How to draw an Area of Interest (AOI)

As mentioned in the "What are the data security levels" guide, some asset data is highly sensitive and therefore is given a security level, which determines its visibility. We have four categories of security level, with the majority of data supplied at SL0, but some data is supplied at SL1. This means that to see this data, you must draw an Area of Interest query.

Drawing an AOI has other benefits too:

- You can save the area you have drawn and review it at a later date
- You can view which network utility operators have assets in your AOI, the region, and which may have assets in the area but haven't supplied data to the UAR
- You can print your AOI to PDF and share the AOI with other UAR users

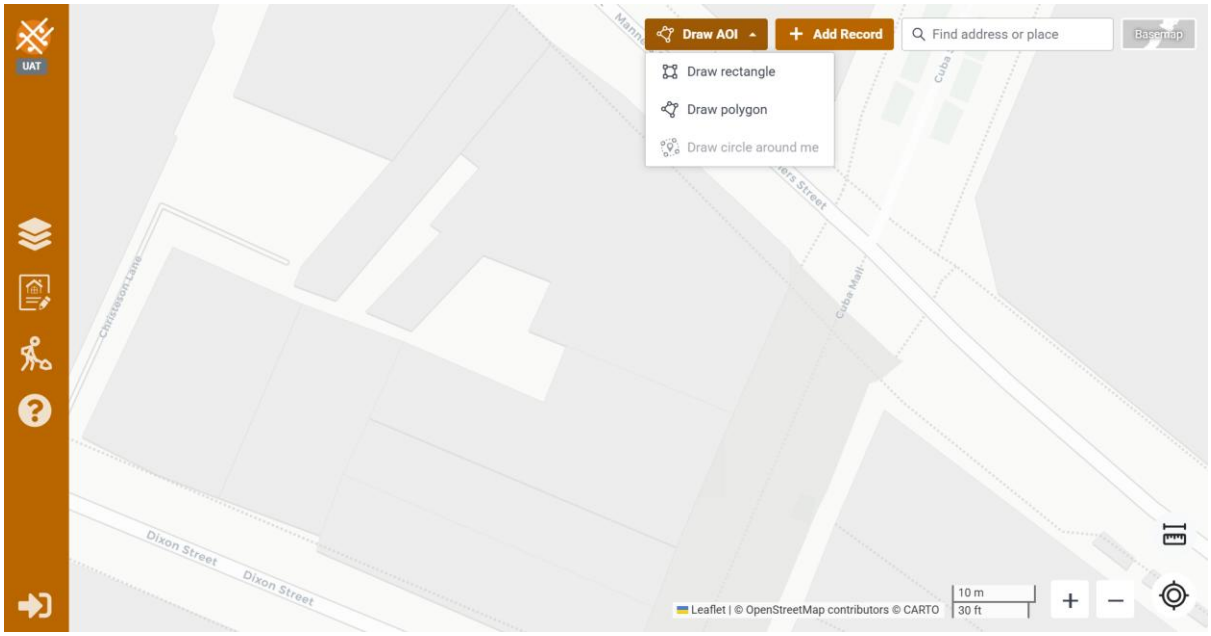
How to draw an Area of Interest (AOI) - DESKTOP

***Note** – you can create AOIs on the mobile and tablet versions of UAR too, instructions for that are further down this page.*

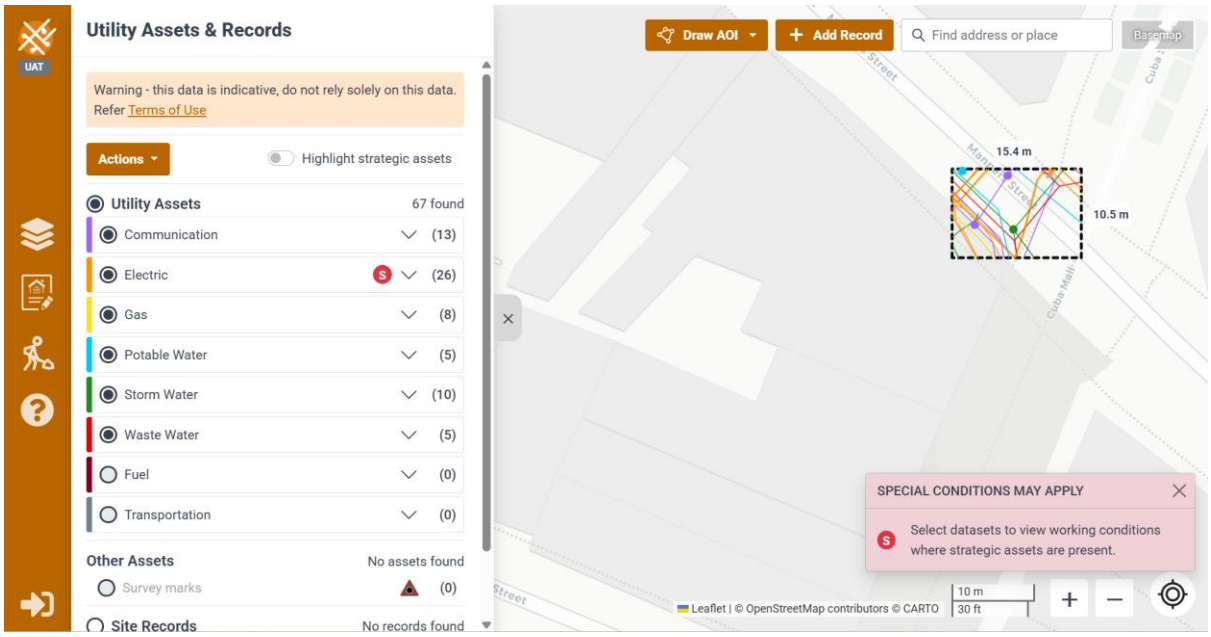
To view all asset data (inc. SL1 data or above) you'll need to create an Area of Interest (AOI). You can create an AOI by selecting the AOI button in the top right of the UAR interface.

You have three options when creating an AOI in the UAR:

- Draw a square-shaped AOI;
- Define a custom polygon AOI; or
- Generate an AOI with a radius around your current location. **Note:** this option requires location permissions to be enabled in your browser (for desktop) or device settings (for mobile).



Once you have defined your AOI on the map, all SL0 and SL1 assets within your AOI will display on the map and will be listed in the 'Utility Assets & Records' panel. The panel displays the total number of assets present within your AOI and provides a breakdown of how many assets belong to each utility asset dataset (e.g. Low Voltage Cable, Medium Voltage Cable, etc.).

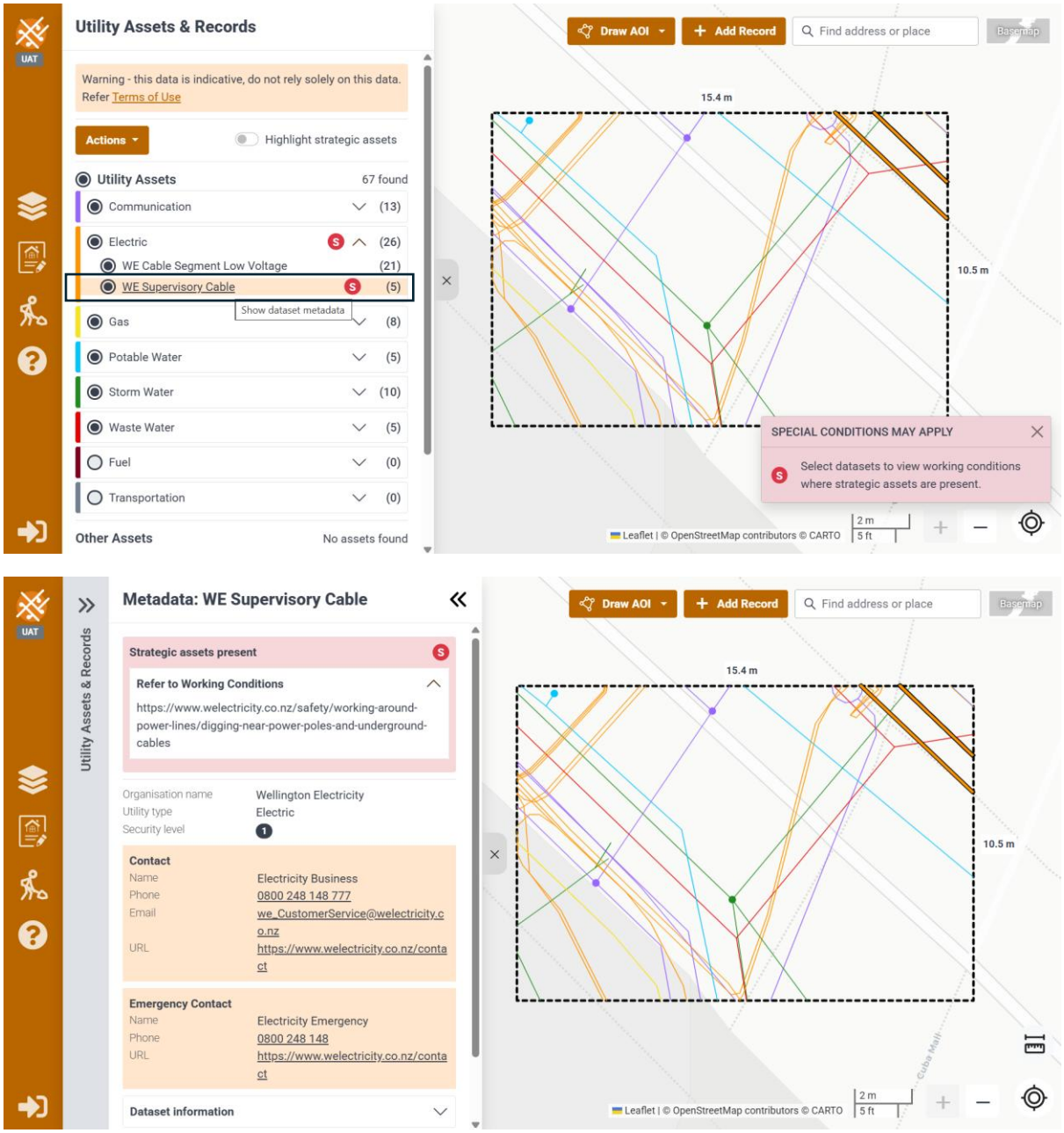


Utility Assets in the UAR are colour-coded based on their asset type – this colour coding is outlined in the 'Utility Assets & Records' panel. You can toggle on/off certain asset types, so that those asset datasets will/won't appear within your AOI. The toggle button is automatically disabled for asset types which are not present within your AOI.

A red **S** indicates that there are strategic assets of this asset class within your AOI. You will also see a pop-up box in the bottom right corner, indicating that there are strategic assets present and these may have working conditions associated with them.

You can drill down into the assets by expanding the asset type box on the left. If you hover over the asset name, the matching asset on the map will highlight.

If you click on the asset name, it will bring up the metadata and you will be able to see any associated working conditions.

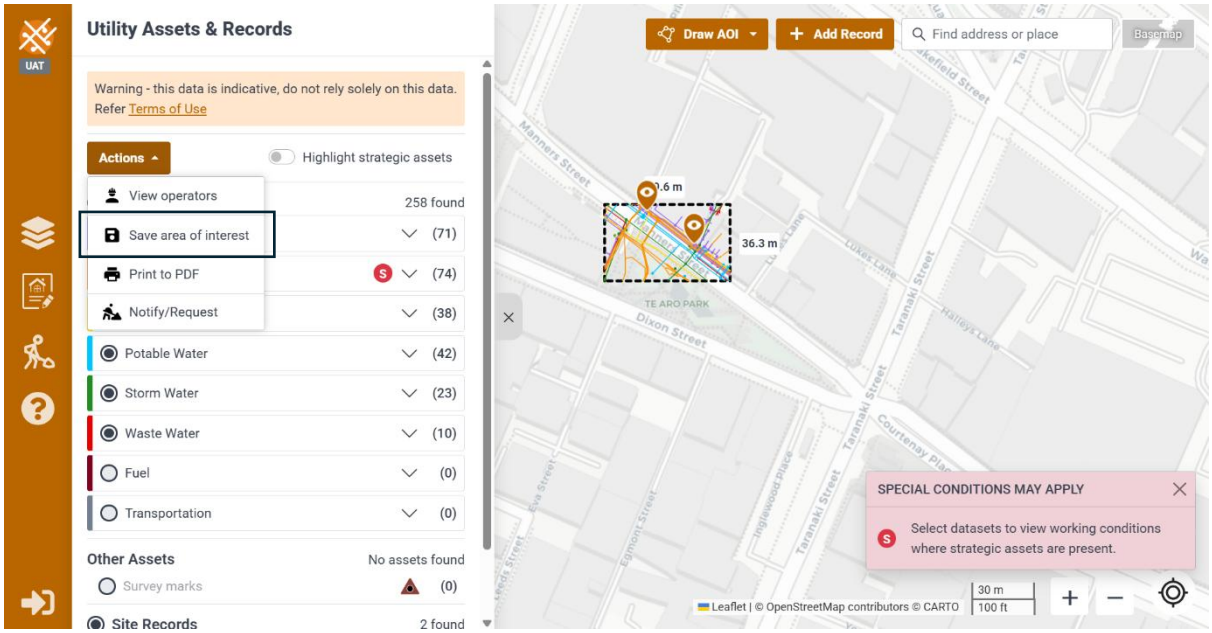


From your Utility and Assets data panel, you can also perform the following functions by clicking on the Actions button:

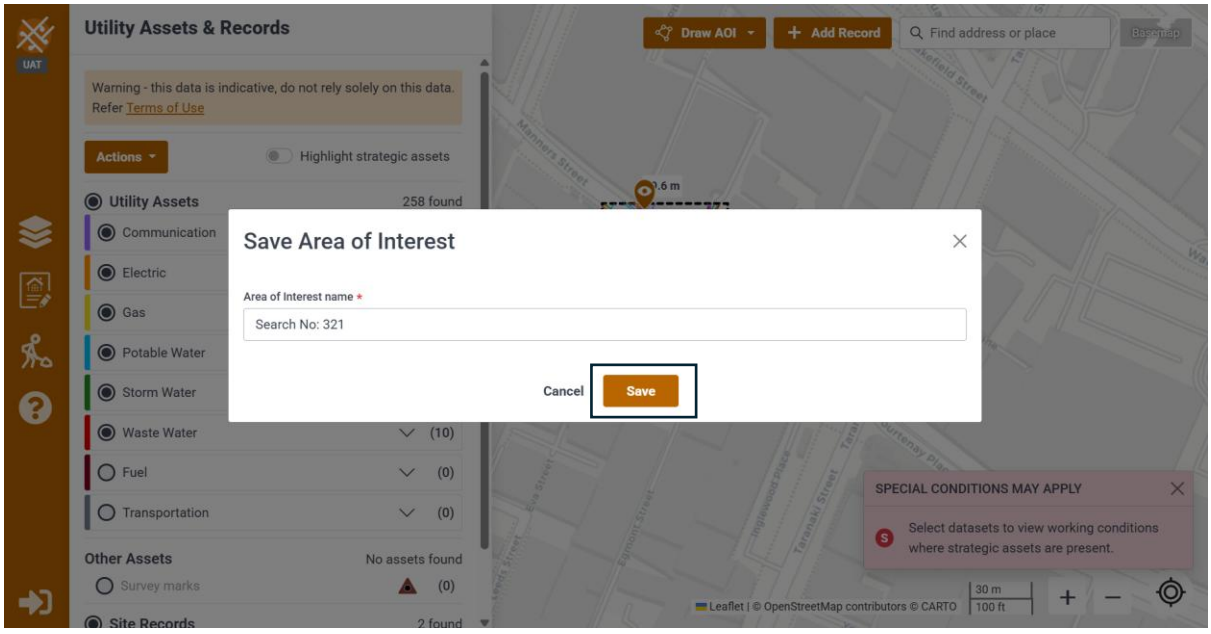
- Save your AOI so you can return to it at a later date
- View what network utility operators have assets in your AOI, your region, and which network utility operators may have assets in the area but have not supplied data to UAR
- Print your AOI to PDF

Saving your Area of Interest

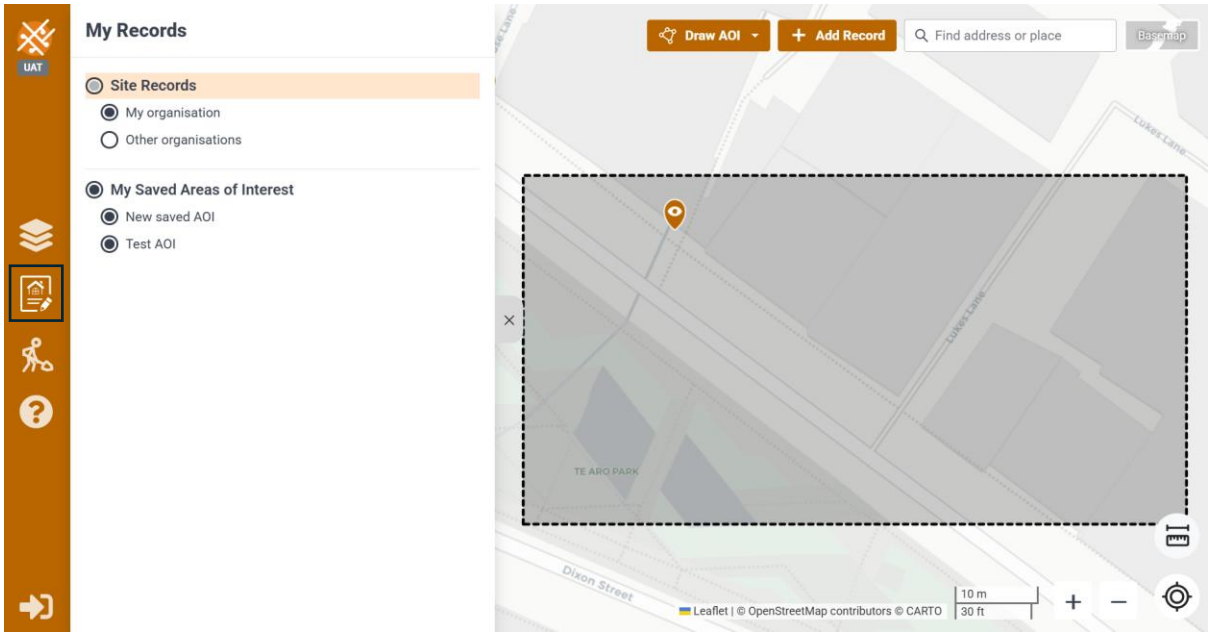
To save your AOI, click on the Actions button on the Utility Assets & Records panel and select ‘Save area of interest':



A pop-up box will appear – give your AOI a name and click ‘save’



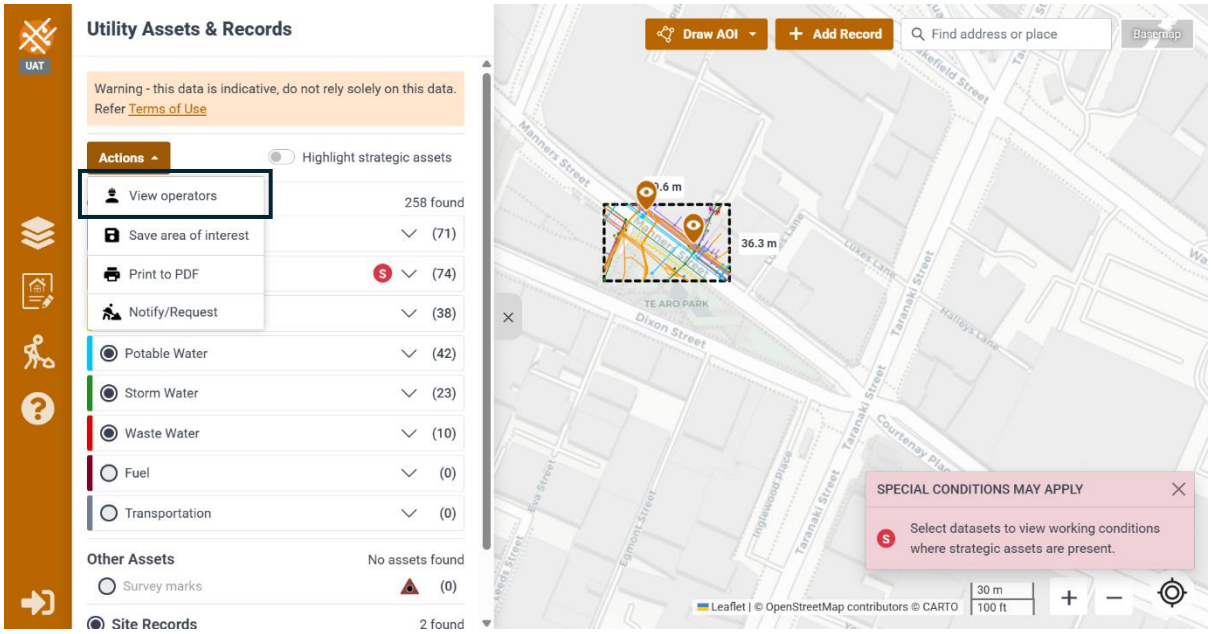
You can access your saved AOI in the “My Records Panel”.



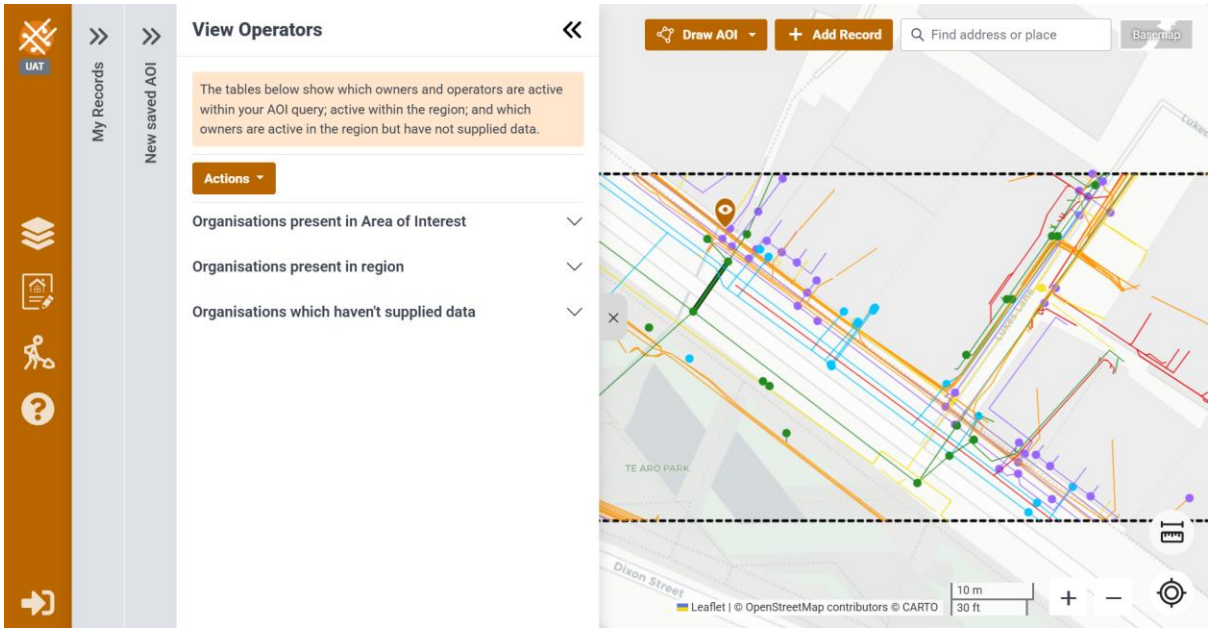
Viewing the details of the network utility operators in your AOI

You can see the contact details for which network utility operators (NUOs) are active in your AOI, within the region that your AOI is in, and which NUOs are active in the region but have not provided data to the Underground Asset Register.

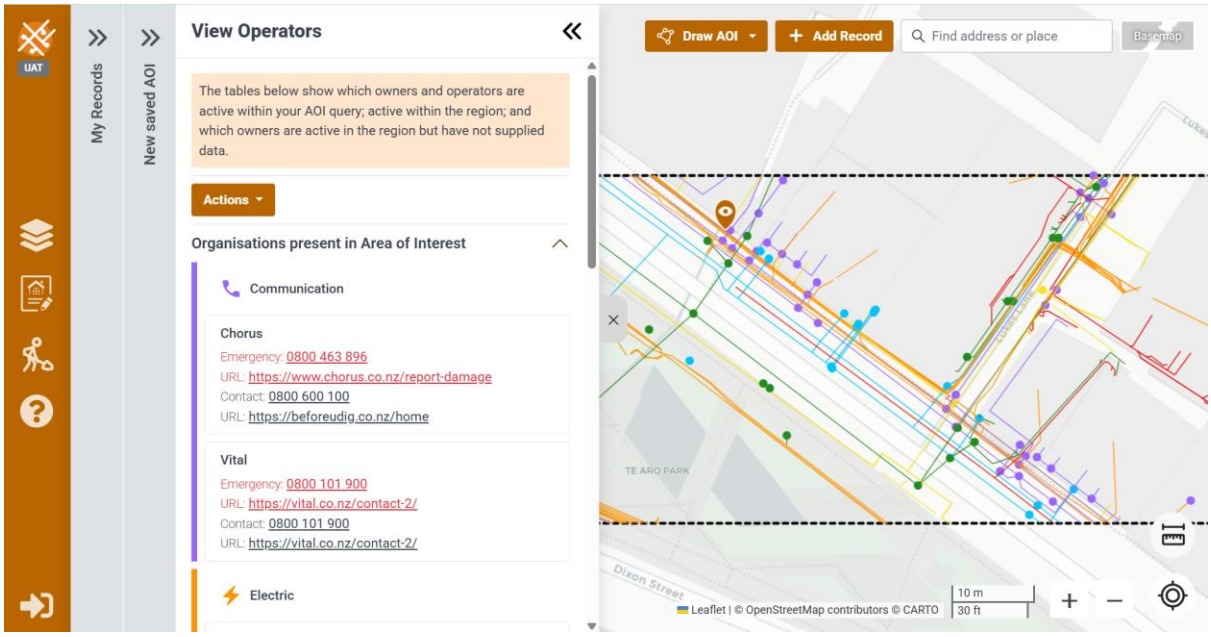
Once you have drawn your AOI, click on the Actions button on the Utility Assets & Records panel and select 'View Operators'



This will bring up a new panel 'View Operators'.



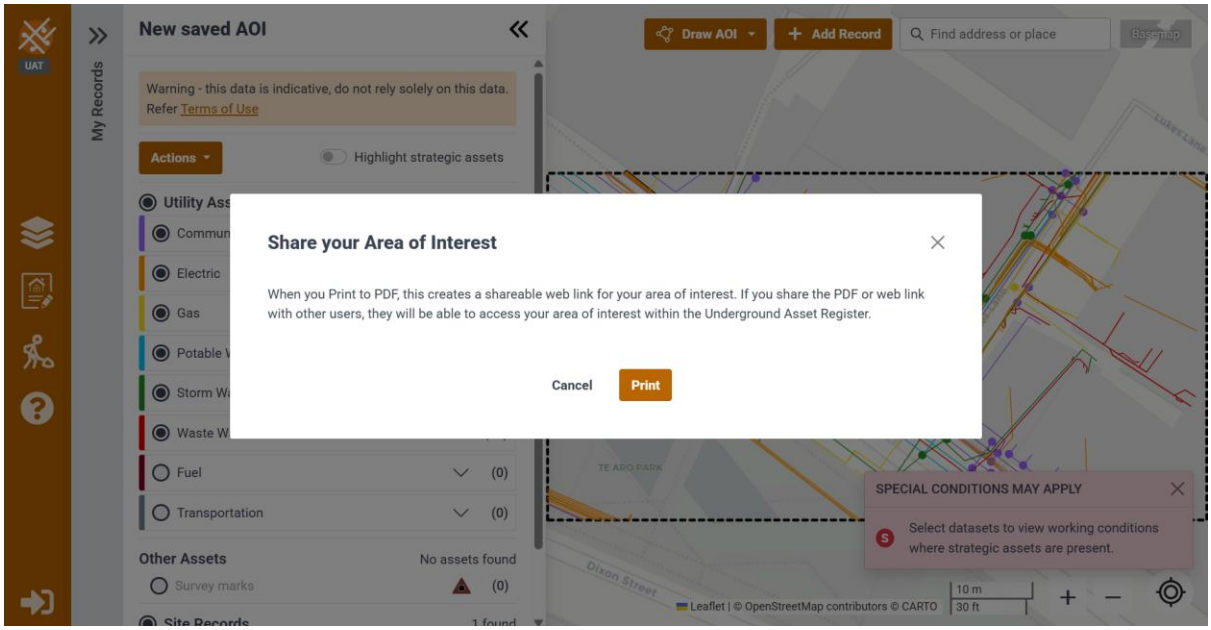
Each section is expandable, so you can click the text to expand the information.



Print your AOI to PDF

You can print your AOI to PDF, which also creates a sharable URL for your AOI. This can be copied and emailed to others so they can view your AOI.

To print to PDF, click on the Actions button and select ‘Print to PDF’. This will bring up a modal to warn you that printing will cause the AOI to be accessible to others.



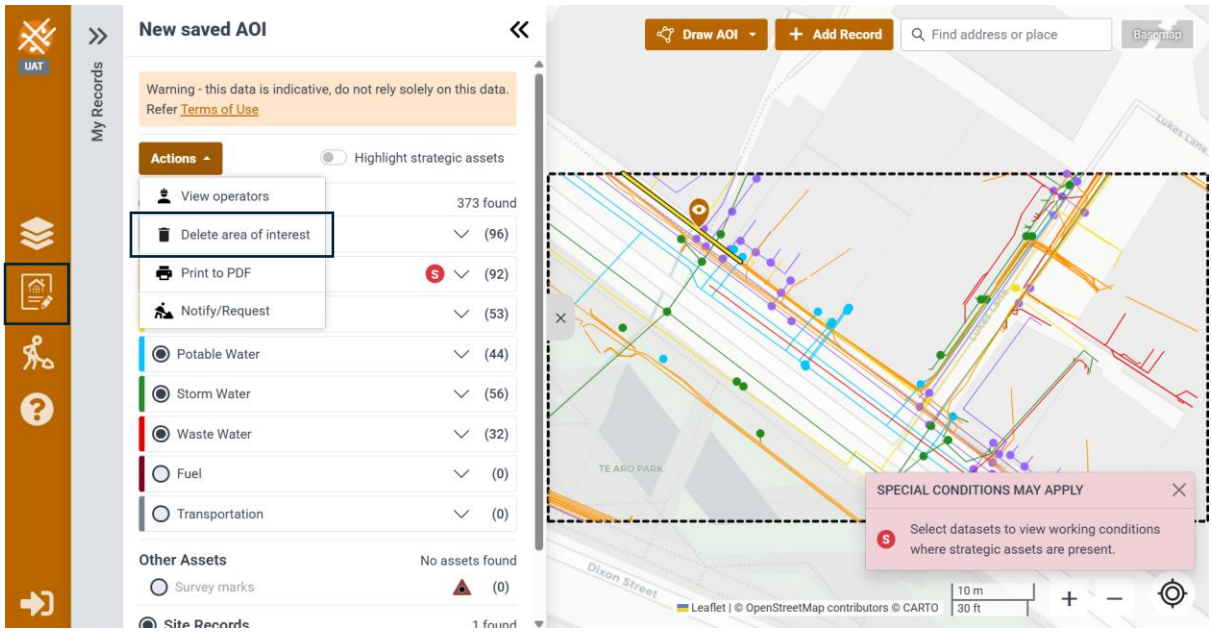
If you click Print, this will download your AOI, and it will be accessible in your downloads folder.

Deleting your AOI

If your AOI list becomes a bit crowded, you can delete your saved AOIs.

Access your AOI from the My Records panel, then click on the Actions button. Here you'll see a 'Delete area of interest' button. Select this button to delete your AOI.

***Note** – you are not able to delete an AOI that has been printed, as other users may be relying on the AOI for their excavations. The delete button will be disabled for AOIs that have been printed.*



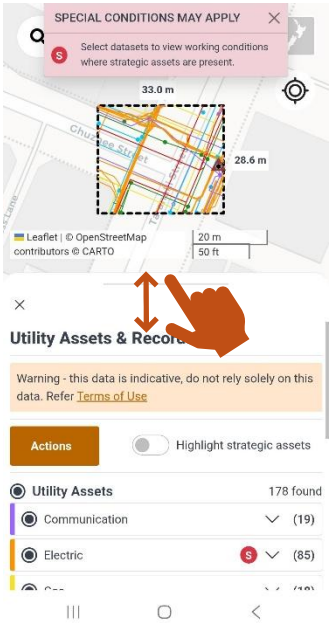
Viewing restricted data via Area of Interest - MOBILE/TABLET

Top tip *– ensure you are already zoomed in and located above where you want to draw an AOI, as it can be tricky zooming and creating an AOI at the same time.*

Select the 'Draw AOI' button on the homescreen once you have logged in. You will be presented with 3 options: draw a rectangle, draw a polygon, or draw a circle around your location. The third option will require your GPS location to be turned on and permissions given to UAR.

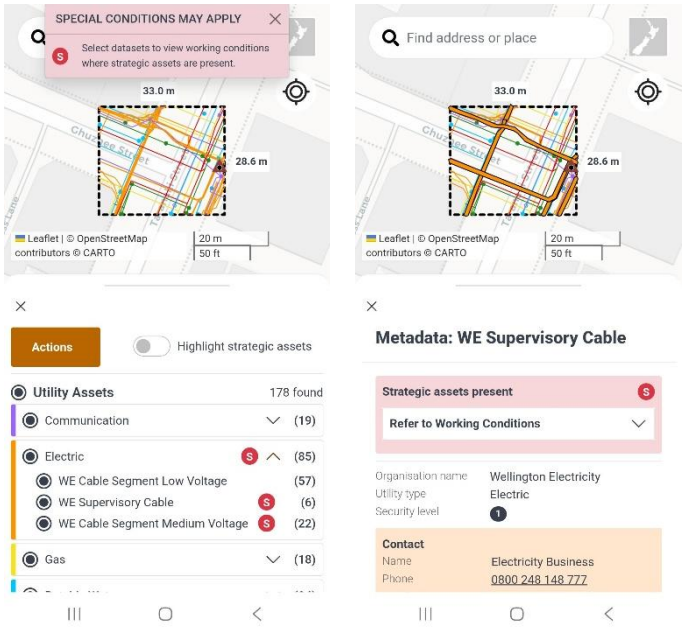
To draw a rectangle, place one finger on the map and drag it outwards.

To draw a polygon, select points on the map, this will create a shape for you.



Once you have drawn your shape, the Utility Assets & Records panel will appear.

Top tip *– if you press and hold on the grey bar, you can drag it up and down to see more of the map/more of the panel.*



From here you can scroll the panel and view what assets are in your AOI, as well as any working conditions or strategic assets. Just click on the asset name and it will bring up the metadata panel.

Remember - anything with a red **S** on it means there are strategic assets present and these may have working conditions associated with them.

Viewing the details of the network utility operators in your AOI

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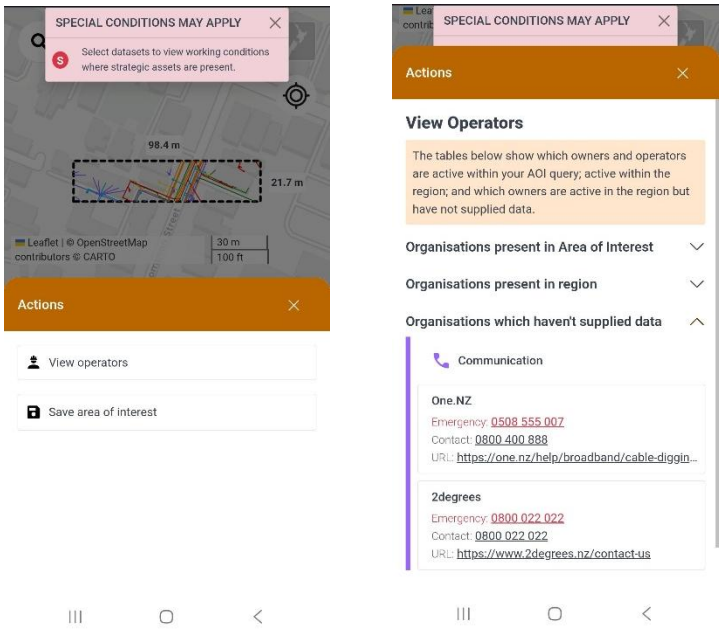
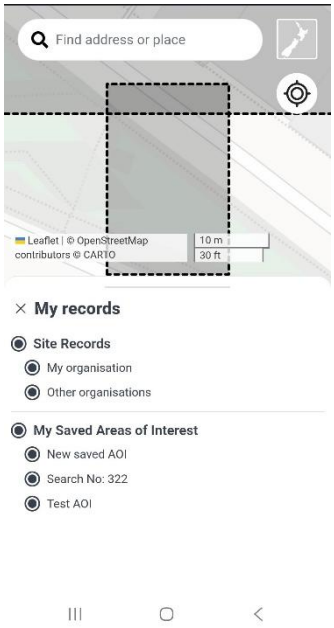


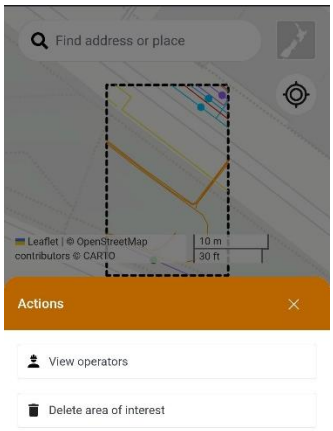
***Top tip** – it's easier to view this page if you click and hold on the grey bar on the Utility Assets panel and pull the panel up. This will make the Actions panel full screen, and enable a better view of the View Operators panel.*

Saving your Area of interest

Once you have drawn your AOI, click on the Actions button and select 'Save Area of interest. Give the AOI a name and click save. It will appear in your 'My Records' panel.



Deleting your saved AOI



Click on 'My Records' and find the AOI you want to delete. If you click on it, then click the Actions button, you'll see the option to delete your saved AOI.

***Note** – you cannot delete an AOI which has been printed to PDF. AOIs on mobile are the same as your AOIs you created on the desktop – but you can only print to PDF on the desktop version of UAR.*

If you have any questions, don't hesitate to contact us:
support@nzuar.org.nz