



SCHEID
VINEYARDS

Geographic Information Systems



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VitTech Team Objective and Methods

To support supervisors and managers with timely visualized information to increase **efficiency**, **production**, and **safety**.

- Replace paper with mobile data entry with ArcGIS Collector and AgCode.
- Centralize data in RDBMS like SQL Server to create Query Layers.
- Visualize data in map and graph formats using ArcGIS and Tableau.
- Centralize information access in SharePoint 2013 via embedded maps and graphs.



Past Success

VineCount Database Mobile Maps



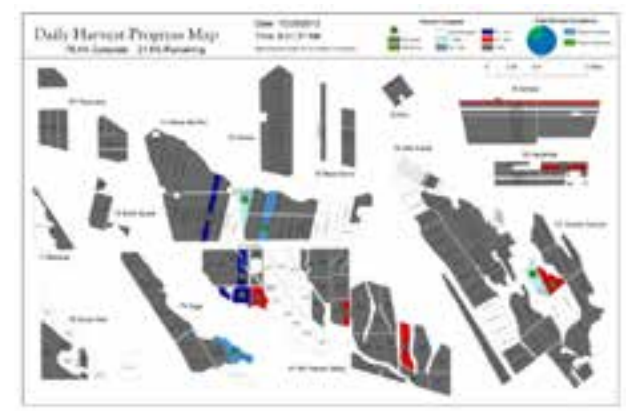
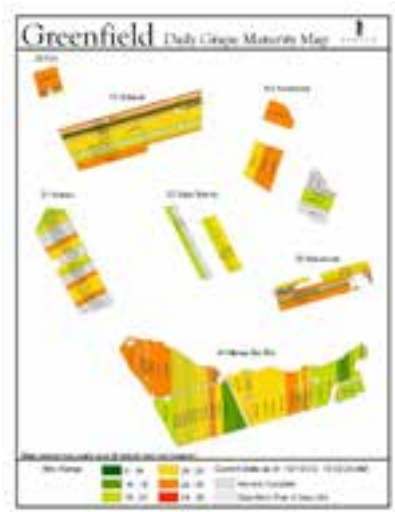
Vineyard Site Selection Analysis



Grape Maturity

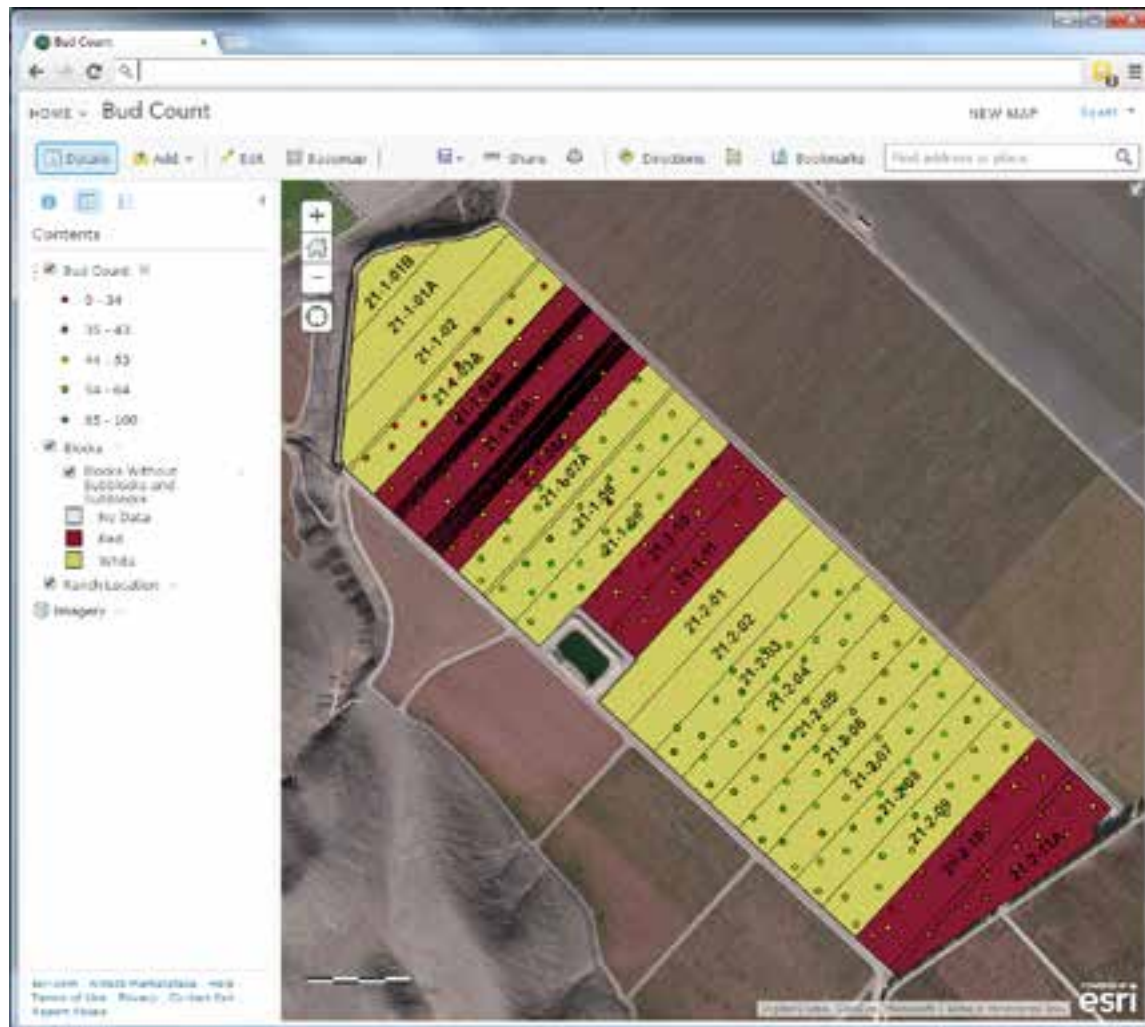
Harvest Safety

Harvest Progress Tracking



What's New in 2014

Bud Count Collector App





What's New in 2014

Harvest Quality Control Operations Dashboard

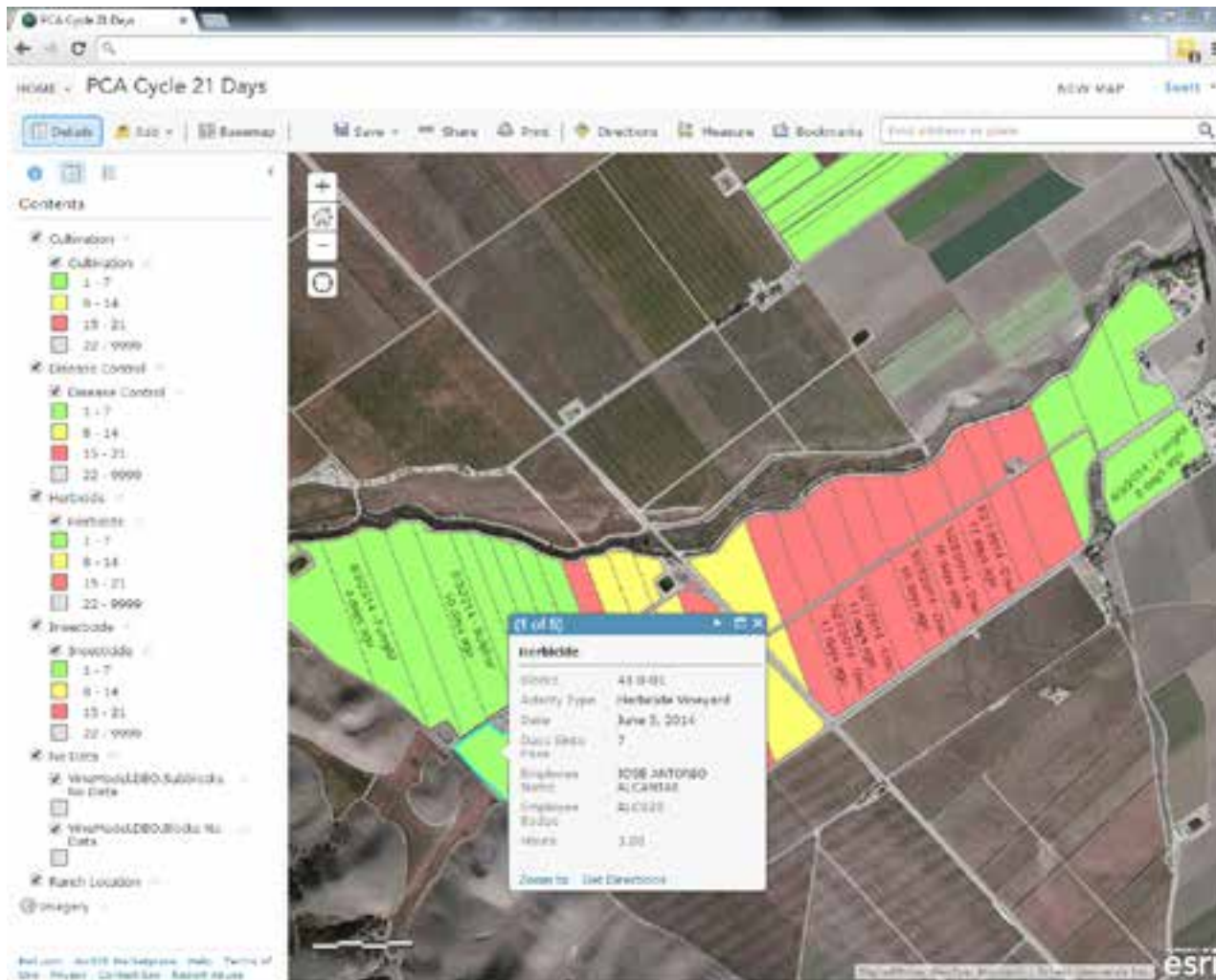
The dashboard provides a comprehensive overview of harvest quality control operations. Key components include:

- Summary Cards (Left Sidebar):**
 - Charted Feature (Date):** 10-4-00: MH-100. Status: 90, 50, 00. Processor Number: MH-100.
 - Charted Head (IPMs):** 90-100. Value: 3,500.00.
 - Charted (Quality):** 90-100. Value: 0.75.
 - Query:** Select Block, Select Date Range, Select Processor.
- Map (Center):** Aerial view of vineyard blocks color-coded by status (red, yellow, green). A pop-up window for block 10-4-00: MH-100 shows details:
 - Block: 00
 - Processor Number: MH-100
 - Tonnage: 0.75
 - Harvest Type: Quantity
 - Processor Head: 3500.00
 - Head IPMs: 3500.00
 - Processor Date: no change, been working well
 - Cluster Weight: 1 - no change, no fruit being dropped
 - Notes: OK
 - Reference: 4-1 - with quality steaks, had count and order prepared
 - Comment: Good
 - Estimated Area for Date: 1330
 - Processor Date: 3000
 - Date and Time: 10/5/2013 10:18 AM
- Event List (Right Sidebar):** A list of harvest events with columns for ID, Date, and Time.
 - MH-114 30-3-00: 10/30/2013 00:37 AM
 - MH-107 40-C-01: 10/25/2013 09:34 PM
 - MH-112 41-C-01: 10/24/2013 09:18 PM
 - MH-115 H2-C-03: 10/24/2013 11:07 PM
 - MH-113 50-7-02: 10/24/2013 09:02 PM
 - MH-111 50-7-03: 10/24/2013 09:02 PM
 - MH-112 50-7-05: 10/23/2013 08:11 PM
 - MH-113 2L-1-00: 10/18/2013 09:02 PM
 - MH-107 2L-1-03: 10/18/2013 08:54 PM
 - MH-110 41-A-02A: 10/22/2013 12:09 PM
 - MH-108 80-C-05: 10/17/2013 08:45 PM
 - MH-110 41-0-05: 10/16/2013 09:02 PM
 - MH-113 41-0-00: 10/26/2013 09:30 PM
 - MH-114 50-3-04: 10/17/2013 10:07 PM
 - MH-108 32... 07A: 10/19/2013 08:33 PM
 - MH-108 32-1-03: 10/25/2013 09:30 AM
 - MH-114 30-3-04: 10/24/2013 10:30 PM
 - MH-112 41-8-00: 10/24/2013 08:59 PM



What's New in 2014

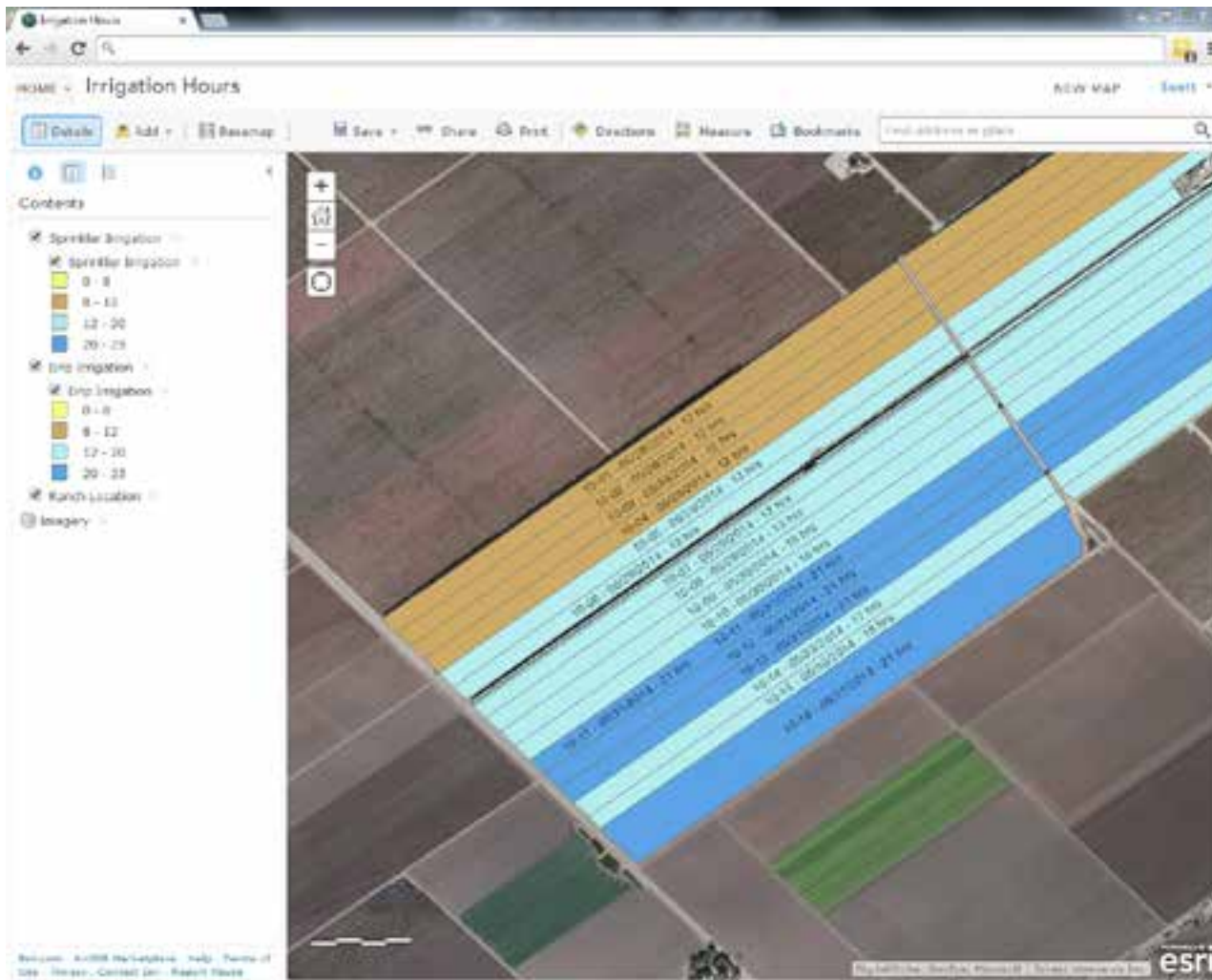
Pest Control 21 Day Cycle Tracking





What's New in 2014

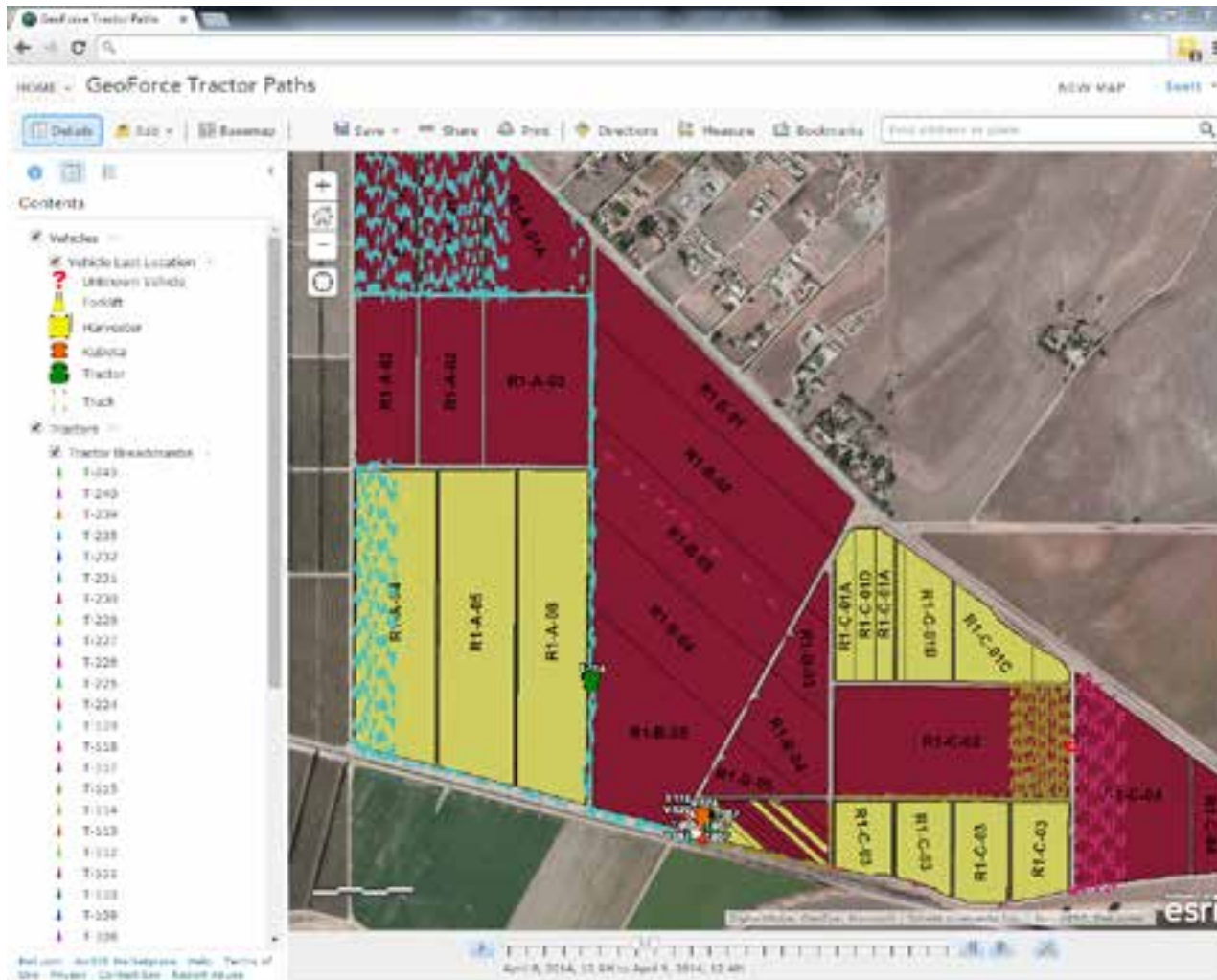
Hours of Drip or Sprinkler Irrigation





What's Next?

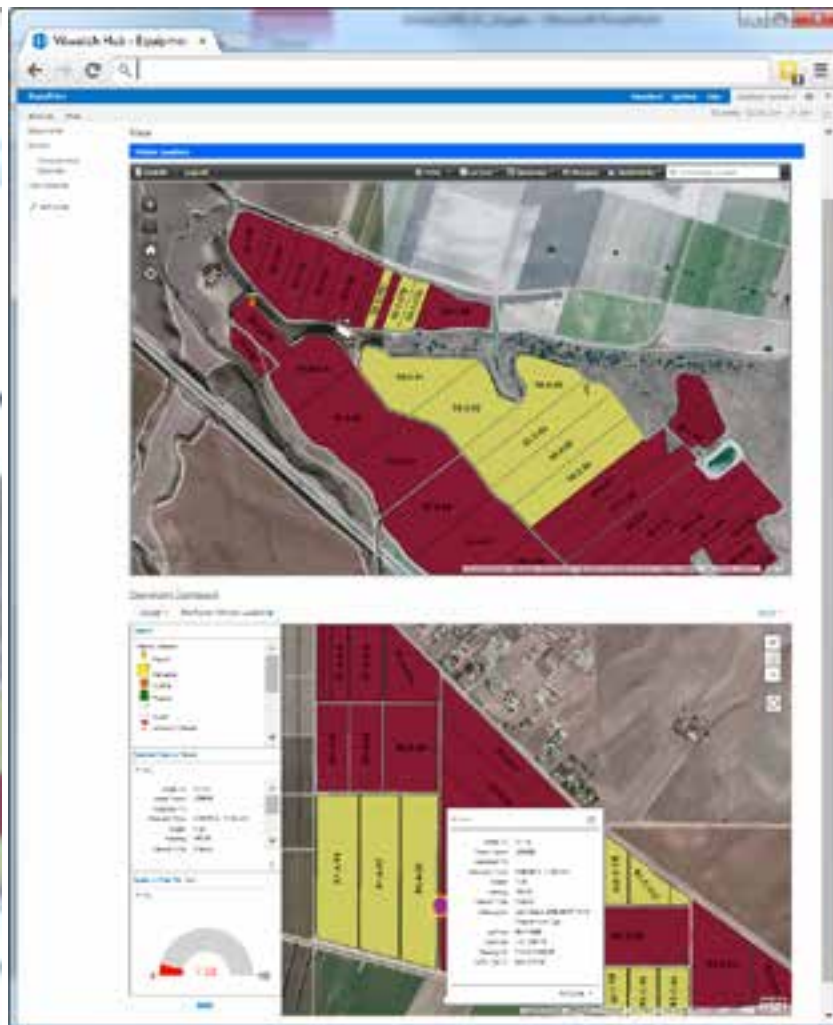
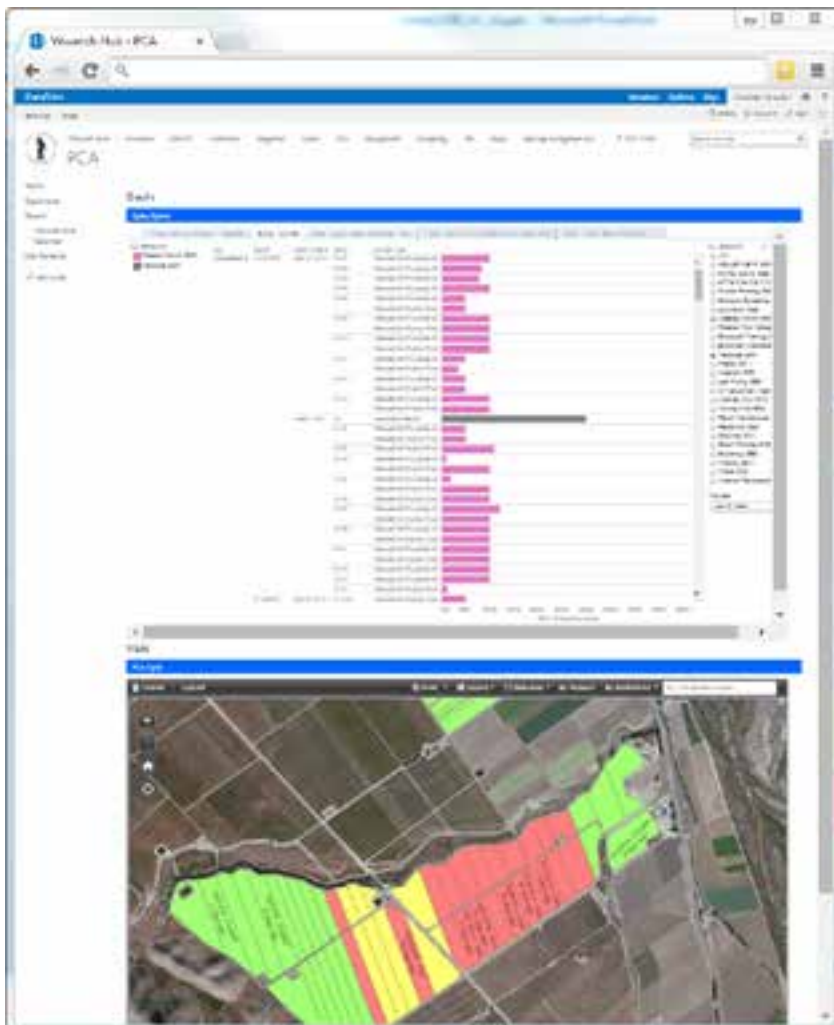
Vehicle Tracking with GeoEvent Processor





One Stop Data Portal

SharePoint 2013: Embed Web Maps, Op Dashboards, and Tableau Graphs





Lessons

- Test systems on small scale, then expand.
- Avoid too many data sites and logins, centralize access (e.g. SharePoint).
- Focus on user experience, especially with users new to technology.
- Train users and test skills before going live.
- Get input from users, find out what's important to them, and how you can better visualize their data.



Questions?

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