



AsCAP

Application User Guide

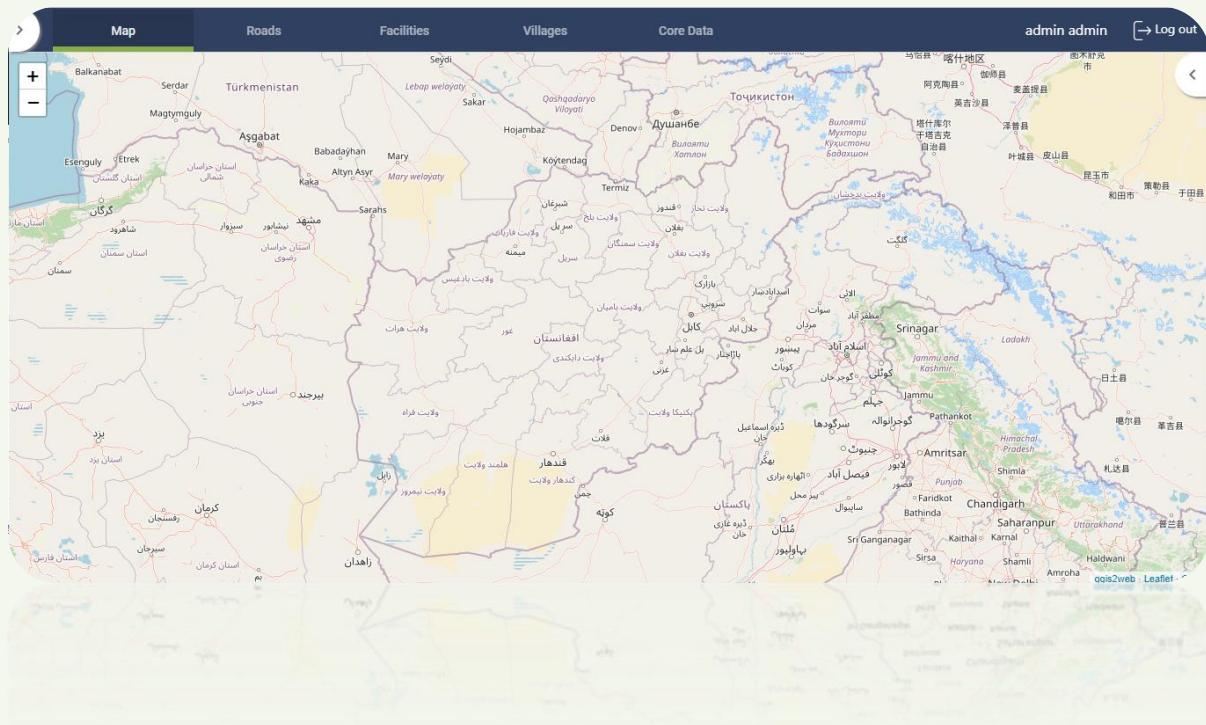
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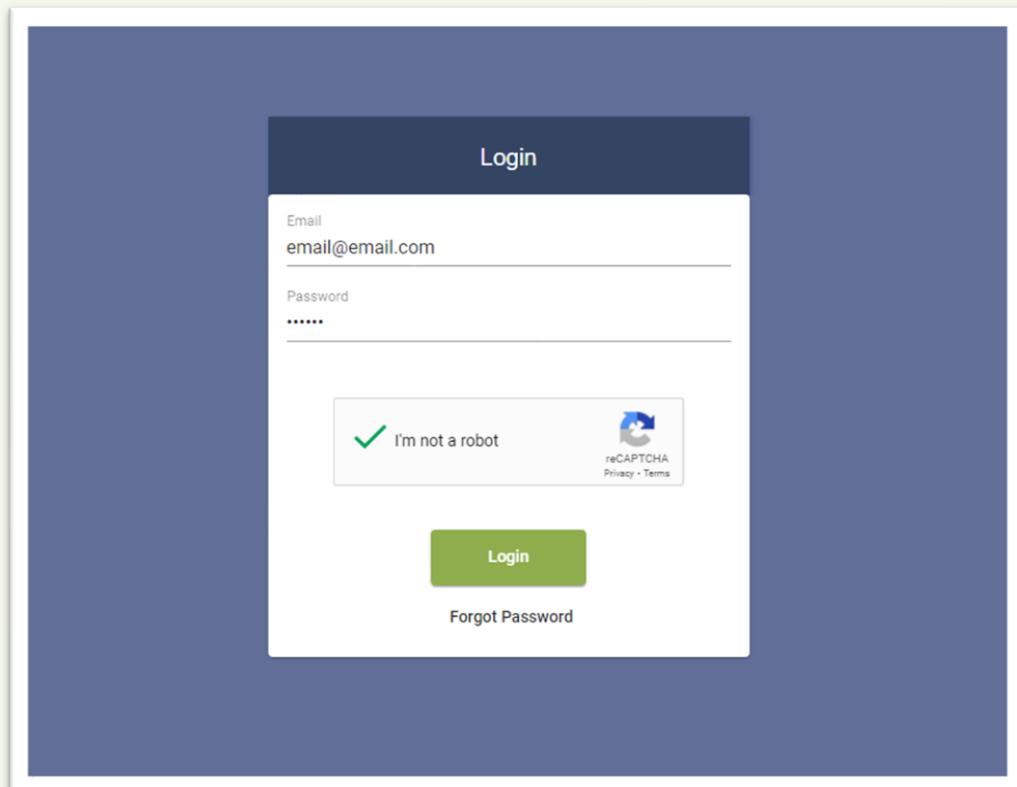
INTRODUCTION

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.

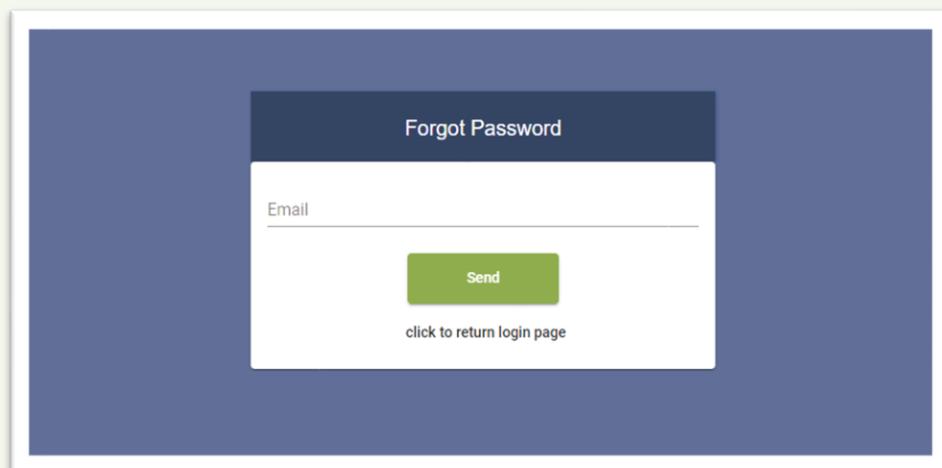


LOGIN / FORGOT PASSWORD

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

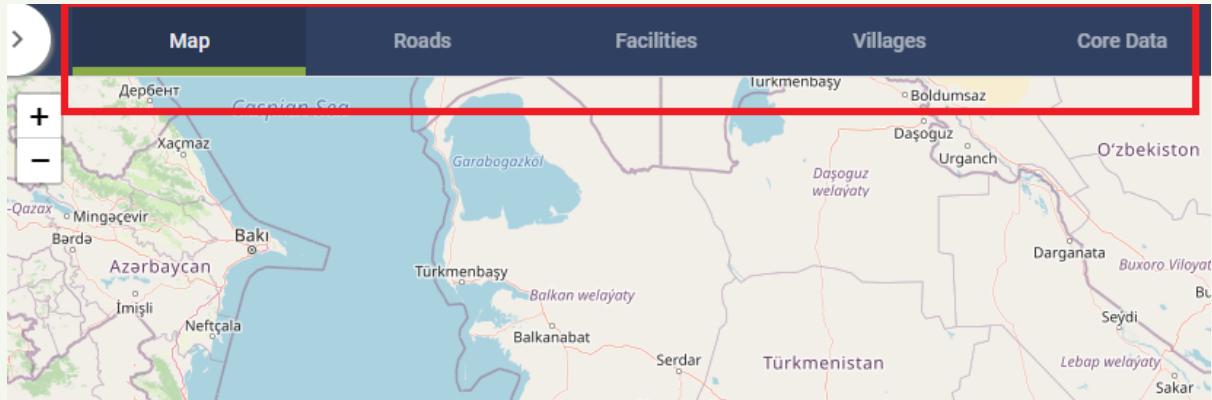


In case of forgotten password user can ask to receive a new one via email with “Forgot Password” button



MAIN MENU

The main menu bar consists of the following tabs:



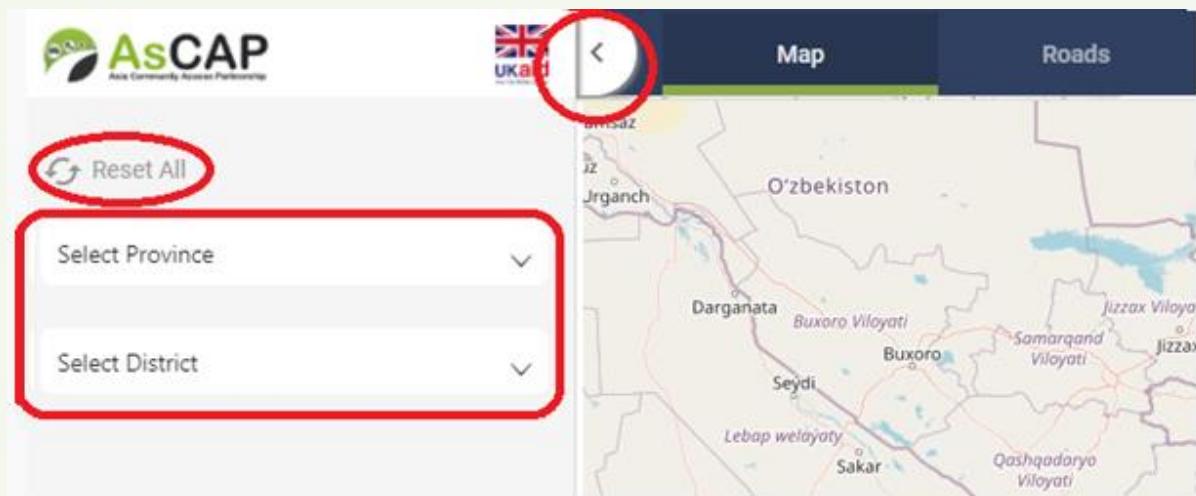
MAP

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.

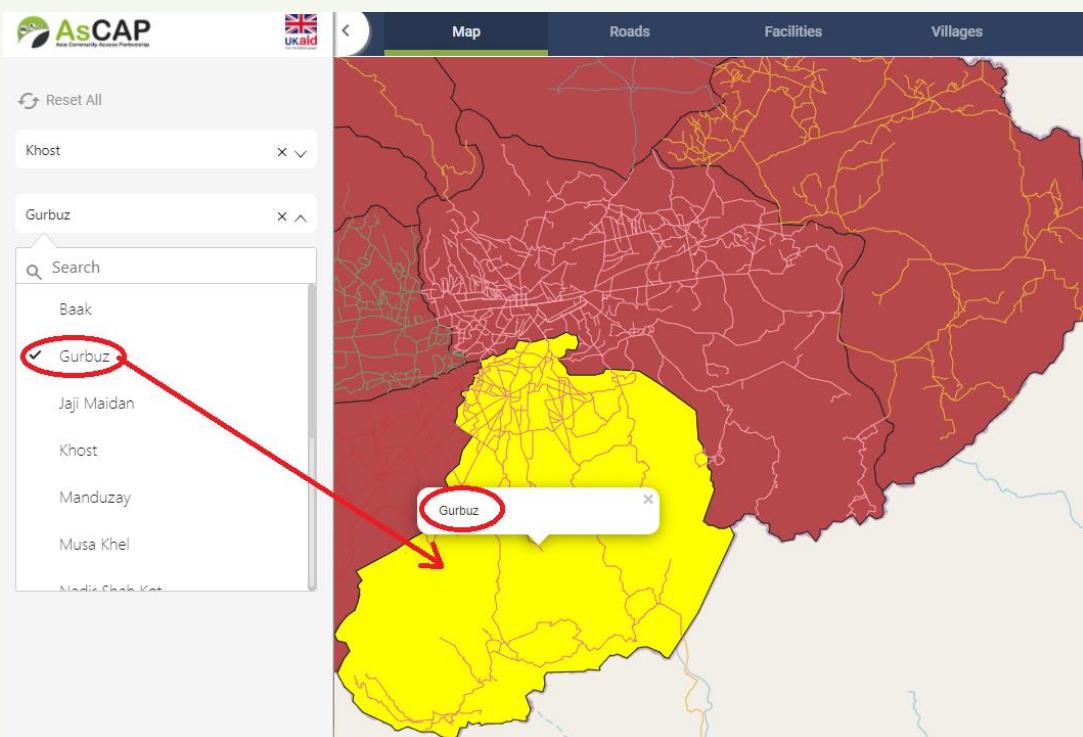
On the **left side of the map**, there is a side navigation arrow that reveals two dropdown selection menus, where the user can define data filters such as Province and/or District, in order to spot them on the map.

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



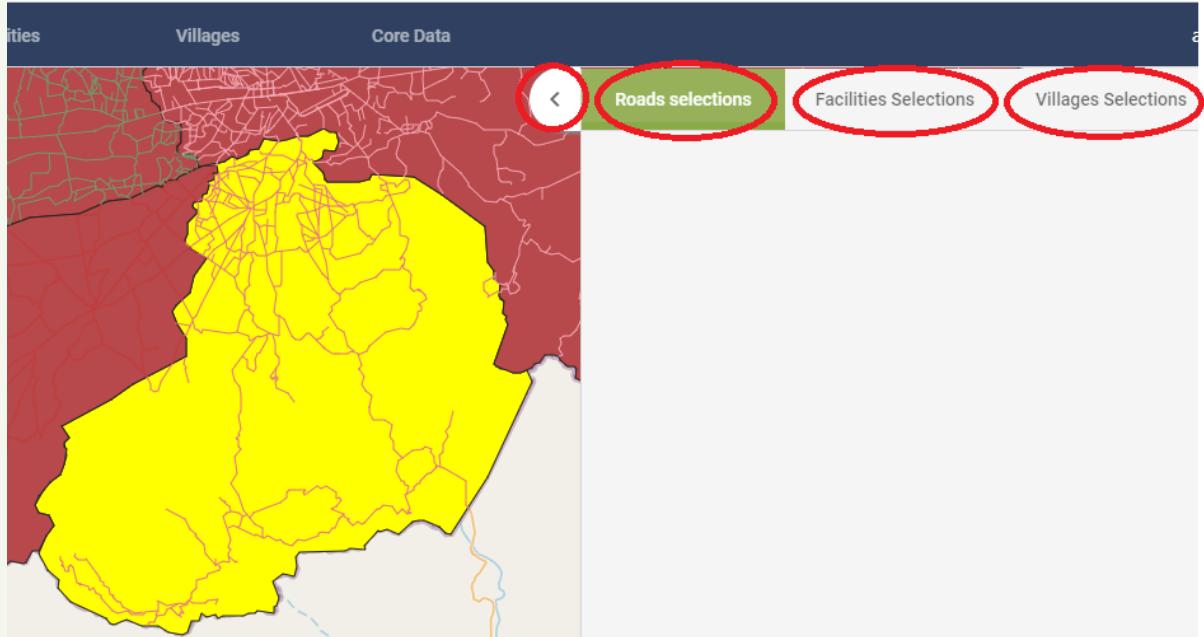
When the user selects a Province and/or District from the menu, then display it on the map.

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.*

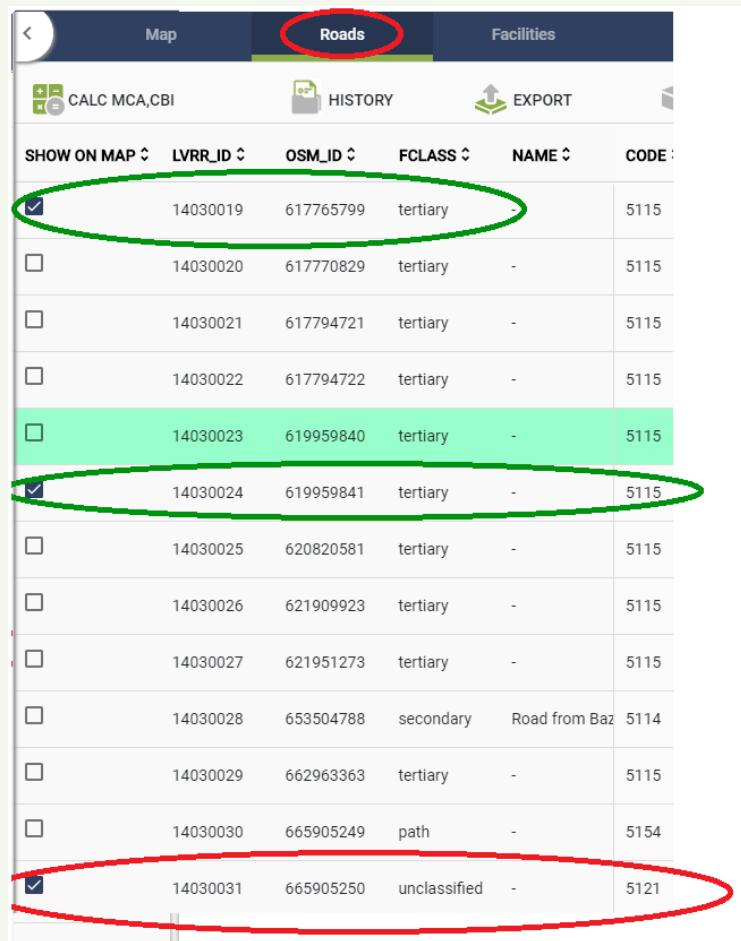
The “**Road Selections**” tab shows selected roads for map display. Roads can be selected by the Main Menu “Roads” tab or directly on the map screen.

1. Select roads from map

The screenshot shows a map with selected roads highlighted in green. A green circle highlights the 'Roads Selections' tab at the top. A red circle highlights a road on the map. To the right, a list of selected roads is shown:

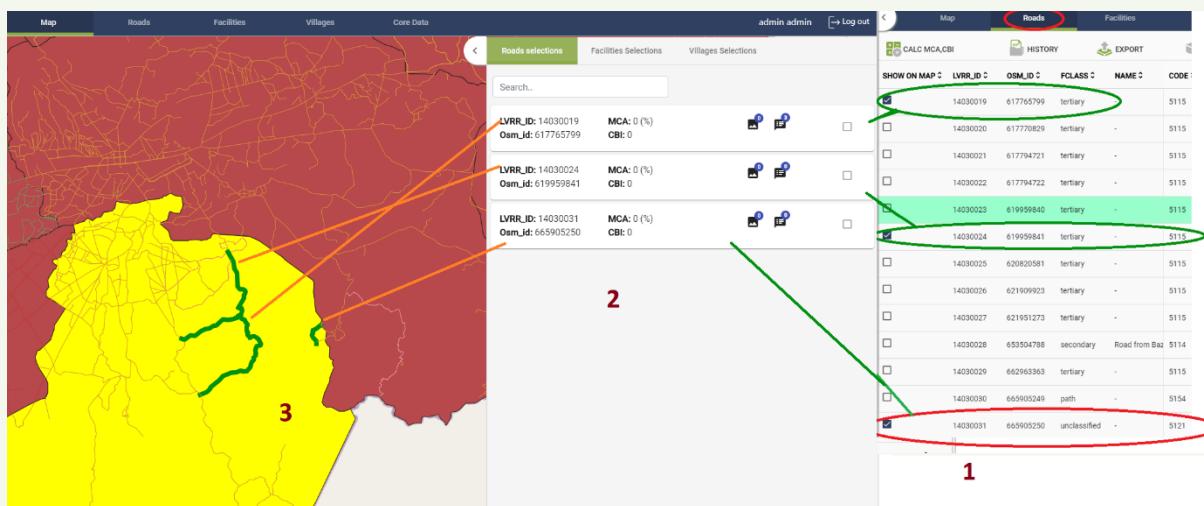
LVRR_ID	Osm_id	MCA (%)	CBI	Actions
14030019	617765799	0 (%)	0	<input type="checkbox"/> <input type="checkbox"/>
14030024	619959841	0 (%)	0	<input type="checkbox"/> <input type="checkbox"/>
14030155	-	0 (%)	0	<input type="checkbox"/> <input type="checkbox"/>
14030087	-	0 (%)	0	<input type="checkbox"/> <input type="checkbox"/>
14030031	665905250	0 (%)	0	<input checked="" type="checkbox"/> <input type="checkbox"/>

2. Select roads from “Roads” tab



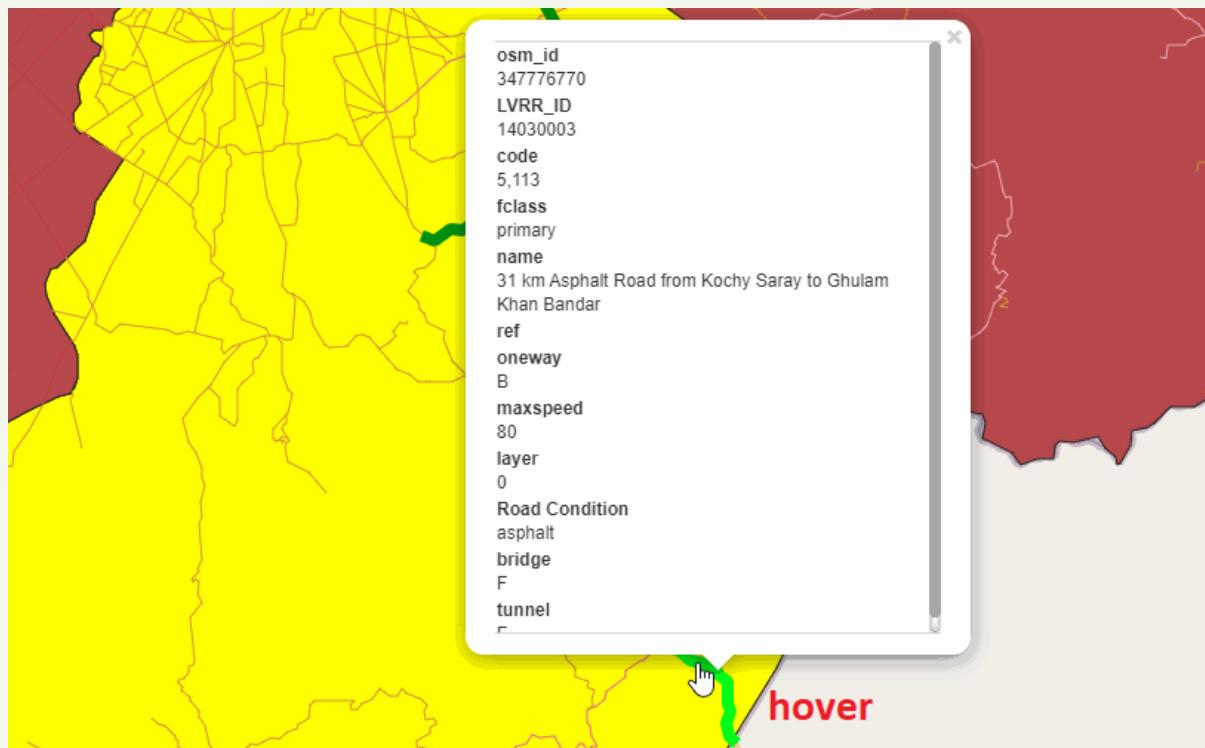
	LVRR_ID	OSM_ID	FCLASS	NAME	CODE
<input checked="" type="checkbox"/>	14030019	617765799	tertiary	-	5115
<input type="checkbox"/>	14030020	617770829	tertiary	-	5115
<input type="checkbox"/>	14030021	617794721	tertiary	-	5115
<input type="checkbox"/>	14030022	617794722	tertiary	-	5115
<input type="checkbox"/>	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”.



The screenshot shows a dual-interface system for managing geographical data. On the left is a map view where specific roads have been highlighted in yellow. On the right is a detailed table of road selections. The table lists various roads with their LVRR_ID, OSM_ID, FCLASS, NAME, and CODE. The rows for LVRR_ID 14030019, 14030024, and 14030031 are highlighted with green circles, corresponding to the yellow-highlighted roads on the map. The table is divided into sections: 'Roads Selections' (highlighted in green), 'Facilities Selections' (highlighted in blue), and 'Villages Selections' (highlighted in red). The top navigation bar includes tabs for 'Map', 'Roads' (circled in red), and 'Facilities'. The bottom navigation bar includes links for 'CALC MCA,CBI', 'HISTORY', 'EXPORT', and user information ('admin admin').

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.



hover

The screenshot shows the 'Roads selections' tab of the application interface. The table lists the following roads:

LVRR_ID	Osm_Id	MCA: (%)	CBI: 0	Select
14030019	617765799	0	0	<input type="checkbox"/>
14030024	619959841	0	0	<input type="checkbox"/>
14030031	665905250	0	0	<input type="checkbox"/>
14030003	347776770	8	0	<input checked="" type="checkbox"/>

A tooltip window is overlaid on the map, displaying the same detailed road information as the first screenshot.

click

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.

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

*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:

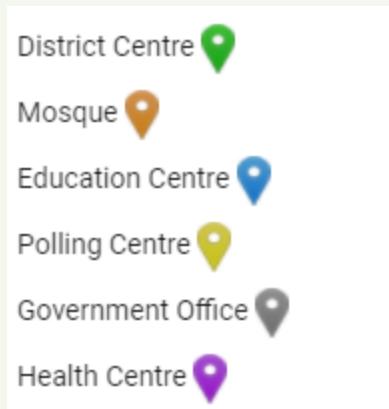
the user can delete a selection of facility from the map from the “facilities” tab.

The screenshot shows the AsCAP software interface. On the left, there's a sidebar with 'Reset All' and dropdown menus for 'Khost' and 'Gurbuz'. Below these are sections for 'Facilities' (with a search bar) and a list of facility types: District Centre, Mosque, Education Centre, Polling Centre, Government Office, Health Centre, and All. The main area has tabs for 'Map', 'Roads', 'Facilities' (which is selected), and 'Villages'. Under 'Facilities', there's a table with two rows:

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

Below this is a map view where a specific area is highlighted in yellow. The top navigation bar includes the AsCAP logo, UKaid logo, and other tabs like 'Map', 'Roads', 'Villages', and 'Core Data'. A legend at the bottom right indicates 'Roads selections' and 'Facilities Selections'.

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 KALAY
<input checked="" type="checkbox"/>	1403050	MASHI KALAY	1659	158	MASHI KALAY
<input type="checkbox"/>	1403045	AKBAR KHAN KALAY	1062	101	AKBAR KHAN KALAY
<input type="checkbox"/>	1403034	MESTARI KALAY	661	63	MESTARI KALAY
<input type="checkbox"/>	1403027	JAN KALAY	273	26	JAN KALAY

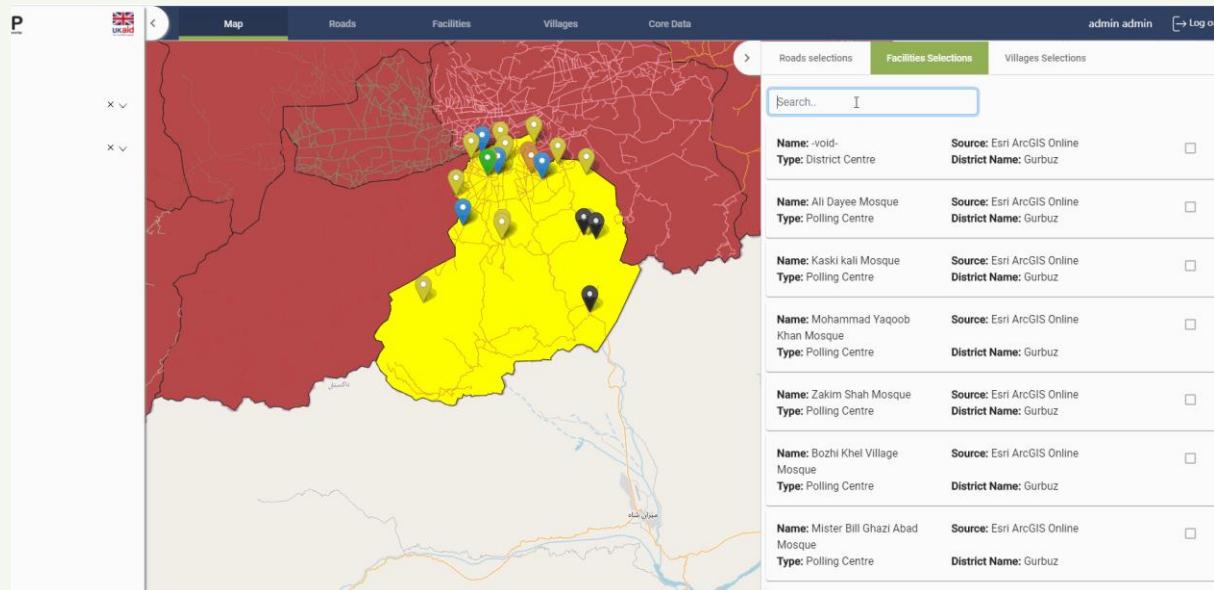
*Going back to the map via the main menu "map" tab the user selections will be imprinted on the map

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.

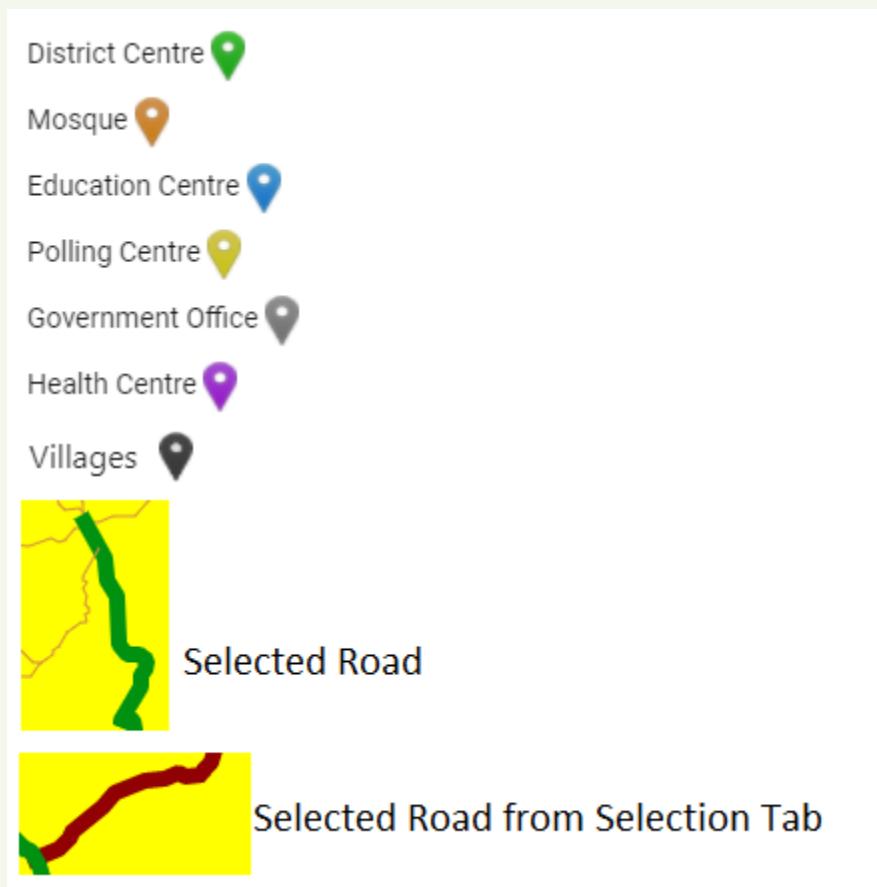
Unselect village: in the same way we do unselect a facility..

**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:

A screenshot of the 'Roads' tab interface. At the top, there are tabs for 'Map', 'Roads' (which is highlighted with a red circle), 'Facilities', 'Villages', and 'Core Data'. Below the tabs is a toolbar with buttons for 'CALC MCA,CBI' (highlighted with a red circle), 'HISTORY', 'EXPORT', 'IMPORT', 'START' (highlighted with a red circle), 'CRITERIA', 'SCORES', and 'MCA,CBI' (highlighted with a red circle). The main area is a table with columns: SHOW ON MAP, LVRR_ID, OSM_ID, FCLASS, NAME, CODE, LAYER, REF, MAXSPEED, ONEWAY, BRIDGE, and several icons for editing and viewing. The table contains 10 rows of road data.

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 Kor	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.).

A screenshot of the 'Roads' filter interface. On the left, there's a sidebar with 'AsCAP' and 'ukaid' logos, a 'Reset All' button, and two search input fields: 'Khost' and 'Gurbuz' (highlighted with a red circle). Below these is a 'Select All' checkbox and a 'Filters' button. A red box highlights the 'Search by name,LVRR_ID' field, which contains the text 'Road from segy to wales waly tani'. On the right, there's a table with columns: SHOW ON MAP, LVRR_ID, OSM_ID, FCLASS, and NAME (highlighted with a red circle). The table shows one row: LVRR_ID 14030005, OSM_ID 386915509, FCLASS secondary, and NAME 'Road from Segy to Wales Waly Tani'. A red arrow points from the 'Search by name,LVRR_ID' field to the 'NAME' column in the table.

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

More here...

The screenshot shows the AsCAP software interface with the 'Roads' tab selected. On the left, there is a sidebar with search fields for 'Khost' and 'Gurbuz' (highlighted with a yellow arrow and the text 'required field only for roads!'), and filter options for 'Oneway', 'Both way', and 'Oneway and Both way'. Below these are filters for 'Having bridge', 'Without bridge', and 'Both'. The main area displays a table of roads with columns: SHOW ON MAP, LVRR_ID, OSM_ID, FCCLASS, NAME, MAXSPEED, ONEWAY, and BRIDGE. The first row has 'LVRR_ID' highlighted in blue. The 'ONEWAY' and 'BRIDGE' columns are circled in red. Red arrows point from the sidebar filters to the corresponding columns in the table. The 'BOTH WAYS' and 'TRUE' values in the table are also circled in red.

SHOW ON MAP	LVRR_ID	OSM_ID	FCCLASS	NAME	MAXSPEED	ONEWAY	BRIDGE
<input type="checkbox"/>	14030001	79442330	unclassified	-	50624	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

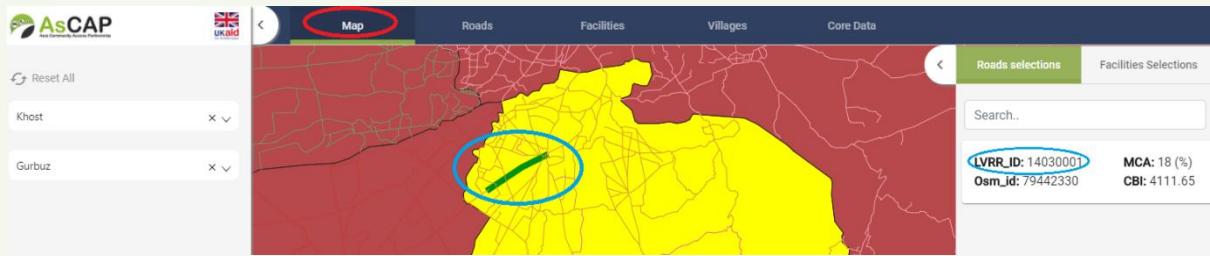
*Note: User can select a checkbox from the column “SHOW ON MAP” and spot the selected matching road on the map screen.

1.

This screenshot is similar to the previous one but shows a specific row selected in the table. The 'SHOW ON MAP' column for the first row (LVRR_ID 14030001) has a checked checkbox, indicated by a blue circle. The rest of the interface and table structure are identical to the first screenshot.

SHOW ON MAP	LVRR_ID	OSM_ID	FCCLASS	NAME	MAXSPEED	ONEWAY	BRIDGE
<input checked="" type="checkbox"/>	14030001	79442330	unclassified	-	50624	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

More here



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

SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	CODE	LAYER	REF
<input type="checkbox"/>	14030001	79442330	unclassified	-	5115	5	NRV260624
<input type="checkbox"/>	14030071	770567354	primary	31 km Asphalt	5113	1	-
<input type="checkbox"/>	14030073	770567356	primary	31 km Asphalt	5113	1	-
<input type="checkbox"/>	14030075	770567358	primary	31 km Asphalt	5113	1	-
<input type="checkbox"/>	14030077	770567360	primary	Road from Koc	5113	1	-
<input type="checkbox"/>	14030080	772373316	primary	31 km Asphalt	5113	1	-

- “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:

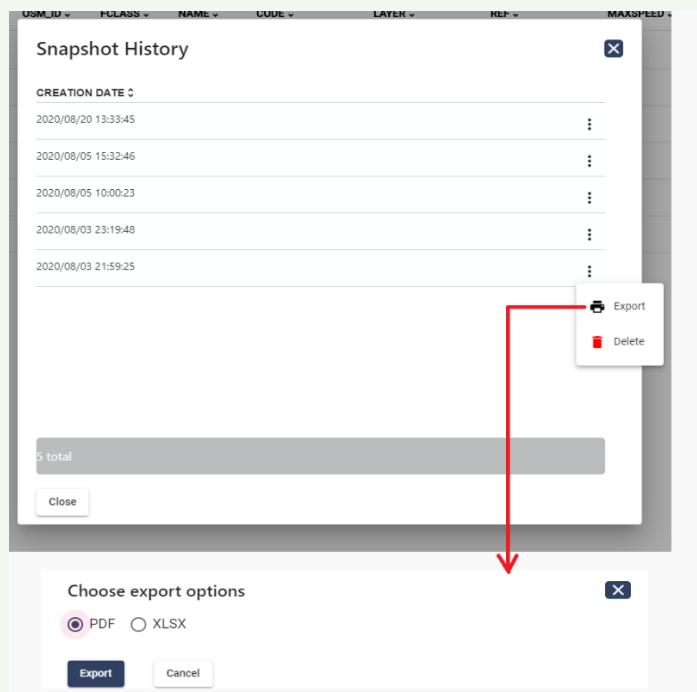
SHOW ON MAP	LVRR_ID	OSM_ID	FCLASS	NAME	CODE	LAYER	REF
<input type="checkbox"/>	14030001	79442330	unclassified	-	5115	5	NRV260624
<input type="checkbox"/>	14030071	770567354	primary	31 km Asphalt	5113	1	-
<input type="checkbox"/>	14030073	770567356	primary	31 km Asphalt	5113	1	-
<input type="checkbox"/>	14030075	770567358	primary	31 km Asphalt	5113	1	-
<input type="checkbox"/>	14030077	770567360	primary	Road from Koc	5113	1	-
<input type="checkbox"/>	14030080	772373316	primary	31 km Asphalt	5113	1	-

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

The screenshot shows the AsCAP software interface. On the left, there's a sidebar with various filters like 'Khort', 'Gurbuz', and 'Filters'. In the center, there's a table titled 'Roads' with columns for LVRR_ID, OSM_ID, FCLASS, NAME, CODE, LAYER, REF, MAXSPEED, ONEWAY, and BRIDGE. At the top of the table, there are buttons for 'CALC MCA,CBI', 'HISTORY', 'EXPORT', and 'IMPORT'. A red circle highlights the 'CALC MCA,CBI' button. A red arrow points from this button to a modal dialog box titled 'Calculate Criteria'. Inside the dialog, there's a message: 'This process will calculate criteria score and MCA,CBI rates. Are you sure?'. Below the message is a checkbox labeled 'Take snapshot' which is checked. There are 'Yes' and 'Cancel' buttons at the bottom. A yellow callout box to the right of the dialog says: 'Snapshot of all the roads showed by selecting a specified District at certain point of time.' Another yellow callout box below it says: 'Snapshot data are recorded to "HISTORY" section.'

“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).

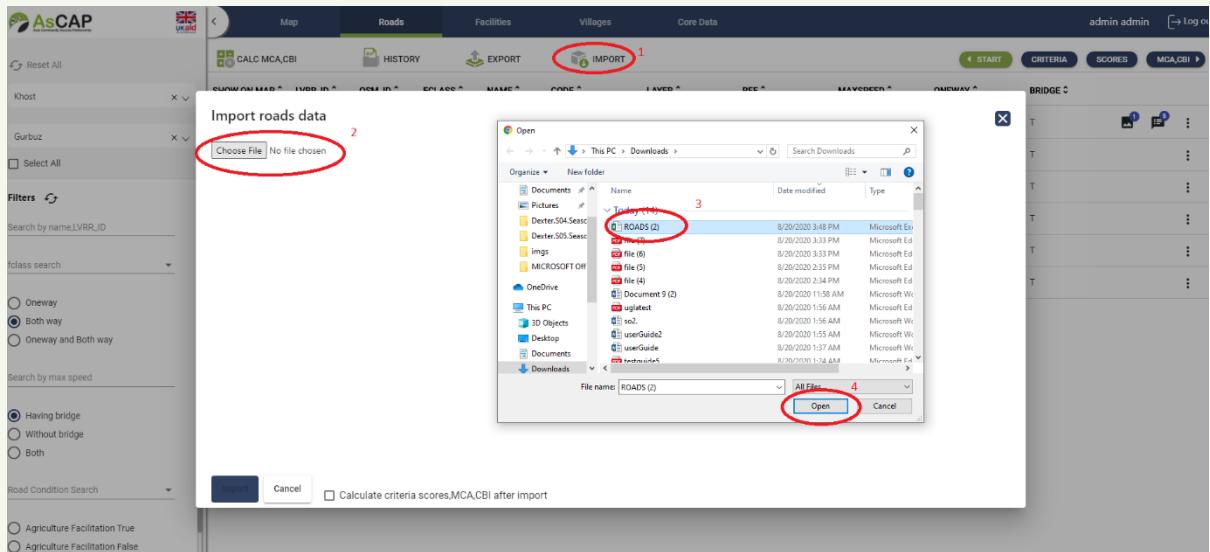
The screenshot shows the AsCAP software interface. The left sidebar includes 'Khort', 'Gurbuz', and 'Filters'. The main area has a table with columns for LVRR_ID, OSM_ID, FCLASS, NAME, CODE, LAYER, REF, MAXSPEED, and ONEWAY. At the top of the table are buttons for 'CALC MCA,CBI', 'HISTORY', 'EXPORT', and 'IMPORT'. A red circle highlights the 'HISTORY' button. A red arrow points from this button to a modal dialog box titled 'Snapshot History'. Inside the dialog, there's a list of creation dates: '2020/08/20 13:33:45', '2020/08/05 15:32:46', '2020/08/05 10:00:23', '2020/08/03 23:19:48', and '2020/08/03 21:59:25'. A yellow callout box to the right of the dialog says: '5 total'.



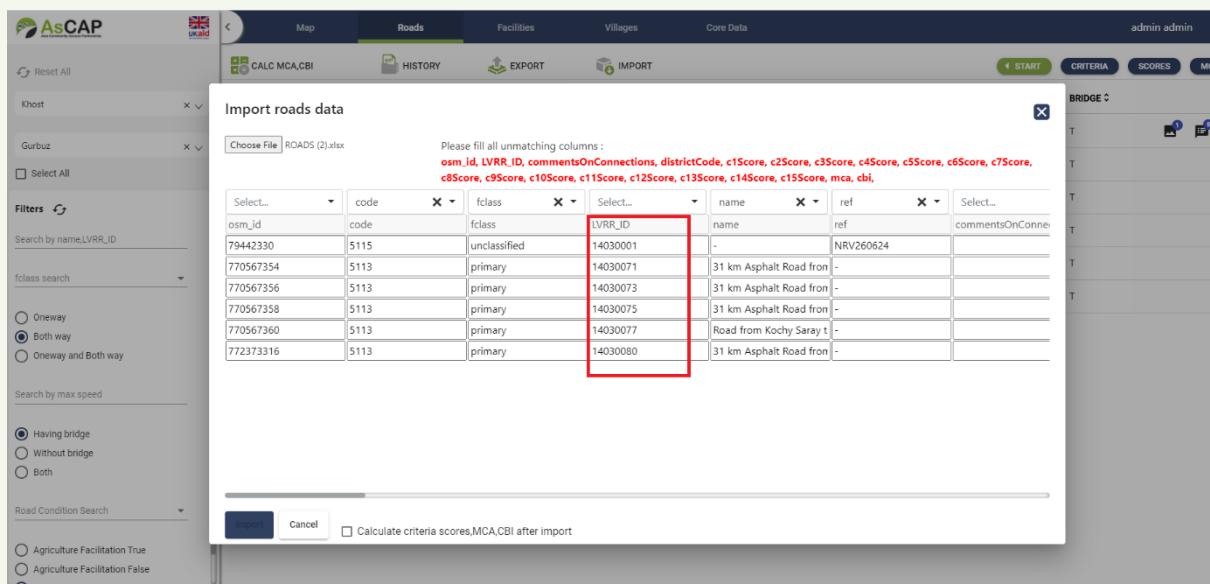
"EXPORT" button prints in PDF/XLSX files all the roads contained in the table, using applied filter selections.

The screenshot shows the main AsCAP interface with a table of roads. The 'EXPORT' button in the toolbar is circled in red. A modal dialog titled 'Choose export options' is open, showing 'All' selected under 'Export selected roads'. Other options include '5', '10', '20', '30', '50', 'PDF' (selected), and 'XLSX'. It has 'Export' and 'Cancel' buttons.

"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.

The screenshot shows a software application window with a title bar and various tabs. The 'Roads' tab is highlighted with a red circle. Below the tabs is a toolbar with icons for CALC MCA,CBI, HISTORY, EXPORT, and IMPORT. On the right side of the toolbar are buttons for START, CRITERIA, SCORES, and MCA,CBI. The main area contains a table with the following data:

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
<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

A context menu is open on the right side of the table, with a red box highlighting it. The menu items are:

- Edit
- Uploads
- Notes

FACILITIES

VILLAGES

CORE DATA

LOGOUT