A new generation of Web-based data analysis tools

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Biometrics Working Group Meeting
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The mission

Facilitate easy access for customers
  • Analysts
  • State foresters
  • Policy makers
  • Researchers
  • Forest industry
  • Environmental groups
The mandates

Federal information technology policies

• Coordinate technology investments
• Design reusable components
• Utilize forward-thinking technology
The problem

Traditional development model
• Ad hoc development
• Difficult to customize
• Redundant functionality
• No integration
The solution

FIA Information Delivery Architecture
- Service-oriented architecture
- Web services framework
- XML binds components together
Generalized architecture diagram

Presentation Tier

Caterer

Business Tier

Web Service
Logic Repository

Data Tier

Proxy

XML Cache
DBMS
New FIA applications

- Forest Inventory Data Online
- Forests on the Edge
- Data Quality Tool
- NIMS Compilation System Forms
Forest Inventory Data Online (FIDO)

- Similar in functionality to Mapmaker
- Produces standard tabular reports and choropleth maps
- Estimates and variances per GTR SRS-80
- Multiple output formats
- Future plans
  - Custom tables
  - Estimation of ratios
  - P3, NWOS, TPO
  - Raster mapping
  - Map-based estimation
FIDO
FIDO
Forests on the Edge (FOTE)

- Watershed-based analysis tool
- Currently only private forest land
- Future plans for all forest land and other geographic units
Data Quality Tool

- Post-field edit check system
- Analysis tool to improve quality of data loaded into NIMS and FIADB
- Will be incorporated into the NIMS Compilation System
Data Quality Tool
Data Quality Tool
Data Quality Tool
NIMS-Compilation System Forms

- Replaces current Oracle Forms-based system
- DBMS vendor and version neutral
- Will be integrated with FIDO and Data Quality Tool
NIMS-CS Forms

Plot Viewer: Plot 1010 (MN, 2006)

### Tabular View

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### Add Column

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