



# QuickCapture

A **BIG button** mobile app to capture data while on the go

# Overview

- TxDOT Case Study
- QuickCapture overview
- Demo

# TxDOT Case Study

# Overview

- Issue: ET PLUS End treatment was a risk. Causing fatalities...
  - ...Data Capture at speed is a regular thing
- No existing statewide inventory of guardrails or end treatments
- Needs: Collect guardrail end treatment types to determine the total number of each type
- Build an inventory to manage the assets long term
- Solution: Create a mobile app with an easy to use interface for use in vehicles
- \*\*\*Key Concepts: Speed and Basic Location

# End Treatment Examples

**ET PLUS**



**X-LITE**



**ET 2000**

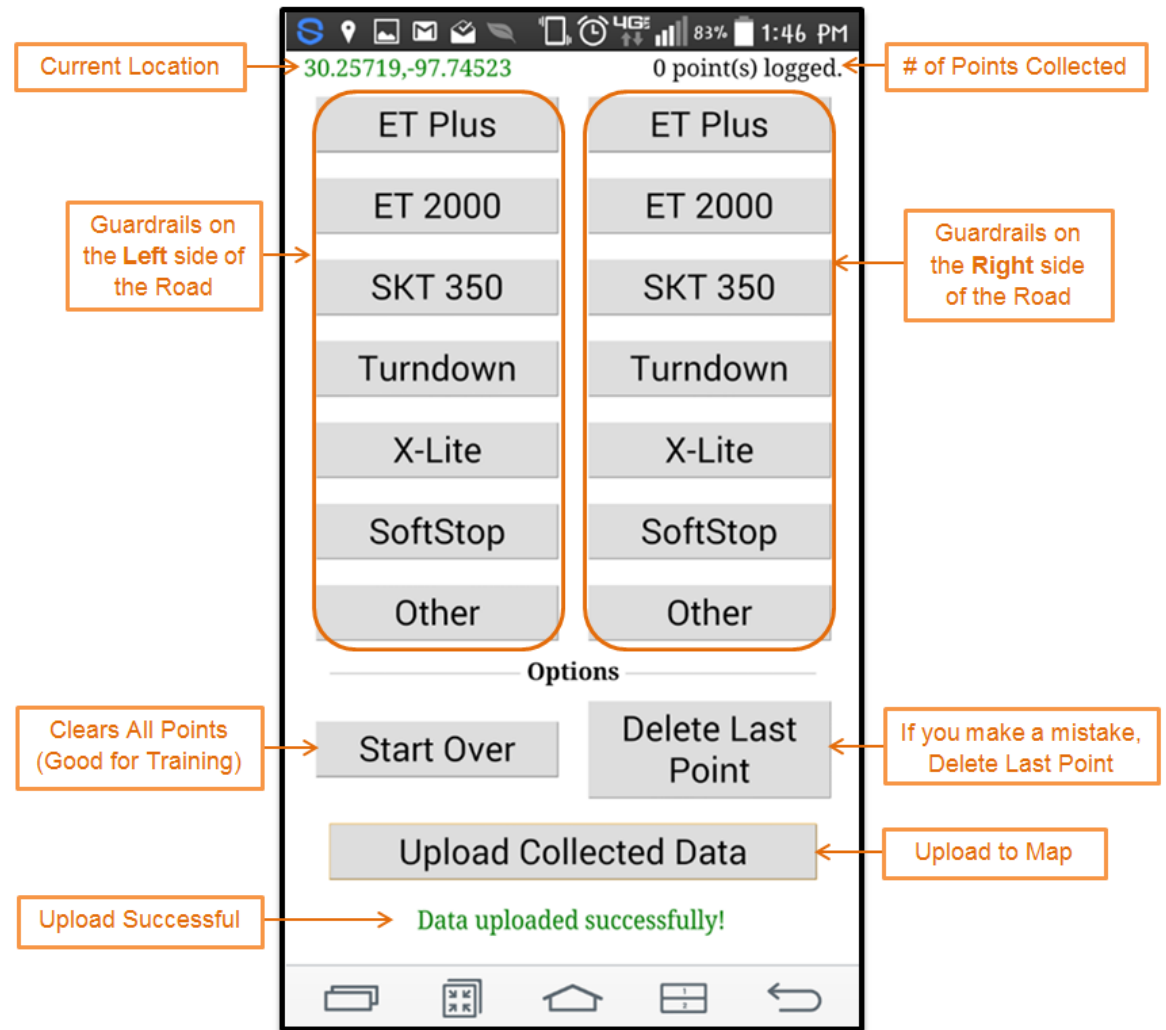


**Turndown**



# App

- Built for two man teams from the maintenance division with a driver and a collector
- Drive each roadway one direction to speed collection
- Keep the interface simple to run on one screen



\*\* may appear slightly different on various devices (Apple, etc.)

# Results

- Start Date: May 19th
- End Date: June 30th
- Project Duration: 30 working days
- Average Collection Speed: 35 mph
- Average Accuracy Rating: 26 ft
- Most common Device: iPhone
- ~134,000 Total Statewide End Treatments
  
- Most points collected in a day: 10,801 (June 9<sup>th</sup>)

# Guardrail End Treatments

# 2015 Collection Project



ET PLUS



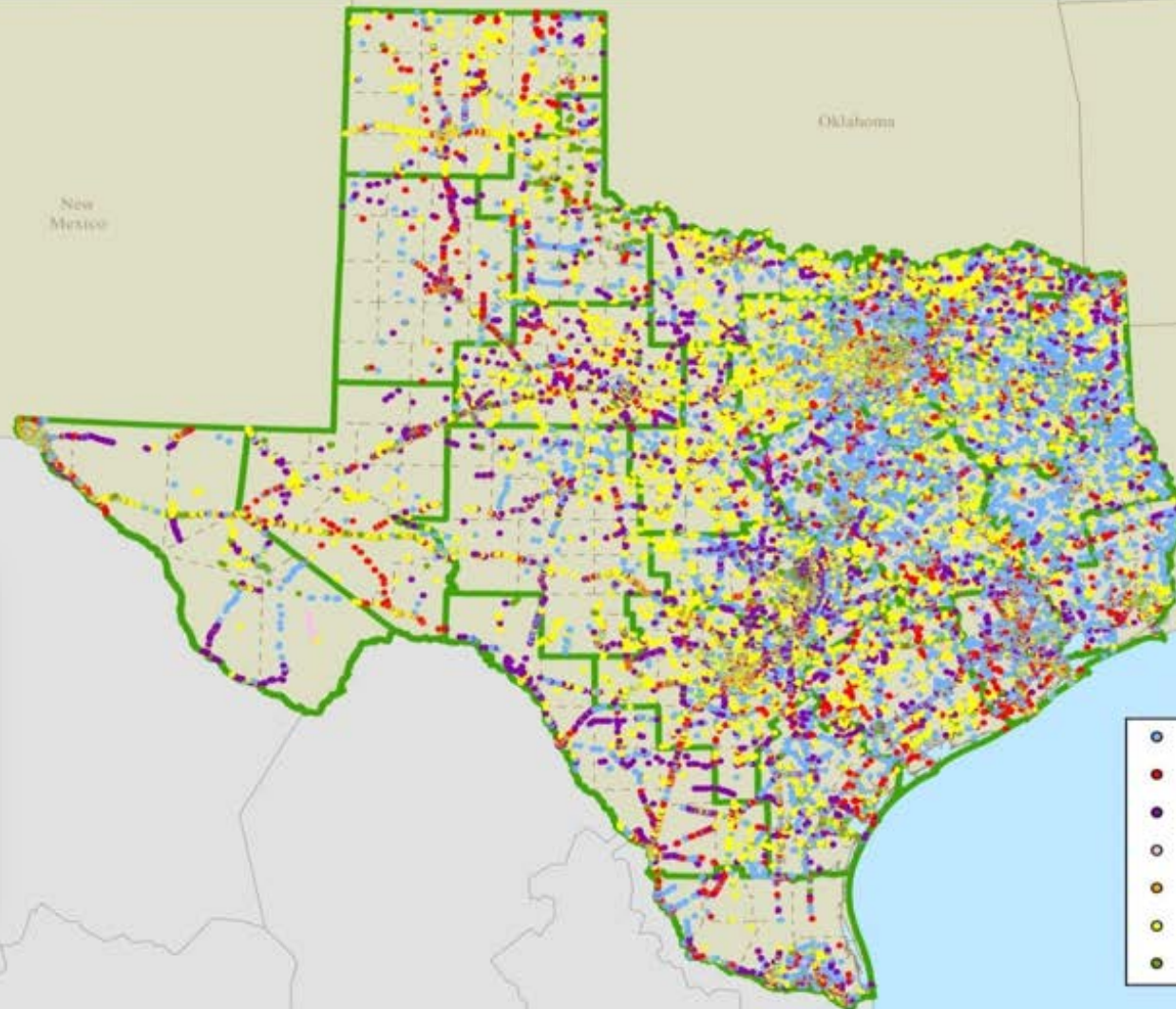
X-LITE



ET 2000



Turndown

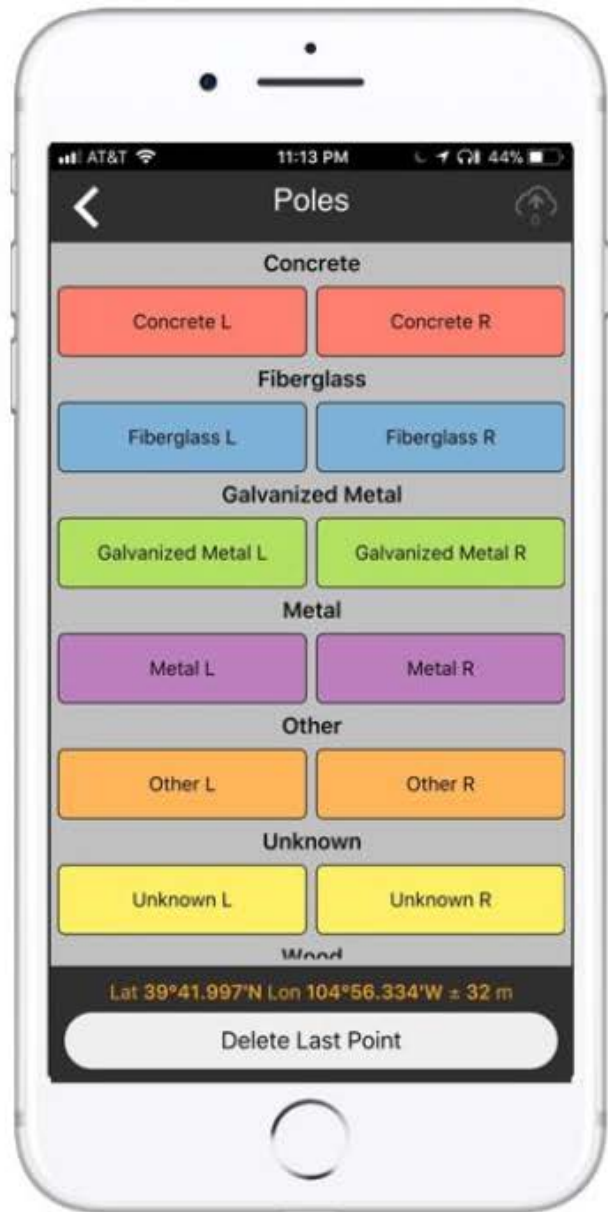


- ET Plus
- ET 2000
- SKT 350
- X-Lite
- SoftStop
- Turndown
- Other



# QuickCapture

- New app in the App store and Google Marketplace
  - Delivered through Esri Labs
- Speed of data collection is primary focus
  - Single button click data collection
- Configurable by feature services in a portal
- Open source through AppStudio for ArcGIS





# TRAFFIC CRITICAL PROJECTS

## OFFICE OF TRAFFIC OPERATIONS



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## MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION









Utility Line Inspections



Pest mapping



Windshield Damage Assessments



Pipeline inspections (on foot, vehicle or helicopter)

# Other applications

- Florida Department of Agriculture
  - Tracking placement of Fruit Fly Treatments
  - Dashboards in the office for tracking



*Stop... demo time - Tom Brenneman*

