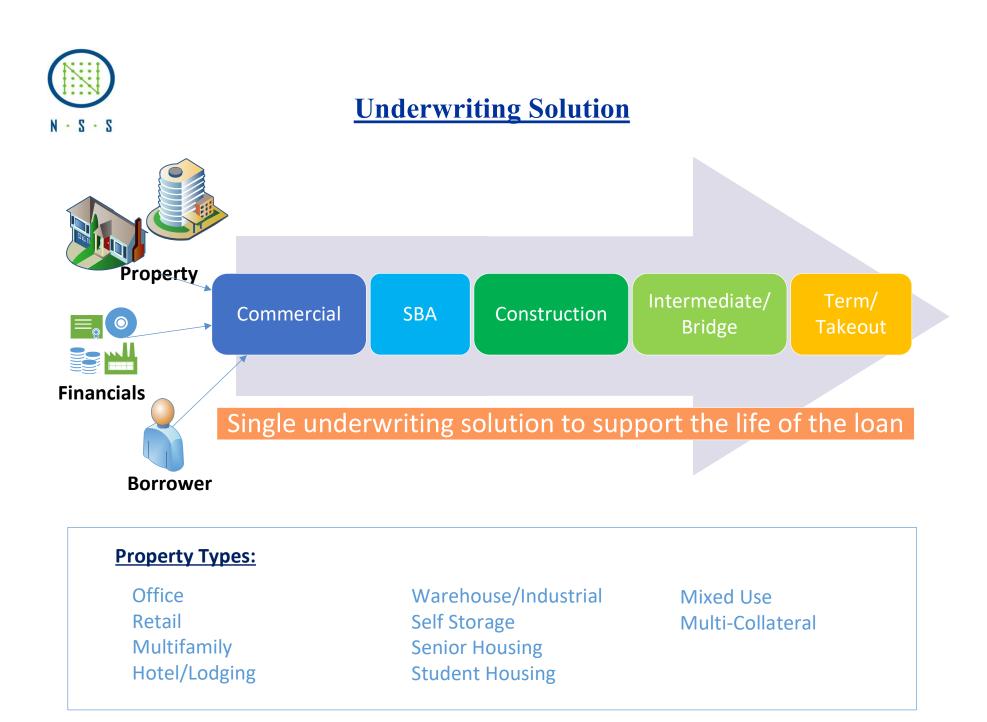


#### **RULES-BASED PROCESSING & REPORTING**

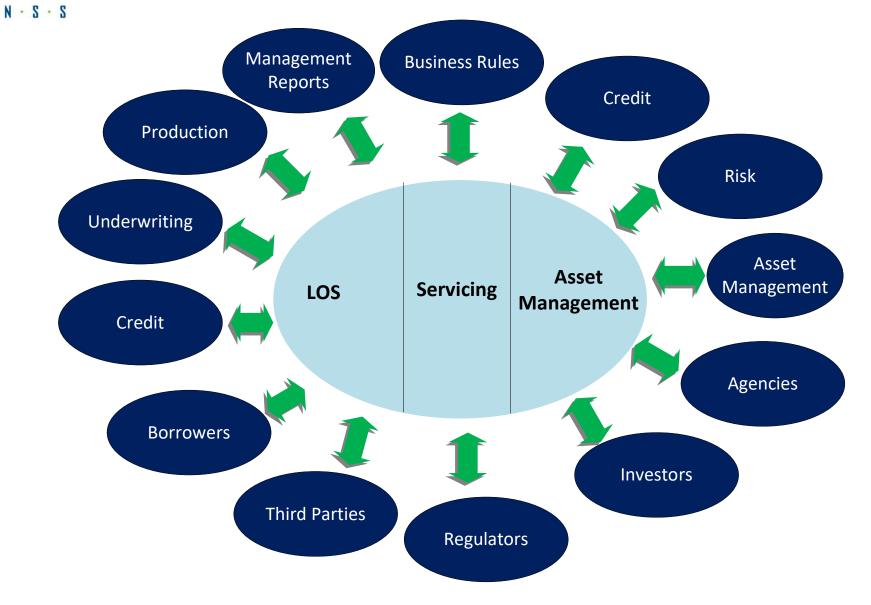








#### **Secure Electronic Platform Linking all Key Parties**





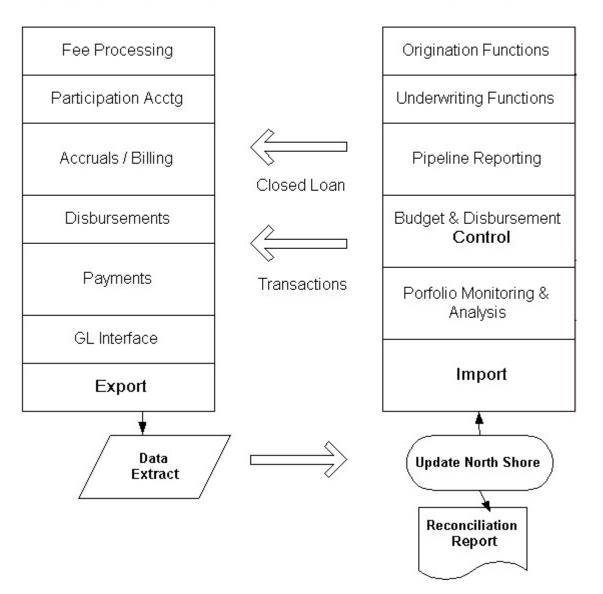
- >Monetary and non-monetary transactions applicable to a construction loan are posted on North Shore.
- These transactions are passed in the appropriate format to accounting system
- A download also takes place to overlay North Shore with the balances "owned" by the accounting system, which performs all loan accounting functions including interest accruals, customer billing, and participation accounting.
- >Accounting system continues to interface with the General Ledger, CIF, and other corporate systems.
- ➢North Shore is used to perform all construction loan control and reporting.



#### North Shore as a Front-End System

#### **Commercial Loan System**

#### North Shore



# Advantages to Front-End Approach

#### >Leveraging current systems

- Disbursement Controls ensure that budgets are adhered to. Online history is maintained for original budget amounts, change orders, transfers, retentions, holds, disbursements, and amounts available for disbursement.
- Construction progress information from inspections is maintained at the line item level for disbursement control.
- ➢A single, integrated real estate database is used to consolidate portfolio data, and serve as a single point of access for construction servicing personnel.
- All interest accruals and customer billing is controlled by your accounting system.

# North Shore Front-End Functions

✓ Borrower/Project/Loan/Property Setup ✓ Budget Setup & Maintenance ✓ Disbursement Control ✓ Retainage & Budget Locks ✓ Interest Reserve ✓ Inspection Tracking ✓ Subdivision Inventory Control ✓ Builder line Tracking ✓ Ticklers



# **Current Interfaces**

- ✓ CRM
- ✓ Servicing Systems
- ✓ Credit Bureau
- Appraisal
- Market Data
- ✓ Inspection
- ✓ Scoring/Pricing
- ✓ Agency Portals
- ✓ Borrower/third party Portal
- ✓ CMBS
- ✓ Data Feeds:





- Web Services Output
  - > MISMO XML data export NSS API
  - > SMTP Mail service
  - SMTP Mail service File Uploads From Outlook
  - Excel Exports User Designed
  - > CRAWiz
  - > Argus
  - Freddie Mac B2B
  - Fannie Mae Gateway



Web Services Output (Continued)

Document Management System

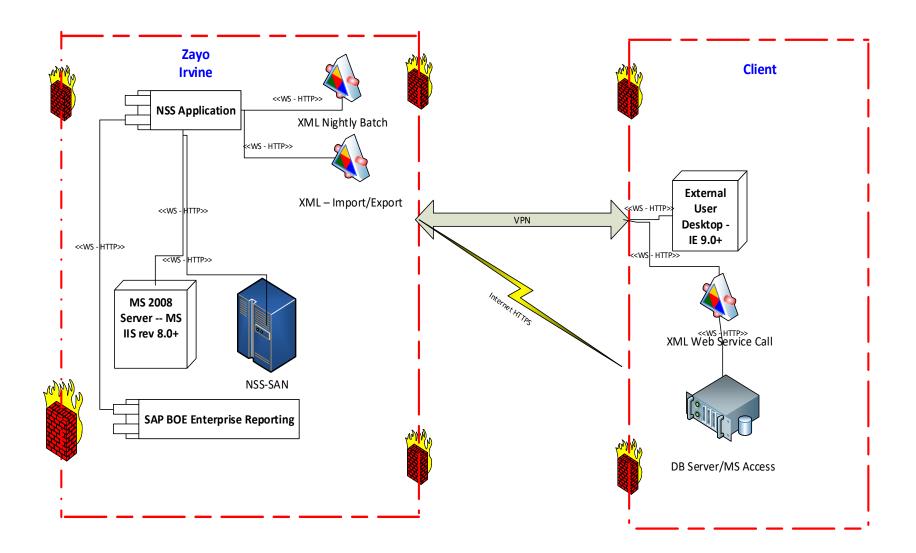
- > OpenText
- OnBase
- Other Generic DMS
- > Izenda Series 6 & 7
- Visit Ivue (Cognos Reporting)



- Web Services Input
  - Excel Imports (MISMO Definitions)
  - MISMO XML Data Import (Batch/Real-Time)
  - Informative Research
  - Credco
  - > REIS
  - DigitalMaps
  - Google Maps
  - CoreLogic
  - HappyCo
  - FTNI (Construction Draw Payments)

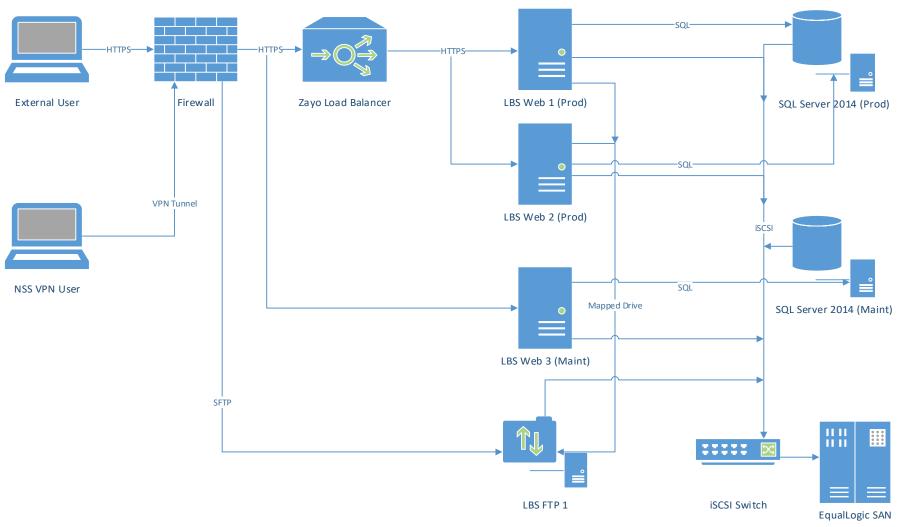


North Shore Systems Server





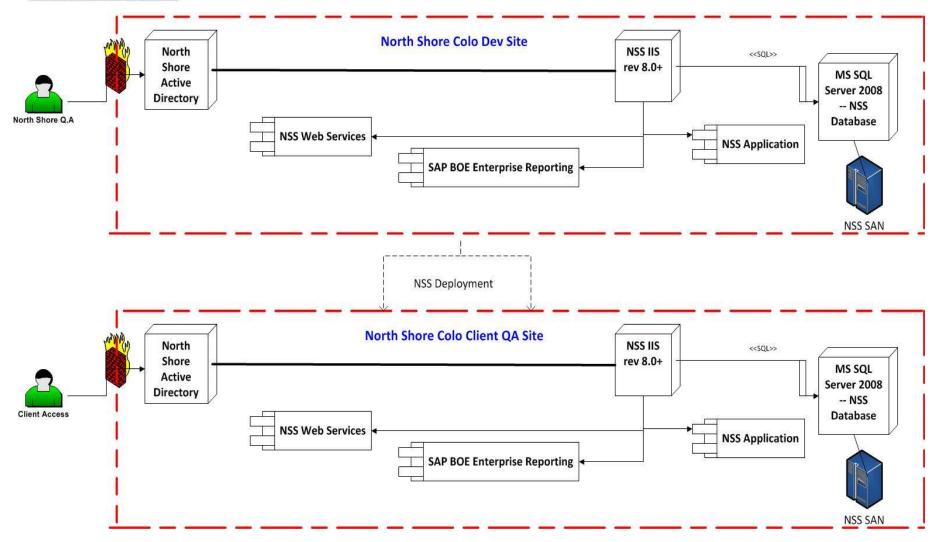
## **Prod Environment Schematic**





### Test Environment Schematic

**North Shore Development** 





- Zayo 24/7 monitoring of internet speed, network up-time
- Third party server monitoring
- > NSS internal monitoring for system response times



# **Development Road Map**

- SQL Server 2019
- Expand on our User Administration Functionality
- Expand on our Web Service Calls
- Upgrade our Web Version of TxtControl
- OCR inputs market data



### **Governance**

Every three to four months, North Shore publishes next release announcements and for our clients to input into test track enhancement requests.

North Shore Senior management teams will review the requests along with client input, plot out the next release and timeframes.

North shore then publishes the release to our clients. We work closely with them for upgrade procedures and each clients project management team to schedule each install.



# **North Shore Hosting**

#### 🗸 Zayo

- ✓ SOC 2 Type II and SOC 3 audited controls
- ✓ 4 data centers. (Irvine, Chicago, Ashburn, Denver)
- ✓ In business for 15 years
- ✓ Located in a building designed to meet rigorous federal and state building code standards.
- ✓ Extensive fire detection and suppression capabilities
- ✓ Conditioned, clean power and redundancy and disaster recovery configurations.
- ✓ Full-time monitoring and management of all aspects of the data center, operated from their 24x7 Network Operations Center.
- ✓ 3 internet service providers that will continually provide the reliability and bandwidth you demand.



# **North Shore Hosting**

- ✓ Zayo Hosting continued
  - ✓ North Shore uses the Irvine, site as our primary hosting site
  - ✓ Zayo Chicago is our hot backup site
  - ✓ North Shore owns all the servers and software at both sites.
  - ✓ Our hosting site acts as an extension to the clients IT data centers
  - ✓ All clients have their own database and environments using VMware
  - ✓ Dedicated locations for your servers is available.
  - ✓ Freddie Mac currently uses our co-location for all pre-SIT testing.
  - ✓ VPN connection between our clients and hosting sites is available for secured connections.
  - ✓ The hosted site configuration and functionality is transparent to the user.



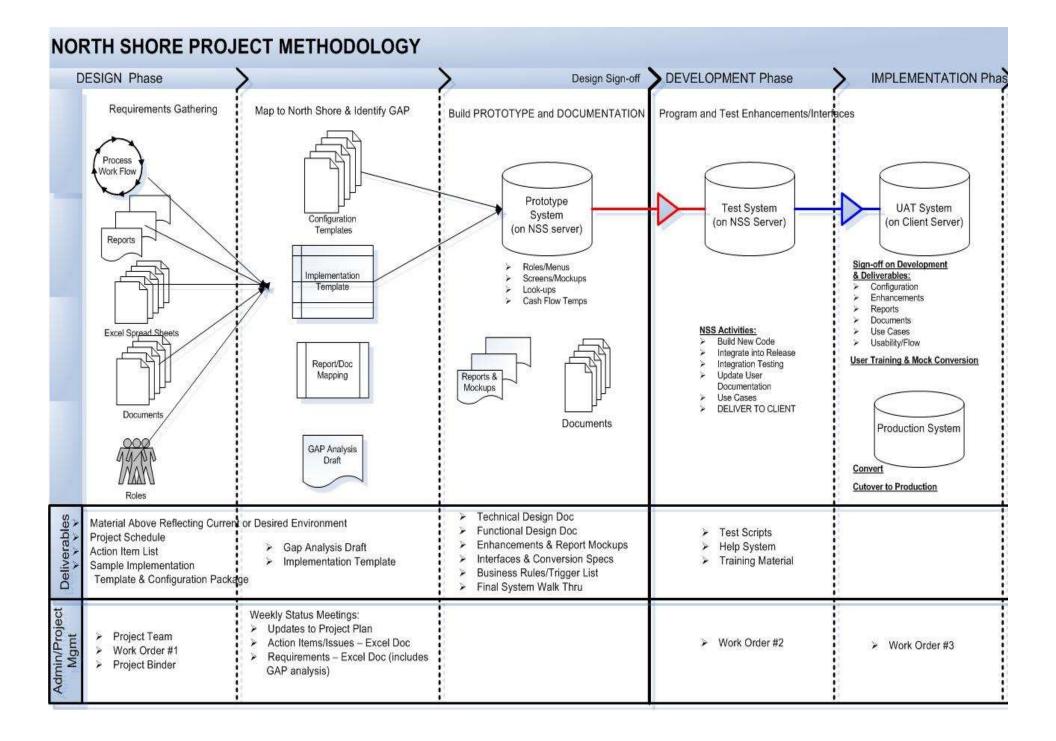
# <sup>1</sup> North Shore Hosting

- ✓ Hosting Benefits
  - ✓ NSS onsite application and server support
  - ✓ Shorter project life cycle enabling new enhancements and products installed faster into production which will reduce cost.
  - ✓ NSS will have better access for support and quicker response time resolution.
  - ✓ Dedicated operations support team from both Latisys and NSS.
  - ✓ Better installation support propagating releases from environment to environment. NSS verifies all installs and preliminary smoke tests.
  - ✓ All North Shore environments will be using the same technology throughout the life cycle of the project cutting down on environment problems during on-site installs.
  - ✓ Hot fixes can be applied more quickly.
  - ✓ North Shore hosting site is in a better position for archiving data.



✓ Hosting Benefits (continued)

- ✓ North Shore can expand server capacity quickly.
- ✓ On-site vendor support during testing cycles SIT and UAT which will shorten overall testing times.
- ✓ Estimating 15-20 servers which GEMSA would not have to support internally
- ✓ North Shore is responsible for all backups and storage requirements.
- ✓ North Shore supplies all the reporting enterprises services
- ✓ Our hosted site automatically increases internet capacity that guarantees the same response times without any variations.





- ✓ In-house or ASP (hosted system)
- Implementation methodology
- Customization process
- Timeframes and dependencies
- ✓ Resources required
- ✓ Integration w/ Servicing



#### **>** Tim White, PNC/ARCS:

"We are on a mission to improve our processing times and eliminate double entry of data throughout our organization. The North Shore system is a critical component of our strategy. We believe the North Shore system will allow us to integrate our processes in ways not possible just a few years ago, and we expect that timeliness and efficiency will be significantly improved once the system is fully operating within our organization."