

Utilizing Mobile and a Dashboard for Task Tracking

Presented by:

Denny Hoskins & Vickie Rooker

3/29/2019

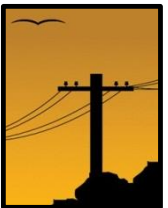
GeoCross Mobile

What is it?

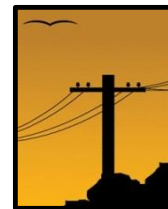
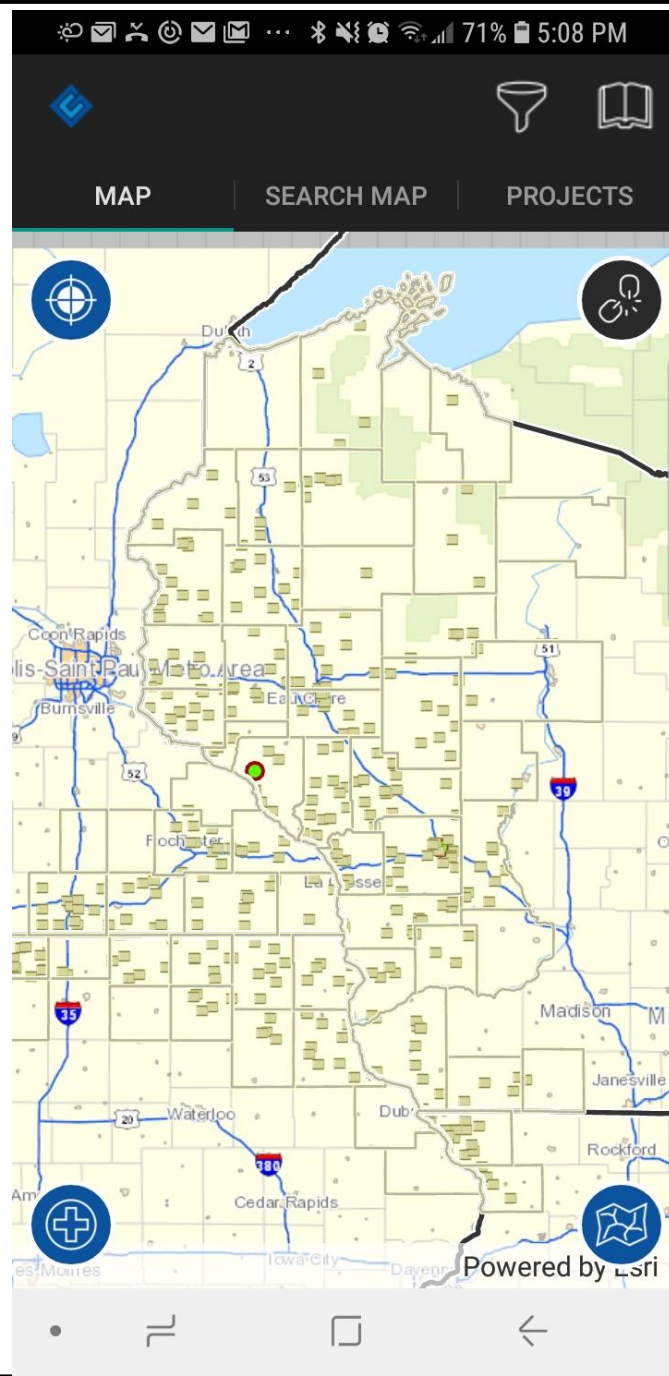
- Mobile Application with real time access to DPC information
- Developed using ESRI Software Development Kit
- Accessed by DPC issued tablets or phones
- “Preloaded” offline map to when in areas of low cellular strength
- It is a marketed application used outside of DPC

Benefits

- Fully configurable for use by area, group or individual
- Map requests can be handled almost immediately
- Same look and feel across devices (Tablets, Phones)
- Cross-platform functionality. Program once, deploy to multiple OS
- Updates can be “pushed out” over the air
- New functionality can be easily added from user requests



**The look of GeoCross
from a mobile device in
the disconnected mode**



GeoCross

GeoCross Mobile

GeoCross Mobile

Map Search Map Directions My Maps Settings



Select Basemap & Manage Map Layers

Imagery With Labels

Streets

Topographic

Manage Map Layers

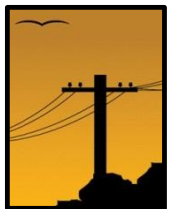
Cancel



GeoCross Mobile

GeoCross Mobile

Map Search Map Directions My Maps Settings



➤ Elk Mound Area

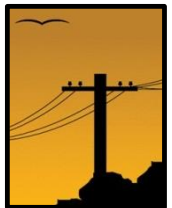


← GeoCross Mobile

- □ X

Map Layers

- DPC_General_Site
- DPC_Lines_As_Built
- DPC_Substations
- Access_Roads
- Poles
- DPC_Switches



➤ Offline Workflow

The screenshot displays the Streetmap application interface. At the top, there is a dark navigation bar with five tabs: MAP, SEARCH MAP, DIRECTIONS, MY MAPS (which is selected and underlined), and SETTINGS. Below the navigation bar, the main content area shows the 'streetmap' logo, a download timestamp 'Downloaded: 3/25/2019 1:55:27 PM', and an 'Edit Count In Map: 1'. A white dialog box titled 'Data Update Options' is overlaid on the screen, containing three menu items: 'Send My Changes To Server', 'Download Changes From Server', and 'Synchronize - Send & Download Changes'. A green 'CANCEL' button is located at the bottom right of the dialog box.

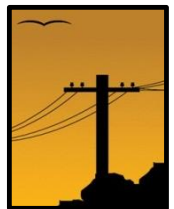
MAP SEARCH MAP DIRECTIONS **MY MAPS** SETTINGS

streetmap
Downloaded: 3/25/2019 1:55:27 PM
Edit Count In Map: 1

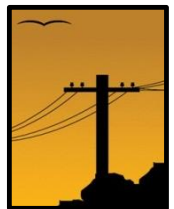
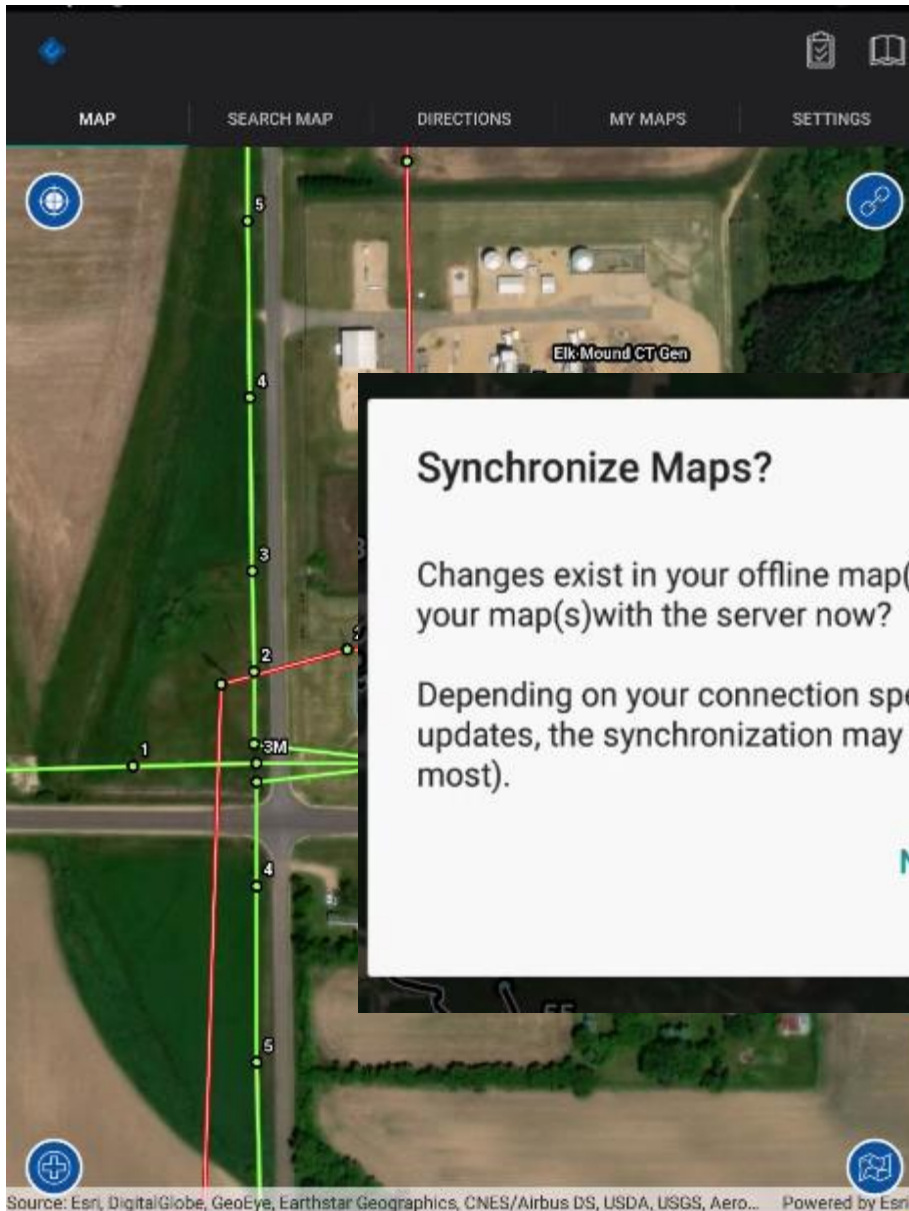
Data Update Options

- Send My Changes To Server
- Download Changes From Server
- Synchronize - Send & Download Changes

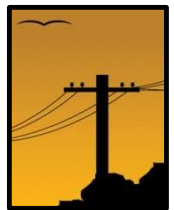
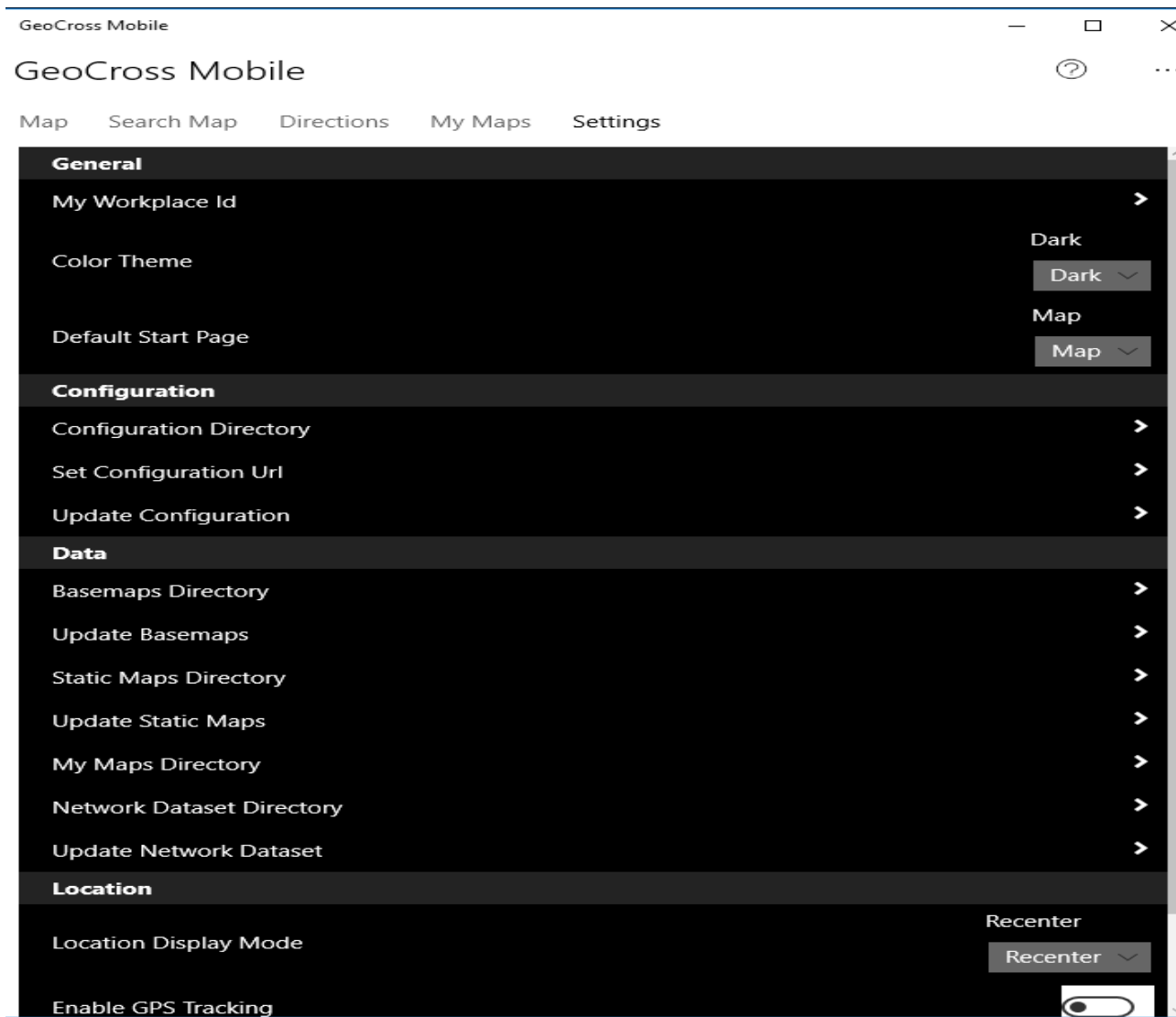
CANCEL



➤ Synchronize Reminder



➤ Easy updates for maps and application configurations



➤ Publishing Simple Forms

Add Layer(s) to a Map

Publish as Feature Service

Configure

Table: AppDatasets

ID	Name	OfflineTableName	DisplayName	Url	Type	FilterExpression	IsVisible	IsEditable	IsHidden
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
15	Poles	NULL	Poles	http://lab-gis...	feature		1	1	0
50	DPCGIS.DPC_VegMgmt_BrushCut	NULL	Brush Clearing	http://lab-gis...	feature		1	1	0
...

Application Restart

Select Type For New Feature

Brush Clearing

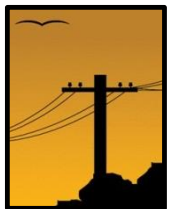
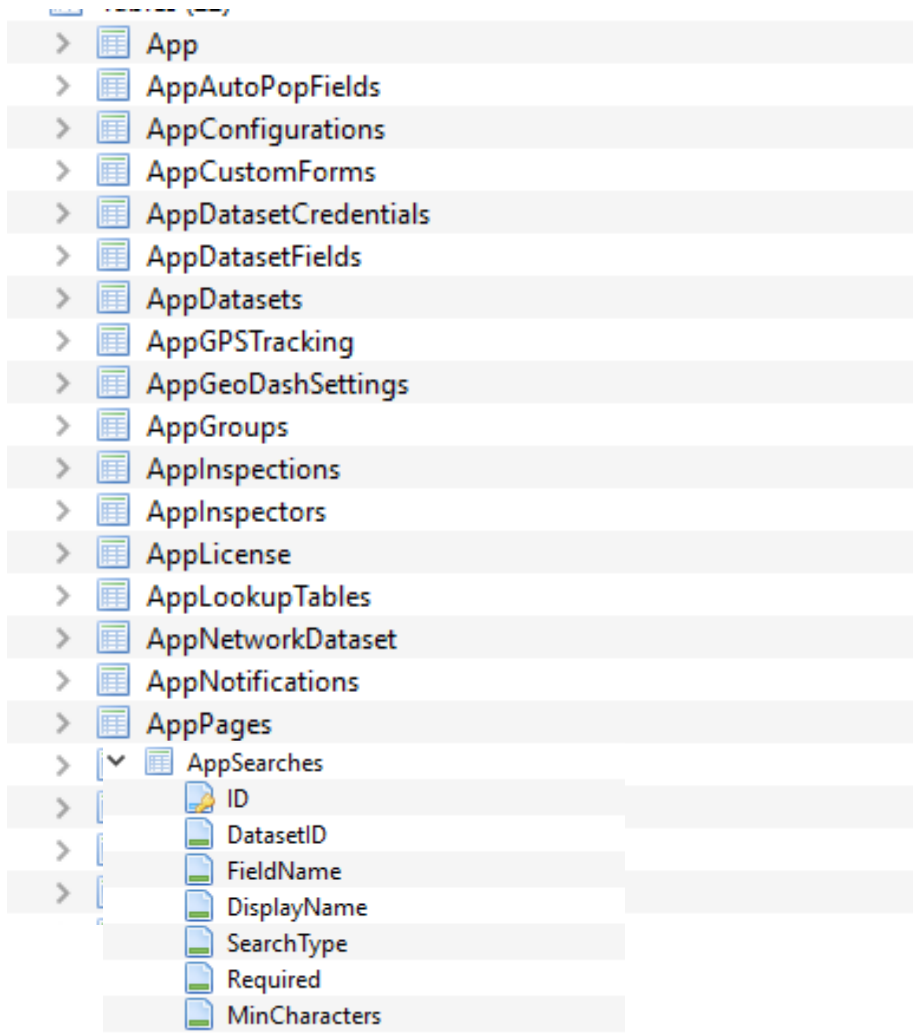
Access Roads

Switches



Cancel



➤ Configuration file versus Application release



➤ Substation Inspections

←  

Site Info

Substation #:

Site Name:

Utility Served:

Inspection Info

Inspection Area:

Inspection Date:

Inspector Name:

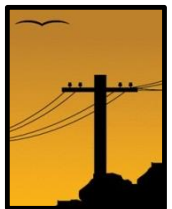
Substation Info

Highside Fuse Size:

Highside Fuse Spares:

Select Inspection Action

- Checklist
- Maintenance
- History
- Regulator
- Trans Press/Temp
- PT/CT
- Circuit Switch



➤ Substation Inspections

GeoCross Mobile

New Inspection

Main Info

OUTDOOR TEMP

38

HOT STICK TEST

January 3 2016

INFRARED TEST

January 3 2016

Trans Info

BUSHINGS OK Yes

LEAKS EXIST No

OIL LEVELS OK N/A

RADIATORS OK No

AUX COOLING OK Yes

TANK PRESS OK Yes

Breaker Info

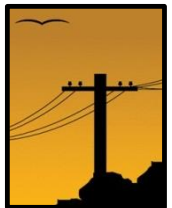
BUSHINGS OK Yes

LEAKS EXIST No

OIL LEVELS OK N/A

CONTROL CAB/GASKETS OK N/A

HEATER OK N/A

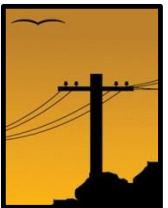


➤ Substation Inspections



GeoCross Mobile

Circuit Breakers

- Breaker #: 9QB7**
Substation #: T9
- Breaker #: 9NB8**
Substation #: T9
- Breaker #: 9NB2**
Substation #: T9
- Breaker #: 9NB1**
Substation #: T9
- Breaker #: 9NB7**
Substation #: T9, Counter: 353
- Breaker #: 9NB6**
Substation #: T9
- Breaker #: 9QB10**
Substation #: T9
- Breaker #: 9NB3**
Substation #: T9
- Breaker #: 9QB11**
Substation #: T9
- Breaker #: 9QB8**
Substation #: T9
- Breaker #: 9NB4**
Substation #: T9



➤ Pole Inspections

←  

Line #:

Pole Nbr:

Inspection Info

Inspection Date:

Inspector Name:

Contact owner before entering:

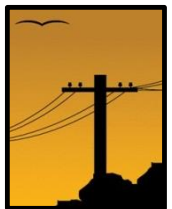
Deficiency:

Pole Condition:


Additional Info




Pole Material:

Pole Type:



➤ Pole Inspections

← 

Line #:   

LN5

Pole Nbr: REPORTED ON

57 3/20/2019

Inspection

Inspection DESCRIPTION

3/25/2019

Inspector: Broken Ground Wire

Wayne

Contact owner: ADDITIONAL INFO

No Contact owner before entering

Deficiency: 1 - Insp


Pole Condition: 1 - Above

VANDALISM?

Additional: No

Pole Material: Wood

Pole Type:



➤ “Pin It” feature

The image shows a mobile application interface with two main components overlaid on a map background. The background map shows a green path and labels like 'Ocean Spray Dist' and 'Town of Cutler'. At the bottom, it says 'Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community, Source: Esri, ... Powered by Esri'.

Select Map Action

- Show XY Coordinate
- Share XY Coordinate
- PinIt @ XY Coordinate
- PinIt @ This Location
- Clear PinIt Locations

Select recipients

10:38 [icons] 24%

< Select recipients

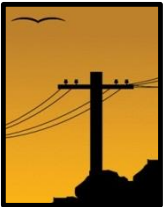
Search Contacts or enter number

- J Jason Hovey (608) 518-1436
- J Jay Hansen (608) 386-2809
- J Jeremy Nitek (608) 498-7911
- J Jim Pagel (608) 780-0116
- J Jim Thill (608) 518-1385
- J John Kendhammer (608) 792-2192

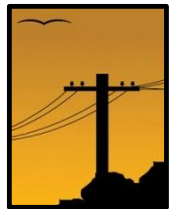
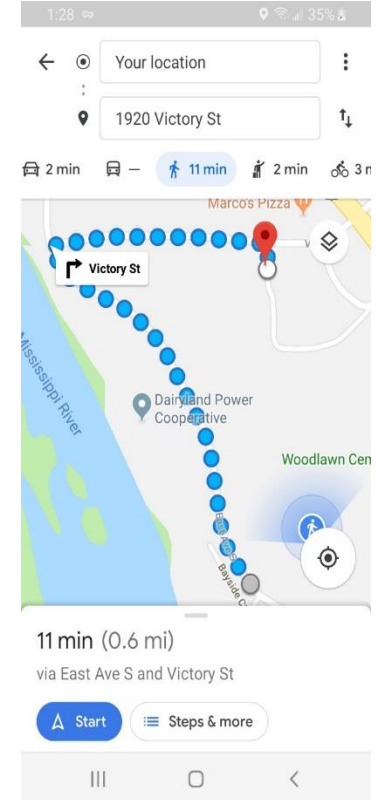
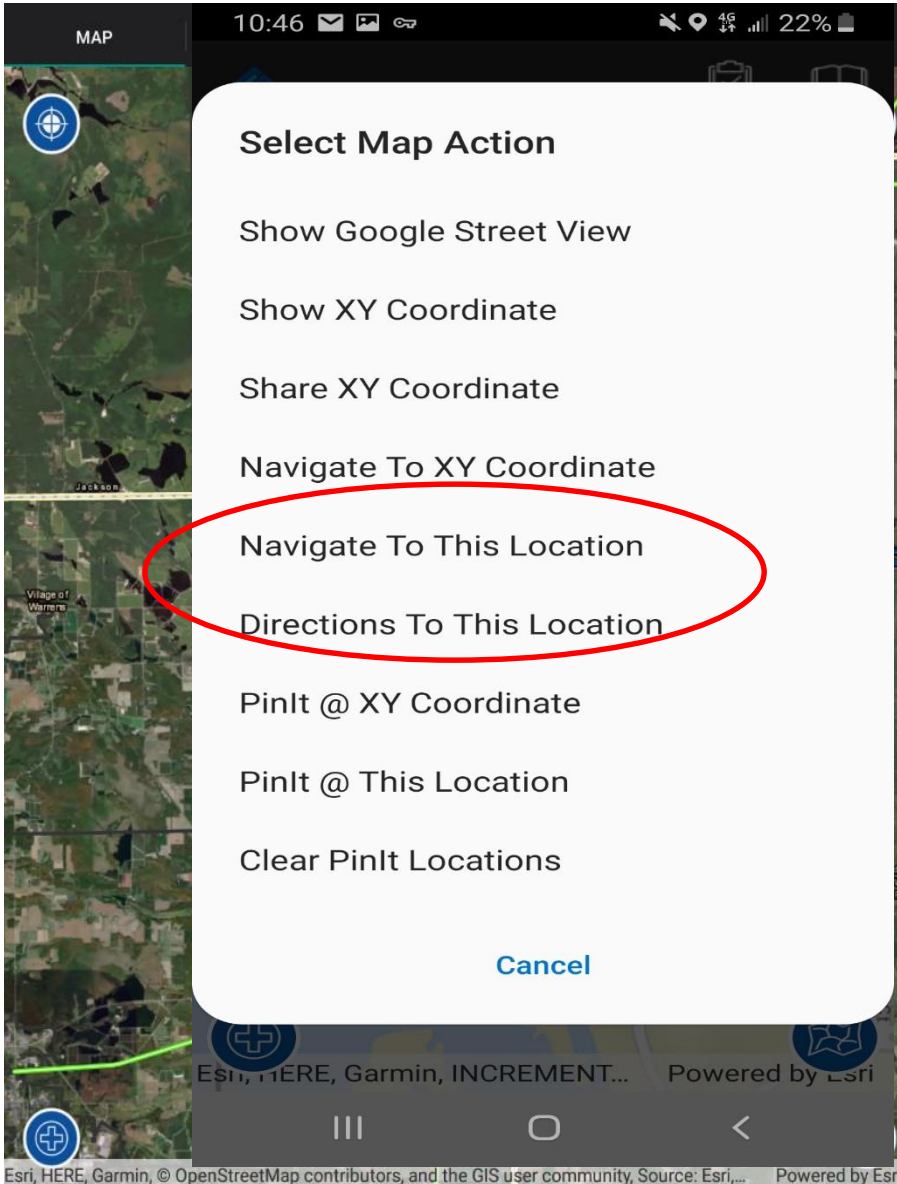
Conversations **Contacts**

[Message icons]

1 2 3 4 5 6 7 8 9 0



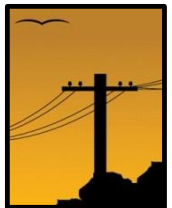
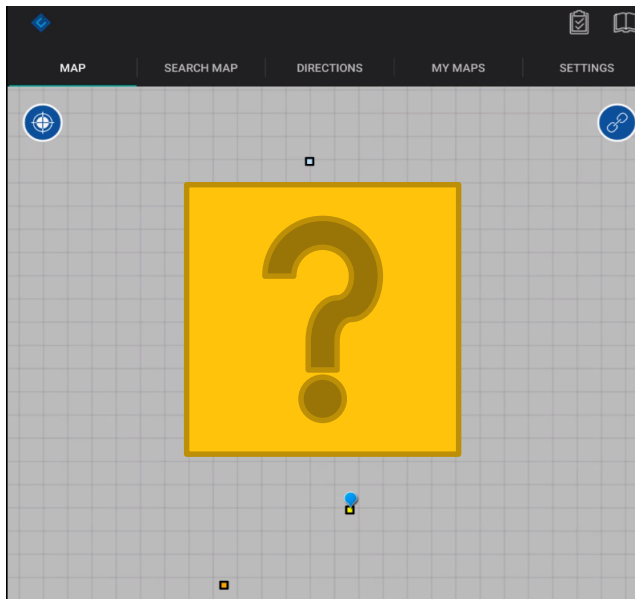
➤ Directions



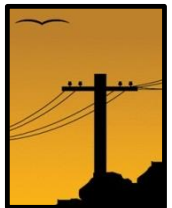
GeoCross Mobile

Moving Forward

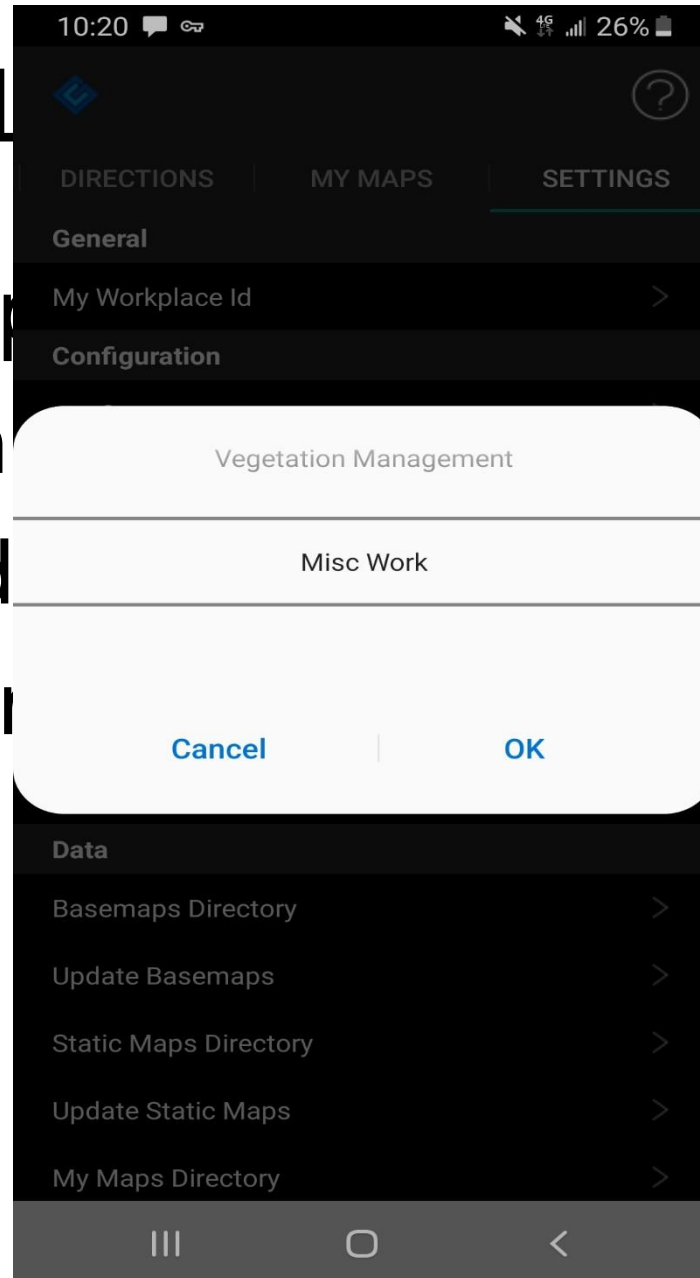
- Poor Cellular Signal
- iOS vs Android
- VPN versus VMWare Tunnel
 - Battery usage versus flaky behavior
- Loading Imagery vs Street Map



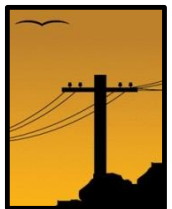
Soooo... I'm working on this presentation.. and..



- ▶ Create map
- ▶ Provide on
- ▶ Search, ed
- ▶ Access from



ents
table

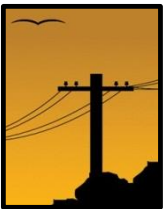


Happy Customer!



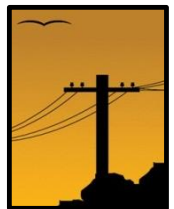
DPC WebGIS

- ▶ DPC uses ESRI Web Services to publish a DPC GIS webpage
- ▶ This is a view only page
- ▶ Turn on and off layers
- ▶ Identify features
- ▶ The ability to search assets
- ▶ Draw on the map
- ▶ Get directions
- ▶ Simple to use



DPC GeoDash GIS Web

The screenshot displays the Dairyland Power GIS Web interface. At the top left is the Dairyland Power Cooperative logo. The main header contains the text "Dairyland Power GIS" and "Web Map Viewer", along with a "GeoDash Groups" dropdown menu and a "Help" icon. On the left side, there is a vertical toolbar with icons for Layers, Legend, Bookmarks, Identify, Find, Draw, Measurement, Directions, Print, Editor, and Google Street View. The central map area shows a geographical view of the Midwest, including parts of Minnesota, Wisconsin, Iowa, and Illinois. Major cities like Minneapolis, St. Paul, St. Cloud, Madison, and Chicago are labeled. The map features a network of red and green lines representing utility infrastructure. A scale bar at the bottom left indicates 100km and 60mi. The Esri logo is visible in the bottom right corner of the map area.

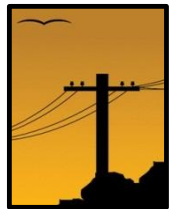


Misc Layers

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The top header includes the Dairyland Power Cooperative logo, the title "Dairyland Power GIS", the subtitle "Web Map Viewer", a "Telecom" dropdown menu, and a "Help" icon. The left sidebar contains a "Layers" panel with the following items:

- Layers
 - Feedback
 - Location Tasks
 - Linear Tasks
 - Area Tasks
 - Projects
 - LocationTracking
 - Lightning Strikes
 - DPC Layers
 - Feedback
 - General Sites and Substations
 - Poles and Switches
 - ROW
 - Telecom
 - Lines
 - Vegetation Management
 - Background Data
 - Foreign Utility Layers
 - Cooperative
 - Structures
 - Hawkeye Tricounty Structures
 - Lines
 - Allamake Clayton Lines
 - Hawkeye Tricounty Lines
 - Heartland OH Lines
 - Heartland URD Lines
 - ITC Lines
 - JoCarrol Lines
 - Peoples Lines

The main map area shows a geographical view of the Midwest, including parts of Minnesota, Wisconsin, Iowa, and Illinois. Major cities like St. Paul, Minneapolis, Madison, and Chicago are visible. The map features a network of power lines, with some highlighted in red and others in green. A search bar, zoom controls, and a "Basemaps" dropdown are located in the top right of the map area. A scale bar at the bottom left indicates 100km and 60mi. The Esri logo is in the bottom right corner.



DPC Switches

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The top navigation bar includes the Dairyland Power Cooperative logo, the title "Dairyland Power GIS Web Map Viewer", a "Telecom" dropdown menu, and a "Help" icon. The left sidebar contains a "Layers" panel with various categories: Feedback, Location Tasks, Linear Tasks, Area Tasks, Projects, LocationTracking, Lightning Strikes, DPC Layers (with sub-items: Feedback, General Sites and Substations, Poles and Switches, DPC Pole Test and Treat, DPC Pole Maintenance, DPC Poles), ROW, Telecom, Lines, Vegetation Management, Background Data, Foreign Utility Layers, and Weather Underground Radar. The main map area shows a topographic view of a region in Iowa, with several green lines representing power lines and purple markers indicating DPC Switch locations. A pop-up window titled "(1 of 4) DPC Switches" is open, displaying the following details:

Line Nbr	LN53
Pole Nbr	0158
Switch Nbr	N53Y12
Arc Break	Whip
Swing Direction	Right
Switch Framing	AD
Amperage	600
Manufacturer	TEECO
Configuration	Vertical
Padlocks	DPC
Motor Operated	No
Infrared Scanned	Null
Globalid	{EA2E1156-0AA9-499B-ABB1-F36E2F419ECB}

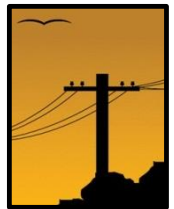
The pop-up window also includes a "Zoom to" button. The map interface includes standard GIS controls such as zoom in (+), zoom out (-), home, and search icons. A scale bar at the bottom indicates 3km and 2mi. The map shows the location of Czedonia, Eitzen, and Spring Grove, with state roads 44, 76, and 20 visible. The background is a topographic map with a yellowish-brown color scheme. The bottom right corner features the Esri logo and the text "New Albin".

Coop Distribution Layers

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The title bar includes the Dairyland Power Cooperative logo, the text "Dairyland Power GIS Web Map Viewer", a "Telecom" dropdown menu, and a "Help" icon. The left sidebar contains a legend with the following categories and items:

- Location Tasks (checked)
- Linear Tasks (checked)
- Area Tasks (checked)
- Projects (checked)
- LocationTracking (unchecked)
- Lightning Strikes (unchecked)
- DPC Layers (checked)
 - Feedback (unchecked)
 - General Sites and Substations (checked)
 - Poles and Switches (unchecked)
 - ROW (unchecked)
 - Telecom (checked)
 - Lines (checked)
 - Vegetation Management (unchecked)
 - Background Data (checked)
- Foreign Utility Layers (checked)
 - Cooperative (checked)
 - Structures (checked)
 - Hawkeye Tricounty Structures (unchecked)
 - Lines (checked)
 - Allamakee Clayton Lines (checked)
 - Hawkeye Tricounty Lines (unchecked)
 - Heartland OH Lines (unchecked)
 - Heartland URD Lines (unchecked)
 - ITC Lines (unchecked)
 - JoCarroll Lines (unchecked)
 - Peoples Lines (unchecked)
 - SMPA Lines (unchecked)
- Boundaries (checked)

The main map area shows a topographic background with a network of power lines. Labels on the map include "Allamakee-Clayton Electric Coop", "Postville", "Allamakee", "Postville TCom Postville Dist", "Postville Allam Dist", "Postville Tran MOS Postville Tran", "Luana", "Monona", "115th St", "18", "Gunder Rd", "Waterville Rd", "Allamakee Clayton", and "18". A scale bar at the bottom left indicates 3km and 2mi. The bottom right corner features the "powered by esri" logo. The map also includes navigation controls (zoom in, zoom out, home, search) and a "Basemaps" dropdown menu.



DPC Switch with Coop Lines

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The top header features the Dairyland Power Cooperative logo, the title "Dairyland Power GIS Web Map Viewer", a "GeoDash Groups" dropdown menu, and a "Help" icon. The left sidebar contains a "Layers" panel with the following items:

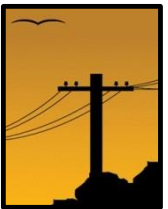
- Feedback (checked)
- Location Tasks
- Linear Tasks
- Area Tasks
- Projects
- LocationTracking
- Lightning Strikes
- DPC Layers (checked)
 - Feedback
- General Sites and Substations (checked)
 - General Sites
 - DPC Substations (checked)
 - Substation-Linked Data (checked)
- Poles and Switches (checked)
 - DPC Switches (checked)
 - DPC Pole Test and Treat
 - DPC Pole Maintenance
 - DPC Poles
- ROW (checked)
- Telecom (checked)
- Lines (checked)
- Vegetation Management
- Background Data

The main map area shows an aerial view of a rural landscape with a network of power lines. A specific substation is labeled "Postville Dist" and is connected to a network of lines. A purple marker with the ID "N8Y7N8Y9" is placed on a line. The map includes a search bar, a "Basemaps" dropdown, and a scale bar at the bottom left showing 40m and 200m. The "esri" logo is visible in the bottom right corner of the map area.



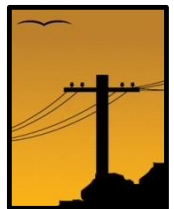
The Dashboard Idea

- ▶ Create a product that builds on the DPC GIS Web page that already exists
- ▶ Connect with the GeoCross application
- ▶ Track tasks
 - ▶ Assign from Desktop Web GIS
 - ▶ Assign/Accept from smart phone or tablet
- ▶ Track status/location of users
- ▶ See everything from one “Dashboard”



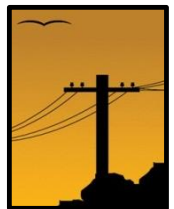
DPC GeoDash GIS Web

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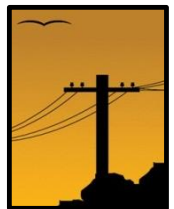
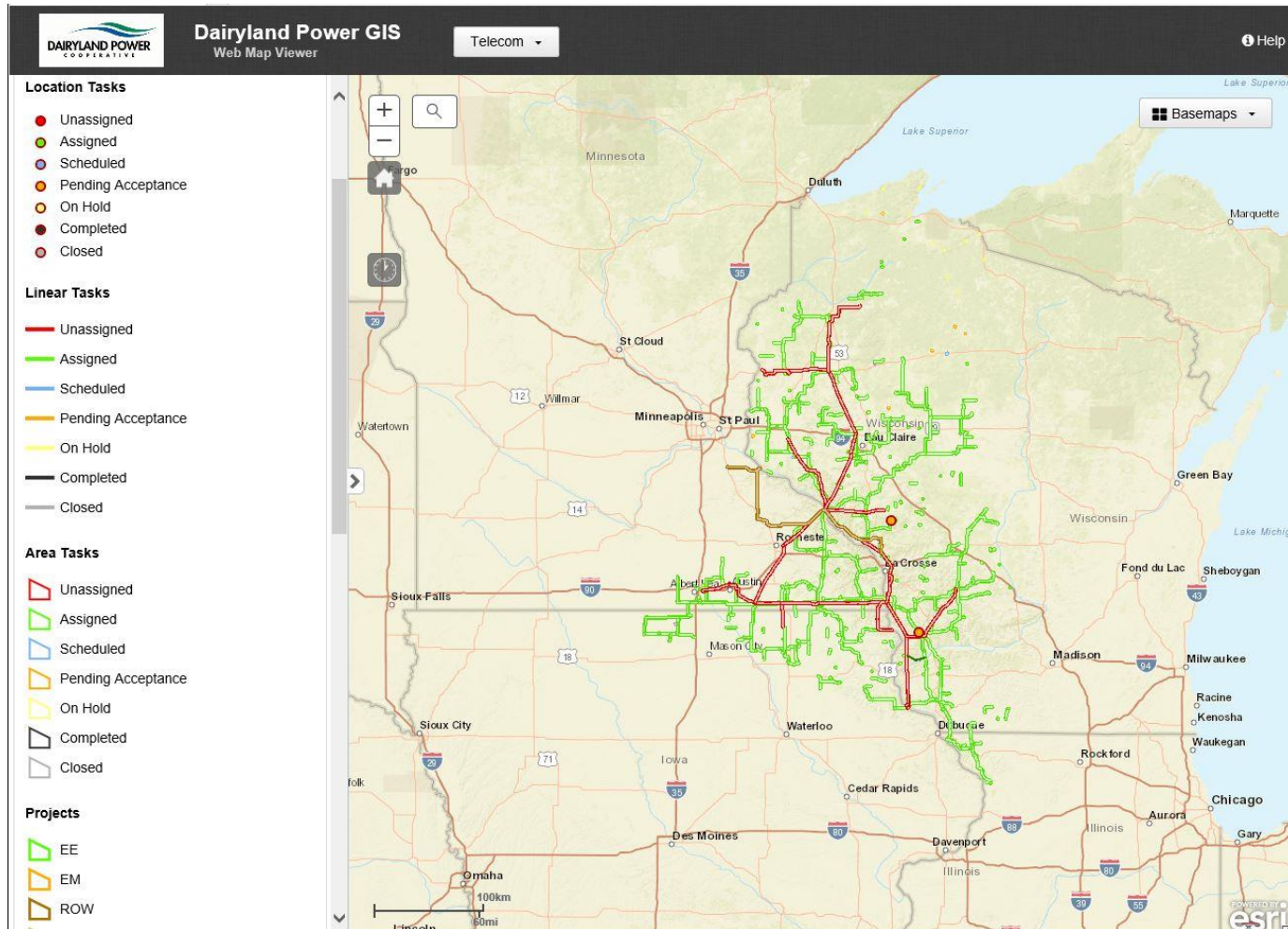


Telecom GeoDash Tasks

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The top header includes the Dairyland Power Cooperative logo, the title "Dairyland Power GIS Web Map Viewer", a "Telecom" dropdown menu, and a "Help" icon. On the left, a vertical menu lists various tools: Layers, Legend, Bookmarks, Identify, Find, Editor, GeoDash Monitor, GeoDash Manager, and GeoDash Tech Status. The main map area shows a geographical view of the Midwest, with a network of red and green lines representing telecom infrastructure. Major cities like Minneapolis, St. Paul, Madison, and Chicago are labeled. The map includes standard GIS controls such as zoom in/out buttons, a search bar, a home button, and a basemap selector. A scale bar at the bottom left indicates 100km and 60mi. The Esri logo is visible in the bottom right corner of the map area.



Tasks Symbolized by Type



GeoDash Monitor

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The top header includes the Dairyland Power Cooperative logo, the title "Dairyland Power GIS", the subtitle "Web Map Viewer", a "Telecom" dropdown menu, and a "Help" icon. The left sidebar contains a "Layers" panel with a tree view, a "Legend" panel, "Bookmarks", "Identify", "Find", "Editor", and "GeoDash Monitor" sections. Below these is a "Telecom" section with a refresh icon, a "Select Project To Filter Tasks" dropdown set to "Show All", and a list of task categories: "Unassigned Tasks", "Assigned Tasks", "Overdue Tasks", "Completed Tasks", and "Scheduled Maintenance". At the bottom of the sidebar are "GeoDash Manager" and "GeoDash Tech Status" sections. The main map area shows a geographic view of the Midwest, including Minnesota, Wisconsin, and Illinois, with major cities like Duluth, St. Paul, Minneapolis, Madison, and Chicago. A network of power lines is overlaid on the map, with some lines highlighted in red and others in green. The map includes standard navigation controls (zoom in, zoom out, home, clock) and a "Basemaps" dropdown menu. A scale bar at the bottom left indicates 100km and 60mi. The Esri logo is visible in the bottom right corner of the map area.



Unassigned Tasks

DAIRYLAND POWER COOPERATIVE Dairyland Power GIS Web Map Viewer Telecom Help

Layers Legend Bookmarks Identify Find Editor GeoDash Monitor

Telecom Refresh

Select Project To Filter Tasks
Show All

Unassigned Tasks

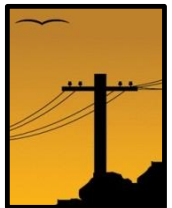
Search:

P	Description	Due Date
L	hhhh	2/19/2019

Assigned Tasks
Overdue Tasks
Completed Tasks
Scheduled Maintenance

GeoDash Manager
GeoDash Tech Status

Map showing unassigned tasks (red lines and dots) overlaid on a geographic map of the Dairyland Power Cooperative region. The map includes labels for cities like Duluth, St. Paul, Minneapolis, Eau Claire, and Madison, and features like Lake Superior and Lake Michigan. The Esri logo is visible in the bottom right corner of the map area.



Assigned Tasks

Dairyland Power GIS
Web Map Viewer

Telecom

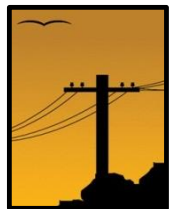
Layers
Legend
Bookmarks
Identify
Find
Editor
GeoDash Monitor

Telecom
Select Project To Filter Tasks
Show All

Unassigned Tasks
Assigned Tasks

Search:

P	Description	Who
N	gggfg	Nate Klar
L	plowing	Adam Schmid
M	install	Steven Stoczynski
L	gg	Sidney Barber
M	tezr	Denny Hoskins
L	check irig jumpers	Ken Stangel



Assigned Tasks

Dairyland Power GIS Web Map Viewer Telecom Help

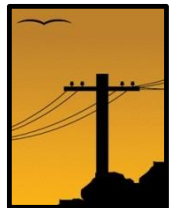
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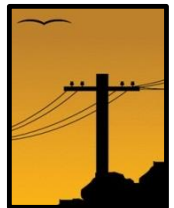
Assigned Tasks

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The top navigation bar includes the Dairyland Power Cooperative logo, the text "Dairyland Power GIS Web Map Viewer", a "Telecom" dropdown menu, and a "Help" icon. The left sidebar contains a "Layers" panel with options like Legend, Bookmarks, Identify, Find, Editor, and GeoDash Monitor. Below this is a "Telecom" section with a refresh icon and a "Select Project To Filter Tasks" dropdown set to "Show All".

The main map area shows a topographic view with a red line representing a power line and a green line representing a task path. A popup window titled "Location Tasks (1 of 3)" is open over the map, displaying the following details:

Location Tasks	
Name	Adam Schmid
Description	plowing
Type	Maintenance
Status	Assigned
Priority	Low
AssignedTo	Adam Schmid
DueDate	
Comments	
OnHoldComment	
OnHoldResumeDate	
DeclinedComment	
CreatedBy	
CreateDate	2/25/2019, 12:00 AM
EditedBy	

Below the popup is a "Zoom to" field. The bottom left of the map shows a scale bar for 1 km and 1 mi. The bottom right corner features the Esri logo and the text "Powered by esri".



Completed Tasks

DAIRYLAND POWER COOPERATIVE Dairyland Power GIS Web Map Viewer Telecom Help

Layers Legend Bookmarks Identify Find Editor GeoDash Monitor

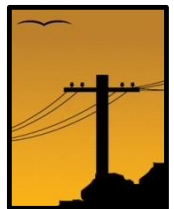
Telecom
Select Project To Filter Tasks
Show All

Unassigned Tasks
Assigned Tasks
Overdue Tasks
Completed Tasks

Search:

Description	Who	Completion Date
Bruce needed return loss measurements	Steven Stoczynski	12/31/1969
	Harold Aaland	12/31/1969

Scheduled Maintenance



Completed Tasks

Dairyland Power GIS
Web Map Viewer

Telecom

Layers
Legend
Bookmarks
Identify
Find
Editor
GeoDash Monitor

Telecom
Select Project To Filter Tasks
Show All

Unassigned Tasks
Assigned Tasks
Overdue Tasks
Completed Tasks

Search:

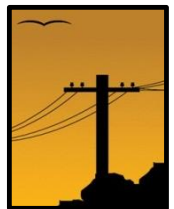
Description	Who	Complete Date
Bruce needed return loss measurements	Steven Stoczynski	12/31/1969
	Harold Aaland	12/31/1969

Scheduled Maintenance

Basemaps

Map features: +, -, Home, Search, Scale (1km, 1mi)

Map labels: Wisconsin, Minnesota, Upper MS Riv Wildlife and Fish Ref, Alma Coop Office Dist, Alma Whse, Alma Tran, Alma Hill TCom, JPM, Alma Coal Unloader Dist, River Road Dist, Cream Dist, Alma Creek, Jumbo River, N Main St, S Main St, Highway 35, Highway 104, Highway 107, Highway 108, Highway 109, Highway 110, Highway 111, Highway 112, Highway 113, Highway 114, Highway 115, Highway 116, Highway 117, Highway 118, Highway 119, Highway 120.



Completed Tasks

Dairyland Power GIS
Web Map Viewer

Telecom

Layers
Legend
Bookmarks
Identify
Find
Editor
GeoDash Monitor

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Select Project To Filter Tasks
Show All

Unassigned Tasks
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Scheduled Maintenance

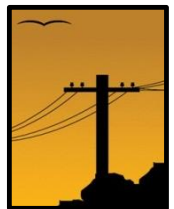
Basemaps

(1 of 2)

Location Tasks

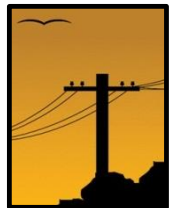
Name	return loss alm to nise LMR
Description	Bruce needed return loss measure ments
Type	Project
Status	Completed
Priority	High
AssignedTo	Steven Stoczynski
DueDate	
Comments	
OnHoldComment	
OnHoldResumeDate	
DeclinedComment	
CreatedBy	Steven Stoczynski
CreateDate	2/6/2019, 12:00 AM

Zoom to



GeoDash Manager

The screenshot displays the Dairyland Power GIS Web Map Viewer interface. At the top left is the Dairyland Power Cooperative logo. The main header contains the text "Dairyland Power GIS" and "Web Map Viewer", along with a "Telecom" dropdown menu and a "Help" icon. On the left side, there is a vertical toolbar with the following options: Layers, Legend, Bookmarks, Identify, Find, Editor, GeoDash Monitor, and GeoDash Manager. Below these is a "Telecom" section with buttons for "Create/Edit a Task" and "Create Task from Asset", and a "GeoDash Tech Status" option. The main map area shows a geographical view of the central United States, including parts of Minnesota, Wisconsin, Iowa, and Illinois. A network of green and red lines represents power lines, with several orange circular markers indicating specific locations. Major cities like St. Paul, Minneapolis, Madison, and Chicago are labeled. The map includes standard navigation controls (zoom in, zoom out, home, full screen) and a "Basemaps" dropdown menu. A scale bar at the bottom left shows 100km and 60mi. The Esri logo is visible in the bottom right corner of the map area.



Creating Tasks in GeoDash Manager

Dairyland Power GIS Web Map Viewer Telecom Help

- ROW
- Telecom
- Lines
- Vegetation Management
- Background Data
- Foreign Utility Layers
- Weather Underground Radar

Legend
Bookmarks
Identify
Find
Editor
GeoDash Monitor
GeoDash Manager

Telecom

NAME
NAME

DESCRIPTION
DESCRIPTION

TYPE
Maintenance

STATUS
Unassigned

PRIORITY
None

ASSIGNED TO
-

DUE DATE
DUE DATE

COMMENTS
COMMENTS

ONHOLD COMMENT
ONHOLD COMMENT

ONHOLD RESUME DATE
ONHOLD RESUME DATE

DECLINE COMMENT
DECLINE COMMENT

CREATED BY
-

CREATED DATE
CREATED DATE

EDITED BY
-

EDIT DATE
EDIT DATE

COMPLETED BY
-

COMPLETED DATE
COMPLETED DATE

HOURS
HOURS

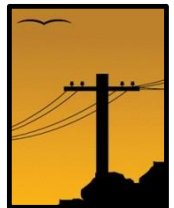
PROJECT
vlr test project: produc...

Submit Cancel

Check In / Check Out Status

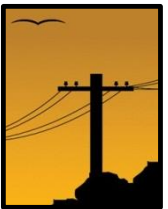
The screenshot displays the Dairyland Power GIS Web Map Viewer interface. The top header includes the Dairyland Power Cooperative logo, the title "Dairyland Power GIS", the subtitle "Web Map Viewer", a "Telecom" dropdown menu, and a "Help" icon. The left sidebar contains a navigation menu with "GeoDash Monitor", "GeoDash Manager", and "GeoDash Tech Status". Below this is a "Telecom" section with a refresh icon and a search bar. A table lists telecom status for various users and locations. The main map area shows a geographical view of the Midwest, with green lines representing power lines and red lines representing telecom lines. Major cities like Minneapolis, St. Paul, and Chicago are labeled. The bottom right corner features the Esri logo.

Who	Location
	Home
	Offsite
	Other
	Home
	Other
	Offsite
	Offsite
	Other
	Home
	Offsite
	Home
Chad-Android-Test	En-Route
Chad-Android-Test	Home
mdh	Home
mdh	Home
mdh	Home
mdh	Home
mdh	Offsite
mdh	Offsite



Lessons Learned

- ▶ Keep everyone informed (top to bottom)
- ▶ Create a group for testing with at least one representative from each area
- ▶ If you ask for comments from users, be ready listen
- ▶ Mobile application deployment is complex
- ▶ Have a backup plan, and make sure everyone knows it.
- ▶ Document your plan and your findings



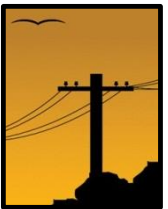
Mobile Development Lessons Learned

- ▶ Mobile deployment is a different animal when creating apps
 - ▶ Multiple OS
 - ▶ Multiple devices
 - ▶ Watch out for network upgrades & patches
 - ▶ Users understand things differently
 - ▶ Editing offline is a MUST
- ▶ Make sure management understands the possible issues that might come up with mobile



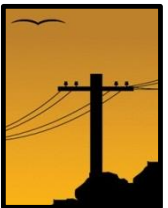
GeoDash Lessons Learned

- ▶ The Dashboard idea was tougher than expected
- ▶ Merging GeoCross and GeoDash together is taking longer than expected
- ▶ ESRI Portal could be good solution for what we are trying to do with our Dashboard
- ▶ There are many department uses for a Dashboard at DPC
 - ▶ Telecom
 - ▶ Electrical Maintenance
 - ▶ Transmission Maintenance
 - ▶ Safety
 - ▶ Right of Way
- ▶ We have a ways to go, but we are getting there



What's Next?

- ▶ Upgrade to at least ArcGIS 10.6
- ▶ Start testing with Portal
- ▶ Finish deployment of GeoDash
- ▶ Optimize GeoCross connectivity issues
- ▶ Create reports when data starts coming in
- ▶ Create a committee and working group structure at DPC to better communicate GIS within company



GIS Working Group Hierarchy

GIS Steering/Policy Committee

Executive Sponsors, Department Managers

GIS Technical Coordinating Committee

GIS Manager, Reps from: IT Working Group, GIS Applications, & Power User Groups

IT Working Group (apps,
Infrastructure, data, support)

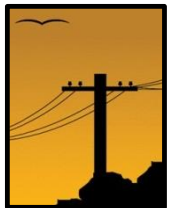
GIS
Applications
Group

Cooperative
GIS User
Group

Field/Mobile
User Group

Power User
Group

Desktop User
Group



Questions?

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Vickie Rooker: Vickie.Rooker@dairylandpower.com

Joe Jakusz: Joe.Jakusz@dairylandpower.com

Chad Yoder: chad.yoder@newwavegeo.com

