

UAA Forestry Manager's Summit Nashville 2015

GIS Asset Management Strategies

Utilizing GIS - Tracking

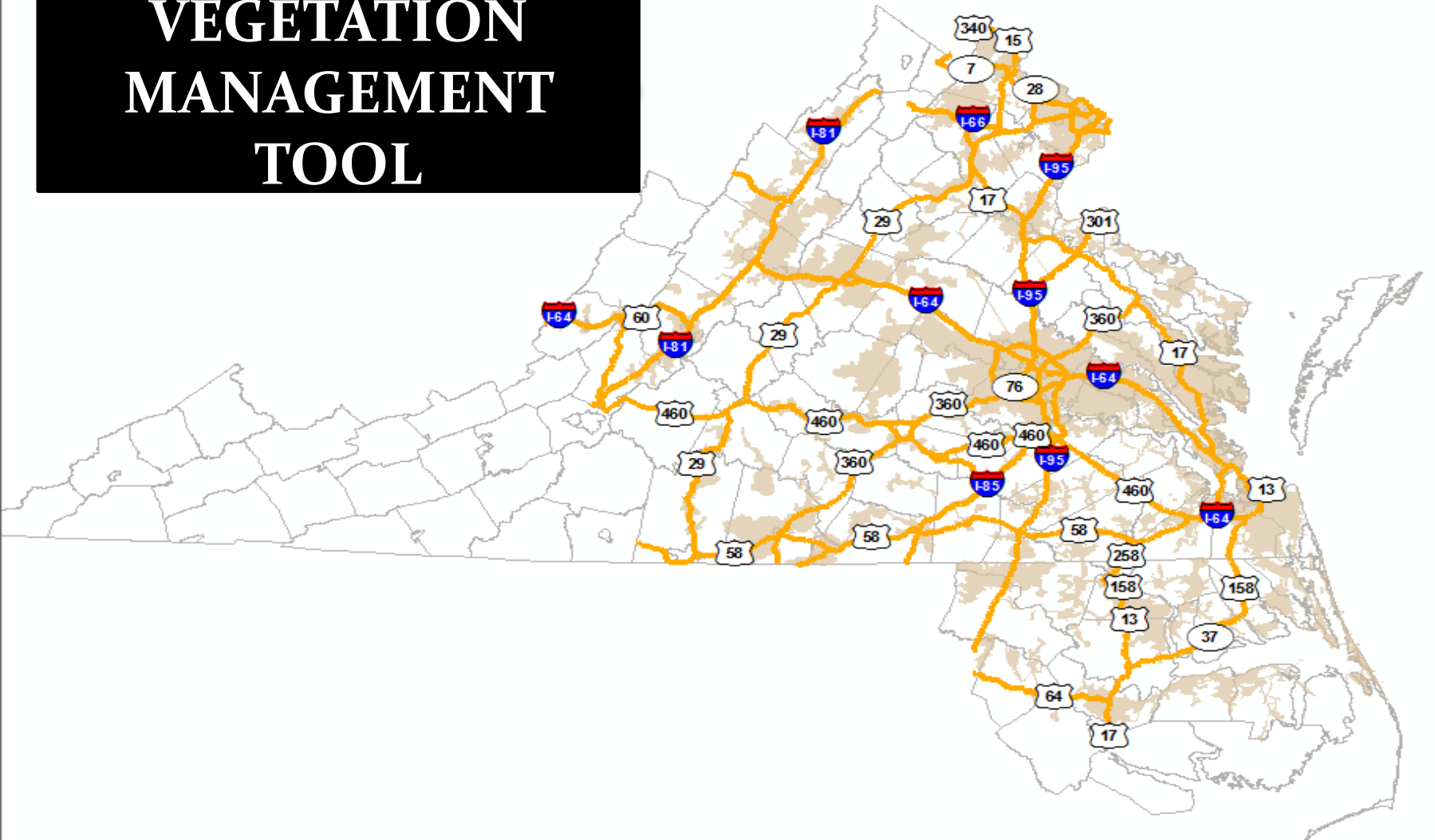
Jay Griles – Dominion

DOMINION

Distribution Vegetation Management

- **2.5 Million Customers**
- **34,500 Miles of Overhead Distribution Lines**
- **Distribution Voltages 4KV – 34.5KV**
- **Geography – Mountains, Piedmont, Coast**
- **Regulators – Virginia and North Carolina**

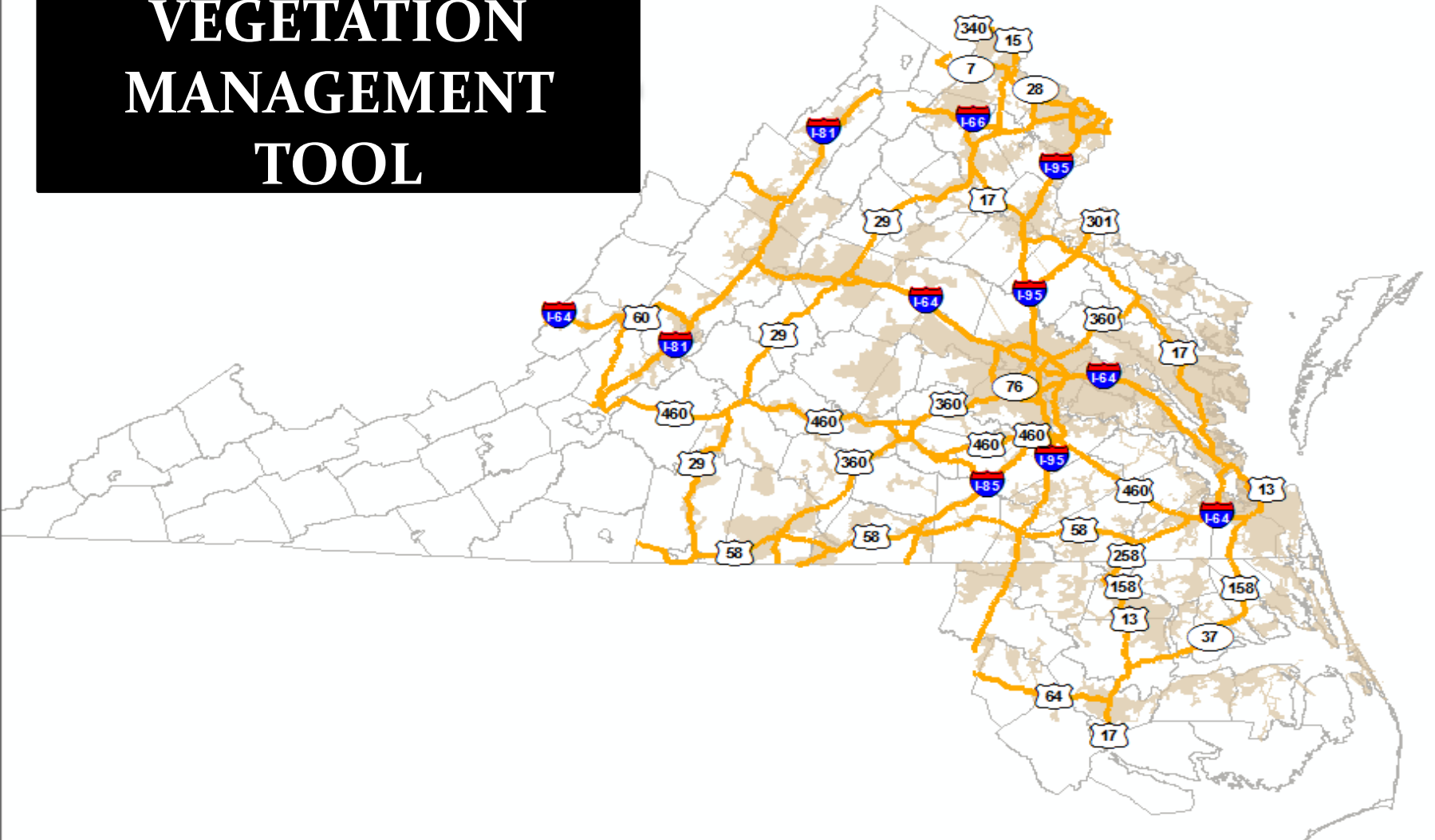
DOMINION'S VEGETATION MANAGEMENT TOOL



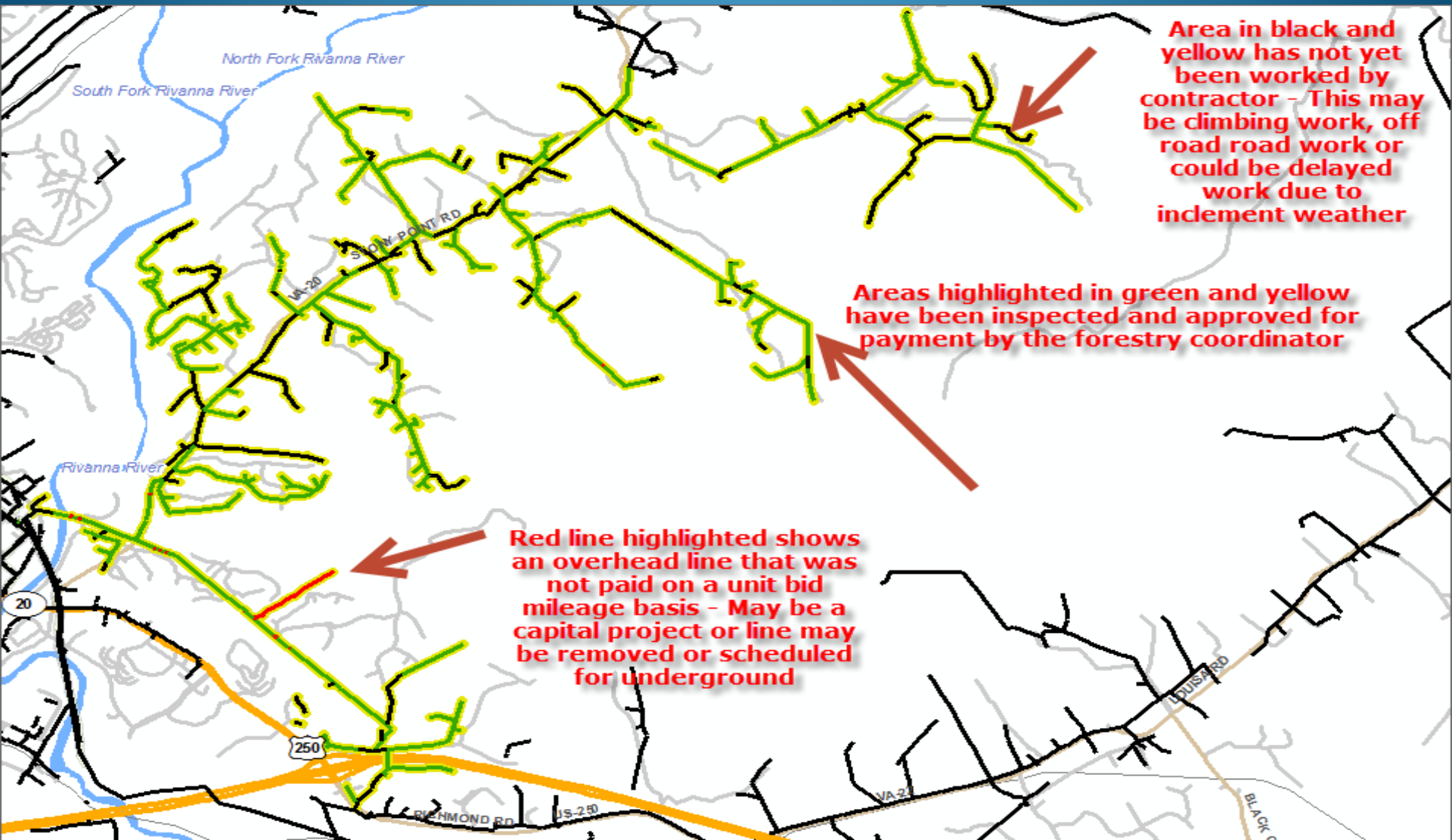
Dominion's Vegetation Management Tool (Capabilities)

- **Track Bid Mileage Completed for Payment**
- **Track Ground Floor Activity**
- **Track Spans Representing Skips**
- **Track Spans Representing Discrepancies**
- **Track Special Conditions**
- **Provides Billing Information to Accounting**

DOMINION'S VEGETATION MANAGEMENT TOOL



General Characteristics



UAA Questions

What percentage of your system is covered by GIS?

100% of Distribution

What layers/assets are captured?

Circuits – linear feature with poles & devices

Inspection Status:

Not Inspected

Complete

No Payment

Discrepancy

Skip

UAA Questions

What layers/assets are captured? (Cont.)

Special Conditions:

Customer Notification

Customer Agreement

Easement Restriction

Lock Gate

Danger Tree

Septic Tank

Historical Tree

Legal

Animals

Other

UAA Questions

What layers/assets are captured? (Cont.)

Ground Activity

Mowed

Sprayed

Hand cut

No action

Payment Month/Year

Vendor

Forester

Cycle Year

UAA Questions

Is your platform mobile?

Yes, inspections are performed in the field.

From a VM perspective, are you 100% digital (no paper from start to finish)?

Yes, All inspections, mileage calculations, mileage submission, & payment is fully electronic.

And no, our vendors do not have the tool, so there are paper maps in the field.

UAA Questions

Is your VM GIS system utilized for work planning, work tracking, or both?

Work tracking only.

What were the key attributes or functionality targeted when developing your VM GIS?

In an effort to keep it simple, the main goal was to capture only the information needed to facilitate electronic progress tracking, mileage calculations, special conditions, and payment.

UAA Questions

Was your system built internally, customized by an outside vendor, or taken right off the shelf (with a limited number of modifications)?

Built internally with the help of an outside vendor.

Is your VM GIS system live or periodically synced?

Each forester has their own version, which is reconciled with the other forester versions nightly.

UAA Questions

Is your VM GIS tied to other internal asset management systems?

Same platform, different instance.

Do all UVM activities at your company utilize the same VM GIS system (e.g.; transmission, distribution, substation, gas)?

No, Transmission has a separate GIS system.

UAA Questions

What are one or two lessons learned or implementation hurdles encountered?

The learning curve was significant. We implemented a parallel manual/electronic entry process until the foresters were comfortable with the system. Now the foresters are totally committed to utilizing the system and have no desire to return to paper maps.