

**Mobile Solutions
The Next Generation
Presented by**



**Michigan SAF
April 9th-10th, 2015**

About Us

ForesTech Resource Solutions provides technical products and services for forestry and natural resources through the use of the latest technology, a well developed network of strategic partners, and our wealth of applied knowledge in natural resource management.



Terry Porter
President

Britt Townsend
Solutions Forester

Business Partners



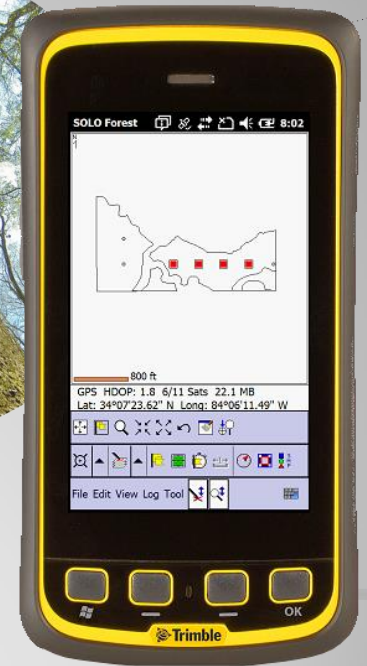
- Traditional Field Solutions
- Mobile Solutions and Direction Moving Forward

NEW!

- New Platform with Purpose-built Solutions
 - Mobile Builder
 - 4Loads

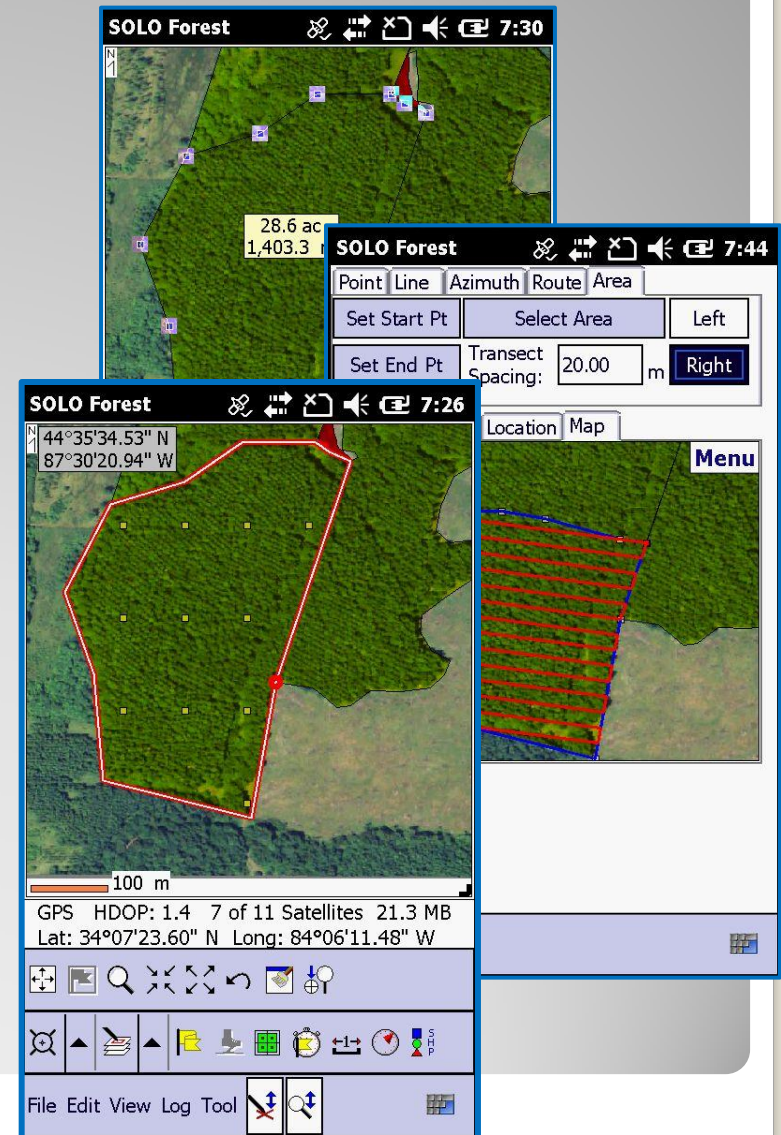
Traditional Field Solutions

- SOLO Forest
- SOLO Office Forest Edition
- SOLO₃₆₀
- TimberPilot
- Hardware



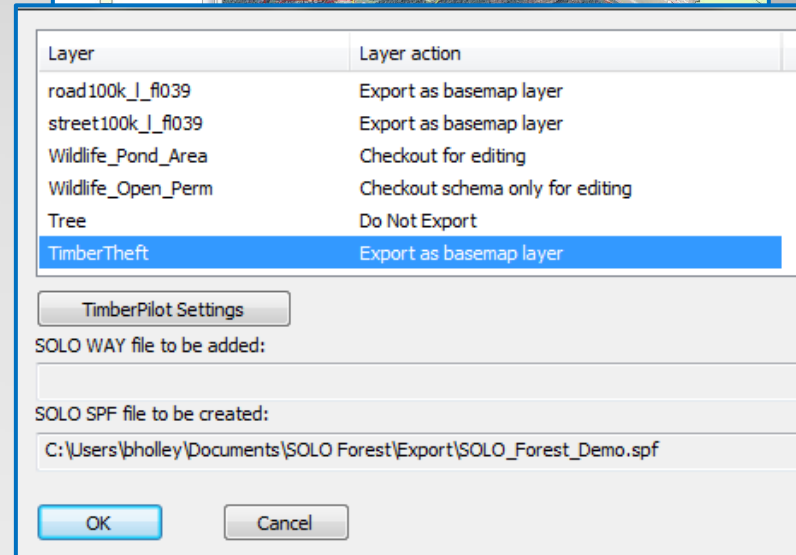
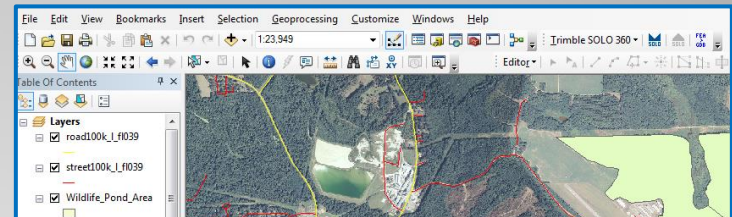
SOLO Forest

- Windows based
 - Windows Mobile/Win 7
- Mobile mapping and GIS solution
- Forestry based functionality
 - Grid generation
 - Feature buffering
 - Export directly as .shp, .dxf, .txt
- Works with any GPS on any Windows Mobile handheld
- Does not require post-processing



SOLO 360

- ArcGIS toolbar
- Prepares projects for SOLO Forest and TimberPilot
- Integrates a check-out/check-in workflow
- Compresses imagery
- Works only with Personal GDB
- Create Personal GDB from SOLO Feature File



TimberPilot

- Harvesting assistance and navigation solution
- Alerts when approaching sensitive areas
 - Streams
 - Harvest boundaries
 - Danger areas
- Stores location of harvested areas
- Integrates ArcGIS through SOLO 360
- Includes Yuma 2 w/ enhanced GPS (1-2M)



Reduce pre-harvest preparations - may allow forester or harvest manager to replace flagging and/or paint with digital boundary, saving time and money

Additional protection for harvesting operations that operate 24 hrs.

 **TimberPilot**

Benefits

Reduce loss of unharvested timber

- Costly for harvesting crew to return for small patches once they have moved
- Costly for forester and timber company to check for areas unharvested; safety risk

Improve harvest efficiency and accuracy

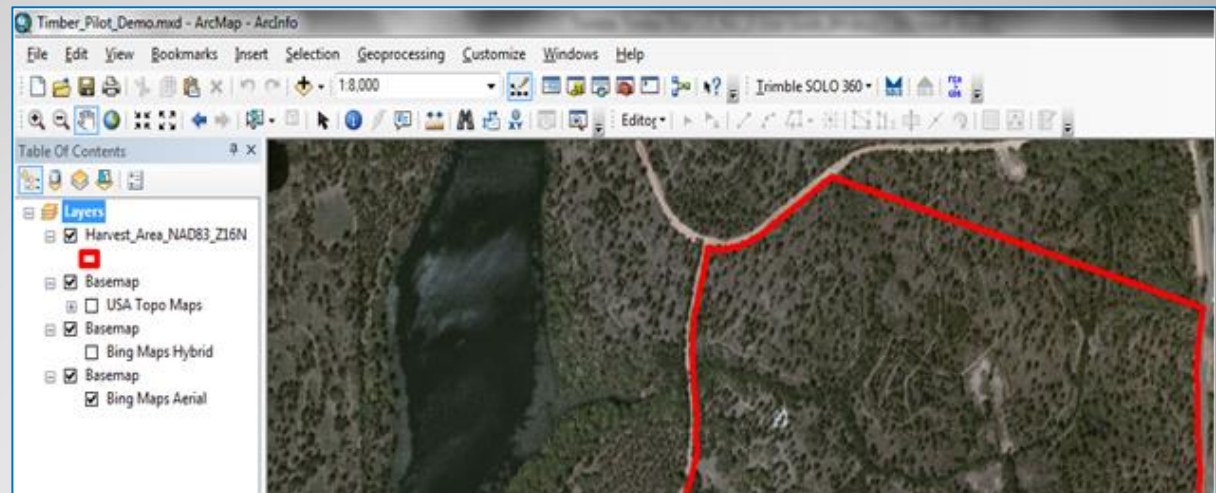
User can toggle between aerial and topo images to determine best method to harvest

Allows operator to geotag potential hazards or areas and points of interest –can be transferred back into GPS



Using SOLO 360 Toolbar for ArcGIS—create a polygon for all areas that are pertinent to the harvesting project, i.e. harvest boundary (s), sensitive areas, etc. Once the project export is complete you can then distribute the project to the harvest operator.

Preparing the Project





As boundaries are approached, the operator will be alerted with audible and visual alerts





Irish Family Logging
Paris, Maine
June 2014



Trimble Forestry Mobile Direction

- Where we've been
 - Standard approach with Mobile GIS
 - All Windows based solutions
 - Focus on rugged hardware
 - Segregated solutions; field vs. enterprise
- Where we're going
 - Provide a flexible platform to quickly address customer needs
 - On a common, consumer grade platform and/or rugged platforms
 - Support enterprise and non-enterprise customers
 - Provide a path for future growth from non-enterprise to enterprise, if necessary
 - Provide visibility to critical information



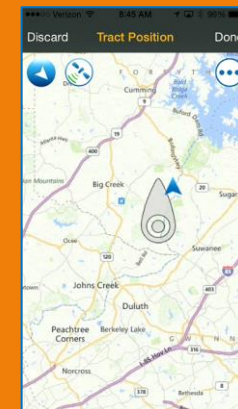
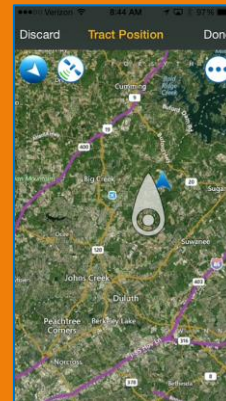
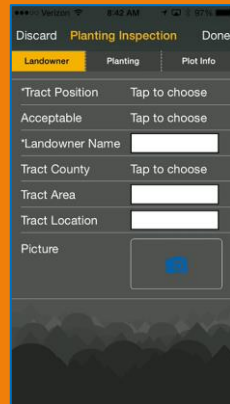
Next Generation Mobile Objectives



A photograph of a forest path with stacks of logs. The path is made of gravel and leads through a dense forest of tall, thin trees. The ground is covered in brown leaves and green ferns. The text "Trimble Forestry Next Generation Mobile Solutions" is overlaid in white, bold font in the center of the image.

Trimble Forestry Next Generation Mobile Solutions

Mobile Builder Platform



Mobile Builder

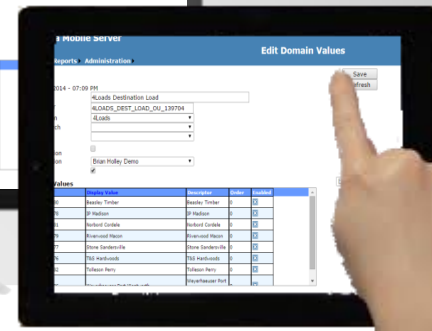
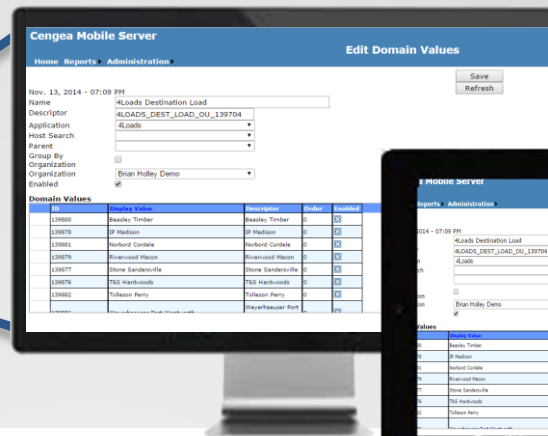
- Configurable Public or Private Cloud based mobile solution
- Migrating existing functionality into new App
- Native Android & iOS

Mobile Builder



Mobile Builder Server

- Work with customer to define solutions
- Configure Layouts to define Apps
- Public or Private Cloud
- Where necessary, mobilization of the enterprise

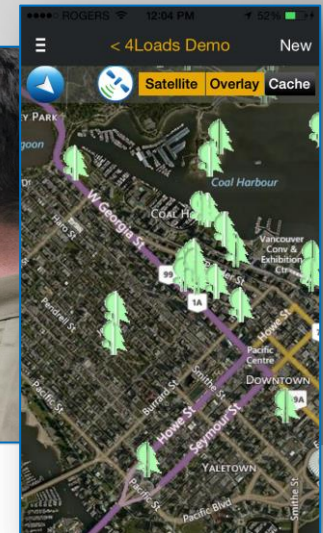
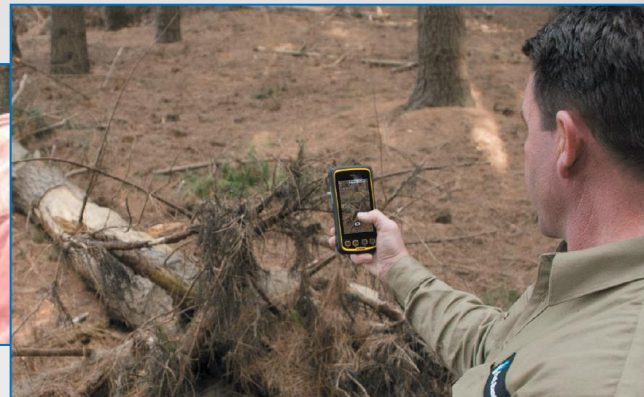


Mobile Builder



Mobile Builder Client

- Native Android, iOS, devices
- Quickly deploy apps, changes
- Quickly supply field information back to administrators
- Capable of running server configured Apps



Integrated Mobile Workflow

Assign record(s) from device or enterprise

Synchronize your device to push/pull data

Complete assigned tasks or collect new assets

Synchronize your device to share information

View or edit information on device or enterprise

Trimble Forestry 4Loads





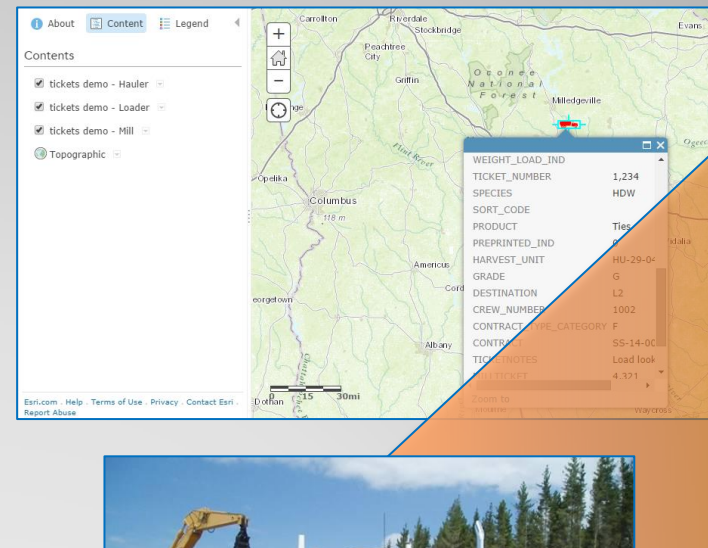
4Loads

- A simple yet powerful application used to track pertinent load and haul information
 - Tickets, location, contract, crew, product
 - Hauler, destination, volumes, mill ticket etc
- Available now for download and purchase
- Sold and supported through Trimble Forestry Dealers as a Public Cloud Solution

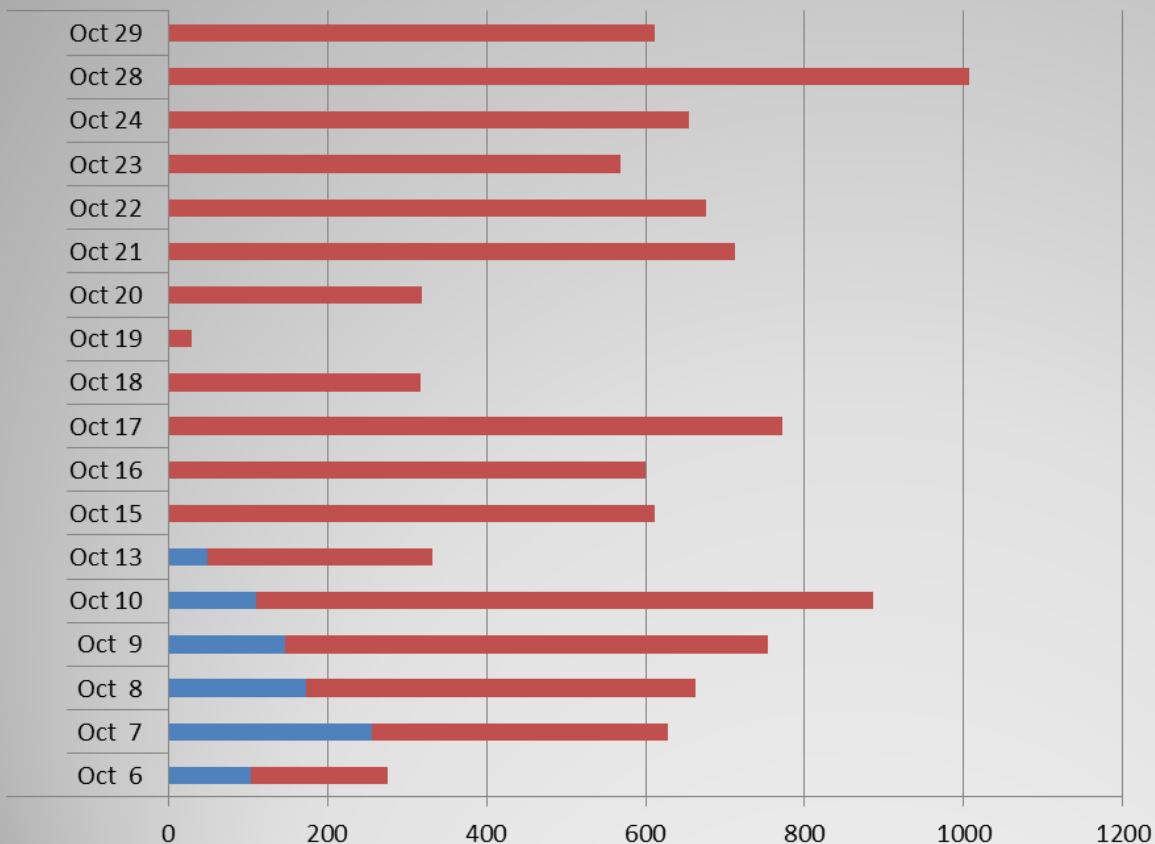


Current State

- Initial feedback positive
 - Savings of 5-10 hours per week (2 crews) after the 1st week



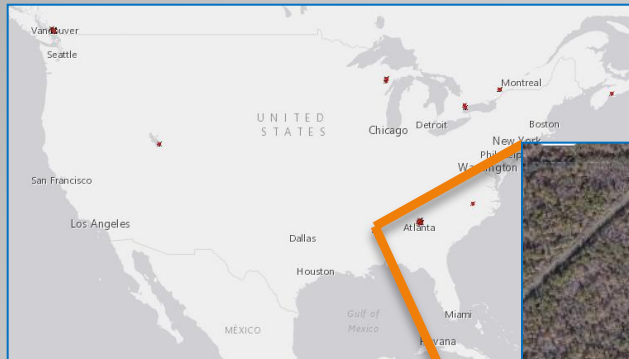
4Loads Provides Visibility



■ Hardwood Tract
■ Pine Tract

Note: This report is actual load data and was produced October 30th

Spatial Validation




- Chain of custody
- Spatial reconciliation

4Loads App

ROGERS 11:51 AM 47%

Back Register



Register For This Site

*Username

*E-mail


*Confirm E-mail

ROGERS 11:50 AM 47%


Enter Username

Enter Password

Login



Demo | Register | Settings




ROGERS 11:53 AM 48%

demo01


.....

Login



Downloading attachments

Demo | Register | Settings



4Loads App...

Verizon 4:10 PM 42%

Discard **4Loads** Done

Load Deliver

*Ticket ID C4ZD756

*Current Position 34.123102,-84.102141

*Contract ID Smith Tract

Crew ID Porter Logging

PIN 5546

Harvest Unit North

Destination T&S Hardwoods

Species Hardwood

Product Sawtimber

Grade Prime

Verizon 4:04 PM 35%

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4Loads
Trimble Forest

Verizon 4:06 PM 38%

Forms **Domains**

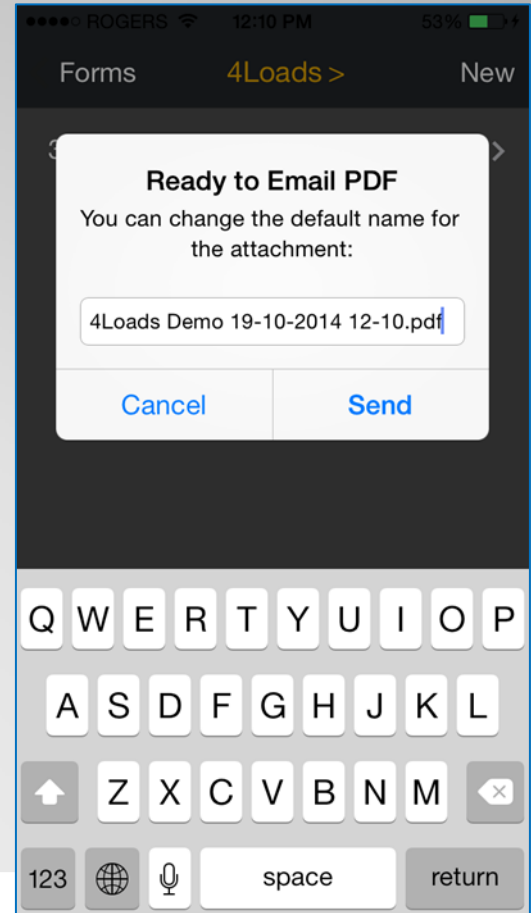
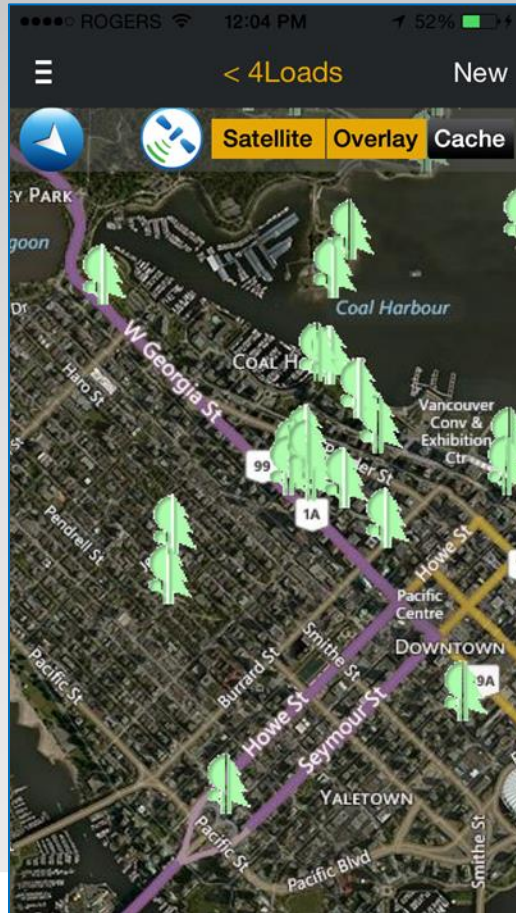
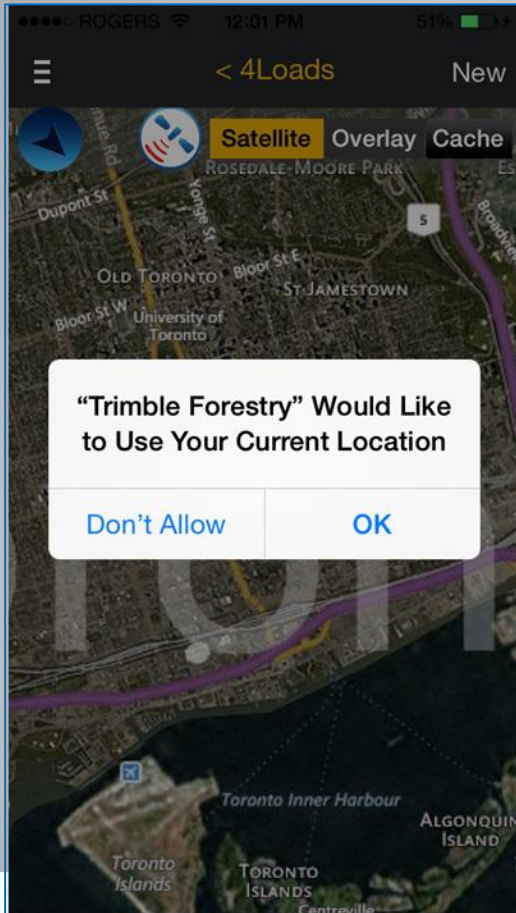
App 4Loads

Domain	Enabled
4Loads Comment Delivery	<input checked="" type="checkbox"/>
4Loads Comment Loads	<input checked="" type="checkbox"/>
4Loads Comment Penalty	<input checked="" type="checkbox"/>

< > Done

4Loads

4Loads App...



Go Try 4Loads

- From your device create an account and log in
- Go to Download Page
- <http://mobile.trimbleforestry.com>
- Follow the instructions
- Use the "Demo" account to login

THANK YOU

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