Land Utilization Rating Application (LURA)

User's Guide

2024 v2.0 Alpha-0

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Introduction

The World Bank is finalizing a comprehensive set of global coal mine closure good practice technical standards that will enable the transition from "physical closure" to a more "sustainable" closure in the context of achieving a "Just Transition for All". The good practice technical standards outline activities, regulatory implications, and policy issues that need to be addressed during planning, execution and post closure of coal mine sites.

The World Bank encourages and supports the use of tools to assess, evaluate, and classify resources which are at risk of losing value if the threat of environmental degradation and community safety are not addressed. Moreover, this approach recognizes the interconnected nature of the issues that confront operating companies at the time of mine closure and underscores the need for mine operators to develop a comprehensive resource management plan early in mine operation and periodically through closure and repurposing.

A tool (LURA) has been designed with risk-based, spatial planning capabilities and is aligned with new global standards for coal mine closure. This ensures that guidance / advice on planning and preparation for coal mine closure is aligned with a regulatory approach in which technical standards used to close a mine address legacy risk from surface and underground mine operations.

For surface or underground coal mine operations different biological, physical, chemical, socioeconomic and financial conditions are evaluated that may affect the closed mine or broader area during closure or many years after closure (post closure legacies). The aim is to characterize mine land for legacies, but at the same time consider possible repurposing scenarios and evaluate future repurposing potential in order to create a sustained development during mine closure operations.

A dedicated cloud based, simple to use Land Utilization Rating Application (LURA) has been developed to support stakeholders, organization or entities involved with post mine land transition management. This document provides the User's Manual for LURA usage.

Accessing the Application

The application is accessed from any device such as a PC, laptop, tablet or smartphone if an internet connection is available. The application is available on https://lura.geosysta.com/ using any modern web browser. Users are greeted with the screen in Figure 1 will appear.



Figure 1: LURA welcome screen

When users click on "Log in" a form will appear as the one presented in Figure 2 in which users will be prompted to enter their username (e-mail) and password to get access to the application.

THE WORLD BANK	
Log in to Geosysta LURA	
e-mail	
user@example.com	
Password	
Sign In	
Remember me	
I have forgotten my password	

Figure 2: Log in form.

To get logged in, the user needs to have an account preapproved and created by the WB or the organization that is using LURA. If a user has forgotten their password, they can click on the "*I have forgotten my password*" option under the sign in form and an e-mail will be send that will enable the user to change their password and log in again.

Application Navigation Menu

Main menu

On the top of the application screen, the navigation menu is being displayed.

THE	WORLD BANK	Search	Q	ii P	rojects	oo Administration	Information	Chrysanthos Steiakakis
			P	rojects / Poland, Ruda Ś	ląska - R	atings		
Ratings	Documents	Depictions	Results	Combined Evaluations	I Area	Data 🕅 Modify	Area 🛛 🖉 Edit	Attributes 🖓

Figure 3: Application Navigation Main Menu

The navigation menu section contains four main sections. On the top right section of the menu area, the application main menu is being displayed. This contains links to application pages such as:

- Projects A list of all the projects that the logged in user is associated with.
- Administration The menu option appears only to users that have application administrator privileges assigned. (See Application Administration)
- Information A link to basic information pages regarding issues such as basic lura usage, Managing Coal Mine Closure and Additional information on Land Repurposing
- (User Name) This navigates to the user preferences page, where users can change their password, select the type of date format to be displayed (e.g. MM/DD/YYYY or DD/MM/YYYY) and the language that LURA is being displayed on, from the selection of available translations.

Search

On the top left section of the menu the search control is displayed

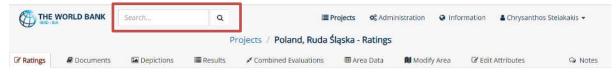
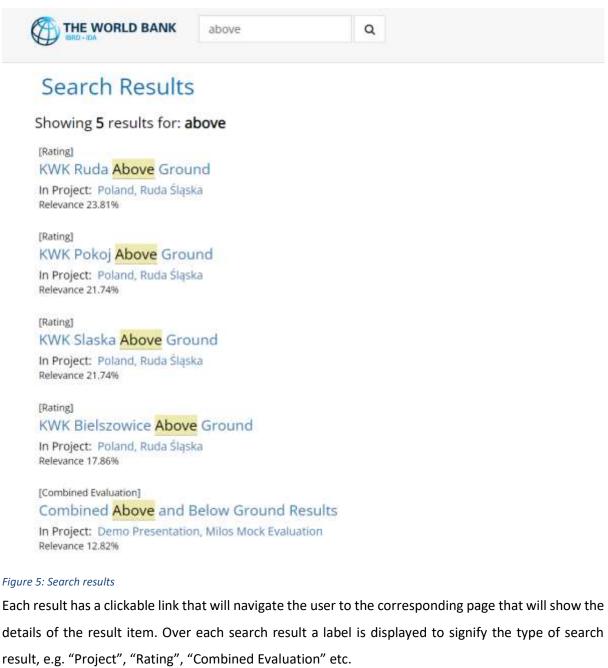


Figure 4: Search control in navigation section

Using the search control, the user can type a word, or a phrase and the application will look for it in the existing projects and ratings that the user can have access to. Once the provides the keywords to look for and clicks on the search icon, the application will display a list of the search results.



Navigation Path

On the center of the navigation section the "Path" is being displayed

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@ Ratings	# Documents	Depictions	ill Results	🖽 Area Data	🛍 Modify Area	🕼 Edit Attributes		Sa Notes

Figure 6: Navigation Path

This section displays the "path" that the user has followed to land to the current page. This is a set of clickable links separated by the "/" character. The right most title is the title or description of the current page that the user is on. All the previous labels are clickable links that the user can use to return to the referenced page. In the depicted example, on Figure 6: *Navigation Path*, if the user clicks on the project name for instance, they will be navigated to the main page of the project that lists the ratings for it.

This helps the user have a better understanding of where they are in the application, as well as an easy way to navigate back and forth to the various sections of the application.

Context Menu

And finally on the bottom section of the navigation menu the context menu is displayed.

		Search	Q	ii F	Projects O	Administration	Information	Chrysanthos Steiakakis
			P	rojects / Poland, Ruda s	İlaska - Rat	ings		
Ratings	B Documents	Depictions	Results	Combined Evaluations	I Area Da	ata 🔒 Modify		Attributes 🖓 N

Figure 7: Search results

The menu being displayed in this section changes to be always in context with the section of the application the user is currently working on. In Figure 7 the menu displayed is the context menu for the project. The available options include:

- Ratings This will take the user to the list of conducted/ongoing ratings taking place for the current project.
- Documents Documents that have been attached to the project.
- Depictions Design and/or photo images that are geolocated and can be displayed as layers on top of the rating map. Such depictions could be a topographical map, an underground room and pillar map, a hydrogeological map etc.
- Results The evaluation results for the project, based on the ratings having been conducted.
- Area Data Information about the project area. Area size, coordinates, segments etc.

- Modify Area This gives the user the option to modify the project area. The user can either add extra separate areas to the ongoing project or adjust the initially configured area.
- Edit Attributes Change/update the project's basic attributes such as its name, description etc.
- Notes The user can see and or update the notes having been added during the ratings process. (see section "Collaboration and Tracking")

The menu depicted in Figure 8: Rating Context menu is the Rating Context Menu.



Figure 8: Rating Context menu

This menu displays all the available functionalities that have to do with the rating being processed by the user. The options include:

- Rating the main rating page where the user can assign scores to the various criteria for each project area segment.
- Show Overall Report A report with a map overview and the assigned categories, as well as
 aggregated results regarding the size of the area assessed, the distribution of categories
 assigned per area etc.
- Show Report per Segment A detailed report that will show the scores and graph for each individual project area segment as it has been scored during the rating.
- Show Rating per theme This will display a "heatmap" that shows the applicability of the areas particular to each of the Themes investigated in the ratings. This uses a color progress from red (least applicable) to green (most applicable)
- History The edit history of each rated area segment with info regarding the changes that took place and the user that was responsible for those changes.
- Edit Edit/update the basic information for the particular rating such as title and description and associated project areas.
- Publish This option allows the user to give read-only access to the rating results to people who do not have a LURA account (described in section "Publish Rating")

Starting a New Project

To start rating a mine area the user first needs to create a new project or use an existing one. The way to create a new rating project is the following:

After logging in, the *Projects page* will be displayed (Figure 9), where the user can select an existing project or create a new one by clicking "**Start new project**" on the top left corner.

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Elliniko		09/06/2021 13:05:18	Nikos Steiakakos	09/06/2021 13:09:09	Nikos Steiakakis	Modify X Delete

Figure 9: List of projects

When the user selects **"start new project**" the page shown in Figure 10 is displayed. In this page the user must first give the descriptive name of the project.

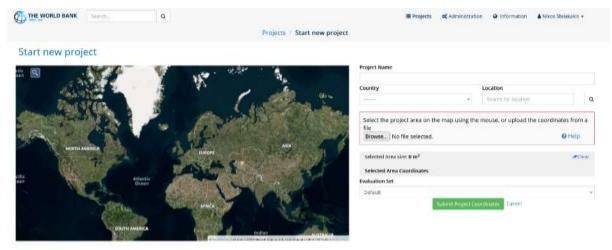


Figure 10: New project page

To find a mine land location the user can select the country in which the mine is located and either use the "Location" search box to look for the specific area of the mine or select the location from the world map (Figure 10). Using the mouse wheel, users can zoom in or out on the map. To navigate on the map, users can click and hold the left mouse button to pan the viewable area.

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Figure 11: New project attributes

Selecting the Project Area

Using the mouse, the user can then select the area to be rated. The first node can be created by **clicking** the left mouse button **once**. Subsequent clicks on the left mouse button in other locations form a polygon (polyline) that encloses the study area change. As the user clicks the left mouse button and the polygon is created the already selected area is highlighted and the coordinates of each nodal point are displayed on the right side of the screen. When the selected area is finished the **submit button** at the bottom of the page should be clicked (Figure 12). A selection can be discarded by clicking on **cancel**.

The user can also import the coordinates of the area of the project from a Comma Separated Values (CSV) file. This can be applicable in cases for example where the user has exported the actual area coordinates from a GIS application.

In this case, instead of selecting the outline of the area with the mouse on the map, the user can select the import file and then click on "Submit Project Coordinates". This will create the project area(s) using the coordinates specified in the import file.

For a CSV file to be applicable for import it must adhere to a specified format. The user can see what the proper format is by clicking on the "Help" link on the right of the file selection control.

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Figure 12: Submitting project coordinates.

The user can complete the polygon selection, either by **double clicking** on the map, or by **clicking on the starting point** of the selected polygon. The user can then **modify and enhance** the edges and lines of the polygon by placing the mouse pointer anywhere in the polygonal line and a new blue node will appear. Once the new node appears, clicking the left mouse button will create the node and allow the user to move it around. To discard the selected area and start the polygon creation again the user should click on **clear** from the right side of your form (Figure 13).

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Figure 13: Clearing the polygon

When the polygon/area selection is completed, the user should click on **submit** and then they will be redirected to another page where the user can **define the cell size** and create the rating grid. A default value of 0.5x0.5km is shown (Figure 14). The user can select a different cell size and click on **"Set Cell Size on Grid"** to preview the change on the map.

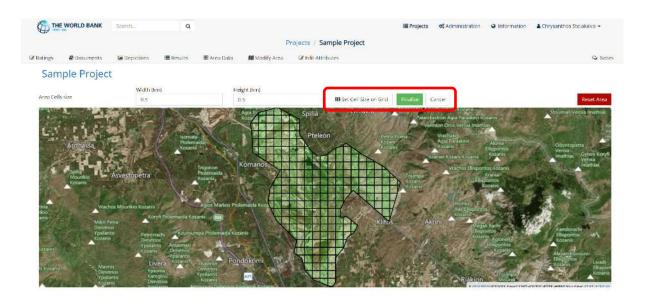


Figure 14: Sample project grid

Clicking on **Reset Area** (Figure 14) will clear the selection and allows the user start the selection again from scratch. In other words, this function will remove any selection from the map and will allow the user to make a new selection of the area to be rated. If the user unintentionally clicks on **Reset Area** they can click on the **back button** of the browser and go back to the original selection.

A user needs to enter a cell size preference and click on "**Finalize**" to complete the map selection (Figure 14).

Modifying / Extending the Project Area

An already selected project area can be easily modified and/or extended, with one or more additional area selections that might not even be adjacent to the original selection. To accomplish this, the user can click on "**Modify**" on the Projects list page (Figure 15).

THE WORLD BANK Search.	Q			≣Projects ¢, Ac	renistration Ø Information	Chrysanthos Stelekakis •
			Projects			
+Start new project						
Project	Country	Created On	By	Last Updated	By	
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Anynias mine	Greece (GR)	19/13/2220 12:28:28	Chrysenthes Stelakes	13/11/2022 12:22:55	Nikos Stelakakis	Miziliy Killelete
CE-Bo		09/56/2021 13:05:18	Nikos Stelakakis	09/06/2021 13:09:09	Nikos Steiakakis	Modity * Delete

Figure 15: List of projects

Clicking on "**Modify**" will show the project area modification page. Clicking on "**Extend Project Area**" will allow a user to select an additional area on the map (Figure 15: List of projects).

Following the same procedure as when creating a new project, the user can select a new polygon area, assign an area name for more clarity and then confirm the selection by clicking on the **"Extend Project Area"** button.



	ta Size: 50.87 km² 107e:4.3 km²	
Area #	Area Name	
Accession	Secondary Mine Location	
Selected Area	Coordinates	
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21.2490002	2077205-40.515056807741445	
21 7300774	8257632,40.504737002568456	
21.7288208	1995-1667, AD 497.016770264205	
21.7242964	63603877.40.434602018200584	
21.7210290	10909528,40,454053913937544	
21.7255532	45650866,40.43221479465838	

Figure 16: Extending a project area

With this feature a user can add additional land areas for rating on the same project as these lands become available or additional information becomes available for lands that were previously not included in the given project. For example, an underground coal mine has been rated and then additional maps or information become available for areas that have been mined but had not been known during the initial rating.

Areas that are not joined to each other can have different segment sizes. The width and height of segments is an attribute of each area in the project, not the project as a whole. Figure 17 shows an example of disjoined project areas with different segment size each.

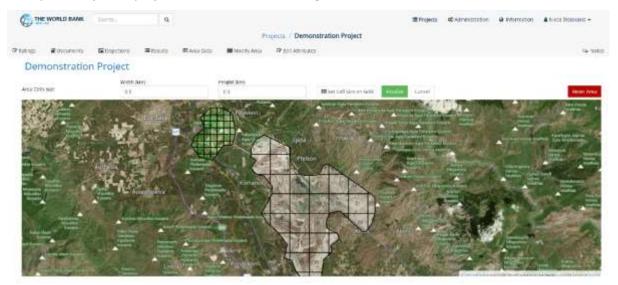


Figure 17: Project areas with different segment sizes

Subdividing Area Cells to Smaller Sections

Clicking on "**Modify**" on the projects list page (Figure 15), the user is once again presented with the project area modification page. By clicking on any grid cell on the area selection map, the size and coordinates of the cell will be displayed (Figure 18).

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Figure 18: Displaying the size and coordinates of a cell

The user can then set the width and height of the sub-segments to break down the specific cell. Clicking on **"Subdivide"** this will present a preview of the newly created sub-cells of the particular area segment (Figure 19).

Projects - Atacity Sample Project											
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Figure 19: Subdividing cells

If different size needs to be applied, the values in the width and height input boxes can be changed and the "**Subdivide**" button should be clicked again.

By clicking on "**Apply Change**" the specific area segment will be permanently divided to the smaller segments selected.

On the right side of the screen (Figure 19), the cell information such as its ID number, its area size and its corner coordinates in the WGS system is displayed.

It is important to note that once an area cell is subdivided into smaller cells the change cannot be reversed. Subdivided cells cannot be merged back into the original cell.

Removing Segments from the Project Area

Sometimes there are areas within the overall project area that cannot or should not be evaluated as part of the Land Repurposing process. For such cases, LURA provided the functionality to exclude said segments from the project.

On the modify area page, the user needs to select the option "Remove Segments". Then they will be presented with an overview of the project map and a form to select the range of segments to be removed.

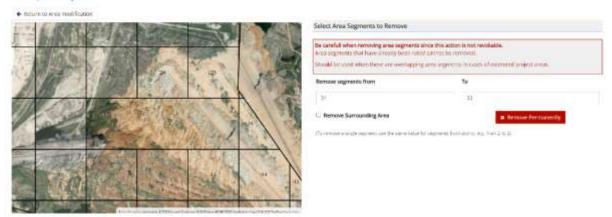
 ← Return to Area modificatio



Be carefull when removing area segments Area segments that have already been rate		
Should be used when there are overlappin	g area segments in cases of extended project area	6.
Remove segments from	То	
31	33	
Remove Surrounding Area	× Remove Per	manently
(To remove a single segment use the same value)	for segments from anci to, e.g. from 2 to 2)	

Figure 20: Excluding area segments from evaluation

All area segments have been assigned with a distinct id number, so the user can select to remove segments 31-34 for example, and they will be deleted from the map and cannot be selected in the evaluation process.



Sample Project

Figure 21: Excluding area segments from evaluation map

For instances where all the pixels for a particular area are selected for removal, the user can click on "**Remove surrounding area**" so that the complete outline of the selected area can be removed. This applies to disjointed areas that have been added to the project but have not been evaluated.

Segments that have already been evaluated cannot be removed.

Rating the Project Area

When the selected area and grid are finalized, the rating process can start. By clicking on the project name on the project list page (Figure 15) the user will be redirected to the project ratings page (Figure 22). To start a new rating, the user should click on **"Start new rating**" at the upper left corner of the project ratings page (Figure 22).

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+ Stort new rating * Comments	Міле Тур		Started On	Started	By Last Updated	U	pdated by	Status	Report

Figure 22: Project ratings

A new page is then opened which depicts the selected and subdivided area or areas of the project. A selected area could be either an open pit lignite mine (Above ground) or an underground coal mine (Below ground). When a selected area has both types of mines, an open pit mine that has become an underground mine or a combination of open pit and underground mines, then dual rating is possible.

Furthermore, in projects with more than one disjointed area, the user might have to evaluate each area separately.

In this case the user needs to start a new rating by clicking on "**Start new rating**", select the type of mine (above or below ground), select the areas of the project required and execute the rating. To execute a different type of mine rating the user needs to click on "**Start new rating**" again (for the same project) and select a different type of mine and/or area(s) selection.

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Figure 23: Project rating type and area selection

Furthermore, multiple ratings for the same type of mine can be performed by different users. For example, in an existing project which was a surface lignite mine that was created and rated by User XXX, a different user can click on **"Start new rating**" and start a completely new rating of the area. A different user can rate an area either with the same or a different type of mine. In the end, a list of different ratings is provided for the same project as can be seen in Figure 24.

For the selected project, the user can see how many ratings have been performed by inspecting the left column (Figure 24), the description of each rating, the mine type that was rated, when the rating started, by whom and when it was last updated. Also, a report can be extracted per rating by clicking on the Show button at the right side of the list.

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#	Comments		Mine Type	Started On	Start	ed By	Last Updated	Upda	ted by	Status	Report	
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+	Surface Level Evaluation		Above Ground	24/04/2023 10:2	27:13 Chry	santhos Stelakakis	24/04/2023 1 <mark>0:</mark> 27:13	Chrys	anthos Stelakakis	1	# Show	# Delete

Figure 24: Sample project ratings

To start a rating on a new project or to continue rating an ongoing project the user has to click on the rating title on the left. The application will navigate to the actual rating page (Figure 25: Rating an area segment).

This page shows a map of the selected and subdivided area and the satellite image below the grid. Each segment of the grid has a unique number that defines it. To start rating the user can begin from segment number 1 or they can choose any segment on the map. Figure 25 shows the rating process for segment number 110. Note that on the top of the map the different available land uses are presented. After each segment of the grid has been rated, a color will appear that will denote which land use is determined by the application to be optimal.

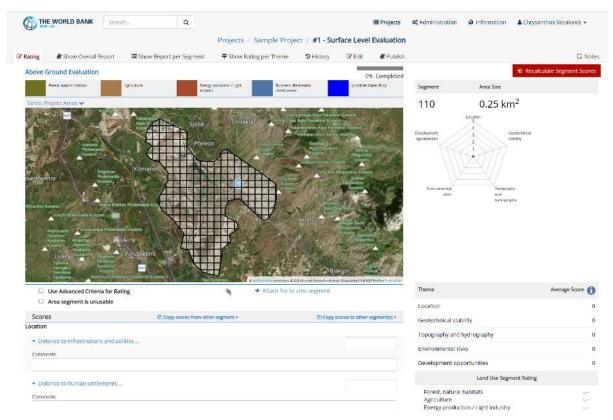


Figure 25: Rating an area segment

As soon as the user clicks on a cell grid with the mouse pointer, the appropriate scoring categories are displayed (Figure 26 and Figure 27). The scoring categories displayed depend on the **selected Mine Type**, which is shown at the top left side of the map display. The user can then assign score values to each category. On the top right side of the map displays the overall progress of the rating is being displayed using a progress bar. Each time an area segment is rated the progress bar updates automatically.

The rating themes for both above ground and below ground mine types follow the same logic. Irrespective of the mine type, (above ground or below ground), all the five themes shown in Figure 26 and Figure 27 should be rated.

1. Location:

Above ground	Below ground	
 Distance to infrastructure and utilities 	 Proximity to infrastructure and utilities 	
Comments	Comments	
Distance to human settlements	Proximity to human settlements	
Comments	Comments	

Geotechnical stability: 2.

Above ground

Above ground	Below ground	
Geotechnical stability	Geotechnical stability	
 Expected residual ground settlement 	 Continuous spatial movement (subsidence) 	
Comments	Comments	
Slope stability – seismic risks	Discontinuous movements (sinkholes)	
Comments	. Comments	
 Impact of groundwater rebound (applies especially to interior dumps) 	Hanging wall collapse	
Comments	Commenta	
	Shaft failure	
	Comments	

Topography and hydrography: 3.

Above ground

Surface gradient and relief	
Comments	
Surface drainage Comments	
Hydrological risks - extreme precipitation events and flooding	
Comments	

Below ground

Topography and hydrography Saturated low lands	
Comments	
 Hydrological risks – Sudden flooding conditions 	
Comments	

Figure 26: Rating criteria 1-3

4. Environmental risks:

Above ground

Environmental risks Contamination of dumped materials	
Comments	
Current / manifest environmental impacts of ongoing Lignite production (which could continue for 30 more years): dust, emissions, noise, vibrations, Comments	
 Proximity to operating TPPs, including after potential repurposing, lignite bunkers, fly ash stockpiles Comments 	

Below ground

 \mathbf{z}

Comments	
Abandoned Mine Methane (AMM)	
Comments	
Spontaneous combustion and underground fires	
Commenta	
Proximity to operating TPPs, mine shafts, bunkers, fly ash stockpiles	
Commence	

5. Development opportunities:

Ownership Comments	
Comments	
 Permitting conditions 	
Comments	
Reclamation status	
Commenta	
 Funding availability 	
Commenta	
	Comments Reclamation status Comments Funding availability

Figure 27: Rating criteria 4-5

Figure 28 presents the rating screen for an above ground mine type.

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Dise Advanced Criteria for Reting Area segment is unusable	 Attach On to area adjoinent 	Latation	
Scores	2) Calify recent for	on Athen second a	
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a contractor			
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Figure 28: Rating for surface mines (above ground)

When rating an area or a cell, the segment (cell) number is displayed (i.e., 118) and the cell is highlighted (Figure 29). The user can zoom in or out of the study area map. The user can upload a different map for each study area, for example a topographic map or any other map. Under the selected cell the topographic map provided by the mine is overlain on top of the satellite image. On the right of the screen the segment number is displayed together with the area size and the spider graph of the rating for this segment.

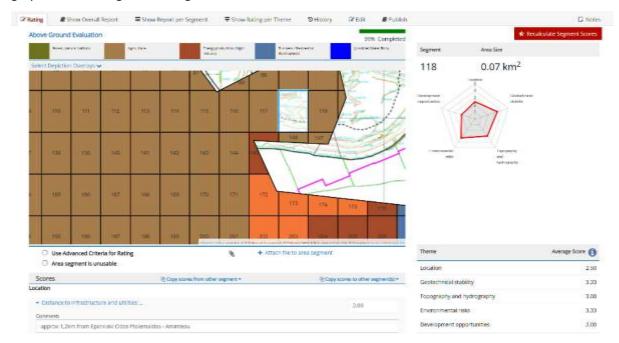


Figure 29: Highlighting the cell selected for rating

Underneath the map, right above the criteria scoring list, the user can select to use "Advanced Criteria for Rating" (by checking the appropriate checkbox) or even mark the cell as unusable by checking the "**Area segment is unusable**" checkbox. If the "**Area segment is unusable**" checkbox is checked a dropdown box appears in which different predefined land uses are assigned which can be given to the selected segment (Figure 30). For example, these land uses can include prohibited areas for any development due to archeological findings. The "unusable" segment is assigned a different color due to the predefined land use and is excluded from the rating procedure.

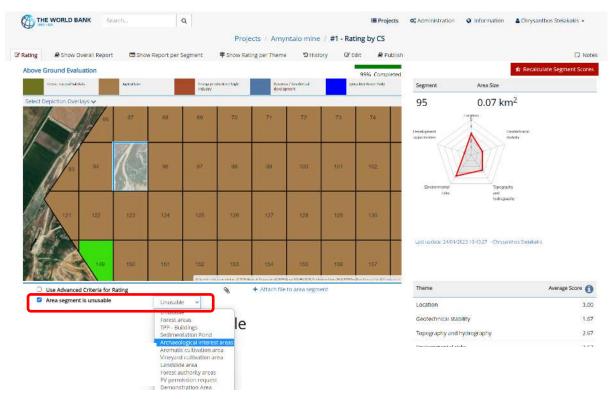


Figure 30: Reasons for rendering a cell "unusable"

If neither of these two special cases are selected, rating can be completed by utilizing the normal "simplified" criteria. When an area is rated based on a theme, a rating value can either be entered directly in the right-hand side score box or selected by clicking on the blue text corresponding to the appropriate rating information (Figure 31). Also, a comment regarding the rationale or the information behind the rating can be included under the rating values.

For example, when rating for the "Geotechnical Stability" theme for an above ground mine and the "expected residual ground settlement..." is evaluated for a waste fill, the user can use the predefined criteria such as the overburden height, the time of placement and the equipment used for placement. In this situation the user has the following information about the waste fill: "*The area has overburden between 50 and 70m and the waste material was placed 12 years ego, by a stacker*". This information places the rating between 2.00 and 3.00 so the user can manually enter "2.5" in the right box beside the criterion. This example is shown in Figure 31.

Geotechnical stability Expected residual group 	ound settlement				2,5
overburden H>120m, placement time <5y, Fill Area >10km2, Stacker placed 1.00	overburden 70 <h<120m, placement<br="">time 5<t<10y, area<br="" fill="">5<a<10km2, stacker<br="">placed 2.00</a<10km2,></t<10y,></h<120m,>	overburden 30 <h<70m, placement time 10<t<20y, Fill Area 1,5<a<5km2, Heavy dumper 3.00</a<5km2, </t<20y, </h<70m, 	overburden 15 <h<30m, placement time 20<t<40y, Fill Area 0.5<a<1.5km2, Ligth dumper - truck 4.00</a<1.5km2, </t<40y, </h<30m, 	overburden H<15m, placement time T<40y, Fill Area A<0,5km2, Compacted 5.00	
Comments					
The area has overbur	den between 50 and 70m a	and the waste m	aterial was placed	12 years ego, by a stacker	
 Slope stability – seisn 	nic risks				
Comments					
 Impact of groundwat 	er rebound (applies especia	ally to interior du	ımps)		

Figure 31: Rating for a specific theme

By clicking on the rating number under the appropriate criterion, the corresponding value will be entered as the rating for this criterion. The numerical value can be adjusted either by clicking and inserting a value from the keyboard or by using the up and down arrows. For example, if a score between 2 and 3 is needed, then the value of 2 can be selected and then adjusted to 2.5 which corresponds to a rating between 2 and 3.

Once the rating of a cell is completed and rating values have been assigned to all criteria, the rating should be saved by clicking the **save** button at the bottom of the screen (Figure 32). Once the rating values are saved, the rating will appear on the spider graph. Also, the average score for the different criteria is shown at the left bottom of the screen together with the assigned typology for the cell (Figure 33). The user can then click on "OK" at the bottom of the screen and can continue rating of a different cell.

Development oppo					
 Added land valu 	ie due to its develo	pment potential			4,00
Negligible	Low	Moderate	Substantial	High	
1.00	2.00	3.00	4.00	5.00	
Comments					
			Save		
W-1 (1	barranda a Castalada				

Figure 32: Completing the rating process

Forest, natural (habitats Agriculture		Inductry, energy production	Bucineza, recreation, tourism	Possible Water Budy	Segment	Area Size	
23 <u>15</u> 70 4 33 22 22 10 800 mi	57 68 22 50 25 47 55 81 43 46 67 52 60 10 55 65 7 22 40 42 33 74 63 39 13 9 41 1 77 10 17 36 19 24 97 44 89 71 24 97 44 85 19 24 97 44 86 71 24 97 44 86 71 24 97 44 85 54 54					91 Development opposite Creditionmentar	naa Topography and hydrogra	
	need Criteria for Rating ment is unusable		+ Attach	file to area segment			· · · · · · · · · · · · · · · · · · ·	An Area and an Arabitation
	ient is unusuure					Location		1.00
Scores Location				6월 Copy score	s from other segment -	Geotechnical stai	bility	1.67
	frastructure and utilitie	5 m			1.00	Topography and	hydrography	1.67
Comments						Environmental ri	sks	2.67
Quite far for in	nfrastructure and utilitie	5				Development op	portunitier	1.00
· Distance to hi	uman settlements				1.00	pereoptrienc ob	portunides	1.00
> 10 km	10 - 5 km	5 - 2 km	2 - 1 km	0 - 1 km			Land Use Segment Rating	
1.00	2.00	3.00	4.00	5.00		Forest, natural Agriculture Industry, energ		7.00 19.00 26.00

Figure 33: Displaying the rating of a cell

Once rating of a cell is completed, the application will access the next cell by identified numerical order. At any time, the user can select a different cell. If most of the ratings of the cell that will be rated next are similar to the ratings of a previously rated cell, then the scores previously assigned can be copied to the current cell by clicking on "**copy scores from other segments**". A drop-down menu will then appear so that the user can enter the cell number from which to copy the rating (Figure 34).

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Use Advanced Criteria for Rating	to GalitisheedMap contributors, 5-2021 Micros	ch file to area		ian Arbus DS (6-2)	021 TomTom Term
Scores			包 Copy score	s from oth	ier segmen
	Copy Criteria Score values from segme	nt: 1	~	ОК	Cancel
ocation				-	
 Distance to infrastructure and utilities Comments 				3	
 Distance to human settlements 				4	
Comments					

Figure 34: Copying ratings from previously rated cells

Furthermore, if the user wants to assign the same scores to a set of other area segments, they can click on "Copy scores to other segment(s)" and check on the ids of the segments to copy the scores to.

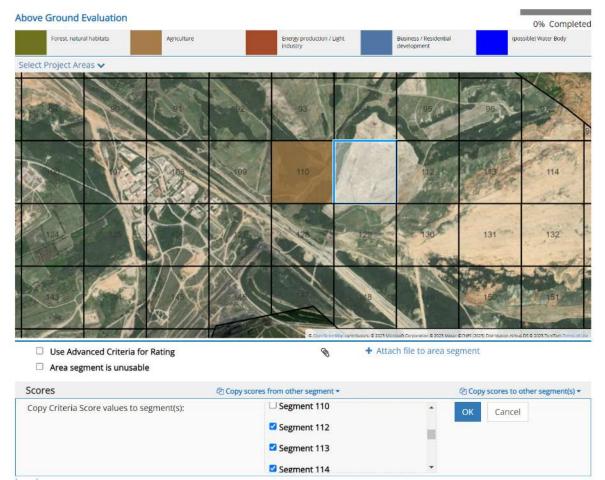


Figure 35: Copying ratings to other segments in the area

Once the user has copied the scores to/from other cells they can adjust some of the scores to be more precise for a particular area segment. So, the user has to select the specific area segment, adjust any scores that need to be adjusted and click on save. This saves the user time from having to go over all the score values that can be the same with the originally scored segment and allow them to only apply the score to the different score sections.

Attaching Extra Documentation and Information

During the cell rating process, the user may upload a file which has been used for the rating decision, e.g. a borehole report, an environmental report, a photograph or any other file that includes additional information, and attach it to the cell being rated. This file is stored for that cell only and can be reviewed in a later stage and/or can be seen by other Raters who may be rating the same project.

To attach a document to a cell, click on **"Attach file to area segment**" which is located below the map and above the "Copy scores from other segments". In the form that appears (Figure 36) the user can select the file through the browse button and can also add comments regarding the uploaded file.

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	Document file Document file Comments	Browse No file selected.	rest, natural habitats moulture dustry, energy production isiness, recreation, tourism	0.00 0.00 0.00 0.00
25 26 27 28 2	0 11 12	Upload Document Cancel	le to area segment	ner segment *

Figure 36: Attaching documentation to a project area segment (cell)

Rating Results and Reporting

As soon as the rating of the selected area is completed the colored typology map is displayed on the screen together with the spider graph for the selected cell. The user can then review any cell and modify the rating to new values (Figure 37).

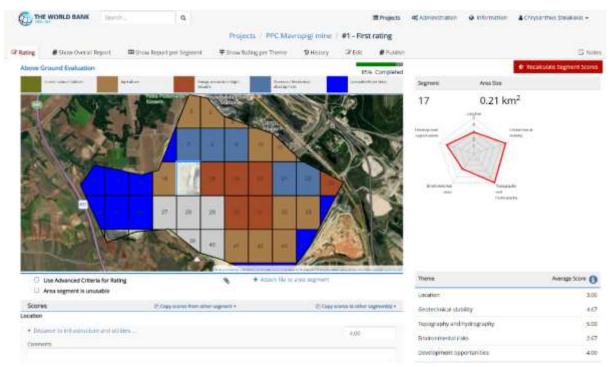


Figure 37: Completed rating

When the rating process is completed, or even during the rating process, the user can click the "Show Overall Report" tab on the navigation menu at the top of the screen.

The final outcome of the rating will then be displayed including the map with the different assigned typologies (Figure 38).

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Figure 38: Final rating outcome

Under the map the project information is displayed including the total area that was selected for rating, the number of segments and the segment dimensions (Figure 39).



Project Information

Project Area	6.45 km ²	Mine Type	Above Ground
Total Area Segments	48		
Segment Width	0.50 km	Segment Height	0.50 km

Usage Statistics

%	Total Area Size	Total Segments	Utilization	
14.58	0.94km ²	7	Industry, energy production	
10.42	0.67km ²	5	Business, recreation, tourism	
0.00	0.00km ²	0	Forest, natural habitats	
22.92	1.48km ²	11	Agriculture	
27.08	1.75km ²	13	Possible Water Body	
75.00	4.84km ²	36	Total	
%	Total Area Size	Total Segments	Inusable Category	
10.42	0.67km ²	5	Unusable	
10.42	0.67km ²	5	Total	

Figure 39: Project rating outcome and statistics

The different typologies are then presented, including the number of cells with the same typology assigned and the percent of the total area that each typology covers (Figure 39)

From this page, users can also export data for the rating. The export functionality is available by clicking on the "Export Data" button on the top right, which in turn will display the export options.

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Q.	541	2 3		2 Export PDF Report
14	at elle			🖸 Export Rating Data
-	Man a		10	Expert GIS Data
-	Make a			Export GIS 0

Figure 40: Exporting report files

The export options available are:

- Export PDF Report -- A short one-page project report that is a printable/distributable form of this report page.
- Export Rating Data An excel file that contains information regarding the rating such as area data, and the scores per area segment
- Export GIS Data Exports a CSV file that contains the coordinates of each area segment along with the background color and the Utilization Category result. This file can then be imported to GIS applications such as QGIS for further use.

After the rating and reporting have completed the user may select to edit the existing rating or create a new rating project that pertains to the same or a different area in the same or different location / country.

When more than one ratings have completed for a specific project, an overview of each rating's outcomes can be displayed by clicking on the "**Results**" link in the Project Navigation Menu.

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#	Comments	Mine Type	Started On	Started By	Last Updated	Updated by	Status	Report	
<u>8</u>)	Surface Level Evoluation	Above Ground	24/04/2023 10:27:13	Chrysanthos Steiakakis	24/04/2023 10:49:15	Chrysanthos Steiakaids		Show	* Delete
2	Underground area evaluation	Below Ground	24/04/2023 10:28:05	Amalia Tziovara	24/04/2023 10:28:05	Amalia Tziovara	Ť	Show	× Delete

Figure 41: Overview of project ratings

This will show the utilization category percentages derived for each rating conducted, as well as some basic information about the rating, such as the user that created it, the time of last update and the Mine Type (Figure 42).

THE WORLD BANK Search	Q EProjects Of Administration O Inform	mation A Chrysenthos Stelakakis +
	Projects / Poland, Ruda Štąska / Rating Results	
Ratings @ Documents @ Depictions III Res	🛤 💉 Combined Evaluations 🕮 Area Data 🗰 Missilly Area 🐼 Exit Attributes	🖼 Note
P Create Combined Evaluation		
2 - KWK Slaska Above Ground	Utilization Results	
Started By: Helen Ba Thanh Nguyen	Forest, natural habitats	0.00 %
Last Updated: 11/01/2029 Mine Type: Above Ground	Agriculture	0.83 %
and type more closed	Energy production / Light industry	81,15.9
	Business / Residential development	15.57%
	(possible) Water Body	0.00 %
4 - KWK Bielszowice Above Ground	Utilization Results	
Started By: Helen Ba Thanh Nguyen	Forest, natural habitats	0.00 %
Last Updated: 05/01/2023	Agriculture	0.00 %
Mine Type: Above Ground	Energy production / Light industry	63.45.96
	Business / Residential development	3.36%
	(possible) Water Body	30.67 %
	Utilization Results	
1 - KWK Pokoj Above Ground Started By: Helen Ba Thann Nguyen	Forest, natural habitats	0.00 %
Last Updated: 09/12/2022	Agriculture	0.00 %
Mine Type: Above Ground	Energy production / Light Industry	44.19.96
	Business / Residential development	54.26 %
	(possible) Water Body	0.00%

Figure 42: Summary of multiple ratings for the same project

Combined Evaluations

In the results overview, the user can generate combined evaluations that will use the data from a selection of the various existing ratings conducted. By clicking on "**Create Combined Evaluation**" they will be presented with a set of controls to assign a **title and description** for the combined evaluation as well as "**checkbox**" selections to choose which of the ratings will be considered. By default, all project ratings are selected. At least two ratings should be selected for the evaluation (Figure 43).

	Search	۹			E Projects	of Administration	• Information	🌢 Chrysanthos Steiakakis 👻
			Projects / P	oland, Ruda Śląska / Rating Res	sults			
Ratings 🖉 Documents		I≣ Results	Combined Evaluations	🕮 Area Data 🛛 🚺 Modify Area	🕼 Edit /	Attributes		🔾 Notes
Create Combined Evaluation Create new Combined Evaluation								
Select All Evaluations		All Are	a ratings	Combined results				Submit Cancel
🗳 2 - KWK Slaska Above	Ground			Utilization Results				
Started By: Helen Ba Thanh Ng	uyen			Forest, natural habitat	ts			0.00 %
Last Updated: 11/01/2023 Mine Type: Above Ground				Agriculture				0.82 %
				Energy production / Li	ight industry			81.15 %
				Business / Residential	developmer	nt		15.57 %
				(possible) Water Body				0.00 %
4 - KWK Bielszowice A	ove Ground			Utilization Results				
Started By: Helen Ba Thanh Ng				Forest, natural habitat	ts			0.00 %
Last Updated: 05/01/2023				Agriculture				0.00 %
Mine Type: Above Ground				Energy production / Li	ight industry			63.45 %
				Business / Residential	developmen	nt		3.36%
				(possible) Water Body				30.67%

Figure 43: Creating combined evaluations

Once all the required inputs are provided, the user can click on "**Submit**" (Figure 43) and the combined evaluation will be generated. The "combined evaluation" compares every segment of the project that has a different typology regardless if it is an above or below ground rating and returns the typology with the lowest rating. For example, if five (5) ratings have been made for an area (and a segment), and three (3) ratings have produced an agricultural use and the other two (2) ratings have produced a residential development, the typology with the lowest value is assigned in the combined evaluation which for this case is agriculture. It must be pointed out that even if a large majority of ratings have selected a typology of high value, even one with low value, will be the dominant one.

Once the evaluation is completed the user will be presented with a view where a map of the evaluation results is displayed. By clicking on each cell, the user will be presented with the information regarding the values that were derived by each rating and the overall result based on the evaluation (Figure 44).

CP			Proje	cts / Poland, Ruc	la Śląska / Comb	ined Evaluations / Ruda	Slaska all are	as	
tatings	@ Documents	Sel Depictions	🛲 Results	Combined Evaluat	ions MArea Deu	🖬 Modify Area 🔗 I	dit Attributes		G (
CONTRACTOR OF THE OWNER OWNER OF THE OWNER	port per Gegment	# Show Good	A PROPERTY OF A		a tamoéosty te tu				
habitatia	and the	roble:	energe proskalians) Ulfriterikology	Heatshell Realizated begis physics	Spramford Worker 19973	Rating	Last Updated	By	Scored Category
Juni		Ser 1	A AND	State March	111	KWK Pokaj Above Graund	09/12/2022 10:41:07	Amalia Tziovara	Energy production / Light industry
and a second	Pawkiw	Chiny U		H eariest	Alexandra ()	KWK Slaska Above Ground	11/01/2023 13:23:06	Am <mark>at</mark> ia Tziovara	
				Bykowina		KWK Ruda Above Ground	02/12/2022 14:15:08	Amalia tziovara	
T	hietrowice)					KWK Bleiszowice Above Ground	05/01/2023 17:13:06	Chrysanthos Stelakakis	
10,000						Segment		Coort	Sinates
12		All a		a ser the	Kochlower	111		Longitude	Latitude
and the	1.000	Mr. A.		ALL STREET	A COLORED	Area Size	0	18.880550	50.275058
1		A		NY 120		9965.69 m ²	1	18.881953	90.275 <mark>058</mark>
River .			1 4 K K K K	Contraction of the second	A Contraction		2	18.861953	50,274159
A. 2		7 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the second states		3	18.880550	50.374159
WE REAL PROPERTY.		A condepied are	where a 2022 Manager Consider	e é acta los se é Dycalitatio à Ferreiro e l	inter all & and Taylors way pilling		2.8	18.880550	50.275058

Figure 44: Presenting combined evaluations

The user can also click on "**Show Report per Segment**" to display a list of all area segments and their corresponding evaluation results as shown in Figure 45.

THE WORLD BANK = Projects			0% Administration - 🛔 Chrysanthos Stelakakis -
Project Area Segments Evaluat	9 10 11 10 10 10 10	27	
1 Agriculture	200-14		
Rated Category	Rating	From	By
Agriculture	Surface Area Evaluation	17/06/2021 12:57:24	Nikos Stelakakis
Business, recreation, tourism	Subsurface Evaluation	11/06/2021 11:34:11	Nikos Stelakakis
2 Industry, energy pro	duction		
Rated Category	Rating	From	Ву
Industry, energy production	Surface Area Evaluation	17/06/2021 12:57:24	Nikos Stelakakis
Business, recreation, tourism	Subsurface Evaluation	11/06/2021 11:34:11	Nikos Stelakākis
3 Business, recreation	n, tourism		

Figure 45: Combined evaluation ratings for a specific cell

The user can also create a PDF version of this report page by clicking on "**Create PDF Report**" at the top right-hand side of the page. The user can access all combined evaluations for a particular project by clicking on "**Combined Evaluations**" at the project navigation menu (Figure 46).

	WORLD BANK	Snight-	۹					III Projecta	C Administration	 Information
				Projects	Poland	l, Ruda Śląska	Combined Ev	aluations		
(if Ratings	@ Documents	Depictions	I Results	Combined Evaluation	ations	M Area Data	Modify Area	🕅 Edit At	tributes	
Title			Created I	By:			On			Ratings
First take			chrysant	tios stelakakis			29/11/2022 14:14	100		4
thirds Siz	dur all arreas		Chrysant	heis Statakakin			08/12/2022 15:40	31		- 22

Figure 46: Combined evaluation options

Enhancing Project Views

Uploading Extra Depictions

The user can add extra layers to the project area map views. In the project navigation menu, click on "**Depictions**" (Figure 47)

6	THE WORLD BANK	teach	q		III Proje	as et Administration	• enertatio		nos statakakos +
20				Projects / Amyritai	o mine - Ratings				
Rating	e #Docaments	B Departoria 👘	anum 🖬 Area Cata	B Statty Area 22 22	a Adribudes				Ginit
•	bart one calling								
	Comments	Mone Type	Started On	Started By	Last Updated	Updated by	Status	Report	
S.	Budling by CS	Above Gommit	20/05/2020 17:36:45	Crysarthin Stellikako	24404/2825 1844.41	Cirysanthon Stelakalitis	1	# Show	N Delete
	POC book uses and roting.	Above Ground	10/05/2020 21:46:41	Chrysleminis Steascake.	16/03/2022 09:20:23	Chryslerthol Stellakalis	1	# Ston	* Delete

Figure 47: Depictions

This action will navigate the user to the "Depictions" upload page (Figure 48).

THE WORLD BANK	Q			E Projects	< Administration	• • Information	Chrysauthos Stelakavis. •
		Project	s / Amyntaio mine /	Depictions			
	Depictions Executs	🖬 Area Cata 🛛 📓 Mod	ty Area 🛛 😨 Elst Attribut	tes:			Q %
+ Add Depittion	Comments	Top Left Coordinates	Bottom Right Coordinates	Depiction Active	Uploaded Upl	oaded By	
Amyrtain netsine Tilperg	Amyrtais autide 11 mmert	21.614336 40.601761		14/05/2820	14/05/2020 Chr	ysanthos okakis	Uptize x Delete
IPC Land Reclamation 2015.prg	INCland redamation 2018	21.601414 40.649143	21,696256 40,961530	01/05/2020		ysanthos akakis	Delete
PPC_Amyritalo_Pinal Landones.pri	g PPC Final land use proposal	21.597274 40.649147	21.496731 40.359747	61/05/2820		ysanthos akakis	Dekte

Figure 48: Depictions upload page

By clicking on "**Add Depiction**" the depiction upload form will be displayed. There the user can choose to upload any geolocated image that needs to be displayed as an overlay on the project area maps (Figure 49).

Projects / Amyntaio mine / Depictions	/ Upload
Amyntaio mine - Add	Depiction

Depiction file	Browse No file sel	cecca.		
Depiction Date				
op Left Coordinates	Lng		Lat	
Bottom Right Coordinates	Lng		Lat	
Comments				

Figure 49: Adding a project depiction

The user must provide the top left and bottom right coordinates in WGS84 (GPS) format. This will enable the application to display the image in the proper position on the map. Multiple images or

maps can be uploaded for an area. These images include topographic maps, hydrogeological maps, water elevation contours, natural habitat areas, contaminated sites, restricted areas, etc. These can be used during rating for the user to be able to address the information per segment more easily.

Changing Depiction Views During Ratings

The depictions uploaded will be displayed as layers over the actual map but below the project area grid as shown in Figure 50.

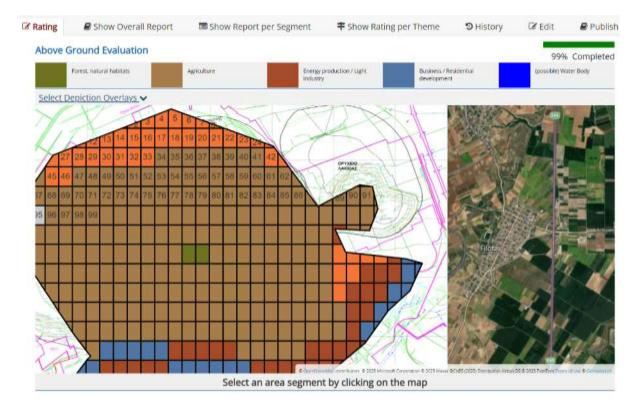


Figure 50: Depiction overlays

Uploaded depictions can be deactivated or re-activated from the "Depictions" list page (Figure 51).

Image File	Comments	Top Left Coordinates	Bottom Right Coordinates	Depiction Date	Active	Uploaded On	Uploaded By	
Amyntaio outside fill.png	Amyntaio outside fill correct	21.614336 40.601761	21.686698 40.559582	14/05/2020		14/05/2020	Chrysanthos Steiakakis	× Delete

Figure 51: Activating and de-activating depictions

Depictions marked as active will be displayed on the map, while non-active depictions will not. While conducting actual ratings and evaluations, the user can easily toggle the visibility of each active depiction directly via the map. The option **"Select Depiction Overlays"** will be displayed on top of the map. When the user clicks on it, a list of the active depictions will be displayed (Figure 52).

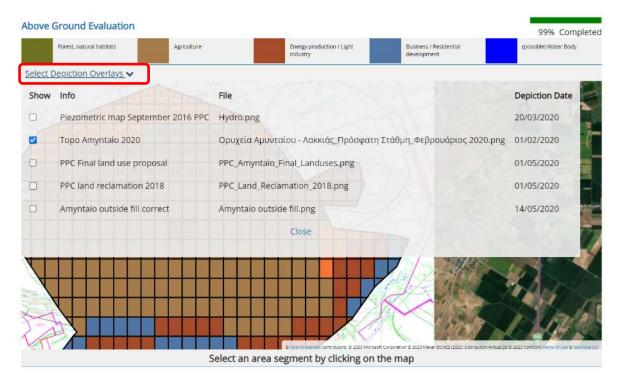


Figure 52: Selecting depiction overlays

The user can select to display only a subset, or even none of the available depictions. This will automatically hide any depictions that are not selected. This, however, does not change the status of a depiction being "Active" as in the previous step. This means that if other users are conducting ratings, they will be able to see the depictions and perhaps even choose a different subset of depictions without affecting one another.

Publish Rating

LURA provides functionality to share the results of a rating, or even it's progress up to that point with users that do not have LURA application accounts.

By selecting "Publish" on the rating context menu, the user is navigated to the "Publish rating page"



By clicking on the "**Publish**" button the user will then be navigated to the publish attributes page. There, they will be able to provide all the required e-mail addresses of the third party users that the user conducting the rating wants to give read-only access to.

THE WORLD BAN	K Gearman	Q			III Projects	A ANTIHIST Albert	O Anternation	A Departus Season +
			Projects Amyntaio mir	ne #1 Rating by	CS Publish			
Rating Stow Cour	untigen 📼 🗉	how Report per Segme	nt . These listing per theme	Directory Pacie	R Pulutuh			CE Person
Publish Amy	ntaio mine	e - Rating b	/ CS					
Published Rating Attrib	ube						1	of notify All
Refut	2 Active	identifier	1450185a-4241-1140-6494-001554a4855	10	Published Oin:	26/06/2023 16 12:46	By: CI	rysarithes Stelakalos
					Edited On:	34/64/32/3 10:12:46	By Ch	rysanthist Stelakakrill
Recipientisc	some	one@example.com					Neuty	# ficmasa
	=====	party@nune_nul					Marine .	a liennae
Add Recipient (email):	- interiord	ndSriveranni /						
							1000	

Figure 54: Publish rating to third-party users configuration

Once all required e-mail addresses are submitted, the user can then click on "Notify All". This will send an e-mail message to all the specified users with a link to the published rating view.

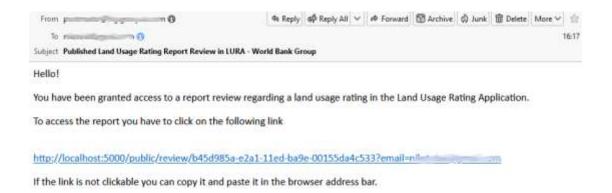


Figure 55: Sample third party read only access e-mail sent by LURA

After the configured users receive the email, they can click on the provided link and gain access to the rating in read only mode. On accessing LURA, these users will be able to see the "Overall Report" and "Report per Segment" sections for the published rating, in a read-only access mode, meaning that they will not be able to provide any kind of input to LURA.

This access can be revoked at any time by removing the email address of the required users from the "Publish" settings page that was used to provide the access in the first place.

Collaboration and Tracking

Notes

LURA provides collaboration functionality for users in the same project team. When conducting and/or supervising Land Ratings, team users can add notes that are accessible to all users in the project team and can be associated with the project and/or rating in a granular manner.

To see the notes provided or add new ones, the user must click on the "Notes" link on the context menu. Notes is available in both the Project context menu as well as the Rating context menu (see Context Menu)



Figure 56: Notes Navigation Option

This will pop-up the notes form that displays the notes for the current project.

THE WORLD BANK	0		Projects 60 Administration	Ca information	A Chungellon Chainen
		Notes			🖌 Ann Note
Specific to Project 🔾 Rating 🔾 Segn	hent				
Chrysanthos Stevakalos (c.stelakakis@	geosysta.com/ commented on: 24/04/2023 16/	53/49			Jerete
The values set for the particular area i	argment where decided upon after visiting the a	area for more thorough examination.			
All distances have been measured usi	ng the Gill Application.				
Rating: Derfeld Conf. (websition from Segment)	ta .				
Amalia Tziovara la tziovaraĝigoosysta.	conti commented on: 03/05/2023 03:59:48				
All depiction files have been received	from the main office and will be uploaded and g	eo-located property to be displayed on the rating maps	x,		
Nikos Stelakakis (riikosofigeosysta.com	9 commented on: 03/05/2023 10:01-38				
Burehole data for the NW section of th	he main mine area do not indicate any real cont	amination residue. Still waiting on the environmental a	gency report.		
Balling: The Galaction County Country States					
Amalia Telowara ta Lekovara Byeosysta	cond commented on: 03/05/2023 10:06:16				
Same values have been copied to neig	phoning segments 111-116 and 128-134. Please	review in case any specific criteria need to be updated	a.		
Berry, Serlass (and Pontation And Segment)	UM.				
Chrysanthas Stelakabis (c.stelakakis@	geosysta.com/ commented on: 03/05/2023 10:	97/14			# Detate
It seems alright. Will keep it as is and r	move on to the next areas in line for evaluation.				
Narry, Northen Cauld Postcarter Area Regment	110				
		Clofer			
dion			Topography and hy	TOTTADDA	

Figure 57: Project Notes display pop-up

To add a new note, the user will have to click on the "Add Note" button on the top right corner of the notes form.

	Notes	A 1000
The values set for the particular area segment where decided upon after visiting the area for more thorough examination.		
	6 6 F	See
	ter visiting the area for more thorough examination.	Cancel
-		
Cow	_	

Figure 58: New note creation form

When adding a new note, the user can specify the scope of the note by selecting one of the three alternatives:

- Project Any notes added with this scope selected will be visible to the project team, regardless to what page of the project and or rating is being displayed. This is the most generic scope for notes added.
- Rating Notes added with this scope selected apply only to the current rating being conducted by the user. These notes will be visible to users only if they are accessing pages of the specific rating.
- Segment This is the most specific scope available for Notes. Any notes added with this scope selected apply to the specified area segment for the specified rating. These notes are only visible if the user is accessing the rating and segment for which this note has been added.

When viewing the list of notes, the user can filter the list results based on the scope selected. If "Project" is selected, then all the notes of the project will be displayed. If "Rating" or "Segment" is selected, then notes results will be filtered based on the currently accessed rating and/or segment.

When working on a specific area segment, if any notes have been added for the segment, a notification will also display on the right, right beneath the area theme "Spider graph".



Figure 59: Area segment sideview with Note indication

By clicking on the notification, the note window will pop up and display the note along with any other notes regarding the selected segment.

Notes are an easy and straightforward way to allow the users of LURA working on the same project to collaborate.

Edit History and tracking

During evaluation of an area in LURA, the complete history of actions, changes and modifications are being kept in a log. In this log, the basic information about the action performed by the user, the date and time of the action as well as enough details about the action are being stored.

Users with view access to the rating can see a list of all the modifications by clicking on the "History" option on the navigation menu.

THE WORLD BANK	nha		Projects 🔍 Administration 🛛 🖓 inform	ation A Chrysanthos Stelakaids -
	Projects / P	oland, Ruda Šląska 🥖 #1 - KW	K Pokoj Above Ground / Edit History	
Rating 🖉 Show Overall Report	Show Report per Segment 🛛 🕈 Sho	w Rating per Theme SHistory	🕼 Edit. 🖉 Publish	D N
Poland, Ruda Śląs	ka - KWK Pokoj Above G	round Modification	s History	
Datetime	User	Area Segment	Modification Type	
09/12/2022 10:41:07	Amaila Tziovara	124	Score Values Opdate	Details
09/12/2022 10:40:30	Amalia Tziovara	25	Score Values Update	Details
09/12/2022 10:39:52	Amaila Izloyara	75	Score Values Wodate	Details
11/11/2022 16:20:33	Helen Ba Thanh Nguyen	21	Segment Rolling Unusable Attributes Change	Details
11/11/2022 16:20:31	Helen Ba Thanh Nguyen	21	Segment Rating Linusable Attributes Change	Details
11/11/2022 16:20:27	Heien Ba Thanh Nguyen	12	Segment Raling Unusable Attributes Change	Details
11/11/2022 16:20:21	Helen Ba Thanh Nguyen	12	Segment Rating Unusable Attributes Change	Details
11/11/2022 16:20:17	Helen Ba Thanh Nguyen	12	Segment Rating Unusable Attributes change	Details
0421172022 02:19:14	Helen Ba Thanh Nguyen	36	Cojoled score Valves from segment 32	Options
04/11/2022 02:19:14	Helen Ba Thanh Nguyen	43	Copied Score Values from segment 32	Details
04/11/2022 02:19:14	Helen Ba Thanh Nguyen	44	Copied Score Values from segment 32	Details

Figure 60: Evaluation actions history Log

The log shows the list of changes in an overview table with the following columns:

- Datetime When the action was performed and recorded.
- User The name of the user that performed the action.
- Area Segment The numeric ID of the area segment the action has been performed for.
- Modification Type The type of action performed. E.g., "Score values update", "Score values copied", "Attributes change" etc.

If the user clicks on the Modification type link of the specific event, the "Event Details" view will be then displayed. This contains more detailed information about the action. For example, if the user had set the scores for some criteria the values assigned will be shown.

THE WOR	ALD BANK Search	Projects	Poland, Ruda Šląska 🕐 #1 -	KWK Pokoj Above Ground	/ Edit History / Modification De	tails
ating 🖉 s	now Overall Report	🖻 Show Report per Segn	ent 🛛 🖷 Show Bating per Theme	Diffectory Contact	# Publish	D Not
Poland,	, Ruda Śląsk	ka - KWK Pokoj	Above Ground Mo	odifications Histo	ry	
Mudification	netals					
	Datetime	User		Area Segment	Modification Type	
€ Previous	09/12/2022 10:01	1:07 Amalli	Tziovara	124	Score Values Update	
Score values	101					
Distance	e to infrastructure	and utilities				Score
						5.00
Distance	to human settler	ments				Score
						5.00
Expected	d residual ground	settlement				Score
						5.00
Slope st	ability - seismic ri	sks				Score

Figure 61: Modification action log item details

On the top section of the page, the basic event information is displayed (the same that was shown in the list) and the detailed view shows the value assigned to each specific criterion during that activity.

Links for the "Previous" and "Next" change are available on the left and right of the top section to allow the user to go over the various entries without having to go back and forth from the list to the details view constantly.

Application Administration

Advanced users with the **Administrator privilege assigned** also have access to the "**Administration**" section of the application where they can modify most of the predefined inputs for the system. If a user has been assigned administrative privileges the user will be able to see an "**Administration**" link on the top right of the page (Figure 62).

THE WORLD BANK	Search	٩	Projects	4 Administration	an .	🛦 Chrysanthos Steiakakis 🕶
Figure 62: Administrat	ion option					

This will take the user to the main page of the application Administration section.

THE WORLD BANK	Search	Q			I II Pro	ijects 📽 Administra	tion Q Inform	ation 📲 Chrysanthos Stelakakis 👻
				Administratio	1			
Themes and Criteria	Score Categories	Wall Score Guide	La Utilization Scores	PP Category Cutoffs	O Translations	Evaluation Sets	👹 Users	🗞 Projects
Application Content				Ap	plication Usage			
Themes and Criteria					Isers			
• Score Categories				đo	Projects			
M Score Guide								
Mutilization Scores								
Category Cutoffs								
Q Translations								
Evaluation Sets								

Figure 63: Administration menu

Themes and Criteria

If the first option, i.e. "**Themes and Criteria**", is selected, the descriptions for themes and criteria can be edited.

Themes and criteria		
Evaluation Set	Showing Criteria for mine type	
otan 🔹	Abose ground	
Location		
Criteria	Favorable for	Unfavorable for
Democre to environment and another	Any security is process that important on derivery and importing of gooth or materials by road, and requires I produces significant amounts of energy and water, and solid and liquid water.	Recreational and an invasion paints and other man including uses may be negatively impacted by provinity to infrastructure.
Data-se to invitian anthemaints	Increational, built what rive March facilities would profit from cosenets.	inductinal activities counting notal, emissions, odors and other not ℓ -imparts downal be satisfied from settlements.
Geotechnical stability		
Citera	Reverable for	Unfavorable for
Repected residual group of settlement	Abust indexed for agreeture and tarests, recreation and loanan.	Can be extremely important for large scale structures with high loads and low universes esp. for differential sectoment.
topi matiy- onne nic	Potential risk for any utilitation Aphane.	Can be actively instancious for community insets and carety, and infrastructure result for slopes of GD. Relevant far about any use seconds, second rules need to be factored into ground stability asserts from the second stability.
indirect of Exercise tector and Oddinan external A to ease on practical	Almost reviewant for agonature and fueets, revealed and fourier; can sure profile buildening imparts due to creation of Mers, ponds and wellands with high tookgoal value.	Earlise very relevant and blave degistive impairs that large scale structure with lightbacks and that takenades each for differential entirement. Potential agricultural and transactional incurs due to waite perceiding timulge fly advised largets which decodes beauty music content in CD.

Figure 64: Administration of themes and criteria

The "Evaluation Set" drop-down list at the top left allows the user to select to edit the themes for any of the configured evaluation sets. (Described in Appendix 1: Evaluation Sets)

The "**Mine Type**" drop-down list next to it controls the criteria group that a user can edit, such as Above Ground mine type criteria or Below Ground mine type criteria.

By clicking on the criterion, the user can navigate to the corresponding edit page for that criterion (Figure 65).

Administration Themes and Orderia - Edit C	Marian Distance in administration and other d		
Location	una na francia na sumana ma na manana		
Distance to infrastructure an	nd utilities		
avorable for		Unfavorable for	
B / U # 5 X X # 4+	A · = = = · • •	8 / U 5 5 X X	
Any industrial process that depends on delivery and requires / produces significant amounts of		by proximity to infrastructure.	s and other non-industrial uses may be negatively impacted
_			
Overrides Generic Score Advances Criteria Researce Otheria			
and the state of t	Fil. Set.	Fil 5245.	Cut. State.

Figure 65: Editing the "distance to infrastructure and utilities" criterion

The edit page allows the user to edit the description text and format the text. At the bottom of the page, there are options to edit "Advanced Criteria" such as the criteria pertaining to slope stability.

Score Categories

If the "**Score Categories**" option is selected from the "**Administration**" menu, the user is allowed to modify the description and/or color of each Category (Figure 66). To accomplish that, the user should click the left mouse button on the blue colored text, and/or on the color icon that corresponds to each Category (Figure 66).

THE WORLD BANK Searc	ħ	٩				Projects	Ø Administration	Information A Chrysanthos Stelakakis
				Admin	istration /	Score Categories		
hemes and Criteria Score Cat	egories	📶 Score Guide	陆 Utilia	ation Scores	Category	Cutoffs @ Translations	Evaluation Sets	📽 Users 🛛 🖓 Projects
Category Attribute	s							
Evaluation Set:								
Default			Ç.					
Score Categories						Unusable Categor	ies	
Category	Color	Comments	Override	Override Score	Priority	Category		Color
Forest, natural habitats					1	Unusable		
Agriculture			0	#	2	Forest areas		
Energy production / Light industry				50003	3	TPP - Buildings		
Business / Residential development	-	<u></u>		145	4	Sedimentation Pond		
(possible) Water Body	-	Special category		1.00	5	Archaeological interest areas		
						Aromatic cultivation area		
						Vineyard cultivation area		

Figure 66: Editing category descriptions.

The user can also edit the Unusable Categories and change the respective color. The software allows the creation of more than one unusable category, since these categories may not be all known beforehand. The same or different colors can be assigned to different "Unusable Categories" that will eventually be displayed on the main map. The number of main categories cannot be increased or decreased because they are directly linked to the rating capability of the application.

Score Guide

In the **"Score Guide**" section of the **"Administration**" menu (Figure 63), the user is allowed to edit or modify the rating criteria scale. For example, by clicking on the "Edit" button on the right the value ">2.500m" can be changed to a different value, for example 5,000m (Figure 67).

			Ad	ministration / Score	Guide			
Themes and Criteria S	core Categories	Luid Score Guide	LUCITIZATION Scores	F ¹ Category Cutoffs	• Translations	Evaluation Sets	📽 Users	& Projects
Score Guide								
Evaluation Set:			Showing Criteria for	r mine type:				
Default			 Above Ground 			×		
Location								
Title								Applic
Distance to infrastructure an	d utilities							
1.00	> 2,500 m						₽ Edit	8
2.00	1,000 - 2,50	0 m					₽ Edit	0
3.00	500 - 1,000	m					/ Edit	
4.00	250 - 500 m	с. –					₽ Edit	
5.00	0 - 250 m						S EGit	8
Distance to human settleme	nts							
1.00	> 10 km						/ Edit	8
2.00	10 - 5 km						/ Edit	•
3.00	5 - 2 km						/ Edit	
4.00	2 - 1 km							
5.00	0 - 1 km						J Eot	2

Figure 67: Editing the score guide

If "Applicable" is deselected (unchecked) for any criteria, those criteria will no longer be displayed in the online area scores selection form.

This for example is something that could be used with an alternative evaluation set that needs less criteria for evaluations to be conducted.

Utilization Scores

If the "**Utilization Scores**" option is selected from the "**Administration**" menu, the user is allowed to edit or modify the weighting coefficients for each criterion (Figure 68).

THE WORLD BANK	deix01	Q.			Property.	C Administration Q Information A	Chipsaethos Stelanakis +
			Admini	tration - Ut	lization Scores		
Themes and Criteria 🔹 For	ne Galegories	ALSONE GARDE	NUtRation Scores	Category Cut	iffs @Translations #10	erilation Seta 🗰 Garra 🚳 Proje	-
Typical Land Re	purposi	ng Profiles					
Evaluation Set			Showing Citteria for m	the type:			
petion			 Above ground 				
Location							
Ortera			Forest, natural habitats	Agriculture	Shergy production / Light industry	y Business / Residential development	(possible) Water Bo
Distance to Mitrachine and	idities		1. der	1.80	+ 00.	\$.m	100
Distance to Numari sectionent	3		Littl	2100	4.00	5.00	100
Geotechnical sta	bility						
Criteria			Forest, natural habitats	Agriculture	Energy production / Light industry	y Business / Residential development	(possible) Water Bo
Expected residual ground settl	wment		7.00	3.00	4.00	4.00	1.00
Stope stability - searce mks			1.00	1.09	5.00	5.00	1.00
legant of groundwater rebour	nf (applies espec	tally to interior durigits	1.08	2.00	5.00	1.00	1.00
Fill settlement 2 statutily			1,00	3.09	0.00	4.00	3.00
Settlement only			1.85	2.00	4.00	- 4.00	1.00
Ro-Studiety prey			1.000	1.80	5.00	\$200	1 000
Dut/Tengnall statility			100	200	5.00	2.00	1.02
Topography and	hydrogra	aphy					
Criteria			Forest, natural habitats	Agriculture	Energy production / Light Industry	y Business / Residential development	(possible) Water Bo
Surface gradient and relief			1.00	4.00	1.00	6.00	1,00

Figure 68: Editing the weighting factors for each criterion

The scores defined in this form (Figure 68) will be used for the calculation of the Land Usage Categories scoring based on the input provided by the users in each rating category. Users updating the utilization scores must be very thorough as this table enables the application to derive the proper utilization category of an area based on the rating value inputs. If, for example, any criteria have been assigned with inapplicable values (e.g., all 1s or all 5s) the results of ratings will be confusing and meaningless.

Category Cutoffs

In this section the user can specify the Cutoff values for each category, for the selected evaluation set.

THE WORLD BANK	Search	Q,			🔳 Proje	cts 0 % Administra	tion @ Infor	mation 🌲 Chrysanthos Stelak
			Adminis	stration / Category C	utoff Values			
emes and Criteria S	co <mark>re</mark> Categories	Let Score Guide	Utilization Scores	Category Cutoffs	• Translations	Evaluation Sets	쓥 Users	🖧 Projects
Score Category	y Cutoff V	alues per The	eme					
Evaluation Set:			Showing Criteria for	r mine type:				
Default		*	Above Ground			*		
			Cutoff values set	to 0 will be ignored duri	ng the rating proce	55		
Theme		Forest, natural habitats	Agriculture	Energy production / Li	g <mark>ht</mark> industry	Business / Resid	ential developm	ent (possible) Water
Location		0	0	0			0	q
Geotechnical stability		<u>.</u>	<u>0</u>	0			<u>0</u>	<u>d</u>
	y	D	0	0			0	a
Topography and hydrograph								
Topography and hydrograph Environmental risks		0	0	2.00			3.00	0

Figure 69: Category Cutoff Values per Theme

These values set the cutoff point at which the area is no longer deemed as applicable for each category. If for example the user sets the value "2.00" to "Environmental Risks" for "Energy Production / Light Industry", any areas that score less than 2.00 in the environmental risks criteria, the area will be marked as non-viable for "energy production."

Any cases where the cutoff value is "0" means that no cutoff value applies for the combination of theme / category.

It is important to note that the cutoff values for an evaluation set significantly affect the outcome of the Evaluation Algorithm and should be configured with extreme caution.

Translations

LURA provides functionality to translate most of the texts shown in descriptions and titles of the various entities (Figure 70).

THE WORLD BANK I Projects	
Administration / Translations	
Translations	
Translatable Entities	
Themes	
Criteria	
Score Categories	
Score Guide	

Figure 70: Text translation

Users with administrative privileges can update the available translations for each of the supported entities. The user is presented with the English texts in read-only form and the translations provided in an editable section (Figure 71).

Administration / Translations / Criteria	2	
Criteria Translations		
Showing Criteria for mine type		Language
Above Ground	~	Ελληνικά
Τοποθεσία		
Distance to infrastructure and utilities	Απόσταση απο υποδομές και υπηρεσίες	
avorable for	Any industrial process that depends on delivery and s or materials by road, and requires / produces signific energy and water, and solid and liquid waste.	
		Οποιαδήποτε βιομηχανική διαδικασία που εξαρτάται σε παράδοση και αποστολή αγαθών ή υλικών οδικά και απαιτεί / παράγει σημαντικές ποσότητες ενέργειας και νερού καθώς και στέρεα και υγρά απόβλητα.
Infavorable for	Recreational areas, research parks and other non-Ind be negatively impacted by proximity to infrastructure	

Figure 71: Translation form for each entity

Evaluation Sets

An evaluation set contains a list of criteria per theme and their corresponding attributes such as score categories and utilization scores to be used in Land Repurposing projects. Creating a new evaluation set will make a copy of a previous evaluation set and all its attributes so that they can then be modified and used in new project ratings.

D'	THE WORLD BANK Search	٩			III Pro	ojects 🛛 📽 Administr	ation @ Inform	nation 🛛 🛔 Chrysanthos Stelakakis
576			Ad	ministration / Evalu	ation Sets			
theme	s and Criteria Score Categor	es bill Score Guide	🛦 Utilization Scores	Ra Category Cutoffs	O Translations	Evaluation Sets	📽 Users	& Projects
Ev	aluation Sets							
	evaluation set contains a list of c		eir corresponding attrib new evaluation set will n			- Contraction of the Contraction	new Evaluation Set	
	res to be used in Land Repurpos t's attributes so that they can the		in new project ratings					
			l in new project ratings			Is Default	Created On	Created By
all it	t's attributes so that they can the	n be modified and used					Created On 01/01/2020	Created By Nikos Steiakakis

Once a new evaluation set administrators can alter any of the criteria values, utilization scores, usage category attributes, etc. and start using the new evaluation set in Lang Ratings. However, once a project has started, the evaluation set cannot be changed. New evaluation set can only be used in new projects and are not interchangeable.

See section Appendix 1: Evaluation Sets for more information.

Users

If the "**Users**" option is selected from the "**Administration**" menu, the user (administrator) is allowed to register new users that can log in and use this application (Figure 72) or edit the account information of existing users.

0	THE WORLD BAI	NK Seath	Q			- 1	■Projects Q 2/	Administration @ Inf	formation A Chry	santhes Stelakake
					Administration //	Users				
Theme	s and Criteria	Score Categories	MM Score Gloide	🛎 Utilization Scores	127 Category Datoffs	@ Translations	B Evaluatio	n Sets 👹 Users	& Projects	
Us	ers List									
	+ Add mes used	account								
	Name			e-mail			created on	Roles		
*	Name Amaila Thiocan	r		email attionara@geosysta.com			Created on 19706/2071	Roles Bater, Viewer		₽ Edit

Figure 72: Editing the list of users

A user can be edited by clicking on the edit button on the right side (Figure 72). The user account information can be edited through the form shown in Figure 73.

THE WORLD BANK	teen. a	IPProjects di Administration & Utomation & Nexos Structure -
	Administration / Ap	pication Usage - Users / Chrysanthos Stelakakis
Jama 🖧 Projects		
Chrysanthos St	eiakakis - Account Information	
User attributes		Poins -
Name	Christanthins Stellanzon	Actimitation
e-mail address	c.thiadol@pempila.com	R3 Rosen
Passwerd		C Valendra
Confirm Password		12 Vicean
Active	8	
Never Expires		
Expires On		



The name, email, password and the corresponding user authorization, i.e., "Administrator", "Rater" "Valuator" and "Viewer", can be modified (Figure 73).

Application roles:

- Administrator: users assigned with this role have full access to the application and can configure attributes such as criteria, scores, translations, evaluation sets etc. Administrators can also configure attributes for Projects and other users.
- **Rater**: users assigned with this role can start new projects, conduct ratings and create combined evaluations and reports.

- Valuator: users assigned with this role can have access to the Land Valuation module of the application and are able to configure Land Valuation attributes and generate valuation reports.
- Viewer: users assigned with this role can view ratings and reports but cannot change anything.

Projects

When visiting the administration page for "Projects" all projects that have been created in LURA are displayed.

THE WORLD BA	NK Search	Q			III 17 0	ects 🕫 Administrati	on O Infor	mation 🛔 Ch	rysanthos steiakakis +
				Administration / Pr	ojects				
F Themes and Criteria	• Score Categories	tall Score Guide	In Otilization Scores	E3 Cittegory Cotoffs	• Translations	R Evaluation Sets	📽 Users	do Projects	
Project			Create	d On	By			Users	
PPC Maynopilg mine			11/01/	2020 09:07:11	Chrysanth	os Stelakakis		4	✓ E00.
Amyotalo mine			19/03/	2020 12:28:28	Chrysanth	os Stelakaids		5	🖌 tai
Edinario				2021 13:05:18	Nikos Stel			3	✓ Edit
Sample Project			23/06/	2021 07:31:04	Chrysanth	os <mark>Stelaka</mark> kis		0	/ Edit
Chrys test				2021 07:12:43	Chrysanth	os Stelakakis		0	/ tor
mayropigi tent3			01/08/	2621-05:20:11	Chrysanth	os Stelakakis		(0)	/ tat



By clicking on the name of any project, the project administration page is shown.

		ation						
General Information							Ristings Conducted or In Progress	
Name 5	Sample Project						info	Last Updated
	21/04/2023 24/04/2023 15:29:49		By user By user	Chrysanthos Ster Chrysanthos Ster			Surface Level Evaluation Underground area evaluation	03/05/2023 10:04:35 24/04/2023 10:28:05
Project Team							Estra Options	
hoject Team			Available users				Groate a Duplicater Group Project	
Nikos Steiakakis nikos@geokysta.com	🖸 Rater	17 Macager	Wallhart Pohl wpohl@workt		Rater	IT stanager		
Chrysentbos Steickak Estaiakaks@gensysta		Manager	Zach Agioutan zach agicutan		Rater	D Manager		
Amalia Tzovara atriovara@geosysta.c	Suter com	Distanager	Michael Stanit mstanley@wo		10 Rater	II Manaper		
			Raymond C. P pilcher@raver		Bater	C Manager		
			Magdalena Ka Chawula Kosu mchawula kosu		Rater	D Manager		
			Helen Ba Tha Imguyen20@k	sh Nguyen Koriobank org	Rater	D Manager		
			Valshmavi Han	ap p6399@gmail.com	Rater	C Manager		

Figure 75: Project administration page

In this page the Administrator can change/update the project team and/or their corresponding privileges.

In the project team section of this page there are two lists. The list of project associated users (Project Team) and all the available users in LURA that have not been associated with the specific project. To add a user to the team, the administrator must "drag" the user box from the available users list to the project team list. Then, the administrator can assign the required privileges to each user on the team. The available privileges are:

- Simple Viewer If nor "Rater" or "Manager" are selected, then the user will have "read-only" access to the project and ratings. They will not be able to change anything nor conduct any ratings of their own.
- Rater If the "Rater" checkbox is selected then the user will be able to work on existing ratings, start new ratings, add/edit documentation and depictions etc.
- Manager If the "Manager" checkbox is selected, then the user will have some extra functionalities available such as the ability to "delete" ratings, complete projects, project documents and depictions.

Through this page the user also can create a duplicate copy of the project. If the user selects to create a copy, a new instance of the project will be created with all the ratings and scores that have been assigned to the original project. However, once a project copy has been created it is a completely distinct instance so changes on one project will not affect the other.

User Preferences

Users can change their password by selecting the "**Preferences**" option from the drop-down menu when clicking on their username at the top right-hand corner of the screen (Figure 76).

THE WORLD BANK	36805.	α.			I Property	G ² ₆ Aministration	• information	A NROS STRUMARS -
			User Pro	eferences				
[Nikos Steiakal	kis] Accourt	nt Preferences						
Ves polericity				Passwint				
Displayed Name		Nixos Steianaka		Current Password				
Date Format		DDAMATYNY		New Password				
Lunguage		English		Confirm Password				
Use Dark Map Grid Lines		G						
Show Segment Numbers		0						

Figure 76: User preferences

The options that users can configure in this form are:

- Display Name: how the name of the user appears in forms and reports created on LURA
- **Date format**: how should the dates be displayed on LURA using either the month first format (mm/dd/yyyy) or day first (mm/dd/yyyy).
- Language: The language that all forms and texts in LURA are displayed in. The user can select from a list of languages already supported in LURA. Not all languages are supported, but languages are added as projects take place in countries where the need for the local language support is raised.
- Dark Map Grid Lines: Whether outlines and borders on maps and grids will use a dark grayish to black color and be more evident or use more seamless colors to make maps more visually appealing.
- Show Segment Numbers: If checked, the identification number of each segment will appear on the map on the applicable zoom levels. If not checked, the maps will appear without segment numbers displayed.

On this page users can also change their password if they want to. If they do not want to change their password they just need to leave the password fields blank.

Information

By clicking on the "Information" option on the main menu on the top right of the page, the user is navigated to the generic information section of the application.

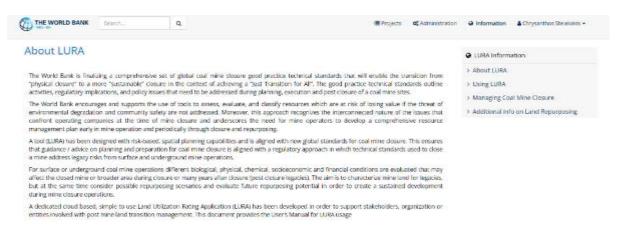


Figure 77: General Information

This section contains information "About LURA", some brief information regarding LURA use and a link to the LURA Usage Guide, Information on the World Bank Group's methodologies on Managing Coal Mine Closure as well as Additional info on Land repurposing.

Land Valuation

LURA offers Land Valuation functionality to help interested parties with the potential financial valuation of the repurposed lands assessed.

To use the land valuation functionality, special attributes such as mitigation costs and potential values per use category must be configured by the user.

The Valuation process performs calculations based on the scores assigned to the various criteria in the main LURA assessment functionality, to create a reduction factor score, which can then be used in the calculation of potential values along with the configured values per category and the mitigation costs.

The primary result of the valuation process is a report table, presenting the information regarding the potential value of the land, as assessed, and proposed by LURA in terms of applicability per use category.

Project Information	
Mine Type	Above Ground
Total Area	39.98 km ²
Total Area Segments	616
Segment Width	0.30 km
Segment Height	0.30 km
Valuation Information Last Updated: 09/11/2028 12:52:58	
Geotechnical Mitigation Cost (€)	400,000.00
Environmental Mitigation Cost (€)	600,000.00
Unencumbered Value (€)	109,573,000.00
Adjustment Value based on rating scores	74%
Adjusted Value (€)	82,175,945.38
Total Mitigation Cost (€)	1,000,000.00
Overall Value	81,175,945.38

Amyntaio mine - Rating by CS Valuation Report



usted Value € 9,749.55 19,131,614.24 34,573,399.31 28,461,182.29 0.00

82,175,945.38

109,573,000.00

Valuation Details							
Utilization		Total Segments	Total Area Size	%	Value per Ha €	Unencumbered Value €	
Forest,	natural habitats	2	13.00Ha	0.32	1,000.00	13,000.00	
Agricult	ture	393	2551.00Ha	63.80	10,000.00	25,510,000.00	
Energy	production / Light industry	142	922.00Ha	23.05	50,000.00	46,100,000.00	
Busines	ss / Residential development	39	253.00Ha	6.33	150,000.00	37,950,000.00	
(possib	le) Water Body / Degraded land	0	0.00Ha	0.00	1,000.00	0.00	

3739.00Ha

93.50

Figure 78: Land Valuation Report Table

Total

Configuring Land Valuation Attributes

The functionality to configure Value Per Use Category and Mitigation costs is only available to users assigned with the "Valuator" role.

Land Valuation attributes can be configured both on a per Country level as well as a per Project level. Values that are assigned for Country can then be used for valuation in any project in the specific country. If, however, the user has gathered more specific values that apply to a particular project, but not country wide, they can assign those values to the project. In the current iteration of the module, the project specific values take precedence over the country specific values.

A section for managing Land Valuation attributes has been added to the administrative section of the Application.

THE WORLD BANK	Search	Q	
			Administration / Land Valuation
🖾 Land Rating Configurations	🚯 Application Usage	• Translations	Land Valuation Configurations
Land Valuation Config	gurations		
Country Values per Cates	gory		

Figure 79: Administration section Land Valuation module configuration.

In this section, users with administrative privileges can assign the valuation attributes on a per country Level.

	Search	Q	I Projects
			Administration / Land Valuation / Country Values per Category
D Country Values per Category			
Country Specif	ic Values p	er Catego	ory
Country			Evaluation Set

oundy		Evaluation Set		
Greece (GR)	×.	Default	~	
ategory		Value per Hectare		
Forest, natural habitats		1000.00		
Agriculture		10000.00		
Energy production / Light industry		50000.00		
Business / Residential development		100000.00		
(possible) Water Body / Degraded land		0.00		

Figure 80: Assigning value per hectare per usage category on a per country level.

Values and Costs per project are not configured via the administration section. To configure values per project, as well as the potential mitigation costs that will be incurred, the user has to go "Valuation Information" page in the project view.

				Projects / Amyn	taio mine / Valua	tion Info			
atings 🖉 Docume	ts 🔄 Depictions	I Results	🎟 Area Data	🛍 Modity Area	C Edit Attributes	 Valuation Info 			Se Not
Valuation and Mitigati	in Costs								
Geotechnical Mitigation		400000.00							
Environmental Mitigation	n	600000.00							
Category						Project Specific Value per H	ła	Cour	ntry speci <mark>fi</mark> ed Value per Ha
	osts are specified for the proj st, natural habitats	ect, the values and co	ets specified for the	project country will be us	ed,	1000.00			1,000.00
Agriculture					10000.00				
1.80	Energy production / Light industry				50000.00			50,000,0	
	gy production / Light indu	598 ⁶							
Ene	gy production / Light indu	-26				150000.00			100,000.00

Figure 81: Assigning value per usage category and mitigation costs on a per project level.

Once the attributes have been configured, the valuation report can then be accessed via the "Rating" view, from the section "Valuation Report"

	ILD BANK	Search	٩			ill Projects	Administration	Information	▲ Nikos Stelakakis +
			Projects /	Amyntalo mine / #1	Rating by CS /	Overall Report			
🕼 Rating 🖉 G	overall Report	Report per Segment	₽ Rating per Theme	Rating per Category	A Valuation	Report Dimn	ery 🕼 Edit	# Publish	🗘 Notes

Figure 82: Navigation to the Land Valuation Report section

If a valuation report has not yet been generated for the specific Rating, the user will be informed and prompted to create a new valuation report for the Rating.

@ ™	E WORLD BANK	Side (B)	α,					Projects	of Administra		@ Information	A foliou Steakakis +
			Projects	Poland, L	ibiaz Waste Heap	#1 - Initial evol	untion / O	Overall Re	port			
States :	WOWNER Report	#Asport per Segment		are there >	• Nativg per Calegor	A Valuation	leport 51	\$HOW	ROM: S	10.0	(04ch)	CP-Notes
E		Waste Heap - Ir		aluatio	n Valuation R	eport						
Click o	in [Create] if you wa	no to create one now 🔽	10 									

Figure 83: New Valuation Report generation prompt.

Appendix 1: Evaluation Sets

An evaluation set is the complete set of all the themes and criteria used in evaluations, the list of resulting land usage categories, the utilization score combinations, unusable categories list and Category Cutoff values. Furthermore, the evaluation set contains all the descriptions and translations of the score guides for the various themes and criteria used. In the earlier versions of LURA there was a single evaluation set which was used in all new projects.

However, throughout the use of LURA in various countries and environments it became evident that for some criteria, the actual numbers and scores were quite diverse depending on the country and area that the evaluation was taking place. For example, in some more densely populated areas the distance to infrastructure and utilities can have very different scales as compared to larger more urban countries. Even though the logic behind them was the same, the actual distances displayed in the score guides were quite different.

To allow for more flexibility on evaluations when using LURA, the concept of "<u>Evaluation sets</u>" was introduced. So, instead of having just one evaluation set that is exactly the same for any evaluation taking place, indifferent to the actual country and it's particularities, application administrators can now introduce new evaluation sets in the system to be used.

Only Administrators can create new evaluation sets. The administrator can select an existing Evaluation set (e.g., the Default one) and create a copy of it and assign a different descriptive name. Creating a new evaluation set will make a copy of a previous evaluation set and all its attributes so that they can then be modified and used in new project ratings.

Once a new evaluation set is created, the Administrator can modify anything regarding the criteria, texts and descriptions, available categories, and utilization scores for conducting ratings based on that evaluation set. Even translations can be changed for the new evaluation set to properly apply with the requirements that it will need to address. Once the new evaluation set is properly configured it can be used for evaluations and ratings exactly like the default evaluation set was used in the earlier versions.

The main difference is that when a new project is started, the Evaluation set to be used is selected. Once the Project ratings start, the evaluation set cannot be changed.