

Using Smartphones on the Fire Line



Presented By: Dan Heckman
Date: 01/21/2012

Topics

- Android™ / iPhone™ “off the shelf” apps
 - Discover how pre-installed functions of a Smartphone can come in handy on the fireline
- “There’s an App for that!”
 - List some of the most useful apps for download
- Discuss Limitations of Smartphones on the fire line
 - Also ways to mitigate some limitations



Pre-Installed Apps & functions

- Phone (let's not overlook the simple stuff!)
 - Emergency contact with 911 with GPS location for dispatch center
 - Maintain contact with ICC
 - Ordering supplies (ie. Pizza)



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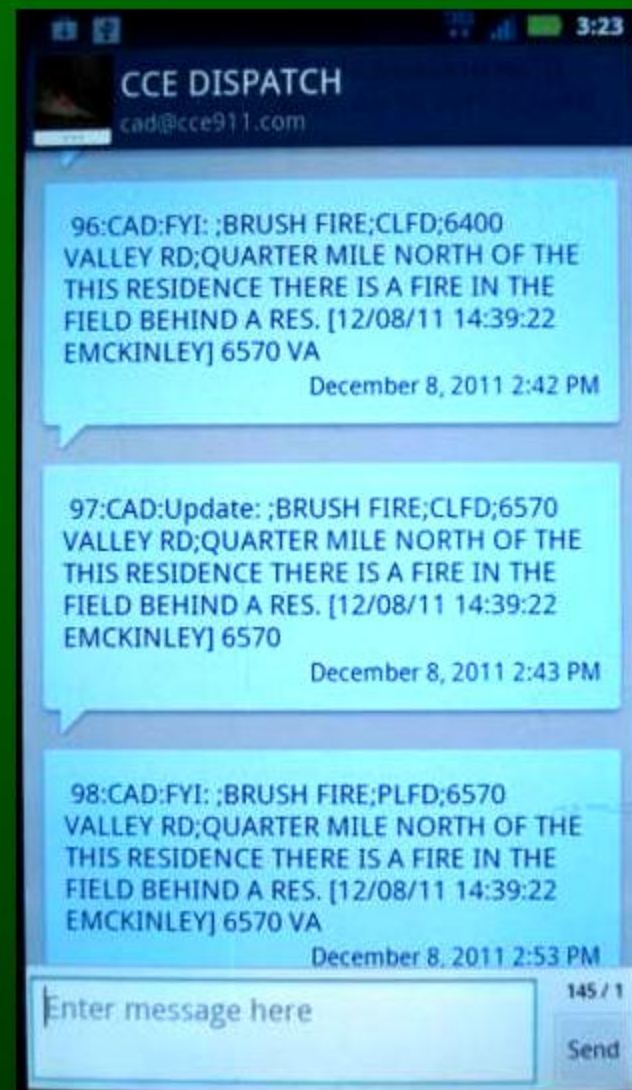
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Pre-Installed Apps & functions

- Text Messaging
 - Computer Automated Dispatch (CAD)
 - text messages from local dispatch center
 - All departments
 - Only Brush Fires
- Notify groups of firefighters with group Text messages
 - Send one text to multiple people
 - Create group contact list



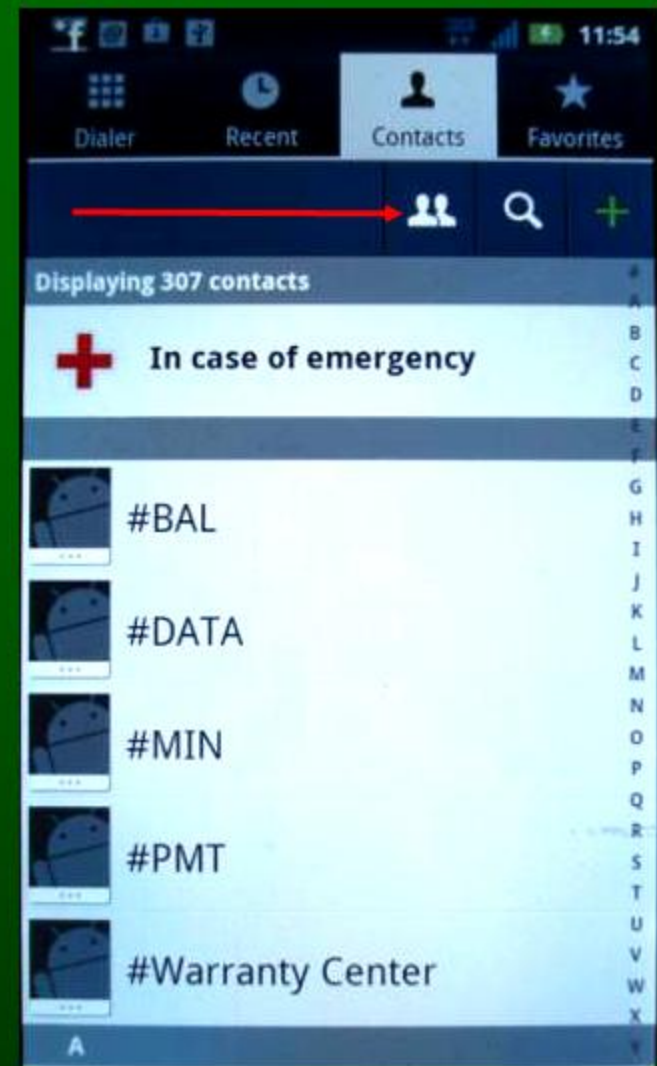
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Pre-Installed Apps & functions

1. Tap Groups icon
2. Menu | New Group
3. Name the Group
4. Select members
5. Menu | Send Message



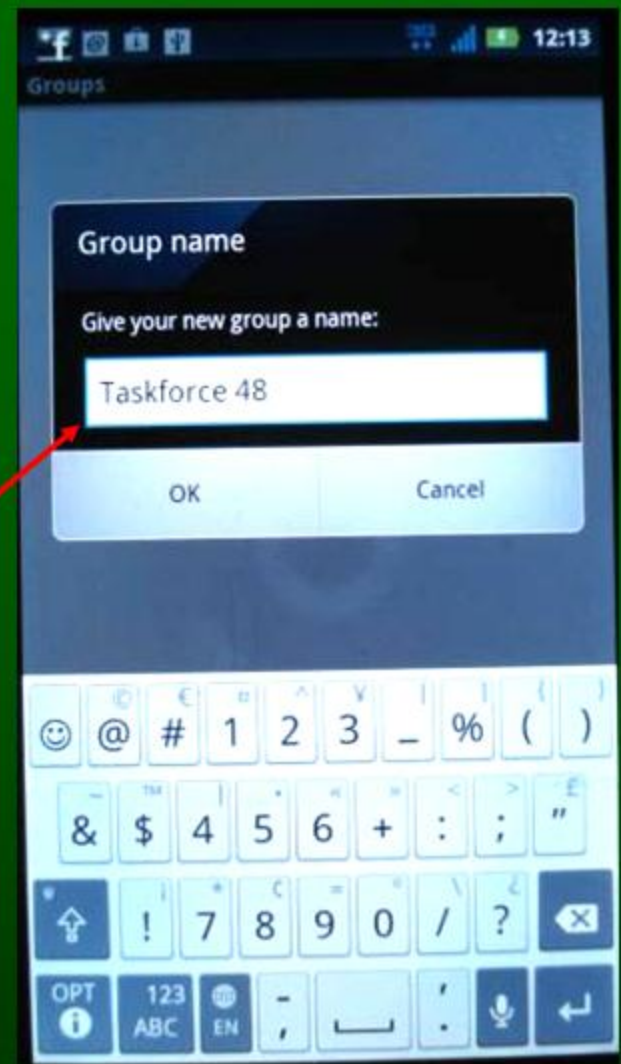
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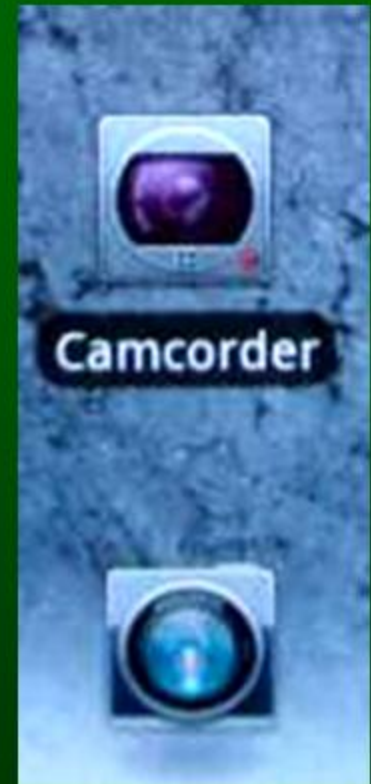
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Pre-Installed Apps/functions

- Camera and Video
 - Document fire behavior
 - Record evidence for fire investigation
 - Share this information with other fire managers
 - Fire location to ICC
 - Aircraft to IC / ICC
 - Create pics to share with others







11 5:16 PM

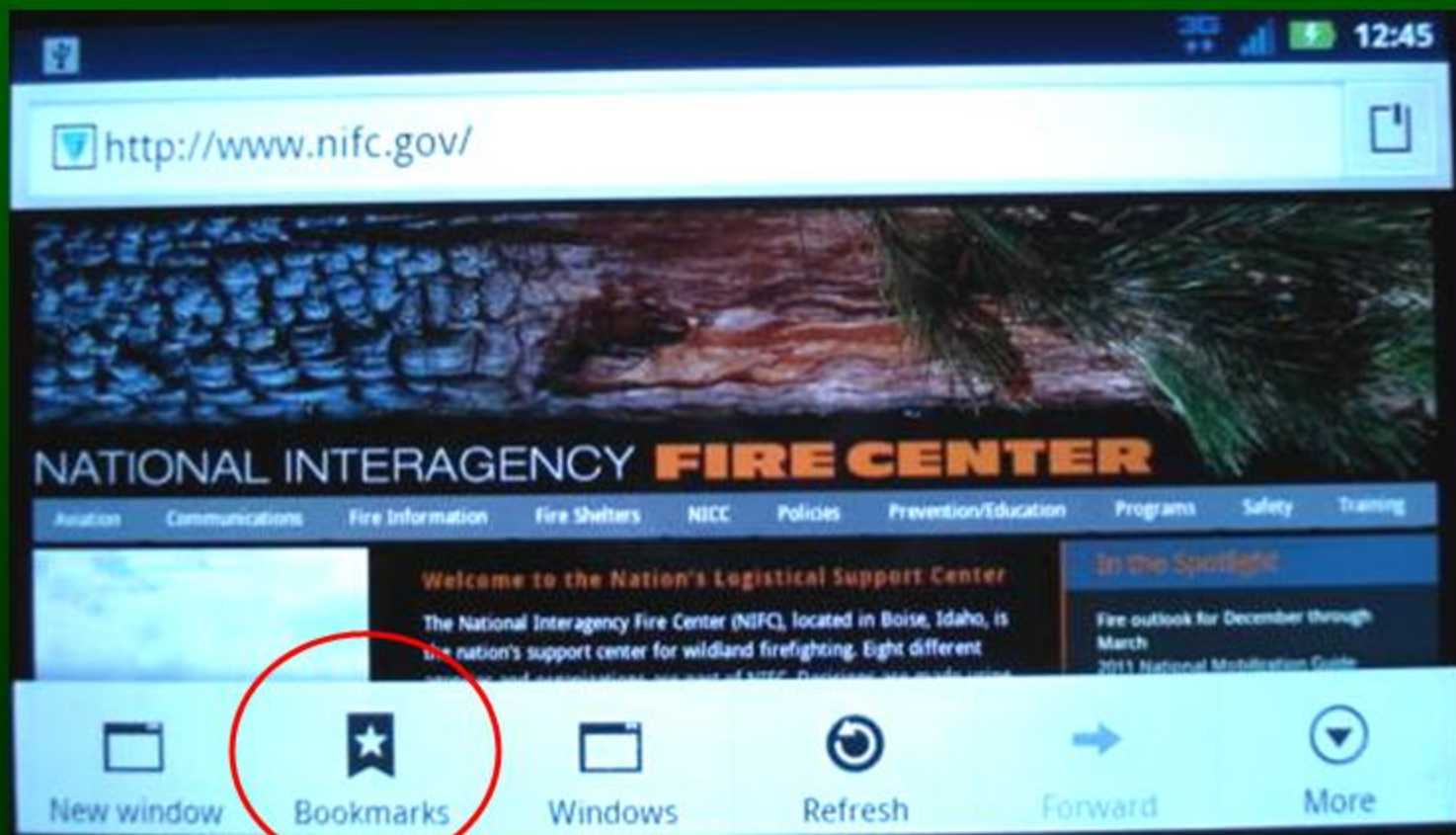
Pre-Installed Apps& functions

- Web Browser
 - Search for your favorite fire management websites and bookmark them...
 - Fire Weather Forecast
 - General Weather
 - Mesowest
 - NIFC
 - Outlook Web Access



Pre-Installed Apps& functions

- To Book Mark a web site:
 1. Menu | Bookmarks
 2. Tap 1st Icon “add”



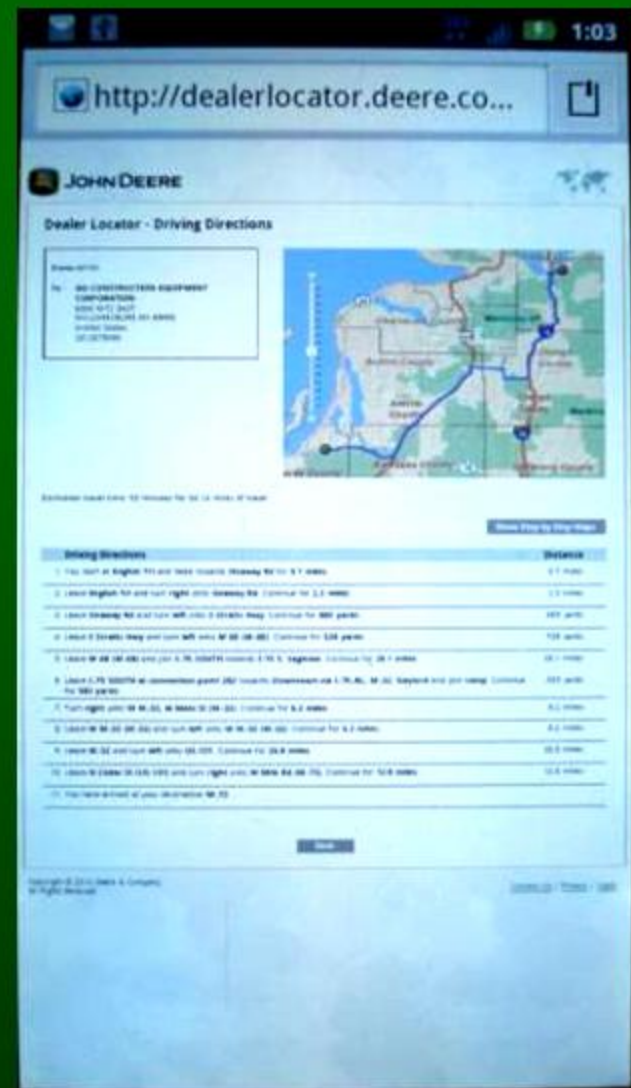
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Pre-Installed Apps & functions

- Search for businesses and phone numbers
 - Numbers hot linked for quick dialing from web page
 - Address can be tapped and navigated to using a navigation app



Pre-Installed Apps & functions

- Calendar
 - Can be synced with other calendars
- Tasks
- Create tasks with reminders
- Alarm Clock



Apps to download for use on the fireline

- Apps Can be downloaded from:
 - Android - Market
 - iPhone – iTunes
- Many Apps are free
 - Usually have adds
 - Many have upgraded versions that you pay for
- Apps can be purchased via credit / debit card



Fireline Specific Apps /functions

1. My Tracks
2. Latitude
3. Maps
4. GPS Essentials
5. Brightest Flashlight
6. Spotfire IRPG
7. Spotfire RH Calculator
8. Wildland Fire Tools



All Free Apps

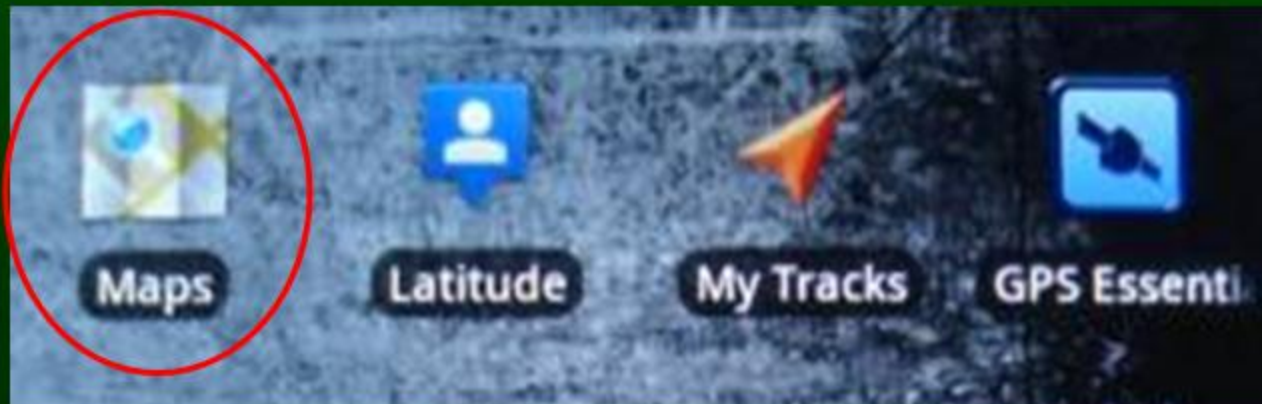
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usually available

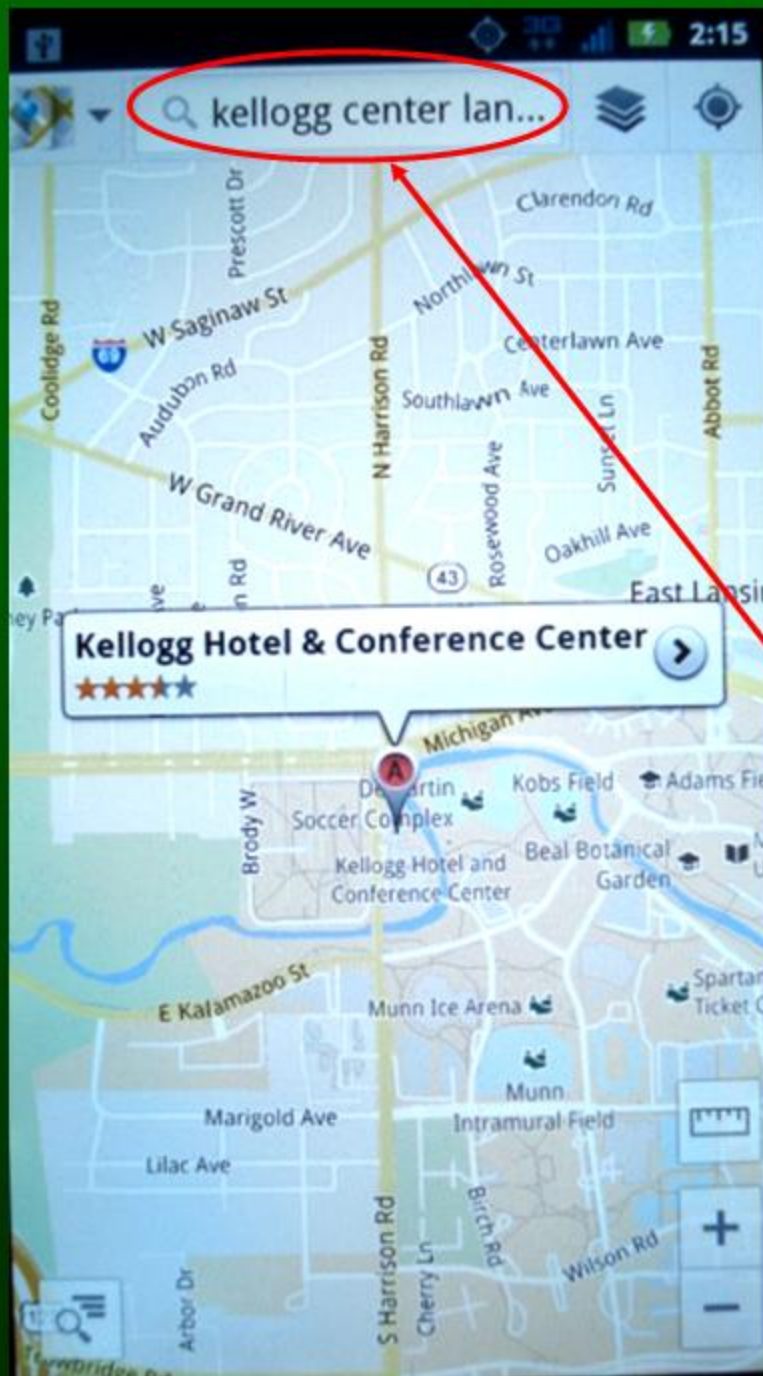


Fireline Specific Apps /functions

GPS / GIS related Apps

- Google - Maps – Aerial Imagery, Terrain, street maps
- Google - Latitude
- Google - My Tracks
- GPS Essentials





Fireline Specific Apps & functions



Google Maps

- Runs on Google's Map server
- World wide data
- Search Places by:
 - Name
 - Address
 - Panning on the Map
 - Coordinates





Fireline Specific Apps & functions

Google Maps



- Map Layers



Fireline Specific Apps & functions



Google Maps



- Map Layers
 - Basemap options
 - Data displayed





Fireline Specific Apps & functions



Google Maps

- Map Layers
 - Aerial Imagery
 - As you zoom in it switches from Satellite imagery to hi-res aerial photography
 - Has basemap data overlay



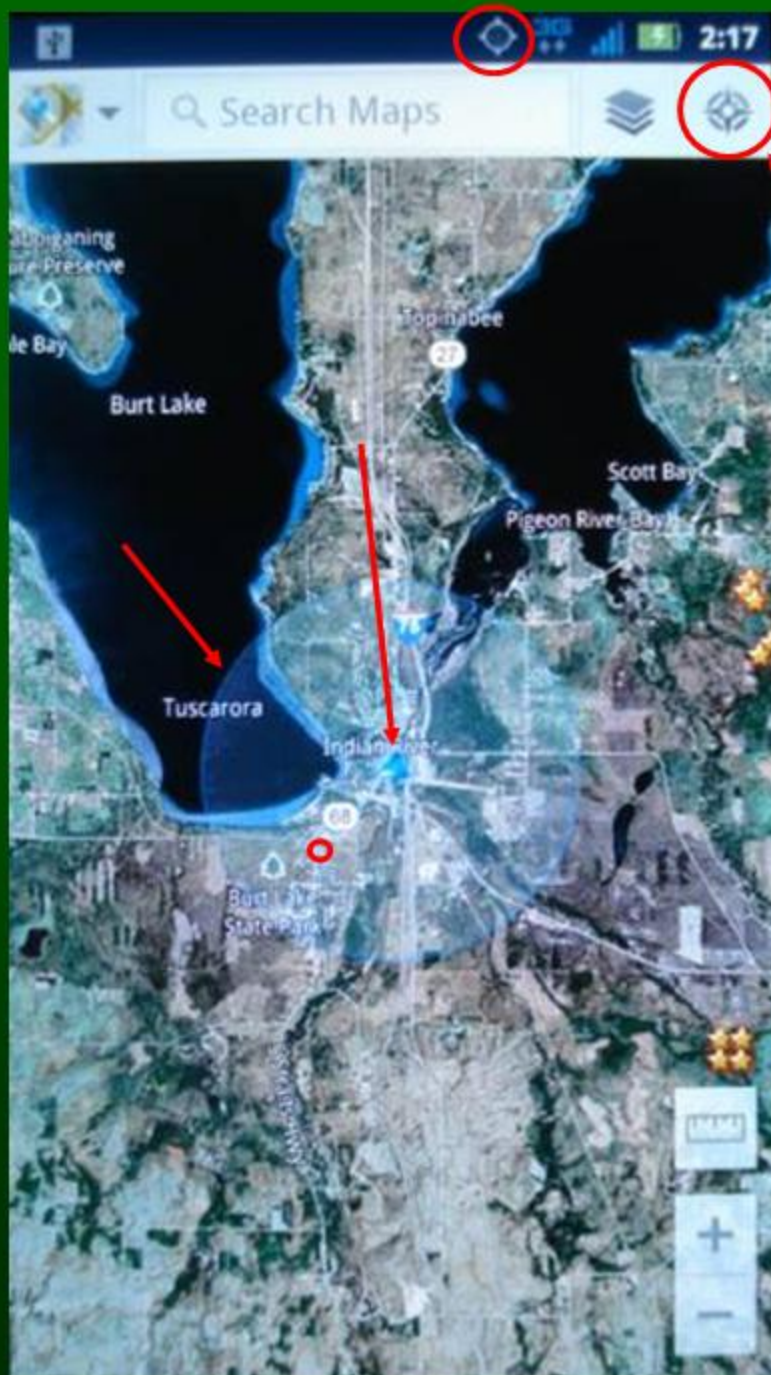
Fireline Specific Apps & functions



Google Maps

- Map Layers
 - Terrain
 - Topolines
 - Hillshade
 - Public lands
 - Roads





Fireline Specific Apps & functions

Google Maps



- My Location
 - GPS Location (<5 meter accuracy)
 - Cell Tower triangulation (not very accurate)
 - Real Time Tracking

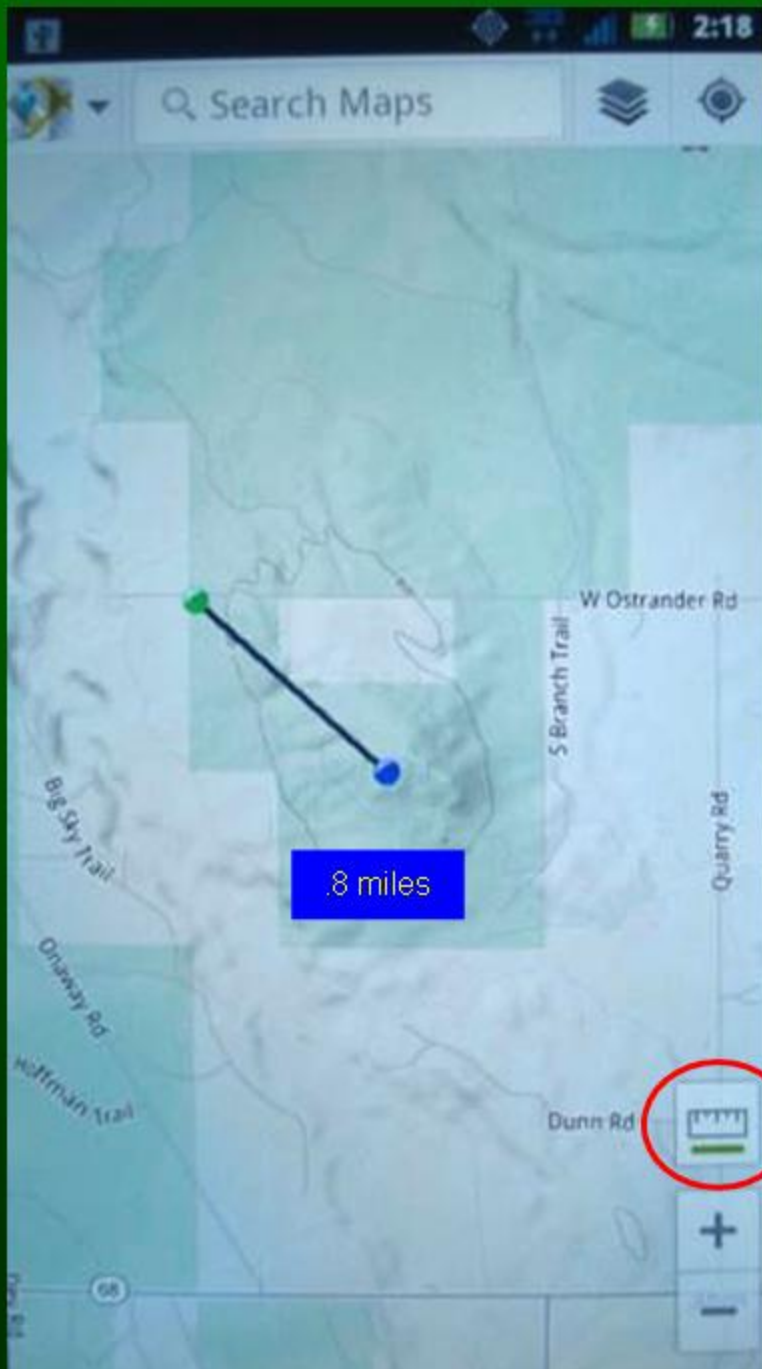


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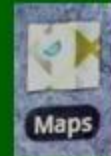


Google Maps

- Measure Tool (Lab)
 - Line
 - Path
 - Unit adjustment



Fireline Specific Apps & functions

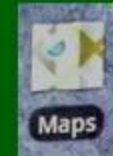


Google Maps

- Street View
 - Limited availability
 - Tap on Map
 - Tap Pop-up label

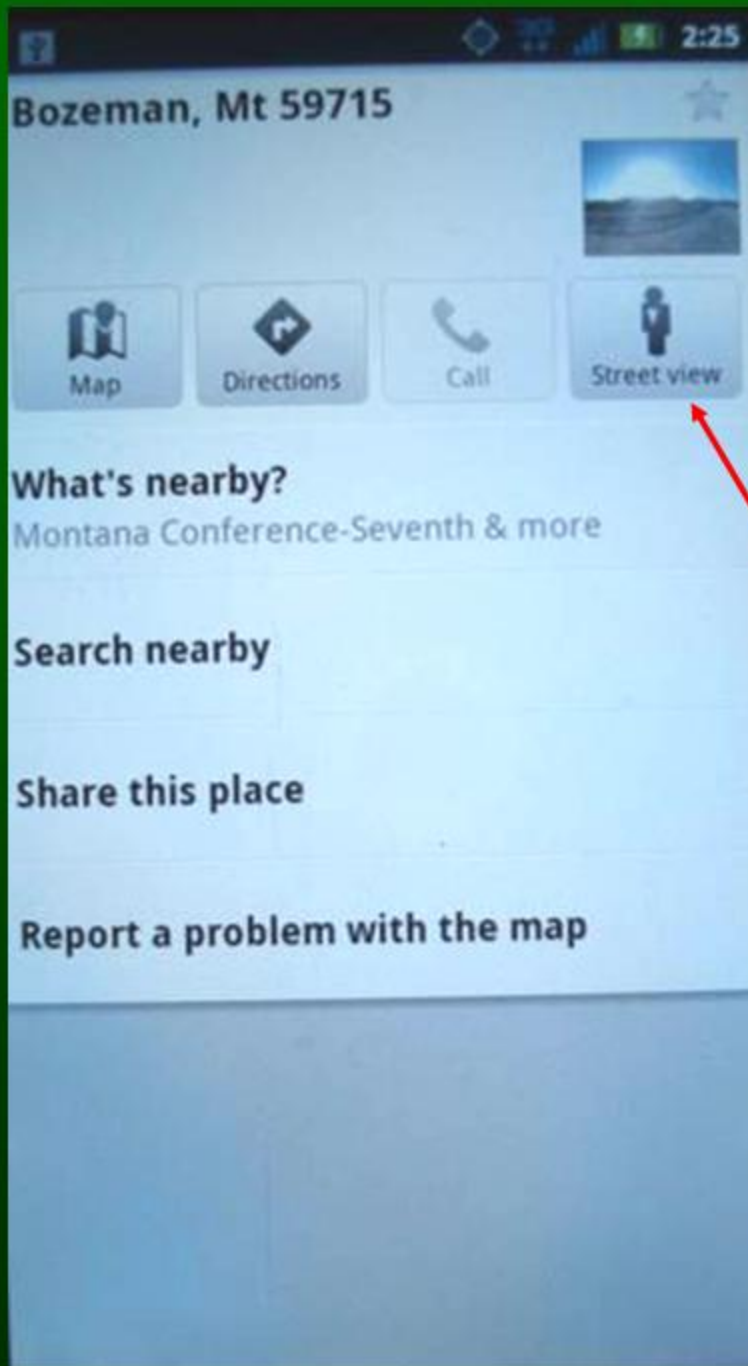


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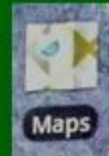
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 - **View Big Sky Country**





Fireline Specific Apps & functions

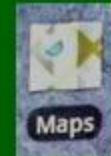


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 - Streets labeled



Fireline Specific Apps & functions

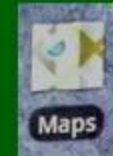


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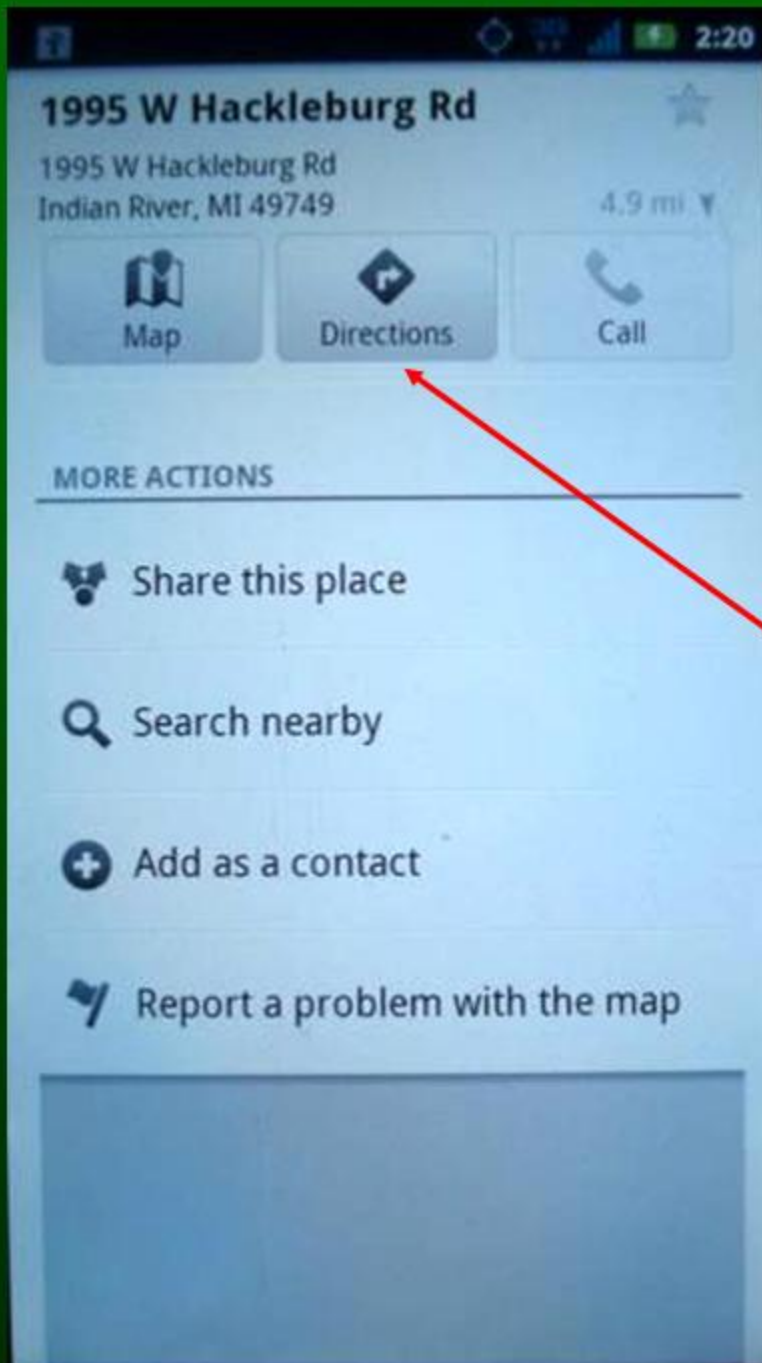


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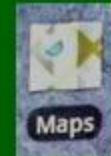


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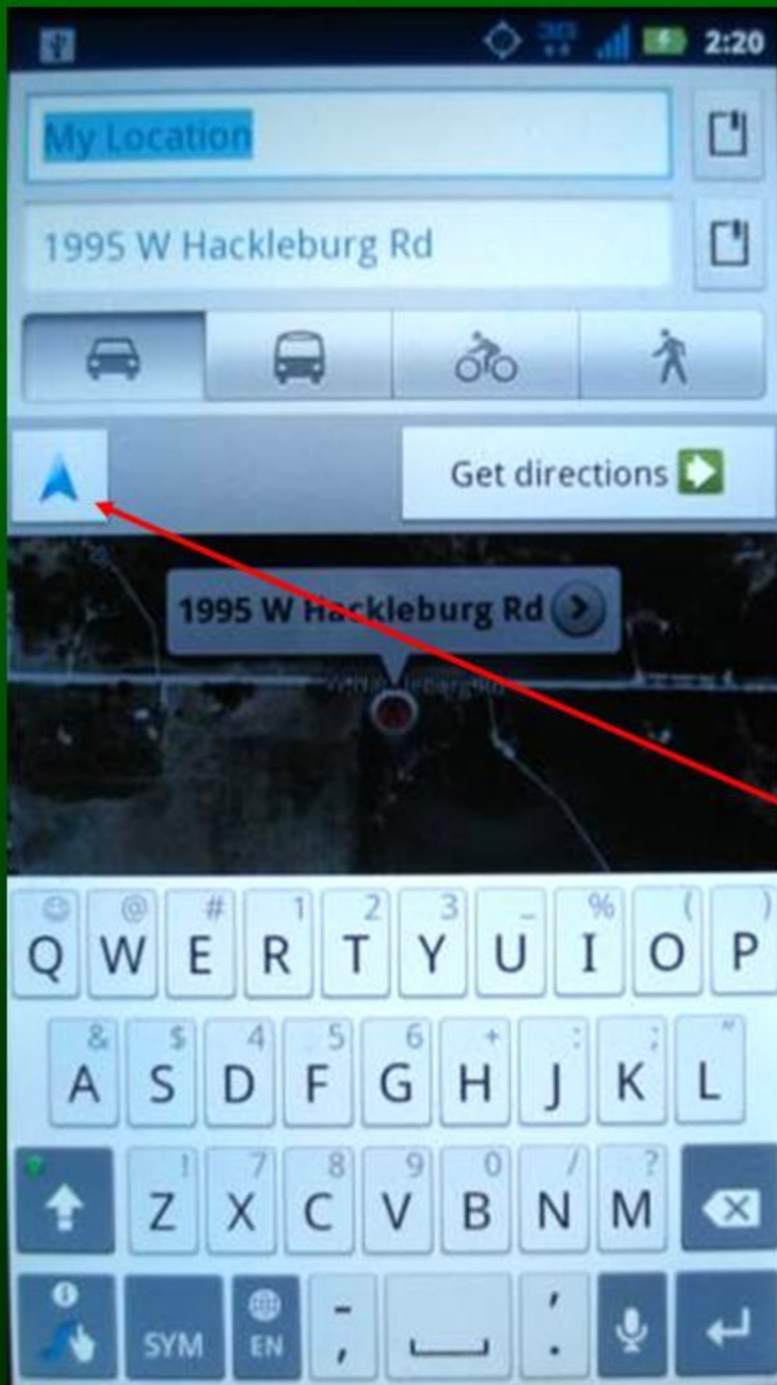
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 - Search for Address
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 - Tap Directions Icon



Fireline Specific Apps & functions

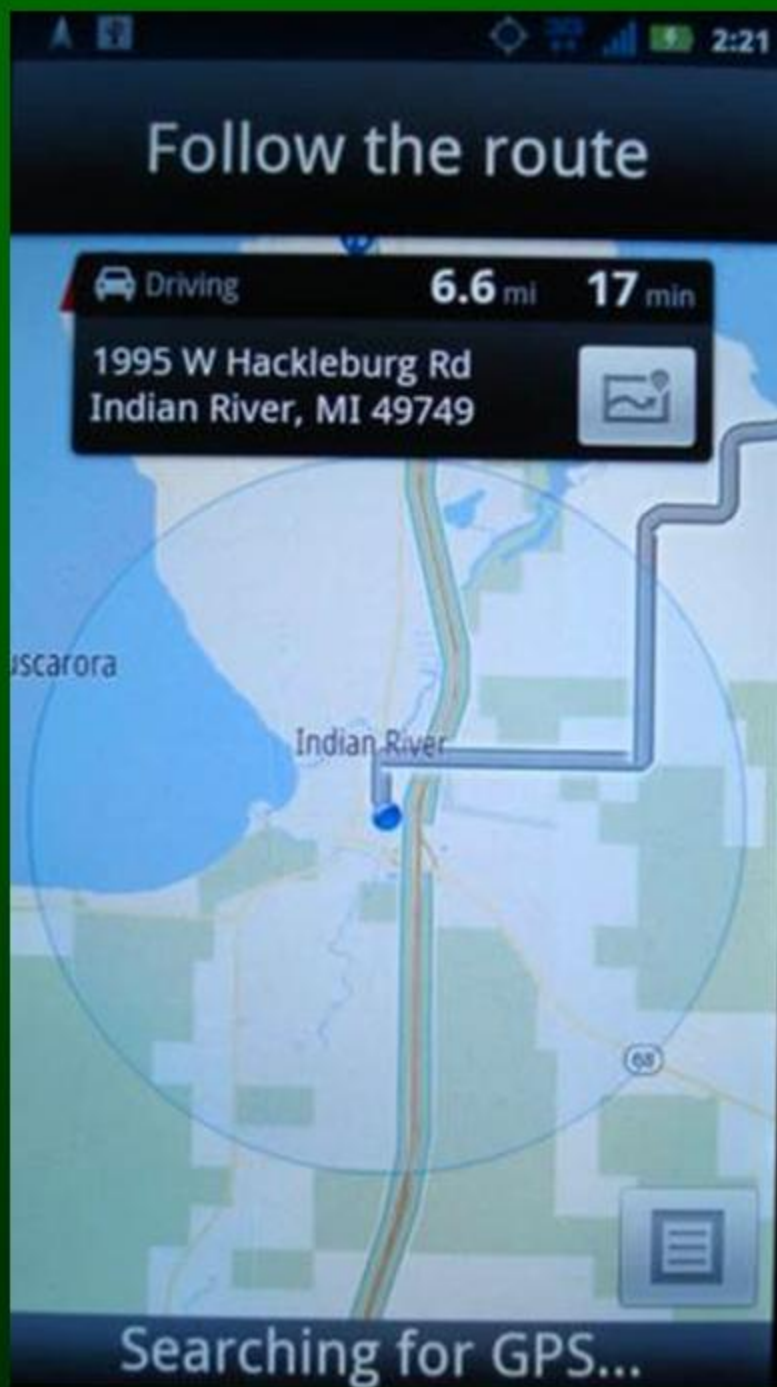


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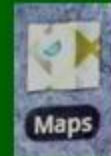


- Navigation
 - Search for Address
 - Tap Pop-up Label
 - Tap Directions Icon
 - Tap Navigate Icon





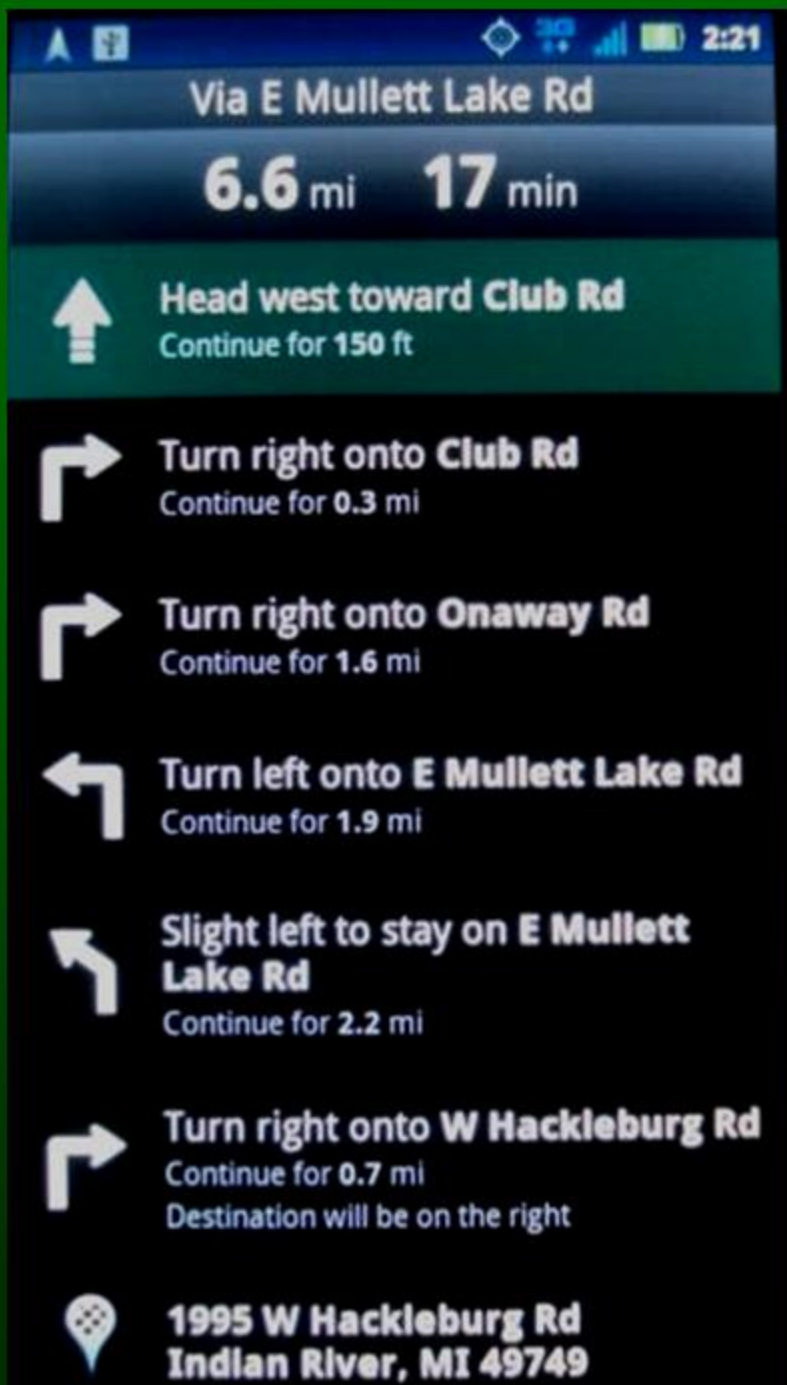
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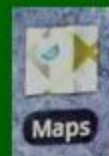
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 - Follow on screen turn by turn directions
 - Also voice commands





Fireline Specific Apps & functions



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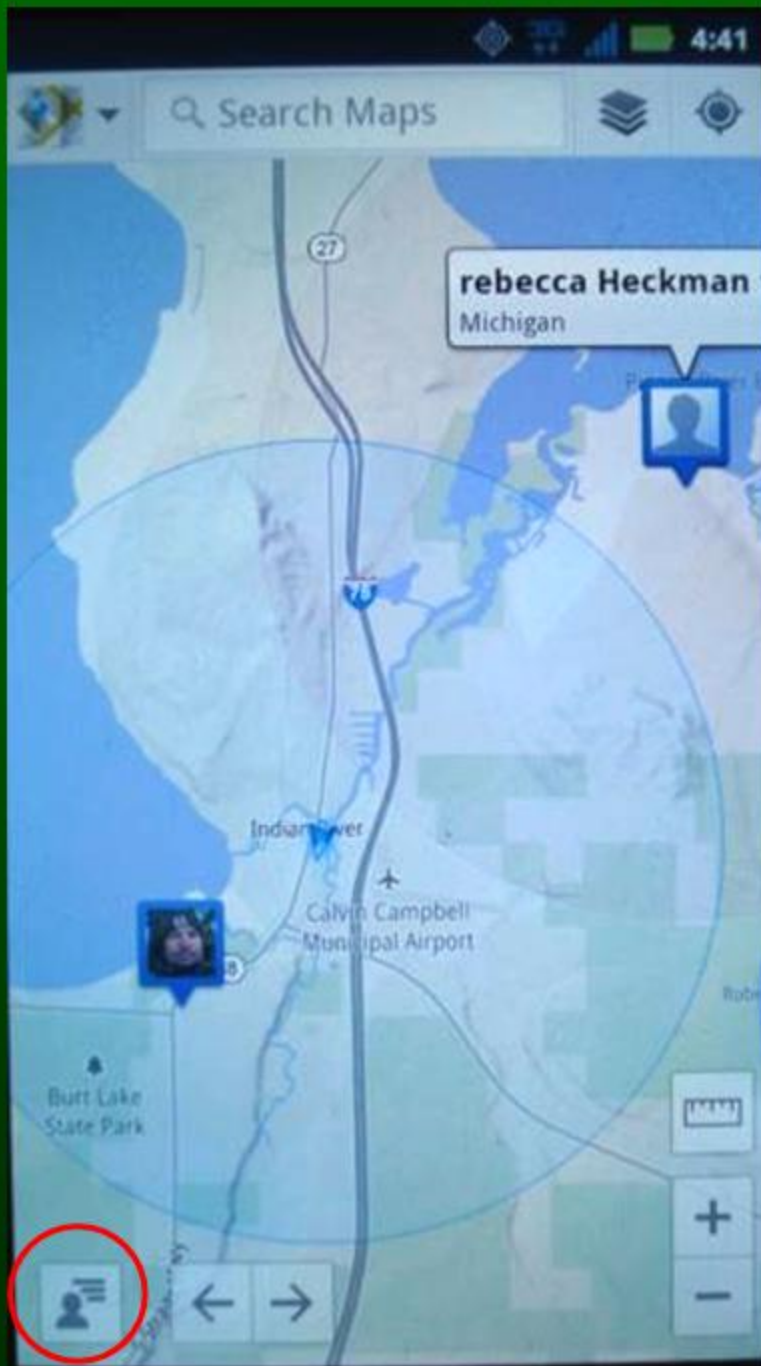


Fireline Specific Apps & functions



Latitude

- Runs in Google Maps
- Shows the location of others in latitude
- Helpful for identifying the location of resources on the fire line





Fireline Specific Apps & functions

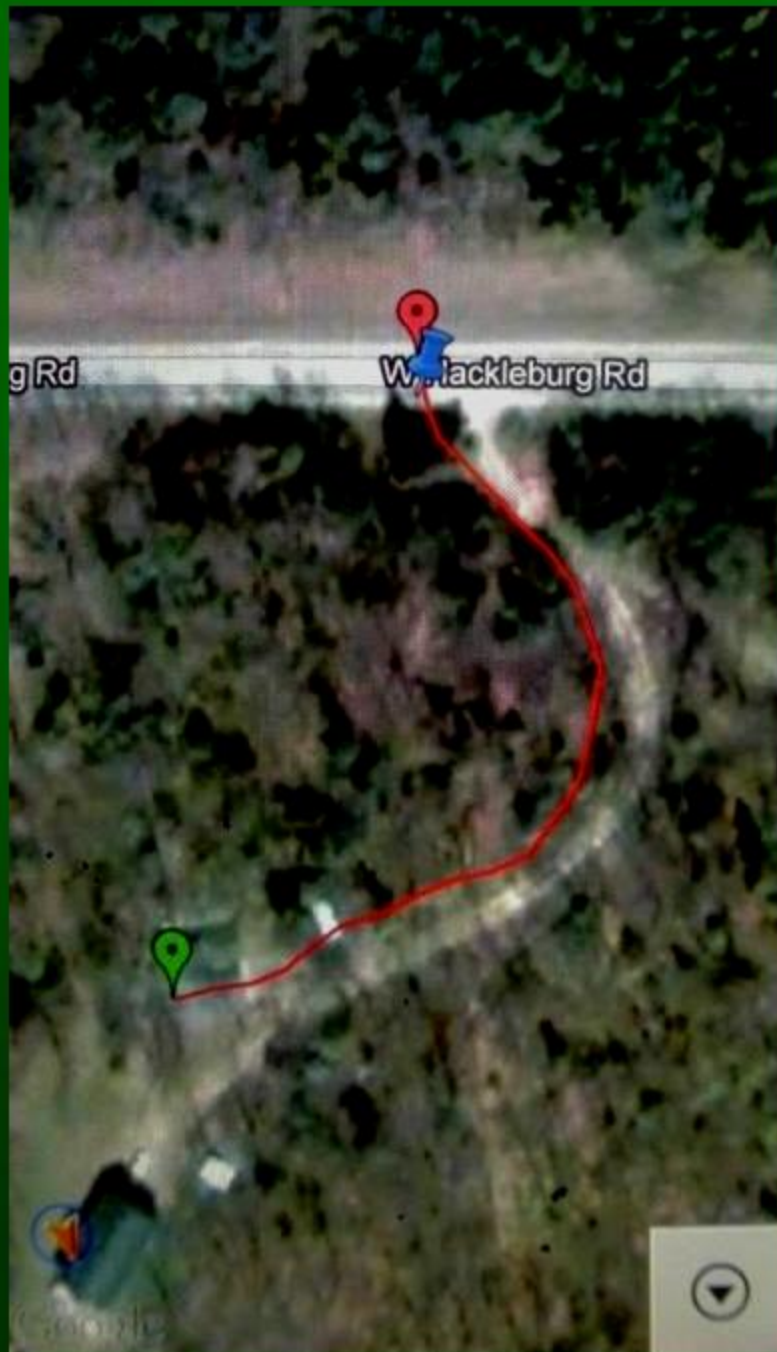


My Tracks

- Runs on Google Map server data
- Allows users to record tracks and markers (waypoints)
- User can share the tracks with ICC / GISS from on the fire line



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