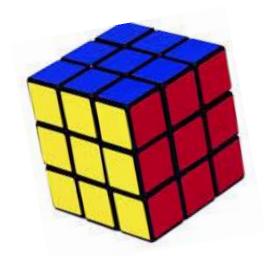


Webinar Series:

Solving the Rubik's Cube of Vegetation Management Costs



Joe Purohit, Founder & President



Mark Mann, CEO & Owner of



The Critical Management Strategies







Prioritized Critical Management Strategies based on Potential Cost Savings

- 1. Tree Growth Regulator
- 2. Herbicide Application
- 3. Mechanical Clearing
- 4. Planning/Auditing
- 5. Tree Trim/Removal
- 6. Data Collection for System Surveys





Previous unsuccessful attempts to integrate the critical strategies included:

- Excel based tools
- Access based tools
- Mobile apps tools
- Custom GIS tools

However each of the tools failed to coordinate all of the strategies together within the ROW maintenance program.





The search for a program that coordinated all the critical strategies culminated in a meeting between Joe Purohit and Mark Mann.

The result of working together for several years was the creation of the IMAM program.

Integrated Maintenance Asset Management

Which is supported by the TreeAM platform.

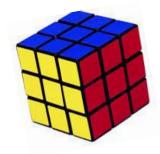




Right Tools for the Right Strategies: the TreeAM difference



Existing VM tools

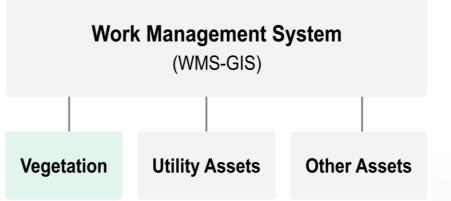


TreeAM

- Vegetation managed as "built" assets
- Reinforcing data and process silos

A new class of software to manage vegetation as environmental assets:

- Exist as integrated systems
- Constantly changing, slowly or rapidly (fires)
- No design or performance standards



TreeAM Vegetation Management Platform

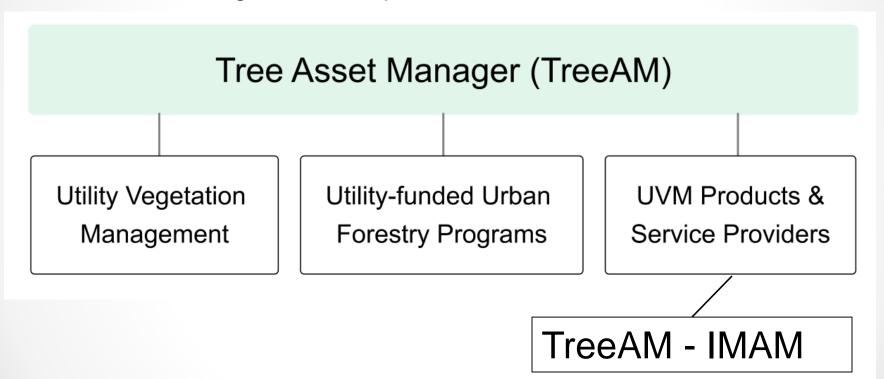
Work/Asset
Maintenance System

Other tools, e.g. GIS

Right Tools for the Right Strategies: the TreeAM



A single software platform for all VM needs

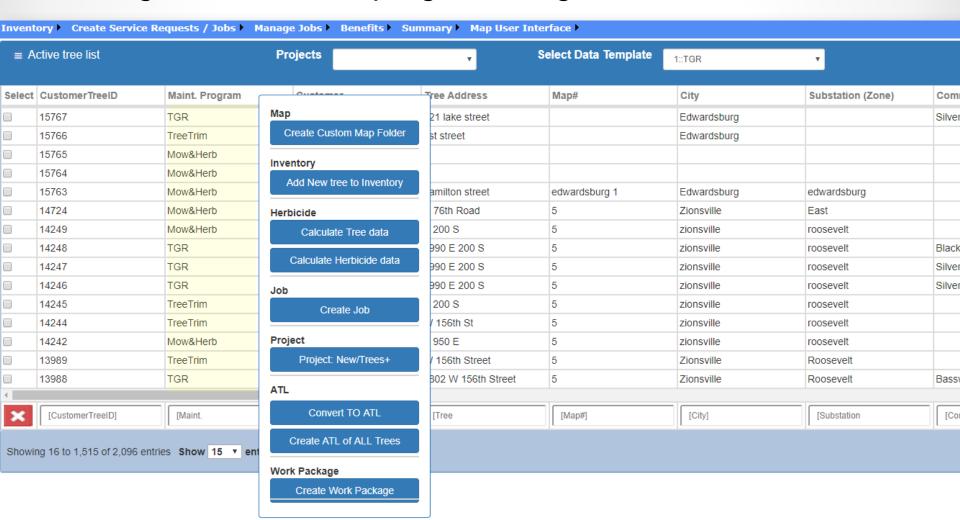






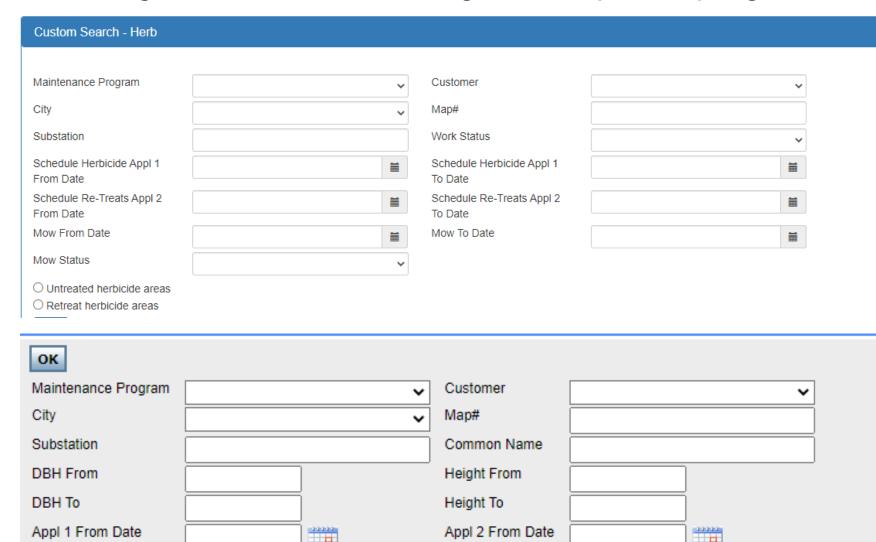
Right Tools for the Right Strategies: the TreeAM/IMAM

Integrated data, VM programs, organizations, and users



Right Tools for the Right Strategies: the TreeAM/IMAM

TGR, Mowing, and Herbicide managed as separate programs



Right Tools for the Right Strategies: the TreeAM capabilities

UVM modules

- GIS-based field inventory and inspections, online and offline:
 - Individual trees
 - Grouped trees
 - Customer address
 - Mow/herbicide areas
 - Spans
- Android-based drive-by surveys at 40-50 mph
- Custom risk assessments
- Line clearance planning, work management, timesheet, and audits
 - With or without tree inventories
- Tagging/service requests
- Mowing
- Herbicide, integrated with Mowing
- Tree Growth Regulator application
- IVM for right-of-way habitat and pollinators
- Tree replacement programs with canopy cover management
- Shade tree programs for energy conservation

Integration - VM 2.0

- TreeAM as middleware software platform integrating:
 - Existing UVM tools
 - Enterprise servers, e.g., AMS, WMS, and GIS
- Diverse data: LiDAR, satellite, weather/outage predictions, fire maps, real-time sensors, photos, documents
- Utility assets for integrated UVM, e.g., circuits, poles, and substations
- Asset classes: Different environmental and built assets
- · Assets with point, line, and polygon geometries
- Different analytics and models for risk assessment and optimization
- Utility operations, e.g., SCADA, distribution automation system
- Different UVM programs, e.g., Pruning, TGR, IVM, mow/herbicide





The Results of Solving the Rubik's Cube:



Significant Cost Savings:

- Decreased management cost
- Increased system reliability
- Decreased need for additional labor (managerial & physical)

Utility Benefits:

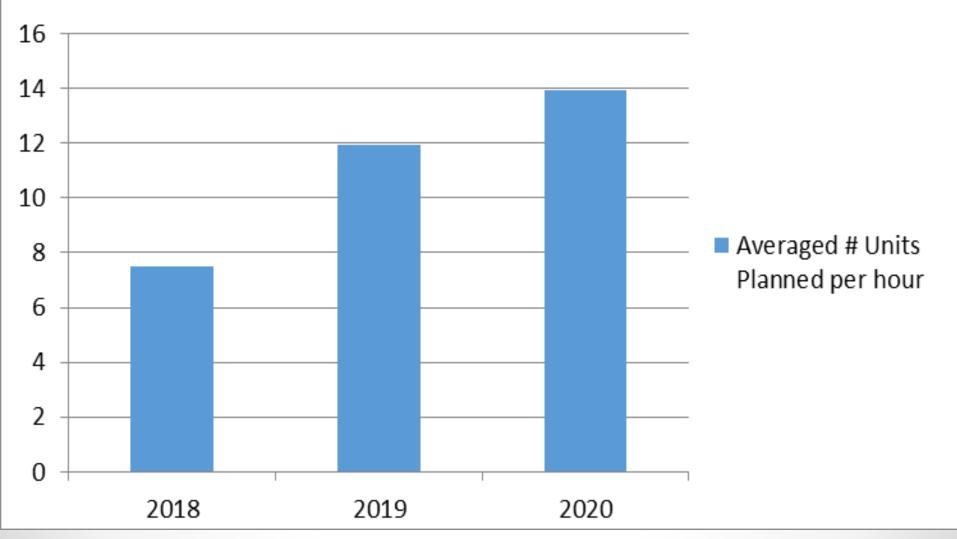
- Utility saves money and time which translates into increased profit margin
- Decreased office support for billing and tracking of completed work

Contractor Benefits:

- Increased crew productivity
- Increased overall profit margin

Ultimately increases "Peace of Mind" that the assets are managed properly for the Utility and the Contractor.

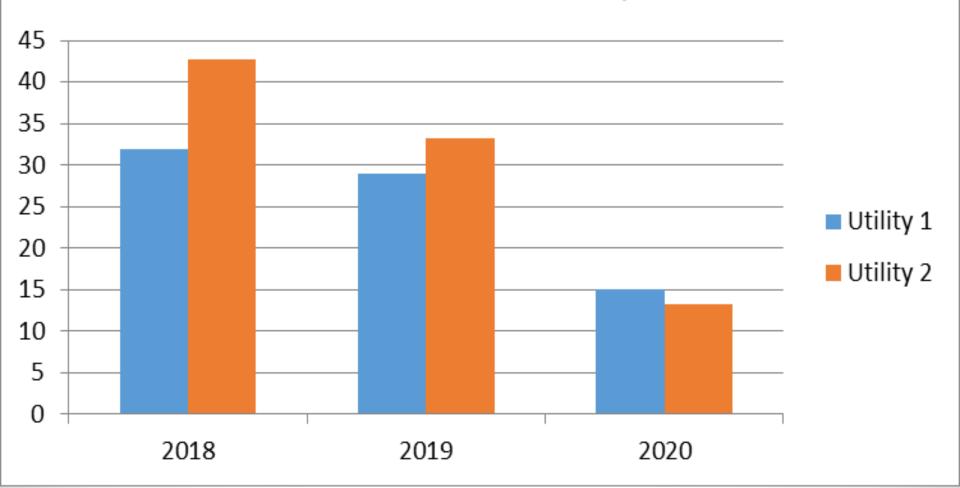
Number of Units Planned per Hour







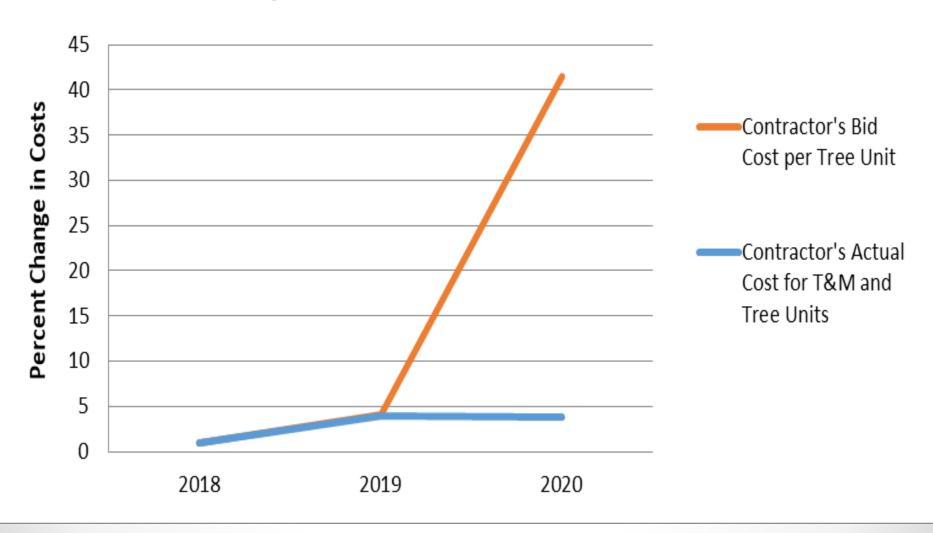
Comparison of Unit Costs for ROW Planning







Efficiency Neutralizes Cost Increase







Technology like the IMAM program on the TreeAM platform will increase the "Peace of Mind" of Utilities and the Contractors alike.





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Thank You

