



# AsCAP

## *Application User Guide*

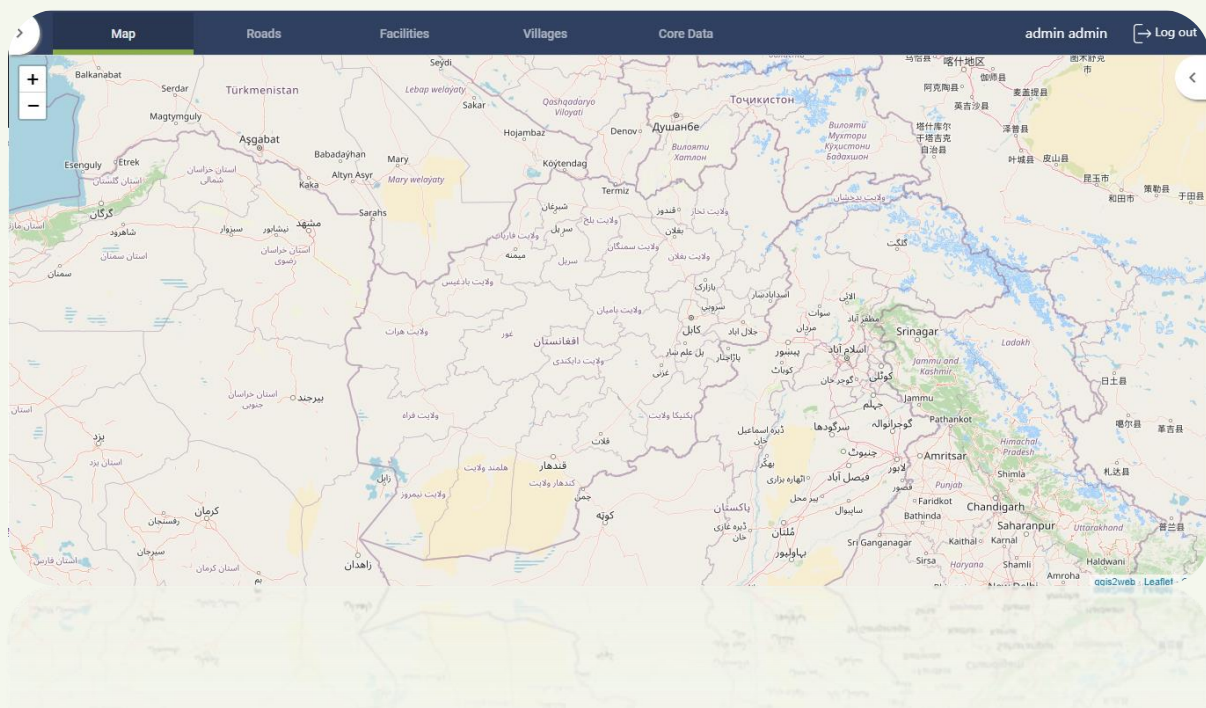
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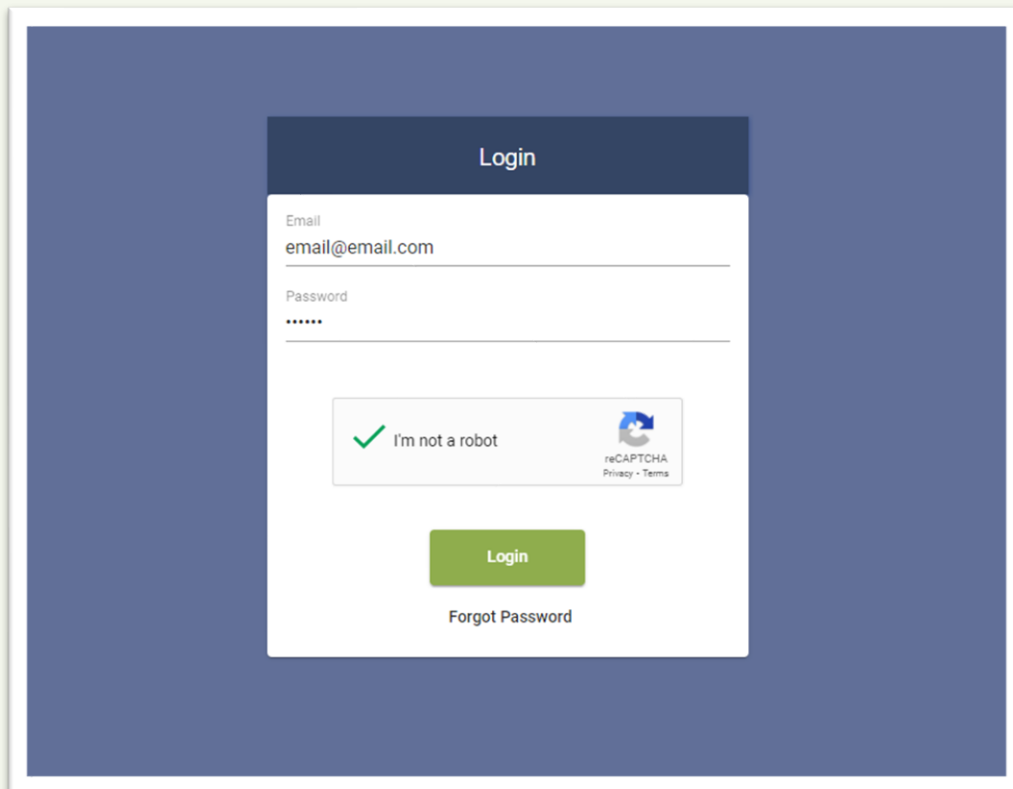
## INTRODUCTION

**AsCAP GIS** toolkit is a user friendly web based application, that provides the best solution for evaluation and prioritizing Afghan tertiary roads. The toolkit combines specific data and parameters for each selected geo area. Using this application, the user can easily navigate through the maps of Afghanistan per district, in order to gain valuable information regarding rural roads, villages and facilities, such as Education Centers, Government Offices etc. This user guide consists of useful guidelines about every function tab provided by the application toolkit.



## LOGIN / FORGOT PASSWORD

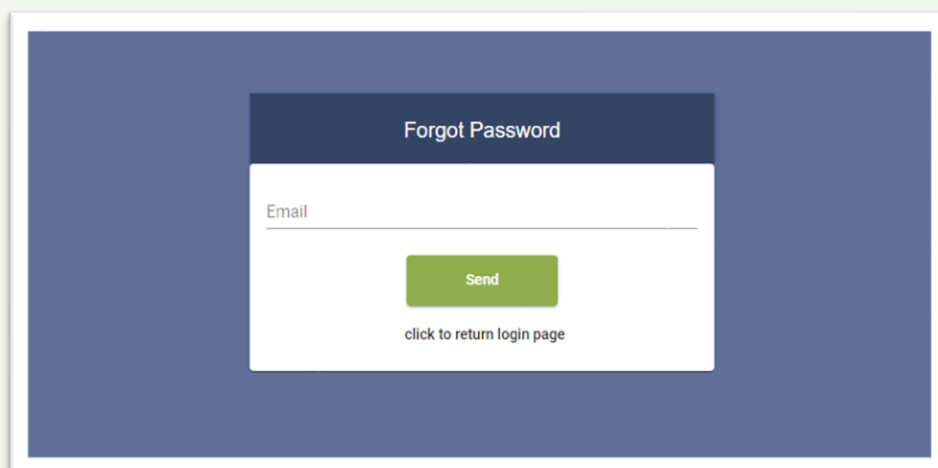
User is able to login the application using email and password and captcha code.



The screenshot shows a login form titled "Login" on a dark blue background. The form is white and contains the following elements:

- Email:** A text input field with the placeholder "email@email.com".
- Password:** A text input field with masked characters "\*\*\*\*\*".
- reCAPTCHA:** A checkbox labeled "I'm not a robot" with a green checkmark icon, and a reCAPTCHA logo with links for "Privacy" and "Terms".
- Login Button:** A green button labeled "Login".
- Forgot Password:** A text link labeled "Forgot Password" located below the Login button.

In case of forgotten password user can ask to receive a new one via email with "Forgot Password" button

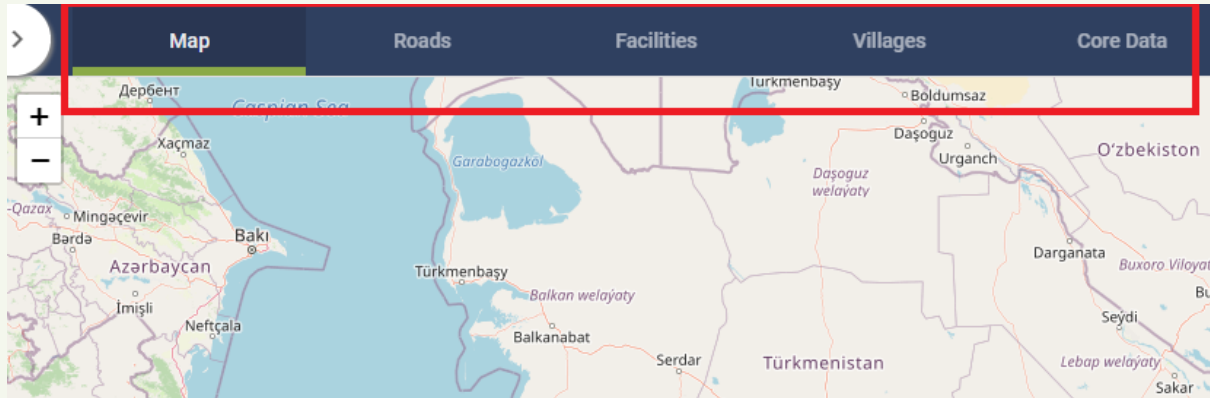


The screenshot shows a "Forgot Password" form on a dark blue background. The form is white and contains the following elements:

- Email:** A text input field with the placeholder "Email".
- Send Button:** A green button labeled "Send".
- Return Link:** A text link labeled "click to return login page" located below the Send button.

## MAIN MENU

The main menu bar consists of the following tabs:



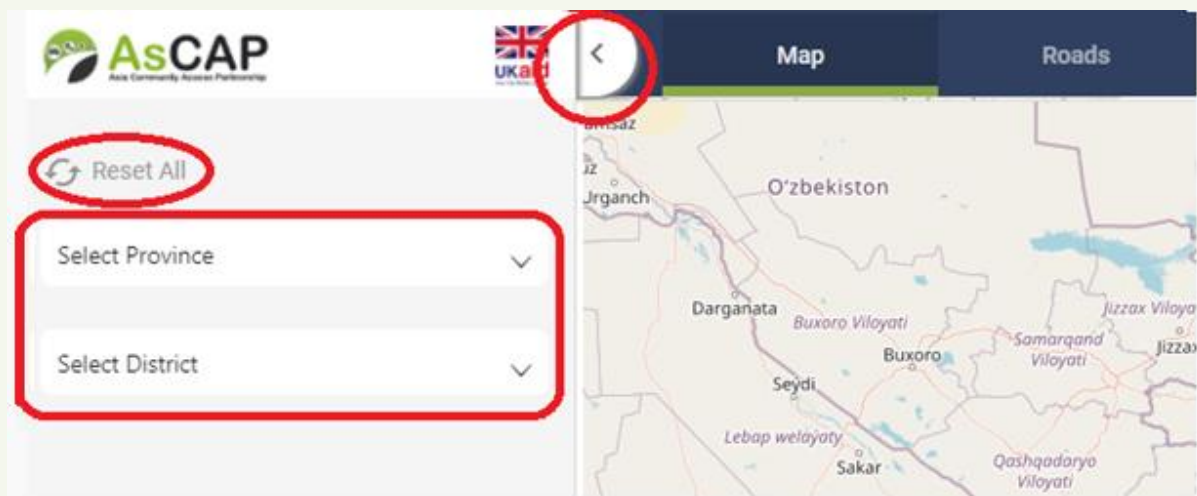
## MAP

The tab “Map” menu option displays a geographical view of a selected area (District)

A map of Afghanistan appears at the main screen of the application at the right side of the screen.

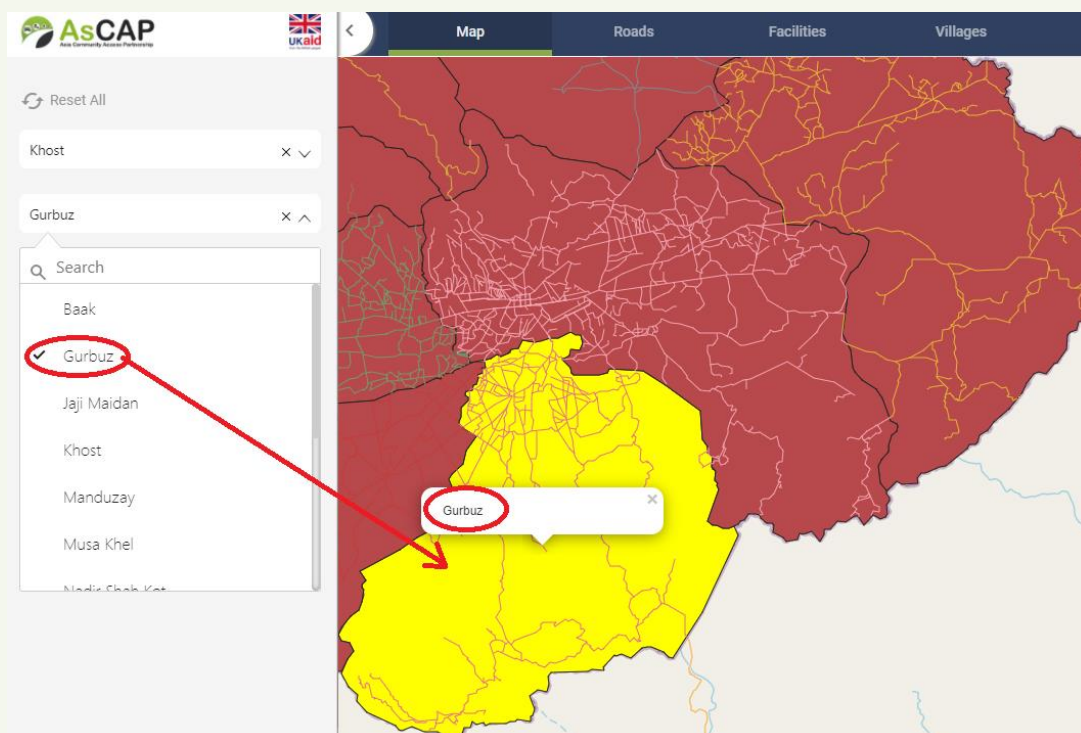
On the **left side of the map**, there is a side navigation arrow that reveals two dropdown selection menus, where the user can define data filters such as Province and/or District, in order to spot them on the map.

Furthermore, there is a “Reset all” button above the selection menus, which allows the user to reset all previous selections.



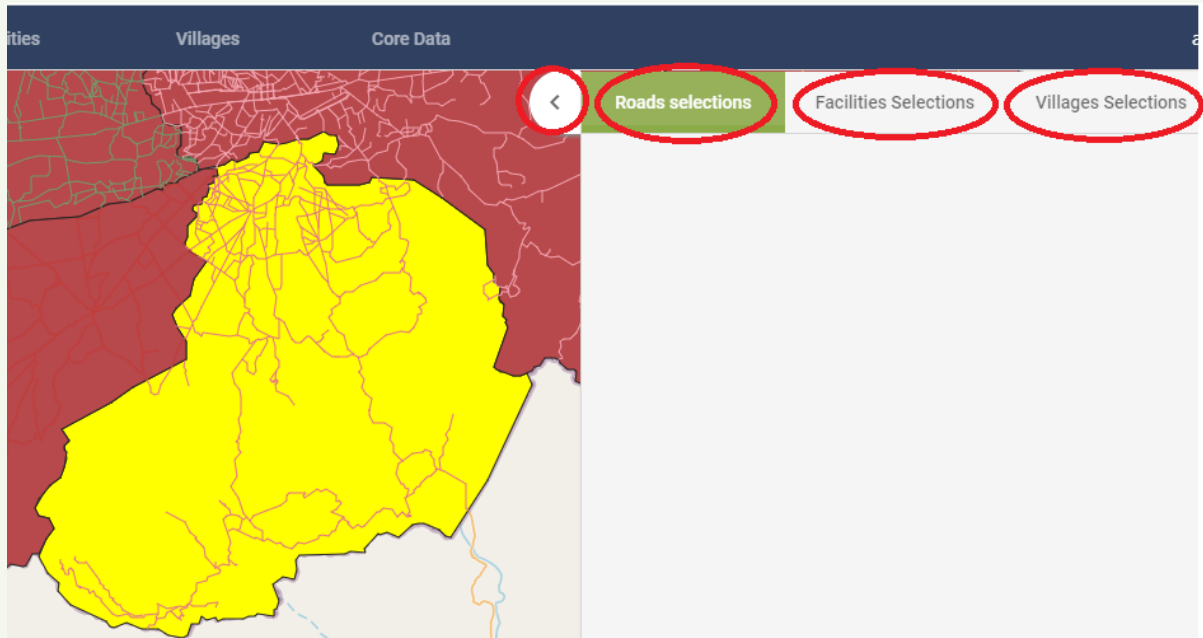
When the user selects a Province and/or District from the menu, then display it on the map.

Every time a neighborhood changes, all the old options are cleared e.g. Roads Selections.



**\*Note:** The selected Province/District appears to have a characteristic color. (Province->Brown, District->Yellow)

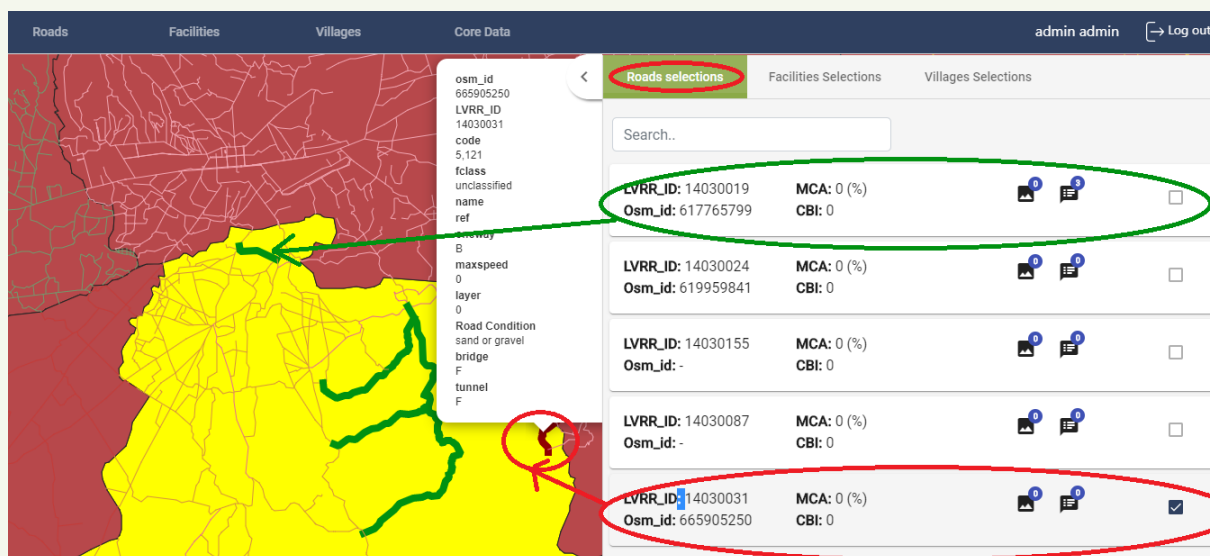
On the **right side** of the map, there is a side navigation arrow that reveals a new bar with three tabs:



*\*note: which will either open manually by clicking on the arrow or automatically. It will open automatically when the user logs in to the system for the first time and selects a roads from the selected district then the right menu will automatically open with the user's first choice being registered.*

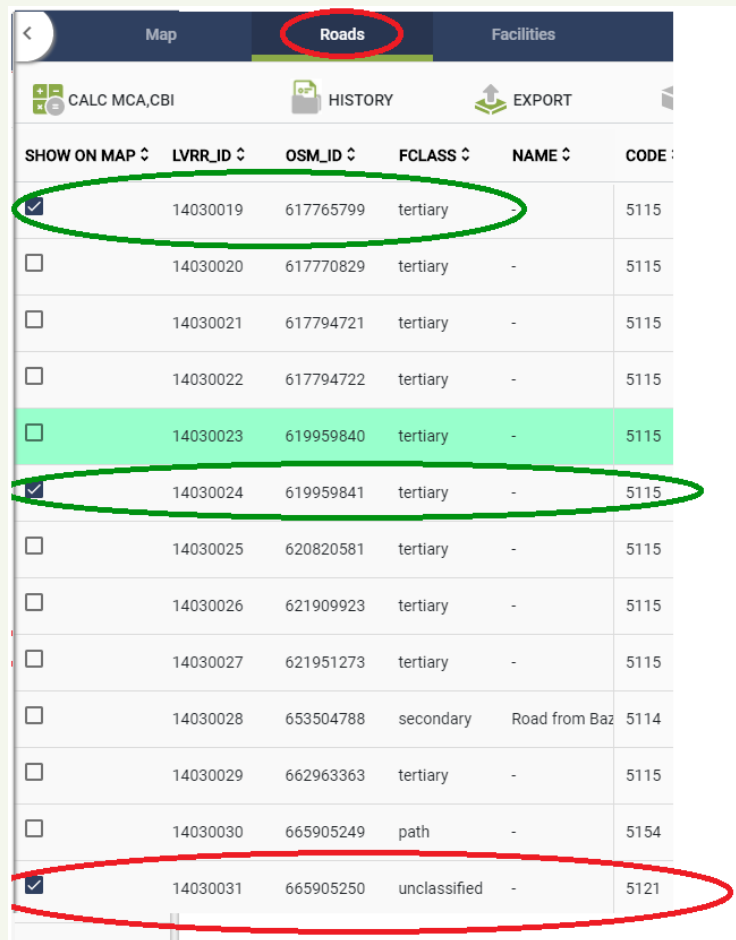
The “**Road Selections**” tab shows selected roads for map display. Roads can be selected by the Main Menu “Roads” tab or directly on the map screen.

### 1. Select roads from map



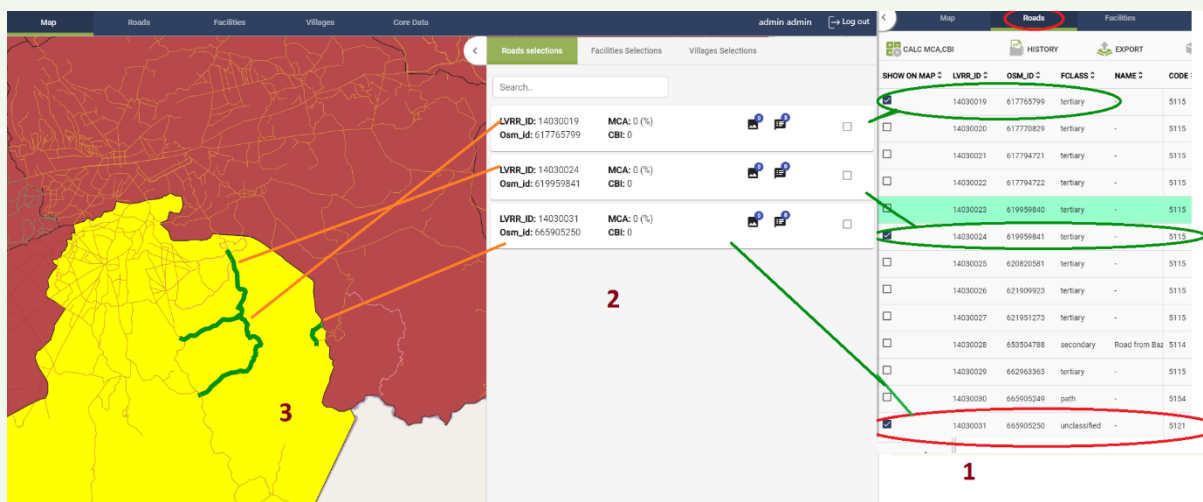


## 2. Select roads from “Roads” tab



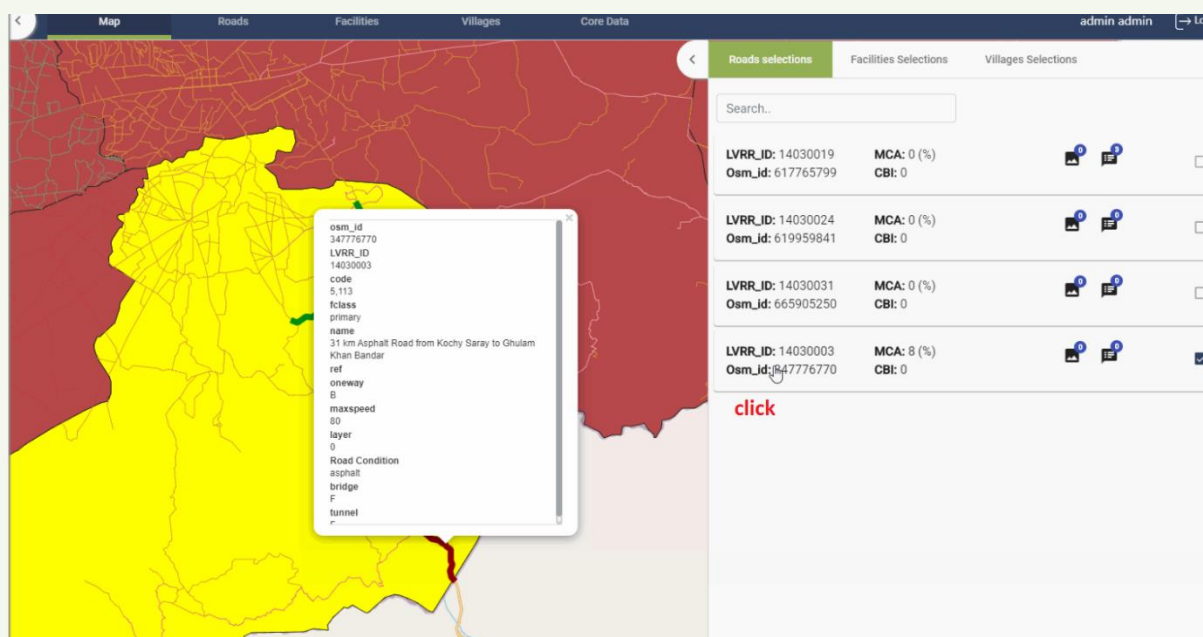
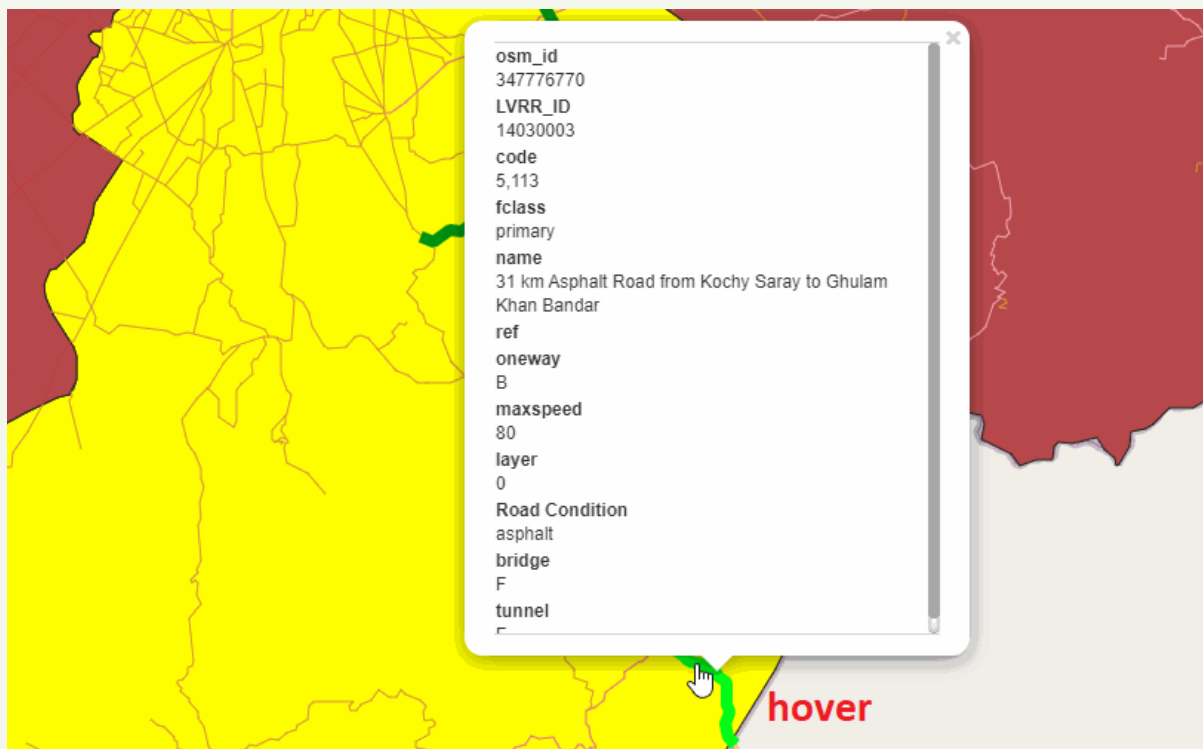
SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	CODE
<input checked="" type="checkbox"/>	14030019	617765799	tertiary	-	5115
<input type="checkbox"/>	14030020	617770829	tertiary	-	5115
<input type="checkbox"/>	14030021	617794721	tertiary	-	5115
<input type="checkbox"/>	14030022	617794722	tertiary	-	5115
<input type="checkbox"/>	14030023	619959840	tertiary	-	5115
<input checked="" type="checkbox"/>	14030024	619959841	tertiary	-	5115
<input type="checkbox"/>	14030025	620820581	tertiary	-	5115
<input type="checkbox"/>	14030026	621909923	tertiary	-	5115
<input type="checkbox"/>	14030027	621951273	tertiary	-	5115
<input type="checkbox"/>	14030028	653504788	secondary	Road from Baz	5114
<input type="checkbox"/>	14030029	662963363	tertiary	-	5115
<input type="checkbox"/>	14030030	665905249	path	-	5154
<input checked="" type="checkbox"/>	14030031	665905250	unclassified	-	5121

By selecting roads from the “roads” tab then going back to the map the user can see his specific selections on the map. Also this roads is registered in the “road selections”.





By hover with cursor on the selected road from the map (*green color*) or from the “road selections” tab , displays a popup with additional information about this road.

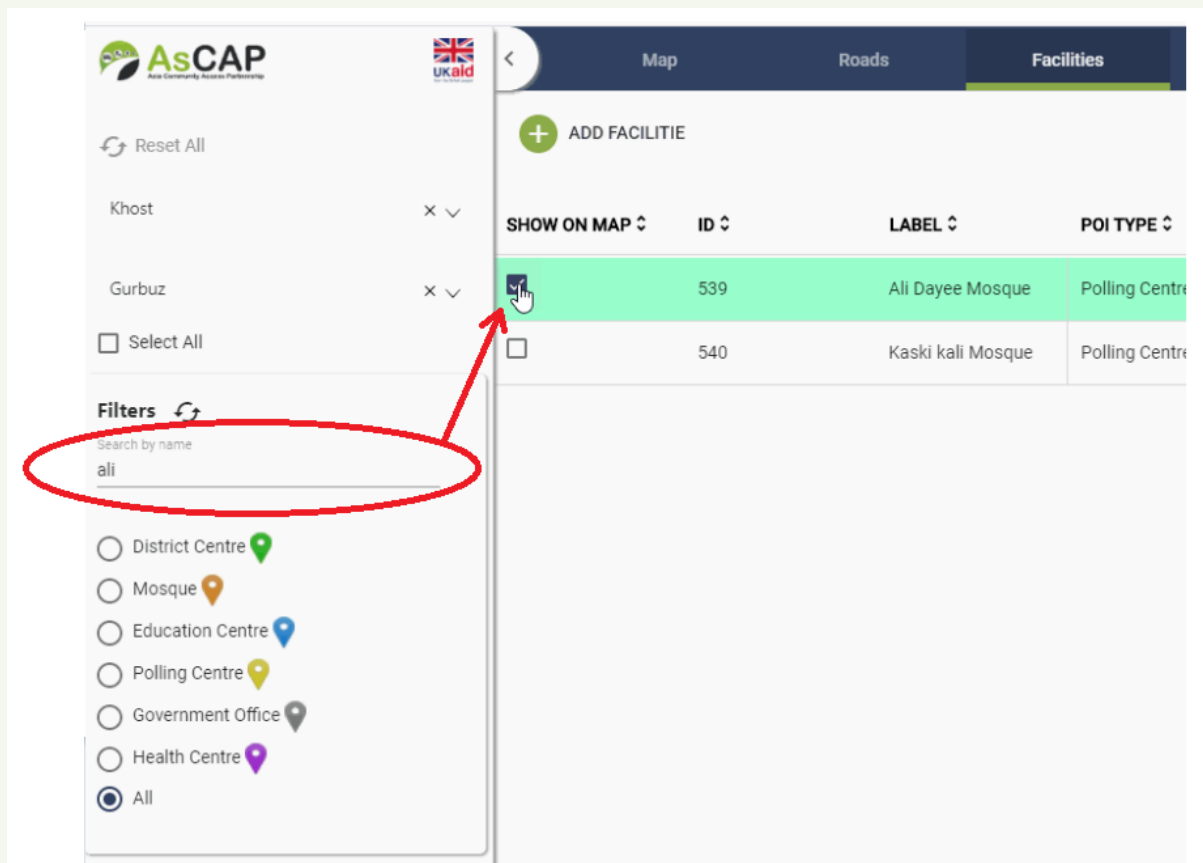


**Unselect road:**

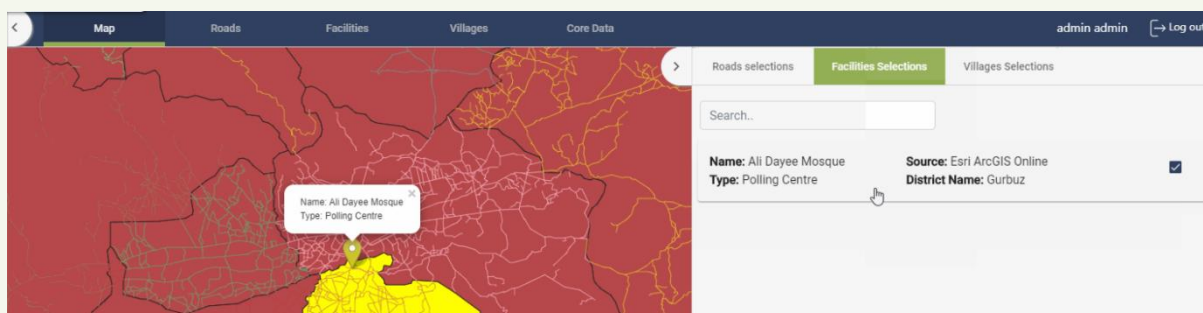
the user by clicking on a road he has selected previously (color: green) directly from the map or from the “roads” tab then this road is deleted from the user's selections.

**“Facilities Selections”** tab displays facilities selected by the Main Menu “Facilities” tab.

The user can select a facility from the facilities tab ,as we will see later in a separate section in more detail, then this facility will appear on the map with its own unique marker depending on its type.



*\*Going back to the map via the main menu “map” tab the user selections will be imprinted on the map*



When the user clicks on the marker or clicks on the specific facility from the “facilities tab” then a popup window appears with additional information on the map.

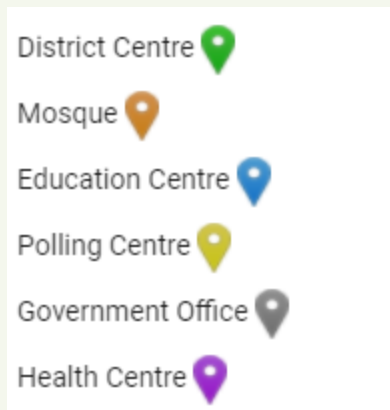
*Unselect facility:*

the user can delete a selection of facility from the map from the “facilities” tab.


The screenshot shows the AsCAP web application interface. The top navigation bar includes tabs for Map, Roads, Facilities (selected), and Villages. The left sidebar contains a 'Reset All' button and a list of filters: Khost, Gurbuz, and Select All. Below the filters is a section for 'Layers' with a refresh icon and a search bar. The main content area displays a table of facilities with columns: SHOW ON MAP, ID, LABEL, POI TYPE, and E. The table lists two facilities: Ali Dayee Mosque (ID 539, Polling Centre) and Kaski kali Mosque (ID 540, Polling Centre). The first facility is highlighted in green, and a hand icon indicates it is being interacted with. Below the table is a map view showing the geographical location of the facilities.

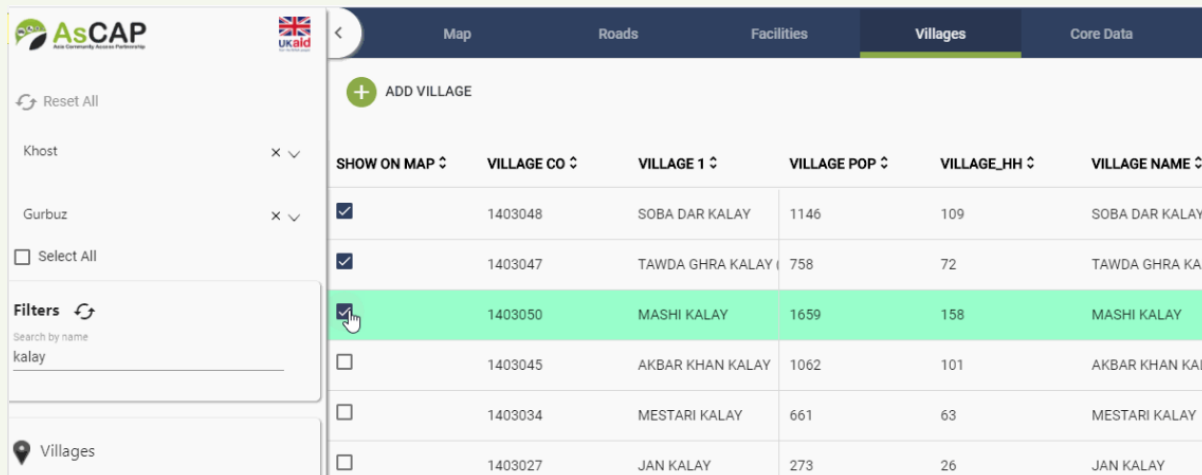
SHOW ON MAP	ID	LABEL	POI TYPE	E
<input checked="" type="checkbox"/>	539	Ali Dayee Mosque	Polling Centre	6
<input type="checkbox"/>	540	Kaski kali Mosque	Polling Centre	6

The facilities are marked with a different marker on the map, as shown here:



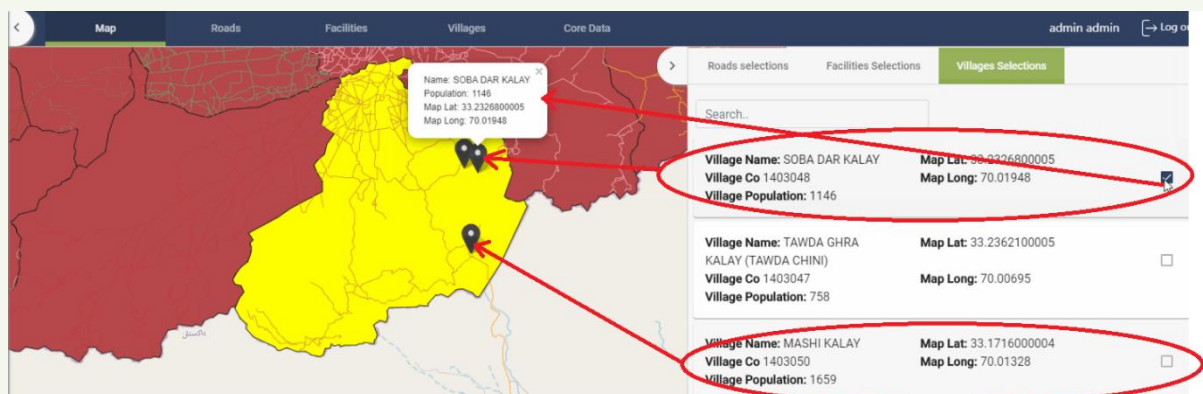
“Villages Selections” tab displays villages selected by the main menu villages tab.

The user can select a village from the “villages tab”, as we will see later in a separate section in more detail, then this village will appear on the map with its own unique marker .



SHOW ON MAP	VILLAGE CO	VILLAGE 1	VILLAGE POP	VILLAGE_HH	VILLAGE NAME
<input checked="" type="checkbox"/>	1403048	SOBA DAR KALAY	1146	109	SOBA DAR KALAY
<input checked="" type="checkbox"/>	1403047	TAWDA GHRA KALAY	758	72	TAWDA GHRA KAI
<input checked="" type="checkbox"/>	1403050	MASHI KALAY	1659	158	MASHI KALAY
<input type="checkbox"/>	1403045	AKBAR KHAN KALAY	1062	101	AKBAR KHAN KAL
<input type="checkbox"/>	1403034	MESTARI KALAY	661	63	MESTARI KALAY
<input type="checkbox"/>	1403027	JAN KALAY	273	26	JAN KALAY

*\*Going back to the map via the main menu “map” tab the user selections will be imprinted on the map*

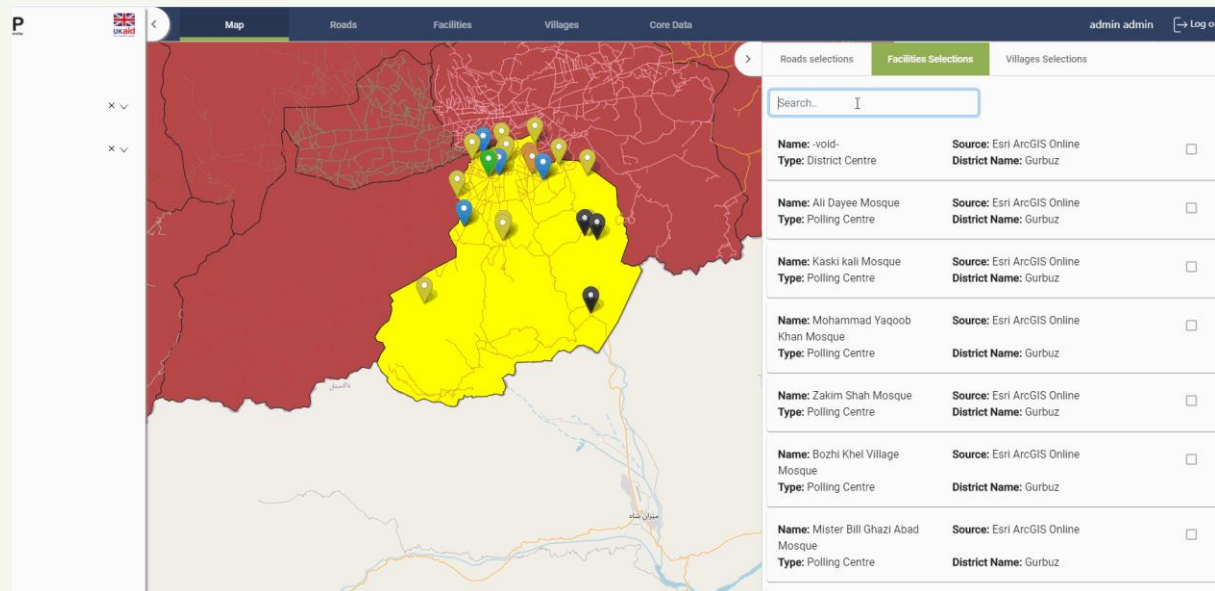


When the user clicks on the marker or clicks on the specific village from the “villages” tab then a popup window appears with additional information on the map.

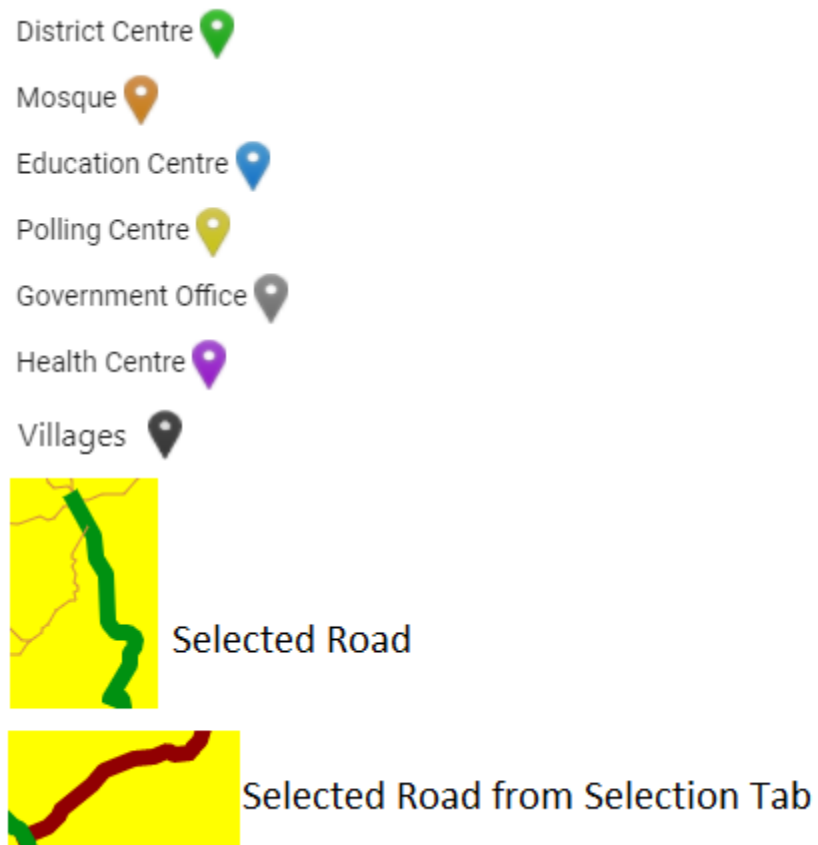
*Unselect village: in the same way we do unselect a facility..*

**\*\***A search bar appears bellow every tab.

Each selected tab allows the user to select a specific checkbox (selection), in order for it, to appear through a popup on the main map screen.



*\*Note: Different kinds of selections appear with different matching colors on the map screen.*



## ROADS

The tab “Roads” of the Main Menu provides the following selections:

SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	CODE	LAYER	REF	MAXSPEED	ONEWAY	BRIDGE
<input type="checkbox"/>	14030001	79442330	unclassified	-	5115	5	NRV260624	45	B	T
<input type="checkbox"/>	14030002	347776695	primary	Road from Koc	5113	0	-	86	F	F
<input type="checkbox"/>	14030003	347776770	primary	31 km Asphalt	5113	0	-	80	B	F
<input type="checkbox"/>	14030004	386915503	primary	-	5113	1	-	0	F	T
<input type="checkbox"/>	14030005	386915509	secondary	Road from Seg	5114	0	-	80	B	F
<input type="checkbox"/>	14030006	386915530	tertiary	-	5115	0	V260136	40	B	F
<input type="checkbox"/>	14030007	443636824	primary	31 km Asphalt	5113	0	-	80	B	F
<input type="checkbox"/>	14030008	540212701	tertiary	-	5115	0	-	0	B	F
<input type="checkbox"/>	14030009	540212702	tertiary	-	5115	0	-	0	B	F

Opening this tab, the user is able to view and edit a detailed specification of every road contained in the filters selected (Province, District, other filters e.g. Search by name-LVRR\_ID, fclass, one or both ways roads etc.).

Reset All

Khost

Gurbuz

Select All

Filters

Search by name, LVRR\_ID

Road from segy to wales waly tani

Map Roads Facilities Villages

CALC MCA,CBI HISTORY EXPORT IMPORT

SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME
<input type="checkbox"/>	14030005	386915509	secondary	Road from Segy to Wales Waly Tani



More here...

Reset All

Khost

Gurbuz **required field only for roads!**

Select All

Filters

Search by name, LVRR\_ID

fclass search

Oneway

**Both way**

Oneway and Both way

Search by max speed

Having bridge

Without bridge

Both

SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	MAXSPEED	ONEWAY	BRIDGE	
<input type="checkbox"/>	14030001	79442330	unclassified	-	30624	45	B	T
<input type="checkbox"/>	14030071	770567354	primary	31 km Asphalt	80	B	T	
<input type="checkbox"/>	14030073	770567356	primary	31 km Asphalt	80	B	T	
<input type="checkbox"/>	14030075	770567358	primary	31 km Asphalt	80	B	T	
<input type="checkbox"/>	14030077	770567360	primary	Road from Koc	80	B	T	
<input type="checkbox"/>	14030080	772373316	primary	31 km Asphalt	80	B	T	

BOTH WAYS

TRUE

**\*Note:** User can select a checkbox from the column “SHOW ON MAP” and spot the selected matching road on the map screen.

1.

Reset All

Khost

Gurbuz **required field only for roads!**

Select All

Filters

Search by name, LVRR\_ID

fclass search

Oneway

**Both way**

Oneway and Both way

Search by max speed

Having bridge

Without bridge

Both

SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	MAXSPEED	ONEWAY	BRIDGE	
<input checked="" type="checkbox"/>	14030001	79442330	unclassified	-	30624	45	B	T
<input type="checkbox"/>	14030071	770567354	primary	31 km Asphalt	80	B	T	
<input type="checkbox"/>	14030073	770567356	primary	31 km Asphalt	80	B	T	
<input type="checkbox"/>	14030075	770567358	primary	31 km Asphalt	80	B	T	
<input type="checkbox"/>	14030077	770567360	primary	Road from Koc	80	B	T	
<input type="checkbox"/>	14030080	772373316	primary	31 km Asphalt	80	B	T	

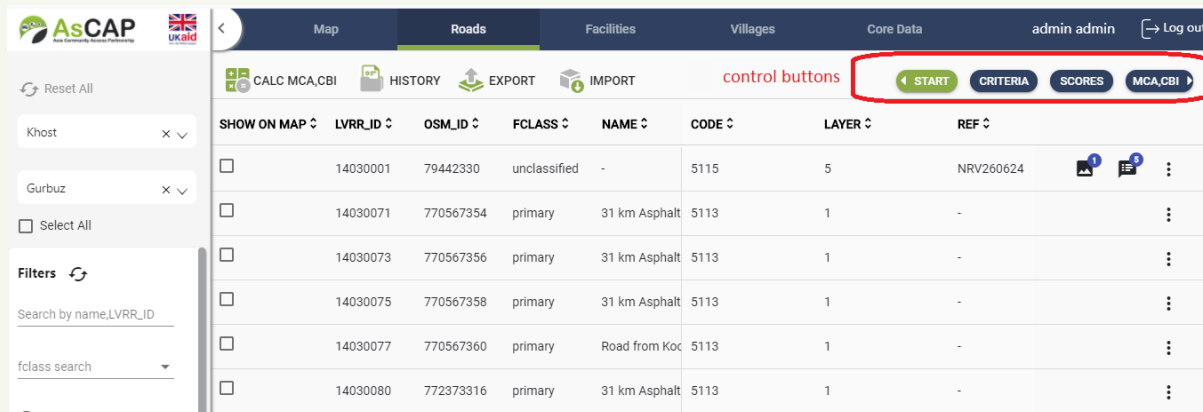
BOTH WAYS

TRUE

More here

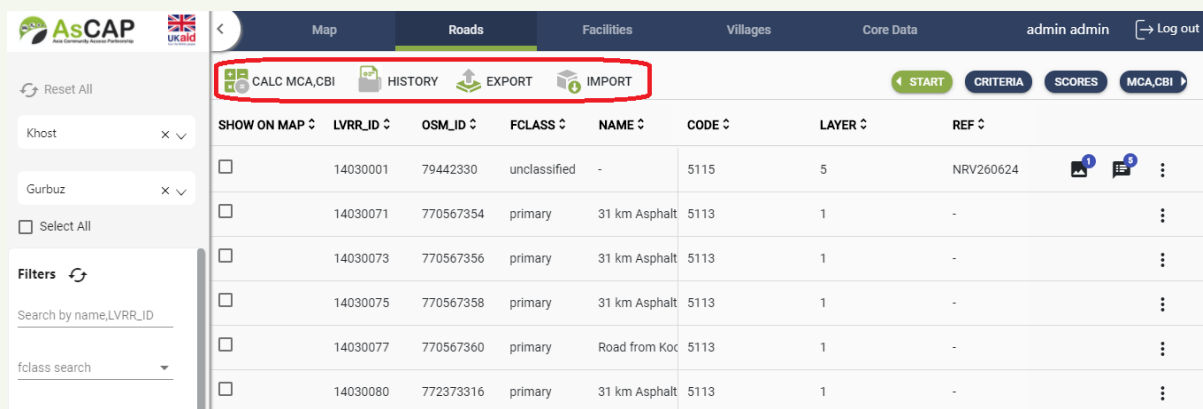


Within the table view of the tab “Roads” there are additional control navigation buttons:



- “START” scrolls the table to the first (initial) data columns.
- “CRITERIA” scrolls the table to specified criteria columns (e.g. population served, facilities served etc.).
- “SCORES” scrolls the table to scores columns (e.g. c1\_score, c2\_score etc.).
- “MCA, CBI” scrolls the table to MCA, CBI rate columns.

Under the “Roads” tab, there are the following functions buttons:



“CALC MCA,CBI” button calculates score columns and mca, cbi rate columns.

The screenshot shows the AsCAP Roads interface. The 'CALC MCA,CBI' button is circled in red. A 'Calculate Criteria' dialog box is open, asking 'This process will calculate criteria score and MCA/CBI rates. Are you sure?'. The 'Take snapshot' checkbox is checked and circled in red. A yellow box highlights the text: 'Snapshot of all the roads showed by selecting a specified District at certain point of time.' Another yellow box highlights the text: 'Snapshot data are recorded to “HISTORY” section.'

SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	CODE	LAYER	REF	MAXSPEED	ONEWAY	BRIDGE
<input type="checkbox"/>	14030001	79442330	unclassified	-	5115	5	NRV260624	45	B	T
<input type="checkbox"/>	14030071	770567354	primary	31 km Asphalt	5113	1	-	80	B	T
<input type="checkbox"/>	14030073	770567356	primary	31 km Asphalt	5113	1	-	80	B	T
<input type="checkbox"/>	14030075	770567358	primary	31 km Asphalt	5113	1	-	80	B	T
<input type="checkbox"/>	14030077								B	T
<input type="checkbox"/>	14030080								B	T

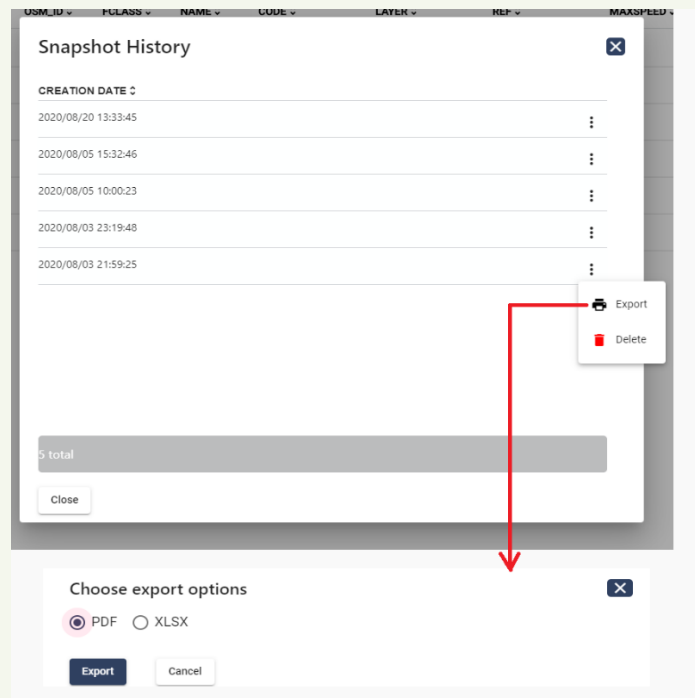
“HISTORY” button keeps data, as saved by the calculations of “CALC MCA, CBI” button (Snapshots are taken at certain points of time. Snapshots can also be exported as PDF or XLSX files, and provide a view of the total number of roads, matching a specified District, without the ability to use filter selections).

The screenshot shows the AsCAP Roads interface. The 'HISTORY' button is circled in red. A 'Snapshot History' dialog box is open, showing a table of snapshots. The 'CREATION DATE' column is circled in red. A yellow box highlights the text: 'Snapshot of all the roads showed by selecting a specified District at certain point of time.'

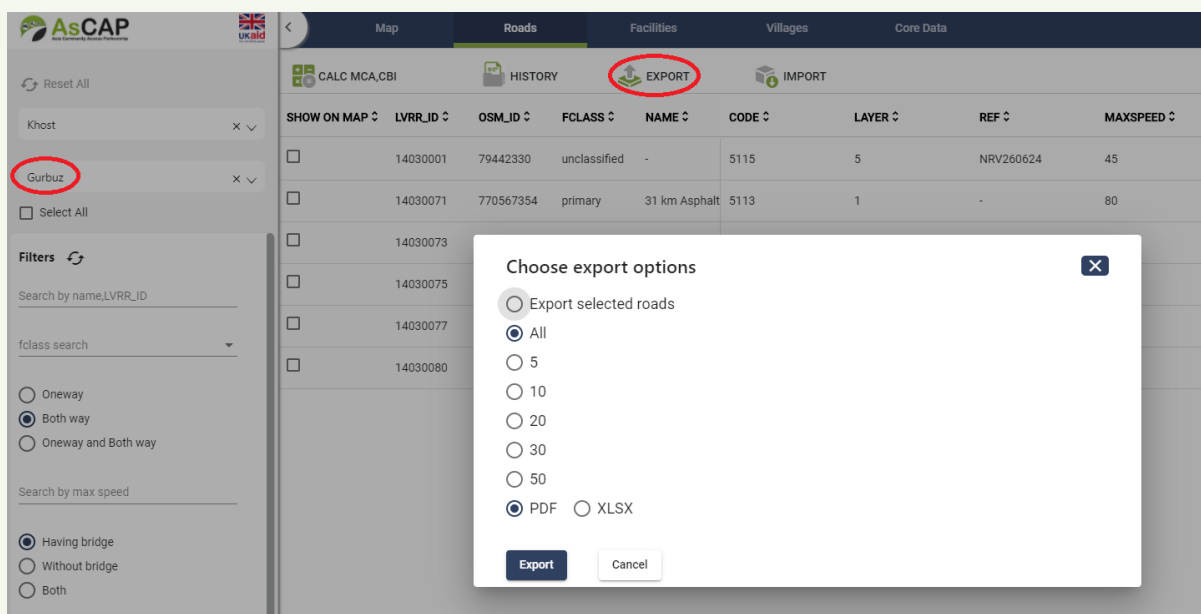
CREATION DATE
2020/08/20 13:33:45
2020/08/05 15:32:46
2020/08/05 10:00:23
2020/08/03 23:19:48
2020/08/03 21:59:25

5 total

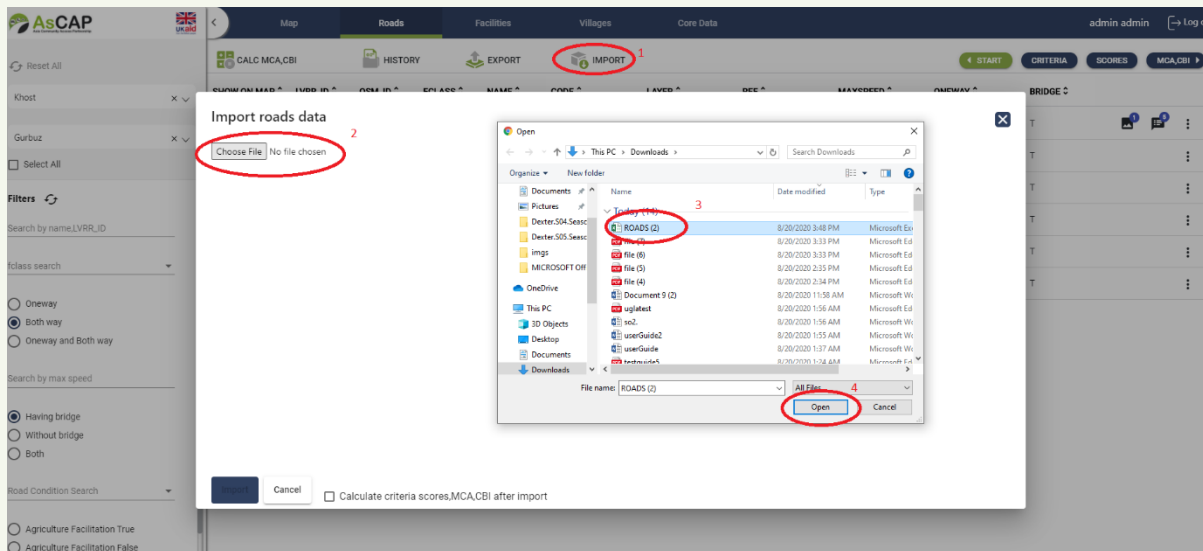
Close



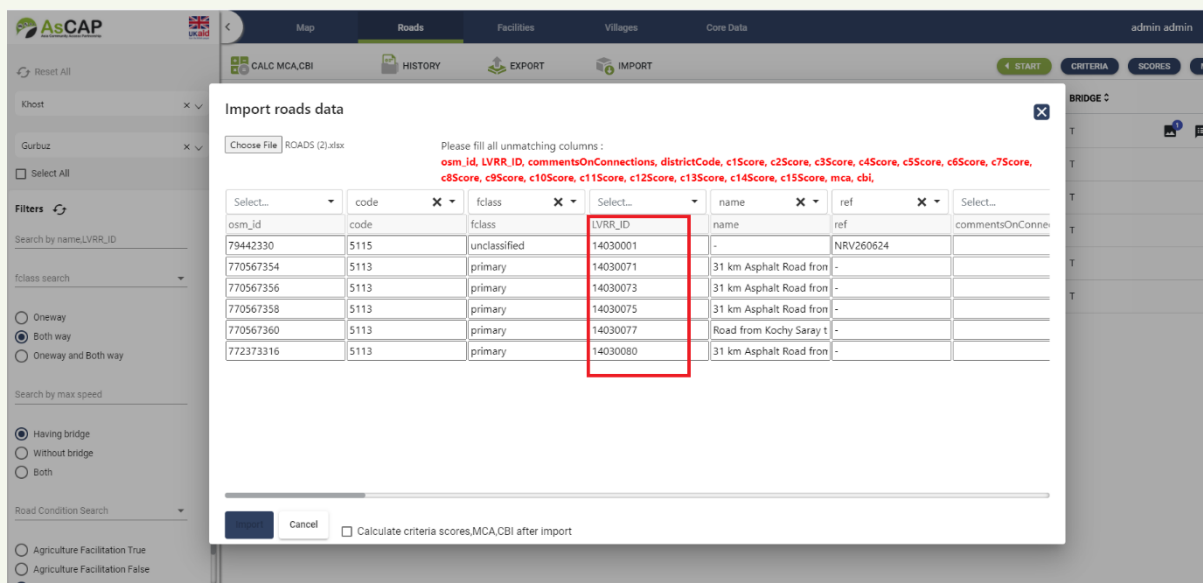
“EXPORT” button prints in PDF/XLSX files all the roads contained in the table, using applied filter selections.



“IMPORT” button offers a selection to import xls/xlsx files containing data for the roads of a selected District. If data for an LVRR\_ID (unique identifying number for every road) column already exist, then, are updated.



more...



\*Note: User is able to edit data about every road, upload documents (png, jpg, jpeg, doc, docx, txt, xls, xlsx, pdf) and keep notes.

Map Roads Facilities Villages Core Data admin admin Log out

CALC MCA,CBI HISTORY EXPORT IMPORT START CRITERIA SCORES MCA,CBI

SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	CODE	LAYER	REF	MAXSPEED	ONEWAY	BRIDGE	
<input checked="" type="checkbox"/>	14030001	79442330	unclassified	-	5115	5	NRV260624	45	B	T	<div><div>1</div><div>2</div><div>Edit</div><div>Uploads</div><div>Notes</div></div>
<input checked="" type="checkbox"/>	14030071	770567354	primary	31 km Asphalt	5113	1	-	80	B	T	
<input checked="" type="checkbox"/>	14030073	770567356	primary	31 km Asphalt	5113	1	-	80	B	T	
<input type="checkbox"/>	14030075	770567358	primary	31 km Asphalt	5113	1	-	80	B	T	
<input type="checkbox"/>	14030077	770567360	primary	Road from Koc	5113	1	-	80	B	T	

FACILITIES  
VILLAGES  
CORE DATA  
LOGOUT