

Vegetation Resource Inventory Management System

VRIMS

**Forest Information
Management Workshop**

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Evolution of Vegetation Update

- 1952-1978 – PSYU Inventories
- 1978/79 – Computer mapping, decentralize Update to Forest Districts and Regions
- 1992-1998 – Use of GPS, mono-restitution, orthophotos, satellite images, data Sharing
- 1998-2001 - Conversion to INCOSADA, change detection
- 2001 - 2003 – MSRM created, LRDW, RESULTS
- 2005 – VRIMS development begins, Veg Update moves back to MoFR
- 2006 – INCOSADA turned off for Veg Update



The Future of Vegetation Update

- Industry collects most of the information
- RESULTS will supply spatial and attribute information
- Reduce duplication of other reporting requirements
- No significant alteration to the delivered data
- TFLs continue to do their own updates
- Timely access to the updated data
- Implement Arc Based update process in 2007



What Is VRIMS?

- Vegetation Resource Inventory Management System
 - Vegetation Inventory Data Collection
 - Quality Assurance
 - Data Loading
 - Data Management
 - Data Storage



Updating Vegetation Inventory

Priorities are driven by:

- Timber Supply Review Schedule (data needs)
- Currency of the TSA file
- Free Growing and Fire Disturbance backlog
- Strategic Planning needs
- Client priorities



Input Data Sources to VRIMS

- RESULTS
 - Denudation
 - Free Growing
- New VRI Inventories
 - New Phase 1 Reinventories
- Natural Disturbance Updates
 - Wildfires, MPB, etc.



Input Data Sources to VRIMS (con't)

- Free to Grow Assessments
 - Free to Grow Assessments (Backlog)
- Vegetation Inventory Adjustment Factors
 - VRI Phase 1 and 2
 - Net Volume Adjustment Factor (NVAF)

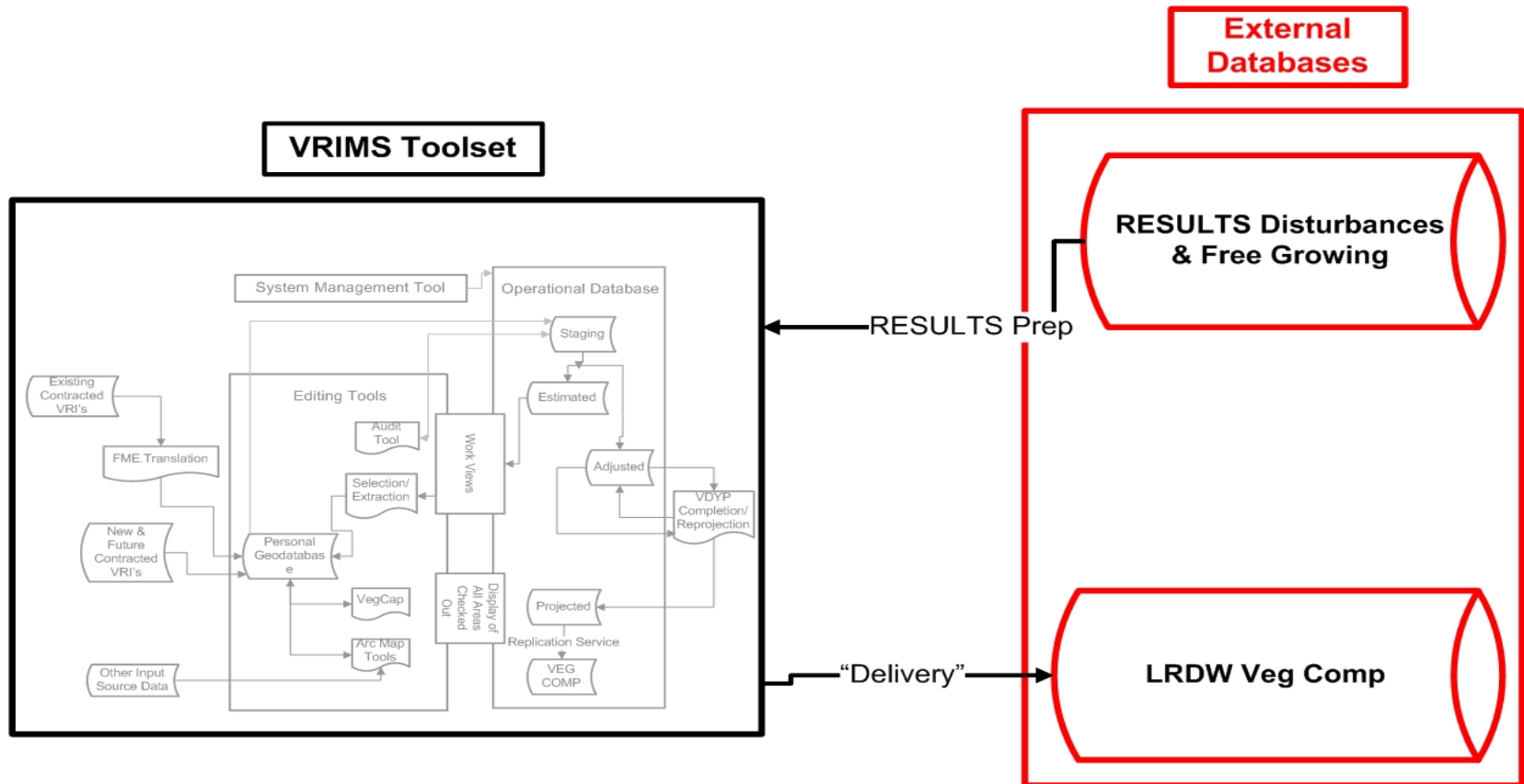


External Databases

- RESULTS (Reporting Silviculture Updates and Landstatus Tracking System)
 - Incoming Data
- LRDW (Land and Resource Data Warehouse)
 - Outgoing Data



Link from/to External Databases

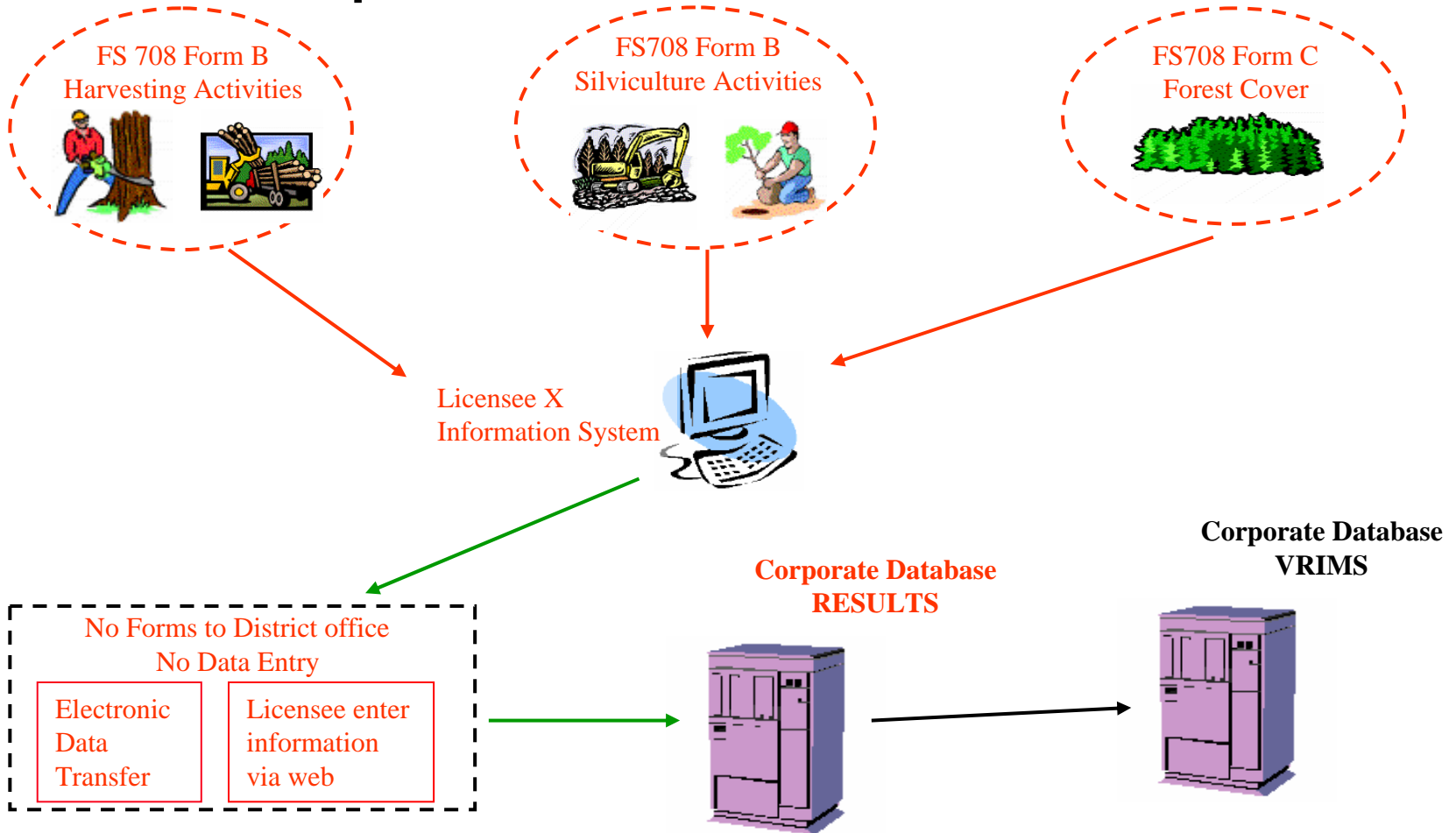


RESULTS Database

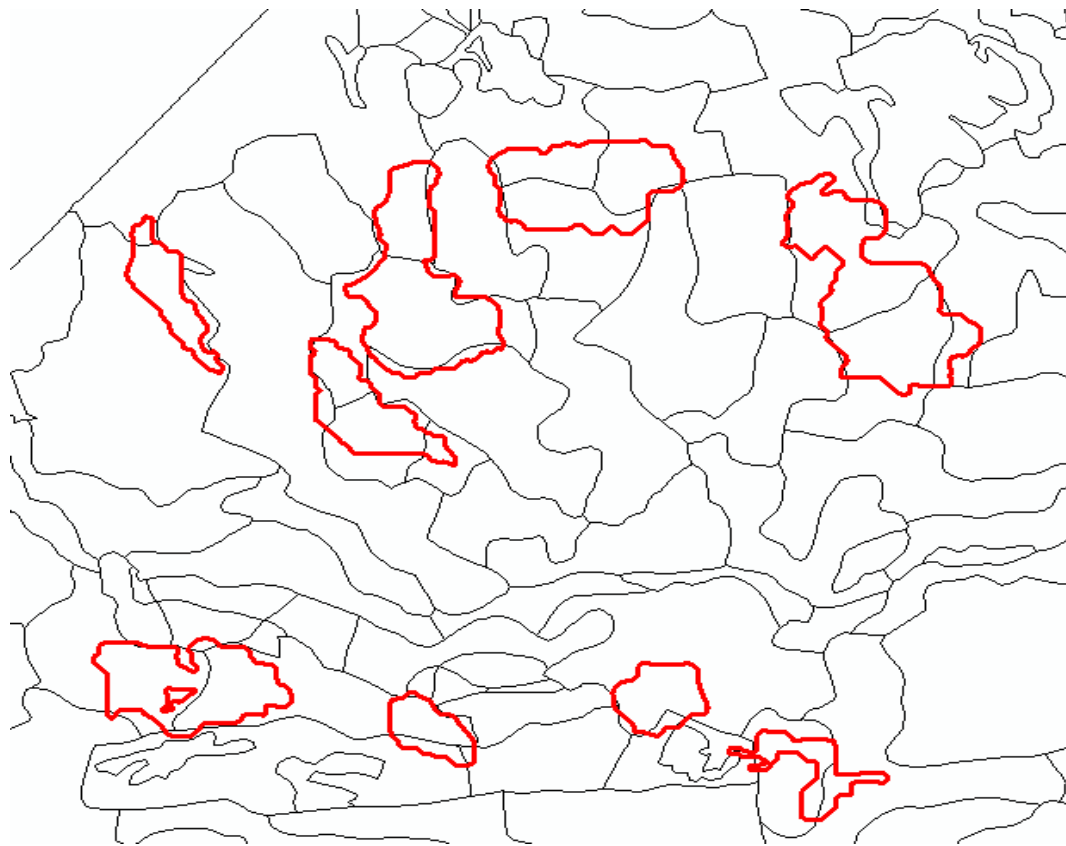
- VRIMS queries the Forest Cover Polygon and Activity Treatment Unit tables
- VRIMS integrates data at 2 key milestones:
 - Denudation
 - the RESULTS Forest Cover is generalized to derive disturbed area
 - Free Growing
 - The RESULTS Forest Cover is NOT generalized
- RESULTS Data is photo verified prior to integration



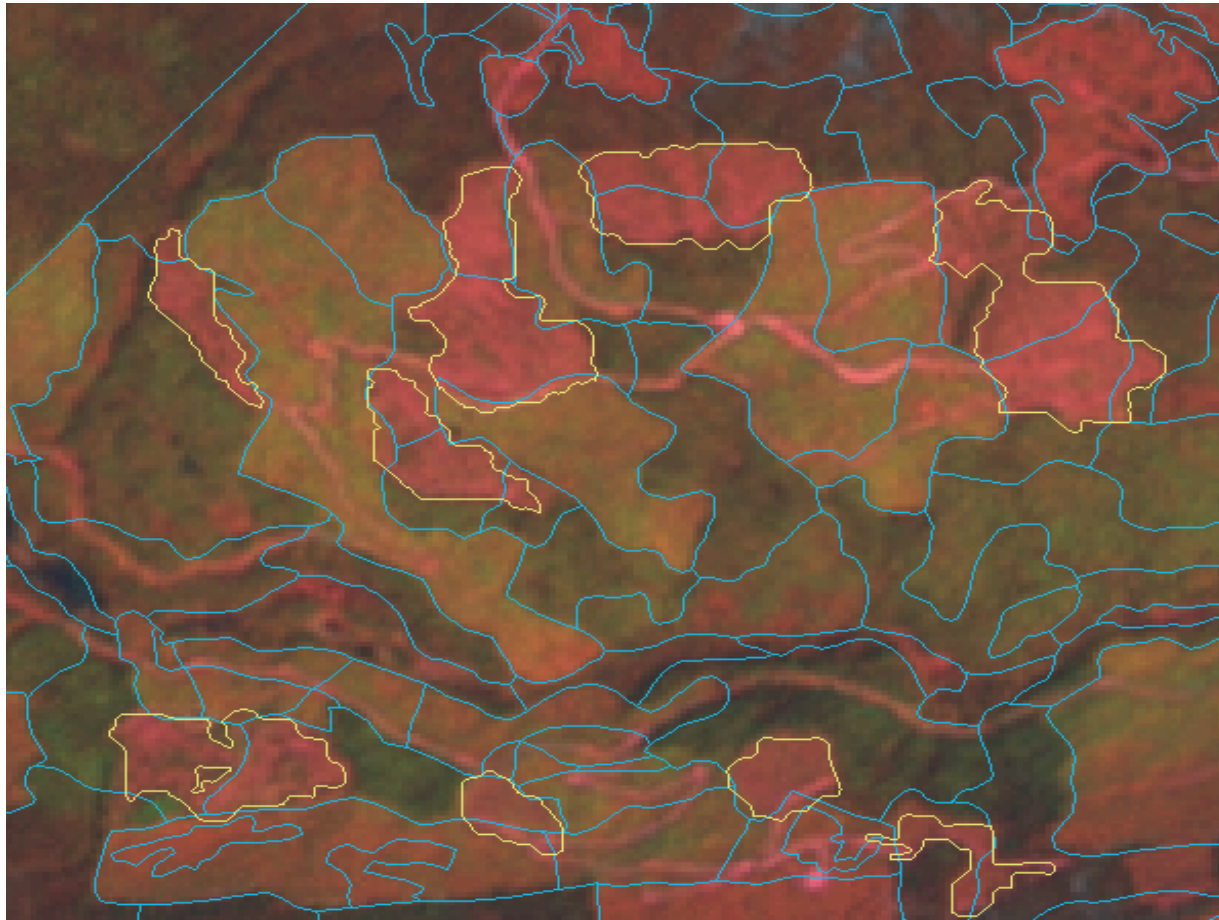
Input data to RESULTS



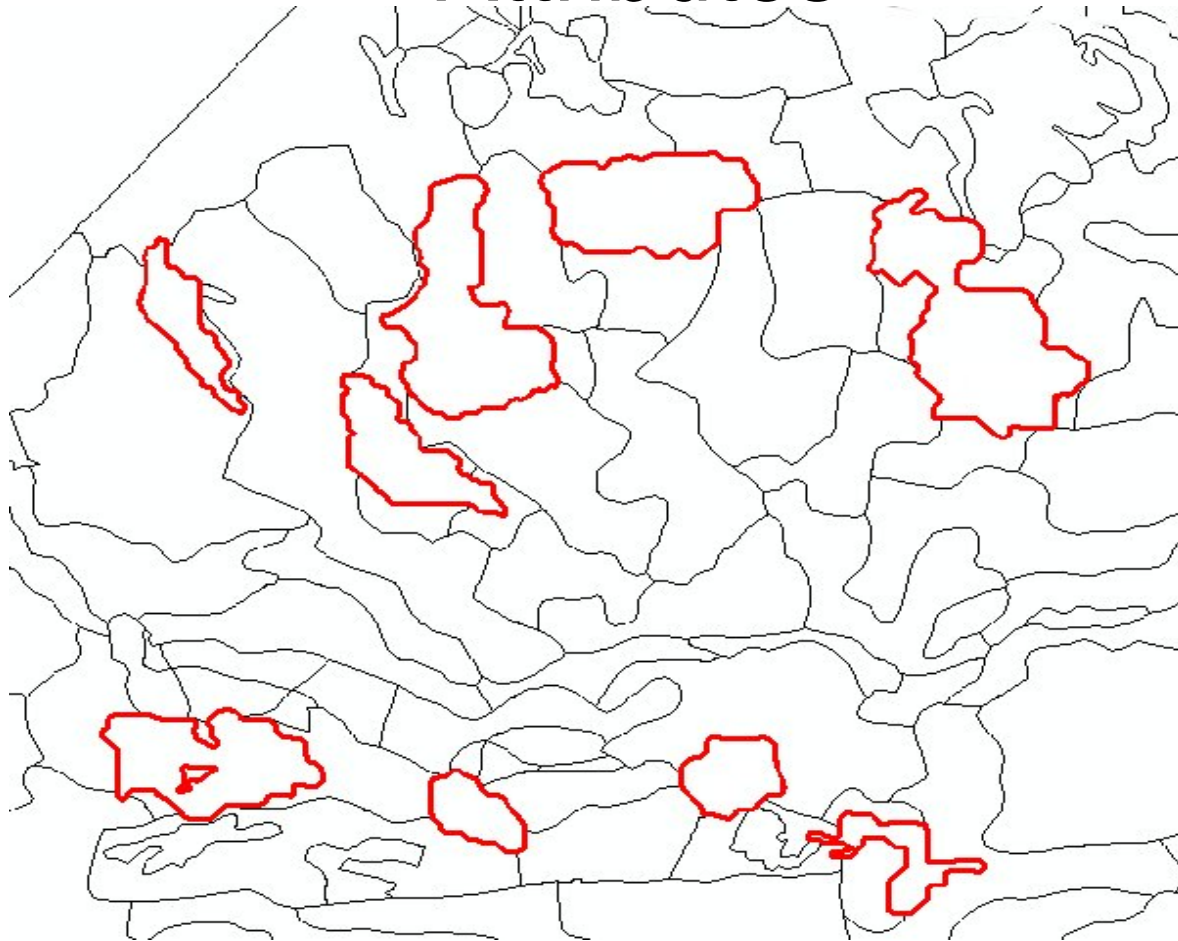
New Openings Reported to RESULTS



VRIMS RESULTS Audit



Integrated Linework and Attributes

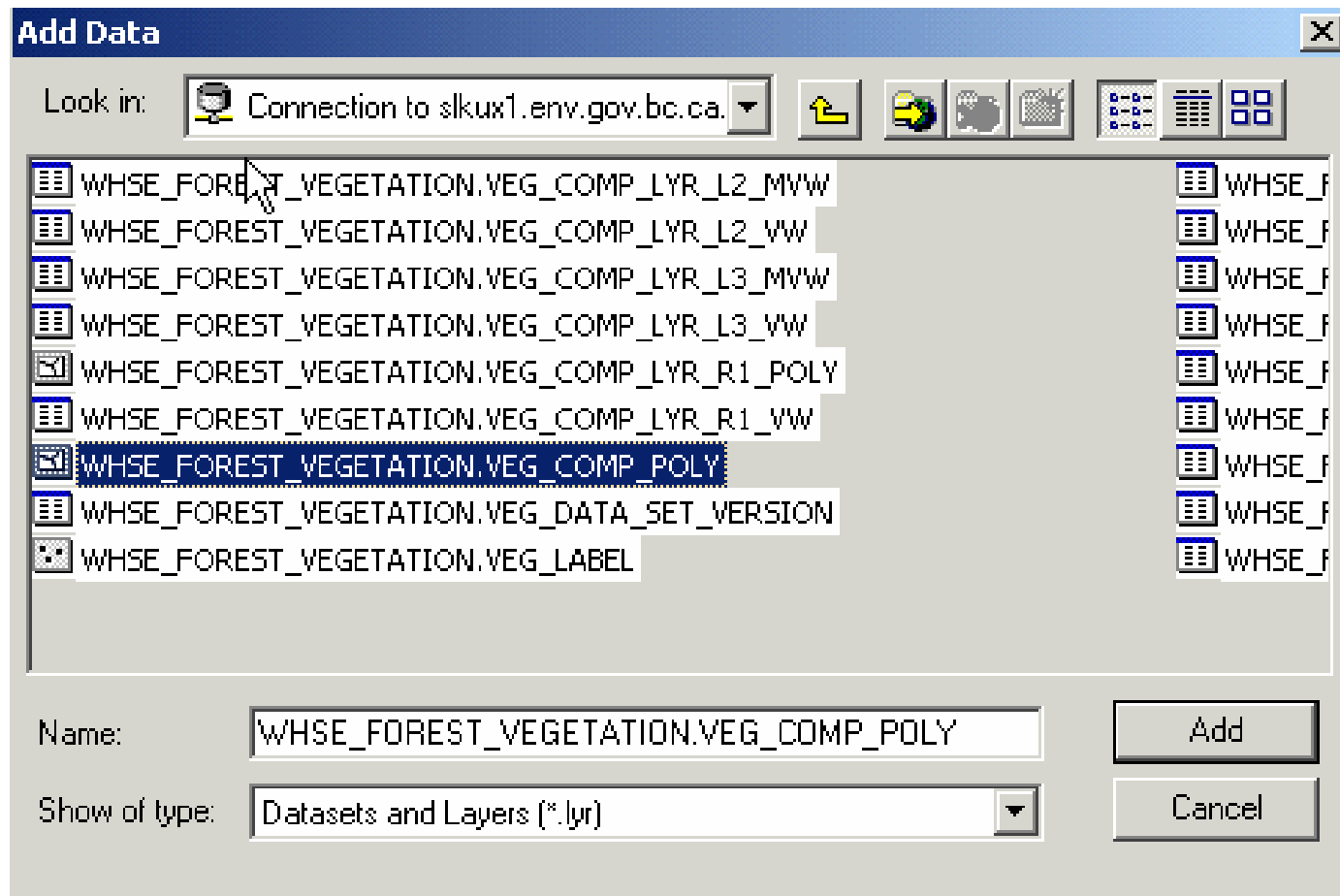


LRDW (Land and Resource Data Warehouse) Database

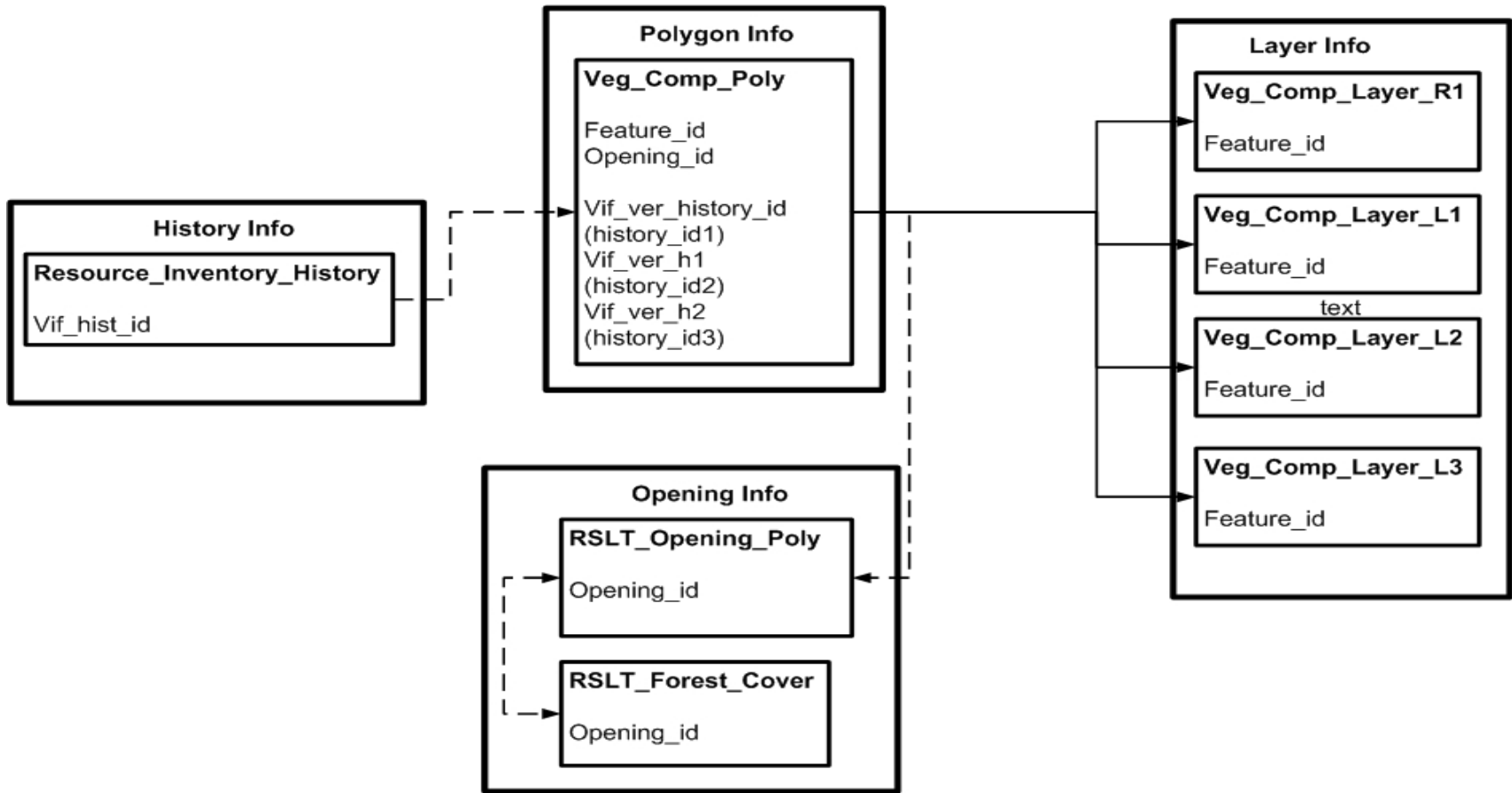
- Veg Comp (Composite) was developed to assist with analysis of the data
- 2 tables
 - Veg Comp Poly
 - Spatial Description
 - Polygon attributes
 - Veg Comp Layer
 - Tree Layer attribute



VEG Comp Poly in the LRDW



Veg Comp Table Linkage



Other LRDW Database Outputs

- Veg Resource History Table
 - History Attributes of Openings
- Veg Label Table
 - Used to produce hardcopy maps
- VDYP7 Yield Input table
 - Used to generate Yield Curve tables



VRIMS Items Completed

- User Acceptance Testing
- Convert VRI to VRIMS data model
- Business Area Workflows
- Train the Trainer (VRIMS)
- ESRI ArcMap Training



Next Steps

- Complete Build and Testing
- Complete Training/Procedures Manual
- Deploy VRIMS for production
- Complete and implement communication plan
- Road Show
 - Targeted for fall 2007 rollout
 - Communicate the use of VRIMS derived data on the LRDW
 - Target audience – Users of VRI data from LRDW



Veg Update Frequency

- Results Annual Reporting Deadline
 - May 31
- Image Acquisition
 - Image dates June – August
 - Processed Sept/Oct
- Data Audit and Integration
 - Currently Oct - Dec
- Annual Reprojection
 - Currently Dec - Jan
- Replication to LRDW
 - Jan



VRIMS Post Implementation Workload

- 310 New VRI maptiles to be integrated
- 59000 RESULTS openings to audit and integrate
- 100 Wildfire VRI maptiles to be integrated
- 8000 polygons requiring data clean up



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