Land Utilization Rating Application (LURA)

User's Guide

2023 v1.6

Contents

Introduction
Accessing the Application
Application Navigation Menu9
Main menu9
Search10
Navigation Path11
Context Menu11
Starting a New Project13
Selecting the Project Area14
Modifying / Extending the Project Area16
Subdividing Area Cells to Smaller Sections18
Removing Segments from the Project Area20
Rating the Project Area21
Rating Results and Reporting32
Combined Evaluations
Enhancing Project Views40
Uploading Extra Depictions40
Changing Depiction Views During Ratings41
Publish Rating43
Collaboration and Tracking45
Notes45
Edit History and tracking48
Application Administration
Themes and Criteria51
Score Categories52
Score Guide
Utilization Scores

Category Cutoffs	55
Translations	56
Evaluation Sets	57
Users	58
Projects	59
User Preferences	61
Information	62
Appendix 1: Evaluation Sets	63

List of Figures	
-----------------	--

Figure 1: LURA welcome screen	8
Figure 2: Log in form	8
Figure 3: Application Navigation Main Menu	9
Figure 4: Search control in navigation section	10
Figure 5: Search results	10
Figure 6: Navigation Path	11
Figure 7: Search results	11
Figure 8: Rating Context menu	12
Figure 9: List of projects	13
Figure 10: New project page	13
Figure 11: New project attributes	14
Figure 12: Submitting project coordinates.	15
Figure 13: Clearing the polygon	15
Figure 14: Sample project grid	16
Figure 15: List of projects	16
Figure 16: Extending a project area	17
Figure 17: Project areas with different segment sizes	17
Figure 18: Displaying the size and coordinates of a cell	18
Figure 19: Subdividing cells	18
Figure 20: Excluding area segments from evaluation	20
Figure 21: Excluding area segments from evaluation map	20
Figure 22: Project ratings	21
Figure 23: Project rating type and area selection	21
Figure 24: Sample project ratings	22
Figure 25: Rating an area segment	23
Figure 26: Rating criteria 1-3	24
Figure 27: Rating criteria 4-5	25
Figure 28: Rating for surface mines (above ground)	25
Figure 29: Highlighting the cell selected for rating	26
Figure 30: Reasons for rendering a cell "unusable"	27
Figure 31: Rating for a specific theme	28
Figure 32: Completing the rating process	28
Figure 33: Displaying the rating of a cell	29

Figure 34: Copying ratings from previously rated cells	29
Figure 35: Copying ratings to other segments in the area	
Figure 36: Attaching documentation to a project area segment (cell)	31
Figure 37: Completed rating	
Figure 38: Final rating outcome	
Figure 39: Project rating outcome and statistics	
Figure 40: Exporting report files	
Figure 41: Overview of project ratings	35
Figure 42: Summary of multiple ratings for the same project	
Figure 43: Creating combined evaluations	
Figure 44: Presenting combined evaluations	
Figure 45: Combined evaluation ratings for a specific cell	
Figure 46: Combined evaluation options	
Figure 47: Depictions	40
Figure 48: Depictions upload page	40
Figure 49: Adding a project depiction	40
Figure 50: Depiction overlays	41
Figure 51: Activating and de-activating depictions	41
Figure 52: Selecting depiction overlays	42
Figure 53: Publish rating to third-party users	43
Figure 54: Publish rating to third-party users configuration	43
Figure 55: Sample third party read only access e-mail sent by LURA	43
Figure 56: Notes Navigation Option	45
Figure 57: Project Notes display pop-up	45
Figure 58: New note creation form	46
Figure 59: Area segment sideview with Note indication	47
Figure 60: Evaluation actions history Log	
Figure 61: Modification action log item details	49
Figure 62: Administration option	50
Figure 63: Administration menu	50
Figure 64: Administration of themes and criteria	51
Figure 65: Editing the "distance to infrastructure and utilities" criterion	51
Figure 66: Editing category descriptions	52
Figure 67: Editing the score guide	53

Figure 68: Editing the weighting factors for each criterion	54
Figure 69: Category Cutoff Values per Theme	55
Figure 70: Text translation	56
Figure 71: Translation form for each entity	56
Figure 72: Editing the list of users	58
Figure 73: User account information	58
Figure 74: All Projects List	59
Figure 75: Project administration page	59
Figure 76: User preferences	61
Figure 77: General Information	62

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.

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.

	Search	۹	[i≣ Projects	of Administration	Information	🌢 Chrysanthos Steiakaki	s ▼
		Pr	rojects / Poland, Ru	da Śląska - I	Ratings			
Ratings Documents	🔚 Depictions	Results	🗲 Combined Evaluation	ns 🎟 Are	a Data 🛛 🗎 Modif	y Area 🛛 🕼 Edit	Attributes 9	Notes

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.



Search Results

Showing 5 results for: above

[Rating] KWK Ruda Above Ground In Project: Poland, Ruda Śląska Relevance 23.81%

[Rating] KWK Pokoj <mark>Above</mark> Ground In Project: Poland, Ruda Śląska Relevance 21.74%

^[Rating] KWK Slaska <mark>Above</mark> Ground

In Project: Poland, Ruda Śląska Relevance 21.74%

[Rating] KWK Bielszowice <mark>Above</mark> Ground In Project: Poland, Ruda Śląska

Relevance 17.86%

[Combined Evaluation] Combined Above and Below Ground Results In Project: Demo Presentation, Milos Mock Evaluation Relevance 12.82%

Figure 5: Search results

Each result has a clickable link that will navigate the user to the corresponding page that will show the details of the result item. Over each search result a label is displayed to signify the type of search result, e.g. "Project", "Rating", "Combined Evaluation" etc.

Navigation Path

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

		Search	Q		🔳 Projects	Section 44 Administration	Information	👗 Chrysanthos Steiakakis 👻
			Projec	ts / Sample Pr	oject / Depiction	ns / Upload		
🖉 Ratings	B Documents	Depictions	Results	🆽 Area Data	🚺 Modify Area	C Edit Attributes		Q 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	۹	i≣ Projects	of Administration	O Information	🛔 Chrysanthos Steiakakis 👻
		Pro	ojects / Poland, Ruda Śląska	Ratings		
C Ratings Documents	🖾 Depictions	🔳 Results	🖌 Combined Evaluations 🛛 🎟 Ai	ea Data 🛛 🕅 Modi	ify Area 🛛 🕜 Edit At	ttributes 🗣 Notes

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.

Search	٩			■ Projects ¢	Administration	Information	🛔 Chrysanthos Stelakakis 👻
\frown			Projects				
+ Start new project							
	Country	Created On	Ву	Last Updated	By		
PPC Mavropigi mine	Greece (GR)	11/01/2020 09:07:11	Chrysanthos Steiakakis	03/11/2022 12:21:52	Nikos Steiak	akis	Modify Relete
Amyntaio mine	Greece (GR)	19/03/2020 12:28:28	Chrysanthos Stelakakis	03/11/2022 12:22:03	Nikos Steiak	akis	Modify × Delete
Elliniko		09/06/2021 13:05:18	Nikos Steiakakis	09/06/2021 13:09:09	Nikos Steiak	akis	

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.

THE WORLD BANK	Search	Q		≡ Projects	o: Administration	Q Information	🛔 Chrysanthos Steiakakis 👻
			Projects / Start new project				
Start new proj	ect						
Eordaia		Presifier do a	Paradone Konana - Analy Inc. And Analy Paradone Konana - Nacion	Project Name			
	De la contra de la		Vounoplase Agla Paralises Sozans	Sample Project			
	Aga Preudant	Spilla Erma	Regional Strategy Provide A Constants	Country		Location	
AT PLAN		APPLIER VOV	-viennaon Oros Vierola Imathias	Greece (GR)		Αμιλητοιο	
Polemada		Presedon	Koure Agio Saras ed Alaria	Selected Area size: 4	422.56 m ²		#Clear
	No St	Carlos Sala	Kinese Sames Sames Contracts	Selected Area Coord	Inates		
tonetra Triso	ion Komanos	a marker	Vrachos Elaporitos Casaria	Evaluation Set			
ankin Kazaran	Markos Polemaida Kozardi		voteri Voteri Harrin Hat Bluerin;	Default	Submit Projec	t Coordinates	ancel
Reven Polemants razaris Retromachi Roumumpo Pi	Semanda Conseris		Klitos Akrini Argal sedu				
Tipidantis Kozarti: Dinstrius Visidantis Livera Kozaris Kant	Pondokomi		a contraction of the second				
Ypuone Omi Garogicu Ypsila Dimitrios Kon Tpulantin Actovour Kozanti	1 1 1 Division v pikovsti Kotavis	No Destruction	Rakion Course				
56175	Dimition Dimition	Cozaris Este					

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.

THE WORLD BANK	Search	Q			Projects	of Administration	Information	🛔 Chrysanthos Stelakakis 👻
			Proj	ects / Start new project				
Start new proj	ect							
	Agia Prenskess	Spillia	rmakiá Profitis II	las Agia Paraskevi Kozanis	Project Name			
	1	spina	E STE	Palaiokastron Agia Parasken Koza Vermian Oros Verma Imathia	Sample Project			
A Aber man	-	Pteleón	14 Petrophan	Vrachaki	Country		Location	
Ptolemaiday	A P AST	A	Kozani	Agis Paraskevi Kozanis	Greece (GR)		 Αμυνταιο 	
				Kranies Kozani Kozanis	Selected Area size: 5	1.24 km²		#Clea
Trigonon	Kómanos	1 and the	Xo	Virachos Elisponto	Selected Area Coordi	nates		
Kozanis		A HEARE	Tolan	ipar P Ellippo	21.8700746028116	27,40.4332824465620	3	
X. FRAM	The for	「「「「「「」」	KOZA	AST KOT	21.8785432377262	3,40,4561008913397		
Agios Marko	Ptolemaida Kozasis		No los	Profitis 15	21.8659547297647	5,40,46515643991500	5	
elemaida Kozanis	1 / . //	The second second	1	llias Ellispontos Kozanis	21.8490174808902	93,40,4724696478358	2	
NAZ I	1-1-1		Klitos	Akrini	21.8371196184356	27,40.4787374779129	44	
Kouroumpa Ptolemaid	Kozanis	VI C		Kotanit	21.8263581791324	84,40.4747330957575	6	
Amasmasi Dimitrios	CHARLY O			Sec. Star	21.8220094172647	5,40.47194730225175		
Vosilantis Kozanis Kastron	Pondokómi		philippine Sping	ADD SHOP				
Dimitrios	10000		With The As	A STANDARD	Evaluation Set			
Kozanis	ALI	EAST AND	State of the second second	Riakion	Default			

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).

THE WORLD BANK	Search	Q		■ Projects 0%	Administration	Information	🛔 Chrysanthos Stelakakis 👻
			Projects / Start new p	roject			
Start new projec	ct						
	Agis Partition	Erm	akia Profitis Ilias Agis Paraskevi Kozan	Project Name			
	CE/	Dtalage	Palaiokastron Agia Paras Vermion Oros Verola	Sample Project Country		Location	
Isomata Ptolemaida	1 ASSA	Preleon	Kozanj Agia Paraskevi	Greece (GR)	Ŷ	Αμυνταιο	0
A COZANIS	K TH		Kranies Kozani Koz	Scletted Area size: 51.24 k	m²		#Clear
Trigonon	Komanos	A dec	Vrachos E	Selected Area Coordinates			
Ptolensaida Kozanis	10	I DECK	Toumpa	21.870074602811627,40	43328244656203		1. S.
IX. FERRE	IL TOS		Kozanis	21.87854323772623,40.4	1561008913397		
Agios Markos Pte	olemaida Kozare		Profitis	21.86595472976475,40.4	165156439915006		
Ptolemaida Kozanis	· Call			21.849017480890293.40	47246964783582		
	See Car		Klitos	Megahi 21.837115618435627,40	478737477912944	E)	
hi Kouroumpa Ptolemaida Ko	zanis	VI C	and the second	21.826358179132484 4D	47473309575756		
Arriasmasi Dimitrios Ypsilantis	Re L	LIC / Las		21.82200941726475,40.4	47194730225175		
ra Kozanis Kastron PO Dimitrios	ndokomi		A Stand And And And	Evaluation Set			
lou Ypsilantis Kozanis	AIT	Sel - Frank	Ria	cion Default			÷
etic Artovouni Dimitras t	risilantik Kozanis	ulthe ed w	On the station of the Good Story and the Inter Stopped with Order the tra-	with disk	Submit Project	Coordinates Car	ncel

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 o° Ad	ministration	🛔 Chrysanthos Steiakakis 👻
		F	Projects			
+ Start new project						
Project	Country	Created On	Ву	Last Updated	Ву	
PPC Mavropigi mine	Greece (GR)	11/01/2020 09:07:11	Chrysanthos Stelakakis	03/11/2022 12:21:52	Nikos Stelakakis	Modify X Delete
Amyntaio mine	Greece (GR)	19/03/2020 12:28:28	Chrysanthos Steiakakis	03/11/2022 12:22:03	Nikos Steiakakis	✗ Modify ★ Delete
Elliniko		09/06/2021 13:05:18	Nikos Stelakakis	09/06/2021 13:09:09	Nikos Steiakakis	Modify X 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.



Project Are elected Area	ea Size: 50.87 km² size: 43 km²	
vrea #	Area Name	
2	Secondary Mine Location	
elected Area	Coordinates	
21.7517937	93405326,40.497306770269205	
21.7488982	7977205,40.51505683741445	
21.7300774	8257632,40.504737602565456	
21.7268200	35951967,40.497306770269205	
21.7242864	63593877,40.494692018205564	
21.7210290	16969528,40.494003913927344	
21.7255532	45630866.40.49221479465638	

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).

Projects / Modify Sample Pr	oject											
ample Project												
← Projects List	uments 20	epictions	REExte	nd Project	Area							
lect specified area cel	is size: Widt	th: 0.50	(km)	Height	0.50	km)						
Jeerspeeneeder	Sheet ma	20	EP/	(JAP)		any and		Segment			Co	ordinates
an har		1/	-		-		-	123		#	Longitude	Latitude
t	102	112	141	105	120	142	09	Area Size		0	21.835682	40.440910
78	I INNI	Pala			1000	1200	0	0.00 km ²		1	21.840198	40.440910
	122	115	110		94	/117	113			2	21.840198	40.436074
27 81		1917	1	the star		1.0.1	1000			3	21.835682	40.436074
	130	91	121	93	109	119	111			4	21.835682	40.440910
34 28 /			510	1	14.2	1985	and and					
	92	134	129	137	107	138	96	Break down curre	ent segmen	it to si	naller sub-segment	s
		5 A.36	1	1	-	Constant of the	100	Width (km)	Height	(km)		
82 50	A 132	128	136	133	- 124	146	135	0.2500	0.250	0	Subdivide	Segment Reset
	CAA	No.		Constant of		1. 2.8	COLUMN TO A					

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).



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 s Area segments that have already been rate	since this action is not revokable. d cannot be removed.
Should be used when there are overlapping	g area segments in cases of extended project areas.
Remove segments from	То
31	33
Remove Surrounding Area	× Remove Permanently
(To remove a single segment use the same value f	or segments from and 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).

THE WORLD BANK	Search	۹		i≣ Projects	\$ Administration	Information	🛔 Chrysanthos Steiakakis 👻
			Projects / Sample Project - Ratings				
C Ratings Documents	Depictions	🖩 Results 🛛 🖽 Area Data	🛍 Modify Area 🛛 🕼 Edit Attributes				Q Notes
+ Start new rating	Mine Type	Started On	Started By Last Updated	Up	dated 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.

() []	E WORLD BANK	Search	Q					i≣ P	rojects	C Administration	@ Information	🛔 Chrysanthos Steiakakis 👻
						Projects /	Add Rating					
2 Ratings	@Documents	Depictions	I II Results	I Area Data	🕅 Madify Area	🕼 Edit Att	ributes					Sk Notes
Contraction of the	Eordaia	Mangoura		A Safe and	An and the state of the	·····································	Magoula Agia	Paraskevi Kozanis Py	Des	criptive Title		
	The second	Ague Paratar		A la	Prestion Agia I	raraskevi Kozanis	Megali Petra Agia Par	rasi mi Kozanii 🦯 Ima	di s	urface level evaluation	1	
2000			Agia Rad	Tax, soil	Ermal	Ria Pre	film likes Agia Paratikevi i	Kozanii	Mir	е Туре		
	Mar In the					11	Palaiokastron Agia	Paraskevi Kozanii Veroja (mathias	1	Volve Ground		Ÿ
Lor		somata	1.5	P	teleón	A Petrochar	Vrachaka	2 44	Pro	ject Areas		
assa	建 伊林	Ptolemaidan Kozaniš				in the	Agis Para Kazanis Skranier Kozar	askevi Alonia Ellisponto Rozanis	•	Area 1 Main Mine	Area	
1-1	Asvestopetra	Triggenen Ptolemek	kóman				Pourpat Viac	chos Ellispontos Kozari Krana		Area 2 Secondary I	Mine Location	
nis		N. FR	TUE	AHH			Kolane	Kozanis			Submit Ca	incel
	achos Mourikio Kozanis Kory	Agron M Pholemia da Kozanis	arkos Ptolemaida K				San fille	Totalis La l'Elligionitat Aranilio	100			
Cinit Vipel	s Petra itricis lantis Petroma	Kooroumpa Ptoler	noida Kozanis			RINGS	Akm	Megili Rachi Eliterator	5			
A COR	inis Duratrice Vositiest	Amaimai	4-2-35			1.1	Nº St	Elisoonto				
		Vpsillantis Kozaris	Pondokom	The N	A BU		d and the		6			
- M	avros Vipsor	na Dimitrios Yostiantis		all of		北 市市市	ALL ADAM	Ball In	4			
	Stantin Dunin	nos Kozanis	And and a second					A CONTRACTOR OF CONTRACTOR	61			

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.

Ø	THE WORLD BANK	Search	۹				E Projects	o: Administration	Informati	on 🔒 Chrysanti	nos Stelakakis 🔻
					Projects / Sample	Project - Ratings					
2 Rating	🕫 🖉 Documents	Depictions	🔳 Results	🖽 Area Data 🛛 🗎 Mo	adify Area 🛛 🕼 Edit Attrib	utes					S Notes
+ 5	Start new rating										
#	Comments		Mine Type	Started On	Started By	Last Updated	Update	d by	Status	Report	
2	Underground area evalu	ation	Below Ground	24/04/2023 10:28:05	Amalia Tziovara	24/04/2023 10:28:05	5 Amalia	Tziovara	1	A Show	* Delete
1	Surface Level Evaluation		Above Ground	24/04/2023 10:27:13	Chrysanthos Stelakakis	24/04/2023 10:27:13	Chrysar	nthos Stelakakis	1	A 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 Geotechnical stability	Below ground 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 	
where of 9, constructs, i construct (obbuilds oblication) to unitable combined in	 Comments	
Comments		
	 ▼ Shaft failure	
	Comments	

Topography and hydrography: 3.

Above ground

Topography and hydrography	
 Surface gradient and relief 	
Comments	
 Surface drainage 	
Comments	
 Hydrological risks – extreme precipitation events and flooding 	
Comments	

Below ground

 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

÷

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

5. Development opportunities:

Above ground	Below ground	
Added land value due to its development potential	Ownership	
Comments	Comments	
	 Permitting conditions 	
	Comments	
	 Reclamation status 	
	Comments	
	 Funding availability 	
	Comments.	

Figure 27: Rating criteria 4-5

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

BRD-IDA			≜ 0	hrysanthos Stelakakis
		THEPANOU Spillus		
Use Advanced Criteria for Rating	🗞 🔸 Attach file to area seg	ment	Theme	Average Score
Area segment is unusable			Location	
Scores	হ	Copy scores from other segment +	Geotechnical stability	
Location				
 Distance to infrastructure and utilities 			Topography and hydrography	
Comments			Environmental risks	
			Development opportunities	
 Distance to human settlements 			Land Use Segment F	tating
Comments			forest actual behitets	-
			Forest, natural habitats	
eotechnical stability			Industry, energy production	
 Expected residual ground settlement 			Business, recreation, tourism	
			Possible Water Body	
omments			Coordinates	
 Slope stability – seismic risks 			Ing: 21.802912570048. lat: 40.4279384	68834
			Ing: 21.807428163089, lat: 40.4279384	68834
Comments			Ing: 21.807428163089, lat: 40.4231044	38942
			Ing: 21.802912570048, Iat: 40.4231044	68834
 Impact of groundwater rebound (applies especially to 	interior dumps)			
Comments				
Topography and hydrography				
 Surface gradient and relief 				
Commanda				
Comments				
✓ Surface drainage				
Comments				
LATTICITY IN				

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	umps)		

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	ortunities				
 Added land valu 	4,00				
Negligible	Low	Moderate	Substantial	High	
1.00	2.00	3.00	4.00	5.00	
Comments					
			Save		
W-1 0			3476		

Figure 32: Completing the rating process

Parest, natural	habitats Agriculture		Industry, energy production	Business recreation, tourism	Possible Water Body	Segment	Area Size	
21 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	57 69 20 80 25 47 85 61 43 56 67 52 66 10 55 65 7 22 40 42 33 74 63 36 13 9 41 1 77 16 17 36 19 24 52 44 86 24 52	6 7 8 48 75 30 22 38 80 14 37 3 02 14 88 82 7 1 98 82 7 1 98 82 7 1 98 82 7 1 98 82 7 1 98 82 7 1 98 82 7 1 99 8 90 14 14 14 14 14 14 14 14 14 14 14 14 14 1	102 111 141 122 113 140 136 121 12 134 129 12 134 129 12 134 129 12 134 129 12 134 129	105 120 14 90 94 11 45 90 109 19 11 103 107 108 96 116 108 12 146 128 17 107 128 96 116 108 12 146 128 17 100 128 96 116	Construction of the second sec	91 Development opposuum Environmenta	0.21 km ²	19y . 97
Use Advar	aced Criteria for Rating		🗞 + Atta	ch file to area segment	to a characteristic of 6 2001 tophtom twitte chube	Theme		Average Score
🗆 Area segn	nent is unusable		0	a		Location		1.00
Scores				දා Copy sci	ores from other segment -	Gootochoical et	ability.	1.67
Location						Geotechnical su	aomty	1.07
 Distance to in 	frastructure and utilitie	5 m.			1.00	Topography and	d hydrography	1.67
Comments						Environmental r	isks	2.67
Quite far for in	nfrastructure and utilitie	15				Development of	no setu estilare	1.00
· Distance to h	uman settlements				1.00	Development of	oportunities	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, natura Agriculture Industry, ener	al habitats rgy production	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).

And a second	1.15				
	 Attach file to) area s	segment	in Airbus DS ID 26	221 TomTom Terms e
			Copy scores	s from oth	er segment
Copy Criteria Score values from	segm <mark>ent:</mark>	1	~	ок	Cancel
		-		_	
				3	
				4	
	opy Criteria Score values from	Attach file to	Attach file to area s	Attach file to area segment Copy Criteria Score values from segment:	Attach file to area segment Copy scores from oth copy Criteria Score values from segment: 1 OK 3

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.

← → ♂ ☆	🛛 🗟 https://wb.geosysta.com/proj	··· 🖂 🕁	III\ 🗊 📽	
	Projects Attach Document to	Project Area Segment	Administration + Chrysanthe Land Use Segment Ra	rs Steiakakis + ting
2 2 5 7 8 13 14 15 15 17 10	Document file Comments	Browse No file selected.	rest, natural habitats riculture dustry, energy production isiness, recreation, tourism	0.00 0.00 0.00 0.00
25 26 27 28 25 38 99 40	2 30 a1 a 1 31 42 4 	Upload Document Cancel	le to area segment	er 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).

						aniai mina	AND Direct		Descent			
ing Show Overall Report	Show Report	t per Segment	Pro show	jects / P Rating per 1	PC Mavri	© History	@ Edit	Publish	Гкерогт			🗆 Not
		2 2										🖩 Export Data 👻
			0	10	E							
	16 17		10	20	21	22						
	27 28	3 20	30	æ.	32	33						
		100	10.00	10000	1000		1 march					
roject Information		40	41	42	43	ki	-					
roject Information		40	41 6.45 km	42 	43 Mine Type		2		,	bove Ground		
roject Information stal Area aparent Width sage Statistics		40	41 6.45 km 48 0.50 km	42 12	43 Mine Type Segment I	Height	-2		,	Nove Ground 0.50 km		
roject Information stal Area agment Width sage Statistics		40	41 6.45 km 48 0.50 km	42 1 ²	43 Mine Type Segment I	e Height	otal Segments		, otal Area Size	ubove Ground	*	
roject Information kal Area segment width sage Statistics ilization	alats	40	41 6.45 km 48 0.50 km	42 12	43 Mine Type Segment I	Height	otal Segmento	s 7	otal Area Size	bove Ground 0.50 km	% 00	
roject Information kal Area Segments agment Width sage Statistics allization Forest, natural hab Agriculture	ollats	40	41 6.45 km 48 0.50 km	42 12	43 Mine Type Segment I	Height	otal Segment	s 7	otal Area Size 0.00km ² 1.48km ²	bove Ground 0.50 km 0.22	% 00 52	
roject Information stal Area Segments agment Width sage Statistics Lilization Forest, natural hab Agriculture Energy production	olats	40	41 6.45 km 48 0.50 km	42 1 ²	43 Mine Type Segment I	e Height	otal Segments	s 7 5	v otal Area Size 0.00km ² 1.48km ² 0.94km ²	ubove Ground 0.50 km 0.22 14	% 00 52 58	
roject Information stal Area Segments agment Width sage Statistics Bilization Perest, natural hab Agriculture Energy production Business / Resident	altars I/ Light Industry tial development	40	41 6.45 km 48 0.50 km	42 12	43 Mine Type Segment I	e Height	otal Segment	s 7 5 7 5	otal Area Size 0.05km ² 1.48km ² 0.94km ² 0.67km ²	ubove Ground 0.50 km 0 22 14 16	94 600 552 558 42	
roject Information stal Area Segments sgment Width Sage Statistics tillization Forest, natural hab Agriculture Energy production Business / Resident (possible) Water Bo	bilais i/ ught industry tilai development ady	40	41 6.45 km 48 0.50 km	42 9 ²	43 Mine Type Segment I	e Height	otal Segment	s. 7) 7 5 3	otal Area Size 0.05km ² 1.48km ² 0.57km ² 1.75km ²	bove Ground 0.50 km 0 22 144 10 27	% 50 55 58 42 68	
roject Information stal Area Segments agment Width sage Statistics Bilization Perest, natural hab Agriculture Energy production Business / Residen ipossiblej Water Be Total	bitats Li Light industry tial development ady	40	41 6.45 km 48 0.50 km	42 7 ²	43 Mine Type Segment I	Height	otal Segmentation	s 7 5 5 5	otal Area Size 0.00km ² 1.48km ² 0.94km ² 0.57km ² 1.75km ² 4.84km ²	bove Ground 0.50 km 0.22 14 10 27 75	94 500 552 558 422 68 000	
roject Information stal Area Segments add Area Segments egment Width sage Statistics Uilization Forest, natural hab Agriculture Energy production Business / Resident (possible) Water Bo Totul	bilats 1/ Ught industry tial development ady	40	41 6.45 km 48 0.50 km	42 12	43 Mine Type Segment I	Height T	otal Segments	s 7 5 5 5 5	otal Area Size 0.00km ² 1.48km ² 0.94km ² 0.67km ² 1.75km ² 4.84km ² otal Area Size	0.50 km 0.50 km 0.22 14 10 27 25	9% 00 92 58 42 00 9%	
roject Information otal Area segments segment Width sage Statistics tilization Forest, natural hab Agriculture Energy production Ususines / Residen (possible) Water Bo Total	bitats 1/ Ught industry tial development ady	40	41 6.45 km 48 0.50 km	42 ,2	43 Mine Type	Height T	otal Segments (1 1 3 4 otal Segments	s 1 5 5 5 5	otal Area Size 0.05km ² 1.48km ² 0.94km ² 1.75km ² 4.84km ² otal Area Size 0.67km ²	ubove Ground 0.50 km 0.22 14 10 27 25 10 10 27 10 27 10 27 10 10	9% 600 92 58 42 68 600 9%	

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

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

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.

	E WORLD BANK Search	α.	Projects / PPC Mavropigi mine / #1	■ Projects 1 - First rating / Overall Report	G [®] Administration
2' Rating	E Show Overall Report	C Show Report per Segment	Show Rating per Theme SHistory IV	Edit 🖉 Publish	D Notes
100			ACTURN CON		📾 Export Data 💌
	5 7 10	2 3			Export PDF Report
	C C P				Deport Rating Data
-	19 - I	7 7 8			DExport GIS Data
27					
2.21					

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.

Ø	THE WORLD BANK	Search	Q				III Projects	& Administration	Information	Chrysanth	os Steiakakis 👻
				-	Projects / Samp	ole Project - Ratings					
🕼 Ratin	gs 🖉 Documents	Depictions	E Results	🖽 Area Data	🛍 Modify Area 🛛 😡	2 Edit Attributes					🔾 Notes
+	Start new rating										
#	Comments	Mine	Туре	Started On	Started By	Last Updated	Up	dated by	Status	Report	
1	Surface Level Evaluation	Abovi	e Ground	24/04/2023 10:27:13	Chrysanthos Steiak	akis 24/04/2023 10	:49:15 Ch	rysanthos Steiakakis	1	Show	× Delete
2	Underground area evalua	ation Below	v Ground	24/04/2023 10:28:05	Amalia Tziovara	24/04/2023 10	:28:05 Arr	nalia Tziovara	1	B 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).

	Search	Q			i z (Projects	O [®] Administration	Information	🛎 Chrysanthos Steiakakis 👻	
			Projects / Po	land, Ruda Śl	ąska / Rating Resu	ults				
Ratings	s 🛛 🔚 Depictions	I Results	X Combined Evaluations	🖽 Area Data	🛍 Modify Area	🕼 Edit A	Attributes		🗣 No	otes
✓ Create Combined Eva 2 - KWK Slaska Above Started By: Helen 8a Than Last Updated: 11/01/2023 Mine Type: Above Ground	Ground I Nguyen				Jtilization Results Forest, natural habitats Agriculture Energy production / Lig Business / Residential d (possible) Water Body	ht industry evelopmer	it		0.00% 0.82% 81.15% 15.57% 0.00%	
4 - KWK Bielszowice / Started By: Helen Ba Thari Last Updated: 05/01/2023 Mine Type: Above Ground	bove Ground Nguyen				Jtilization Results Forest, natural habitats Agriculture Energy production / Ligf Business / Residential d (possible) Water Body	ht industry	ıt		0.00 % 0.00 % 63.45 % 3.36 % 30.67 %	
1 - KWK Pokoj Above Started By: Helen Ba Than Last Updated: 09/12/2022 Mine Type: Above Ground	Ground 1 Nguyen				Itilization Results Forest, natural habitats Agriculture Energy production / Ligh Business / Residential d (possible) Water Body	ht Industry	it		0.00% 0.00% 44.19% 54.26% 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	Q			=	Projects	of Administration	Information	🛔 Chrysanthos Steiakakis 👻	
			Projects / Po	land, Ruda	Śląska / Rating Res	ults				
🕼 Ratings 🖉 Documents	Depictions	I≣ Results	Combined Evaluations	III Area Data	a 🛛 🕅 Modify Area	🗷 Edit /	Attributes		Q 1	lotes
🖌 Create Combined Evaluation	1									
Create new Combined Evalua	tion									
Select All Evaluations		All Area	ratings		Combined results				Submit Cancel	
Z 2 - KWK Slaska Above G	round				Utilization Results					
Started By: Helen Ba Thanh Ngu	yen				Forest, natural habitate	5			0.00 %	
Last Updated: 11/01/2023 Mina Tuno: Above Ground					Agriculture				0.82 %	
wine type. Above dround					Energy production / Lig	ght industry			81.15 %	
					Business / Residential o	developmer	nt		15.57 %	
					(possible) Water Body				0.00 %	
🗹 4 - KWK Bielszowice Abr	ove Ground				Utilization Results					
Started By: Helen Ba Thanh Ngu	yen				Forest, natural habitats	5			0.00 %	
Last Updated: 05/01/2023 Mine Time: Above Ground					Agriculture				0.00 %	
wine type. Souve crobing					Energy production / Lig	tht industry			63.45 %	
					Business / Residential o	developmer	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).

THE WORLD BANK	Search	٩			≡ Proj	ects of Admi	nistration 🛛 🥥 Informatio	n 💧 Chrysanthos Steiakakis
_		Proje	cts / Poland, Ruda	Śląska / Comb	ined Evaluations / Ruda	Slaska all are	as	
latings 🖉 Documents	M Depictions	Results	* Combined Evaluation	ns IIII Area Data	a 📕 Modify Area 🧭 I	Edit Attributes		9
Show Report per Segmen	it 🕂 Show Score	per Theme terony production/ Light Industry	Buarress / Headerdaal development	geosalate; Water Body	Rating	Last Updated	Ву	Scored Category
		Crarny Las	Tur Zgoda	ATT I	KWK Pokoj Above Ground	09/12/2022 10:41:07	Amalia Tziovara	Energy production / Light Industry
Pavtow	Czarny Las	(grant)		Gora Hugona	KWK Slaska Above Ground	11/01/2023 13:23:06	Am <mark>ali</mark> a Tziovara	
Control of		Wirek	Bykowina		KWK Ruda Above Ground	02/12/2022 14:15:08	Amalia Tziovara	
			A REAL		KWK Bielszowice Above Ground	05/01/2023 17:13:06	Chrysanthos Steiakakis	
	11001	2.1.50			Segment		Coorr	dinates
	AR Z	1		New State	111	#	Longitude	Latitude
1 martine and			den.		Area Size	0	18.880550	50.275058
					9965.69 m ²	1	18.881953	50.275 0 58
		XX	Kadd			2	18.881953	50.274159
	T R	and goods	the progen	- Ander		3	18.880550	50.274159
and the second	Contraction of	BURGET & 2022 - Renators Concorner	n 8 2020 Near 80x03 2022 O mituesh kisur	CO & 2022 Territors Territors Like		4	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 E Projects		0	Administration 👻 🛔 Chrysanthos Stelakakis 👻
	9 10 11 11	5	
Project Area Segments Evaluati	on		
1 Agriculture			
Rated Category	Rating	From	Ву
Agriculture	Surface Area Evaluation	17/06/2021 12:57:24	Nikos Stelakakis
Business, recreation, tourism	Subsurface Evaluation	11/06/2021 11:34:11	Nikos Steiakakis
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 Stelakakis
3 Business, recreation,	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).

Information
Ratings
4
4
F

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)

(j	THE WORLD BANK	Search	Q				i≣ Proje	cts of Administration	Information	🛔 Chrysant	thos Steiakakis 👻
					Projects / A	myntaio mine -	Ratings				
🕼 Ratin	gs 🖉 Documents	🖼 Depictions 🔠	Results	🖽 Area Data	🛍 Modify Area	🕼 Edit Attribute	es				😔 Notes
+	Start new rating										
#	Comments	Mine Type	Started	On	Started By	Last	Updated	Updated by	Status	Report	
1	Rating by CS	Above Ground	20/03/2	2020 17:34:45	Chrysanthos Steia	kakis 24/04	4/2023 10:44:41	Chrysanthos Steiakakis	1	Show	× Delete
2	PCC land uses and rating	Above Ground	10/05/2	2020 21:46:41	Chrysanthos Steia	kakis 16/03	3/2022 09:20:23	Chrysanthos Steiakakis	1	Show 8	× Delete

Figure 47: Depictions

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

		Search	۹						Projects	og Administr	ation 🛛 😧 Inform	ation 🛛 🛔 Chrysa	nthos Steiakakis -	•
					Projects	a / Amynta	aio mine /	Depictions						
Ø	Rations Procuments	Depictions	Results	🖽 Area Data	🛤 Modif	y Area 💦 🛛	📽 Edit Attribut	tes					Q	Notes
	+ Add Depiction													
	Image File	Comments		Top Left Co	ordinates	Bottom Rig Coordinate:	nt s	Depiction Date	Active	Uploaded On	Uploaded By			
	Amyntaio outside fill.png	Amyntaio oi	utside fill correct	21.614336	40.601761	21.686698	40.559582	14/05/2020	V	14/05/2020	Chrysanthos Steiakakis	🖬 Update	× Delete	
	PPC_Land_Reclamation_2018.p	ng PPC land rec	clamation 2018	21.601414	40.649143	21.696256	40.561539	01/05/2020		10/05/2020	Chrysanthos Steiakakis	🖼 Update	× Delete	
	PPC_Amyntalo_Final_Landuses.	png PPC Final lar	nd use proposal	21.597274	40.649147	21.696731	40.559747	01/05/2020	~	10/05/2020	Chrysanthos Stelakakis	🖬 Update	× Delete	

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

Upload File Information	
Depiction file	Browse No file selected.
Depiction Date	
Top Left Coordinates	Lng Lat
Bottom Right Coordinates	Lng Lat
Comments	
	Upload Document Cancel

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	
Amyntaïo outside fill.png	Amyntaio outside fill correct	21.614336 40.601761	21.686698 40.55	582 14/05/2020		14/05/2020	Chrysanthos Steiakakis	X 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.

(C) 11	E WORLD BANK	Search	Q				III Projects	\$ Administration	Information	🛔 Chrysanthos Stelakakis 👻
				Projects / Amyntaio	mine / #1	- Rating by	CS / Publish			
🕑 Rating	B Show Overall Re	eport 🛛 🖻 Show	Report per Segment	➡ Show Rating per Theme	C History	C Edit	🖉 Publish			Notes
Pub	lish Amynt	aio mine -	Rating by	CS						
Publis	hed Rating Attributes									đ Notify All
Status:		Active	Identifier:	b45d985a-e2a1-11ed-ba9e-00155da	4c533	F	ublished On:	24/04/2023 16:12:46	By: Ch	rysanthos Steiakakis
						E	dited On:	24/04/2023 16:12:46	By: Ch	rysanthos Stelakakis
Recipie	ents:	someon	e@example.com					A	Notify	# Remove
		thirdpar	ty@none.nul					41	Notify	# Remove
Add Re	cipient (email):	interested@	9user.com						+ A	b

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.



You have been granted access to a report review regarding a land usage rating in the Land Usage Rating Application.

To access the report you have to click on the following link

If the link is not clickable you can copy it and paste it in the browser address bar.

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.

Notes			🖋 Add Note
Specific to 🖲 Project 🔿 Rating 🔿 Segment			
Chrysanthos Stelakakis (c.stelakakis@geosysta.com) commented on: 24/04/2023 16:53:49			I Delete
The values set for the particular area segment where decided upon after visiting the area for more thorough examination.			
All distances have been measured using the GIS Application.			
Racing: Surface Level Evoluation Area Segment: 110			
Amaila Tziovara (a.tziovara@geosysta.com) commented on: 03/05/2023 09:59:46			
All depiction files have been received from the main office and will be uploaded and geo-located properly to be displayed on the rating	g maps.		
Nikas Stelakakis (nikas@geosysta.com) commented on: 03/05/2023 10:01:38			
Borehole data for the NW section of the main mine area do not indicate any real contamination residue. Still waiting on the environment	ental agency report.		
Reing: Surface Level Evolution			
Amalia Tziovara (a.tziovara@geosysta.com) commented on: 03/05/2023 10:06:16			
Same values have been copied to neighboring segments 111-116 and 128-134. Please review in case any specific criteria need to be up	pdated.		
Rating: Surface Level Ruduation Area Segment: 110			
Chrysanthos Stelakakis (c.stelakakis@geosysta.com) commented on: 03/05/2023 10:07:14			/ Delete
It seems airight. Will keep it as is and move on to the next areas in line for evaluation.			
Rating: Surface Level Reduction Area Segment: 110			
Close			
xn	Topography and hu	u Irography	

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.

																		Note	es									1	Add Note
pecif	ic to (⊖ Pr	oject	⊂ Ra	ating	🖲 Se	gmen	it																				_	
в	I	U		5	\mathbf{X}^{i}	Х,	8	14 •	A	•	:=	≔	≡ •	r	2													S	Save
All d	values	s set	for th	een n	rticula	ar are	a seg ising t	ment v	where 5 Appli	deci	ided u	ipon a	fter v	siting	the a	area	a for mo	iore tho	oroug	ţh exa	:aminatio	on.						La	inter
																			C	lose									

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 Search	Q		E Projects of Administration O Information	anthos Steiakakis 👻
	Projects / Poland, P	Ruda Śląska / - #1 - KWK P	Pokoj Above Ground / Edit History	
🕼 Rating 👘 🥔 Show Overall Report	Show Report per Segment F Show Rating	per Theme SHistory	🕼 Edit 🖉 Publish	D Notes
Poland, Ruda Śląska	a - KWK Pokoj Above Groun	nd Modifications	History	
Datetime	User	Area Segment	Modification Type	
09/12/2022 10:41:07	Amalia Tziovara	124	Score Values Update	Details
09/12/2022 10:40:30	Amalia Tziovara	26	Score Values Update	Details
09/12/2022 10:39:52	Amalia Tziovara	75	Score Values Update	Details
11/11/2022 16:20:33	Helen Ba Thanh Nguyen	21	Segment Rating Unusable Attributes Change	Details
11/11/2022 16:20:31	Helen Ba Thanh Nguyen	21	Segment Rating Unusable Attributes Change	Details
11/11/2022 16:20:27	Helen Ba Thanh Nguyen	12	Segment Rating 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
04/11/2022 02:19:14	Helen Ba Thanh Nguyen	36	Copied Score Values from segment 32	Details
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.

() 	E WORLD BAN	K Search	٩			i≣ Projects	o Administration	Information	🛔 Chrysanthos Stelakakis 👻	
			Projects / Polano	l, Ruda Śląska 🕖 #1 - KV	/K Pokoj Above Gro	und / Edit History /	Modification Deta	ils		
@ Rating	A Show Over	all Report 🛛 🗖 Shor	w Report per Segment	≢ Show Rating per Theme	ී History ලි E	dit 🖉 Publish			Not	tes
Pol	and, Rud	a Śląska - K\	WK Pokoj Abc	ve Ground Mod	ifications His	story				
Modi	fication Details									
	Date	etime	User		Area Segm	ent Modification Type				
← Prev	fious 09/1	2/2022 10:41:07	Amalia Tziova	a	124	Score Values Update				
Score	Values set									
Di	stance to infr	astructure and util	ities						Score:	
	Stance to min		inco					5	00	
								5	.00	
Di	stance to hun	nan settlements							Score:	
								5	.00	
Ex	pected residu	al ground settlem	ent						Score:	
								5	.00	
SI	ope stability –	seismic risks						_	Score:	
								5	.00	

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).

	Search	Q	🔳 Projects	📽 Administration	🛔 Chrysanthos Stelakakis 👻
Figure 62: Administrati	on option				

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

		Search	Q				III Projects	🕫 Administrati	on 🤤 Infor	mation 🔒	Chrysanthos Stelakakis	×
					Administ	ration						
ŧ	Themes and Criteria S	core Categories	Lal Score Guide	Mutilization Scores	P ^{III} Category Cut	offs 🛛 🛛 Trar	Islations	Evaluation Sets	🖀 Users	🚳 Projects		
	Application Content					Application	Usage					
	Themes and Criteria					🖀 Users						
	Score Categories					💩 Projects						
	M Score Guide											
	🖿 Utilization Scores											
	I [⊂] Category Cutoffs											
	@ 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:	
Default ~	Above Ground	
Location		
Criteria	Favorable for	Unfavorable for
Distance to infrastructure and utilities	Any industrial process that depends on delivery and shipping of goods or materials by road, and requires / produces significant amounts of energy and water, and solid and liquid waste.	Recreational areas, research parks and other non-industrial uses may be negatively impacted by proximity to infrastructure.
Distance to human settlements	Recreational, business / research facilities would profit from closeness.	Industrial activities creating noise, emissions, odors and other risks / impacts should be isolated from settlements.
Geotechnical stability		
Criteria	Favorable for	Unfavorable for
Expected residual ground settlement	Almost irrelevant for agriculture and forests, recreation and tourism.	Can be extremely important for large scale structures with high loads and low tolerances esp. for differential settlement.
Slope stability – seismic risks	Potential risk for any utilization scenario.	Can be actively hazardous for community health and safety, and infrastructure near the slopes of OD. Relevant for almost any use scenario; seismic risks need to be factored into ground stability assessments
Impact of groundwater rebound (applies especially to interior dumps)	Almost irrelevant for agriculture and forests, recreation and tourism; can have positive biodiversity impacts due to creation of lakes, ponds and wetlands with high ecological value.	Can be very relevant and have negative impacts for large scale structures with high loads and low tolerances esp. for differential settlement. Potential agricultural and recreational issues due to water percolating through fly ash layers with elevated heavy metals content in OD

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 Criteria / Edit Criterion [Distance to infrastructure and utilities] Location Distance to infrastructure and utilities	
Administration / Themes and Criteria / Edit Criterion [Distance to infrastructure and utilities] Location Distance to infrastructure and utilities	
Location Distance to infrastructure and utilities	
Distance to infrastructure and utilities	
Distance to infrastructure and utilities	
Distance to infrastructure and utilities	
Favorable for Unfavorable for	
	_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Any industrial process that depends on delivery and shipping of goods or materials by road. Recreational areas, research parks and other non-industrial uses may be negatively impact:	be
and requires / produces significant amounts of energy and water, and solid and liquid water.	
Overrides Generic Score	
Advanced Criteria	
Parent Criterion Fill. Set. Fill. Stab. Cut. Stab.	
v	
cause Cancel	

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 Search		Q					i≣ Project	s 🕫 Administration	Information	🛔 Chrysanthos Steiakakis 👻
					Admini	stration / S	Score Cat	tegories			
ŧτ	hemes and Criteria Score Cate	gories	네 Score Guide	陆 Utiliz	ation Scores	Category Ci	utoffs	O Translations	Evaluation Sets	🖀 Users 🛛 💩	Projects
	Category Attributes										
	Evaluation Set:										
	Default			~							
	Score Categories						Unu	sable Catego	ories		
	Category	Color	Comments	Override	Override Score	Priority	Category	(Color	
	Forest, natural habitats	•		0		1	Unusable	2		•	
	Agriculture	•				2	Forest ar	eas		•	
	Energy production / Light industry	•				3	TPP - Bui	ildings		•	
	Business / Residential development	•				4	Sedimen	tation Pond		•	
	(possible) Water Body	•	Special category	✓	1.00	5	Archaeol	logical 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).

Image: State Stat		Search	۹			🔳 Proje	cts 📽 Administratio	n 🛛 😧 Informati	on 🔺 Chrysanthos Stelakakis 👻	
Image: the sear of Critery Image: Source Category Image: Category				A	dministration / Score	e Guide				
Socie Guide Bowing Criteria for mine type: Lefault " " @ dow Ground " Control Control Discote Ground " Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control	∓ Themes and Criteria ● 9	icore Categories	Score Guide الله	L Utilization Scores	P ² Category Cutoffs	Translations	Evaluation Sets	📽 Users	🗞 Projects	
Evaluation Set:Showing Criteria for mine type:DefaultAbove GroundAbove GroundTiteApplicationDistance to infrastructure and utilized100 $2,500$ m 1601 200 $1,000 - 2,500$ m 1601 1601 300 $200 - 1,000$ m 1601 1601 1601 300 $200 - 1,000$ m 1601 1601 1001 300 $200 - 1,000$ m 1601 1601 1001 300 200 m 1000 m 1601 1001 100 1000 m 1000 m 1601 1000 m 100 1000 m 1000 m 1601 1000 m 100 1000 m 1000 m 1000 m 1000 m 100 1000 m 1000 m 1000 m 1000 m 100 1000 m 1000 m 1000 m 1000 m 100 1000 m 1000 m 1000 m 1000 m 100 1000 m 1000 m 1000 m 1000 m 100 1000 m 1000 m 1000 m 1000 m 100 1000 m 1000 m 1000 m 1000 m 100 1000 m 1000 m 1000 m 1000 m 1000 1000 m 1000 m 1000 m 1000 m 1000 1000 m 1000 m 1000 m 1000 m 1000 1000 m 1000 m 1000 m 1000 m 1000 1000 m 1000 m </td <td>Score Guide</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Score Guide									
Default Above Ground Image: Construction File Application Application Distance to infrastructure and utilization Application Application Application Distance to infrastructure and utilization Application Application Application Application Distance to infrastructure and utilization Application Application Application Application Application Distance to infrastructure and utilization Application	Evaluation Set:			Showing Criteria fi	or mine type:					
Applicability Title Applicability Distance to infrastructure and utility Applicability Distance to infrastructure and utility Applicability 100 2 Edit Colspan="2">Colspan="2" Applicability Colspan="2">Applicability Applicability Colspan="2" Applicability Applica	Default			~ Above Ground			~			
Tile Applicable Distance to infrastructure and UCE 2,500 m 0.00 <td>Location</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Location									
Distance to infrastructure au U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-U-	Title								Applicable	
1.00 > 2.50 m <th< th=""> <th< th=""> <</th<></th<>	Distance to infrastructure an	nd utilities								
2.00 1.000-2.500 m 2.601 0 3.00 500-1.000 m 2.610 0 4.00 2.50-500 m 2.610 0 5.00 0-250 m 2.610 0 Distance to human settlements 1.00 > 10 km 2.610 0 2.00 10-5 km 2.610 0 3.00 5.2 km 2.610 0 4.00 2.1 km 2.1 km 0	1.00	> 2,500 m						🖋 Edit		
3.00 \$00 • 1.00 m \$2 Edit \$2 4.00 \$25 • 50 m \$2 Edit \$2 5.00 \$-25 m \$2 Edit \$2 5.01 \$-25 m \$2 \$2 Distance to human settlements 1.00 \$-10 m \$2 \$2 3.00 \$0 - 5 km \$2 \$2 4.00 \$2 edit \$2 \$2	2.00	1,000 - 2,500	0 m					₽ Edit	0	
4.00 250-500 m P Edit P Edit <th edit<="" p="" td=""><td>3.00</td><td>500 - 1,000 r</td><td>m</td><td></td><td></td><td></td><td></td><td>🖋 Edit</td><td>8</td></th>	<td>3.00</td> <td>500 - 1,000 r</td> <td>m</td> <td></td> <td></td> <td></td> <td></td> <td>🖋 Edit</td> <td>8</td>	3.00	500 - 1,000 r	m					🖋 Edit	8
5.00 0 - 250 m P Edit P Edit <th edit<="" p="" td=""><td>4.00</td><td>250 - 500 m</td><td></td><td></td><td></td><td></td><td></td><td>₽ Edit</td><td>8</td></th>	<td>4.00</td> <td>250 - 500 m</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>₽ Edit</td> <td>8</td>	4.00	250 - 500 m						₽ Edit	8
Distance to human settlements Plane Plane <t< td=""><td>5.00</td><td>0 - 250 m</td><td></td><td></td><td></td><td></td><td></td><td>🖋 Edit</td><td>8</td></t<>	5.00	0 - 250 m						🖋 Edit	8	
1.00 > 10 km 2 Edit 20 2.00 10 - 5 km 2 Edit 2 3.00 5 - 2 km 2 Edit 2 4.00 2 - 1 km 2 Edit 2	Distance to human settleme	ents								
2.00 10 - 5 km C 3.00 5 - 2 km C 4.00 2 - 1 km C	1.00	> 10 km						🖋 Edit	2	
3.00 5 - 2 km ₽ Edit ₽ 4.00 2 - 1 km ₽ Edit ₽	2.00	10 - 5 km						/ Edit		
4.00 2 - 1 km ₽ Edit ₽	3.00	5 - 2 km						🖋 Edit		
	4.00	2 - 1 km						🖋 Edit	•	
5.00 0 - 1 km	5.00	0 - 1 km						∂ Edit	•	

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 Search Q			i≣ Projects 😋 A	dministration 🛛 O Information 🛆 C	hrysanthos Steiakakis 👻
2	Administ	tration / Util	ization Scores		
Ŧ Themes and Criteria ● Score Categories 실실 Score Guide	LUTILIZATION Scores	Category Cutol	fs 🛛 🛛 Translations 🖉 Evalua	ation Sets 🛛 📽 Users 🖓 Project	s
Typical Land Repurposing Profiles					
Evaluation Set:	Showing Criteria for min	ie type:			
Default	Above Ground		~		
Location					
Criteria	Forest, natural habitats	Agriculture	Energy production / Light Industry	Business / Residential development	(possible) Water Body
Distance to infrastructure and utilities	1.00	1.00	4.00	5.00	1.00
Distance to human settlements	1.00	3.00	2.00	5.00	1.00
Geotechnical stability					
Criteria	Forest, natural habitats	Agriculture	Energy production / Light industry	Business / Residential development	(possible) Water Body
Expected residual ground settlement	1.00	3.00	4.00	4.00	1.00
Slope stability – seismic risks	1.00	1.00	5.00	5.00	1.00
Impact of groundwater rebound (applies especially to interior dumps)	1.00	2.00	5.00	3.00	1.00
Fill settlement / stability	1.00	3.00	4.00	4.00	1.00
Settlement only	1.00	3.00	4.00	4.00	1.00
Fill Stability only	1.00	1.00	5.00	5.00	1.00
Cut / longwall stability	1.00	2.00	5.00	5.00	1.00
Topography and hydrography					
Criteria	Forest, natural habitats	Agriculture	Energy production / Light industry	Business / Residential development	(possible) Water Body

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		=	Projects & Administration @ Information	🛔 Chrysanthos Steiakakis 👻					
		Administ	ration / Category Cutoff Values							
	i 🕍 Score Guide 🗎 🖿	Jtilization Scores	Category Cutoffs	🖉 Evaluation Sets 🛛 👹 Users 🛛 🚳 Proj	jects					
Score Category Cutoff	Values per Then	ne								
Evaluation Set:		Showing Criteria for r	ing Criteria for mine type:							
Default v Above Ground v										
Cutoff values set to 0 will be ignored during the rating process										
		Cutoff values set t	o 0 will be ignored during the rating pr	ocess						
Theme	Forest, natural habitats	Cutoff values set t Agriculture	o 0 will be ignored during the rating pr Energy production / Light industry	ocess Business / Residential development	(possible) Water Body					
Theme Location	Forest, natural habitats	Cutoff values set t Agriculture	o 0 will be ignored during the rating pr Energy production / Light industry 0	ocess Business / Residential development 0	(possible) Water Body 0					
Theme Location Geotechnical stability	Forest, natural habitats 0 0	Cutoff values set t Agriculture O	o 0 will be ignored during the rating pr Energy production / Light industry 0 <u>0</u>	0 <u>9</u>	(possible) Water Body 0 <u>0</u>					
Theme Location Geotechnical stability Topography and hydrography	Forest, natural habitats	Cutoff values set t Agriculture 0 0 0	0 0 will be ignored during the rating pr Energy production / Light industry 0 <u>0</u> <u>0</u> <u>0</u>	Business / Residential development 0 2 2 2 2	(possible) Water Body 0 2 2					
Theme Location Geotechnical stability Topography and hydrography Environmental risks	Forest, natural habitats 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cutoff values set t Agriculture 0 0 0 0	0 0 will be ignored during the rating pr Energy production / Light industry 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Business / Residential development 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(possible) Water Body 0 2 2 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).

THE WORLD BANK III Projects		O ₀ ⁶ Administration 👻 🔒 Nikos Stelakakis 👻
Administration / Translations / Criteria Criteria Translations		
Showing Criteria for mine type	Language	
Above Ground	 Ελληνικά 	۰. ×
Τοποθεσία		Î
Distance to infrastructure and utilities	Απόσταση απο υποδομές και υπηρεσίες	
Favorable for	Any industrial process that depends on delivery and shipping of go or materials by road, and requires / produces significant amounts of energy and water, and solid and liquid waste.	oods of Β Ι U Β S X' X, Β 14 • Χ • Ξ Ξ Ξ • • • 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.
Unfavorable for	Recreational areas, research parks and other non-industrial uses m be negatively impacted by proximity to infrastructure.	
	Submit Cancel	

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.

C)	THE WORLD BANK Searc	th Q			🔳 Pro	jects of Administ	ration @ Inform	nation 🛛 🛔 Chrysanthos Stelakakis 👻			
			Ad	ministration / Evalu	ation Sets						
丰 The	emes and Criteria 🔷 Score Cat	egories Latt Score Guide	🖿 Utilization Scores	Category Cutoffs	O Translations	Evaluation Sets	📽 Users	🚳 Projects			
E	Evaluation Sets										
A s a	An evaluation set contains a list of criteria per theme and their corresponding attributes such as score categories and utilication set only a scores to be used in Land Repurposing projects. Creating a new evaluation set will make a copy of a previous evaluation set and all it's attributes so that they can then be modified and used in new project ratings										
10	D Name	Description				Is Default	Created On	Created By			
1	Default	Default Evaluation Se	t.			2	01/01/2020	Nikos Steiakakis			
2	Experimental evaluation set	A copy of the Default	evaluation set to be used t	for experimental purpose	5	0	24/04/2023	Chrysanthos 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.

3	THE WORLD BANK Search	Q			■ Projects © Adminis	stration @ Information	🛔 Chrysanthos Steiakakis 👻
			Admi	inistration / Users			
≠ Theme	es and Criteria Score Categorie	es 🛛 🕍 Score Guide	🛎 Utilization Scores 🔰 🏳 Cal	tegory Cutoffs O Translatio	ns 🖉 Evaluation Sets	쑵 Users 🚳 Projec	ts
Us	sers List						
	+ Add new user account						
#	Name	e	e-mail	Active	Created on Role	15	
4	Amalia Tziovara	ā	a.tziovara@geosysta.com		29/06/2021 Rate	er, Vlewer	
2	Chrysanthos Stelakakis	c	.stelakakis@geosysta.com	2	10/01/2020 Adm	ninistrator, Rater, 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 Search	Q		i ii P	rojects 🕰 Administra	ition @ Info	ormation 🛔 Chrysant	hos Steiakakis 👻
-	Administration	n / Users /	Chrysanthos Steiakak	is			
	es 🖬 Score Guide 🛋 Utilization Scores 🛛	Category Cuto	offs OTranslations	Evaluation Sets	📽 Users	🗞 Projects	
Chrysanthos Steiakak	is - Account Information						
User attributes			Roles				
Name	Chrysanthos Stelakakis		Administrator				
e-mail address	c.stelakakis@geosysta.com		🗹 Rater				
Password			Viewer				
Confirm Password							
Active	Ø						
Never Expires	•						
Expires On							
	s	ubmit Cancel					Delete User

Figure 73: User account information

The name, email, password and the corresponding user authorization, i.e., "Administrator", "Rater" or "Viewer", can be modified (Figure 73). If an "Administrator" role is assigned to a user, that user has full access to the application, while a "Viewer" role allows just viewing of the map and the final rating.

Projects

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

		Search	۹			🔳 Pr	ojects 🕫 Administrat	ion O Inform	nation 🔒 Chr	ysanthos Steiakakis 👻
					Administration / Pro	ojects				
÷	Themes and Criteria	Score Categories	Latt Score Guide	M Utilization Scores	Category Cutoffs	O Translations	Evaluation Sets	📽 Users	🗞 Projects	
	Project			Creat	ed On	Ву			Users	
	PPC Mavropigi mine			11/01	/2020 09:07:11	Chrysan	thos Stelakakis		4	🖋 Edit
	Amyntaio mine			19/03	1/2020 12:28:28	Chrysan	thos Stelakakis		5	🖋 Edit
	Elliniko			09/06	/2021 13:05:18	Nikos St	elakakis		3	🖋 Edit
	Sample Project			23/00	i/2021 07:31:04	Chrysan	thos Stelakakis		0	🖋 Edit
	Chrys test			29/06	/2021 07:12:43	Chrysan	thos Steiakakis		0	🖋 Edit
	mavropigi test2			01/08	//2021 05:20:11	Chrysan	thos Steiakakis		0	

Figure 74: All Projects List

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

Ç		NК	Search	Q					🔳 Projec	ts 🕯	🛠 Administrati	on @ Inform	nation	Chrysanthos Stelakakis 👻
	-					Adminis	tration / Proj	ects / S	ample Project					
≠ T	nemes and Criteria	€ So	ore Categories	M Score Guide	1	Utilization Scores	⊨ Category C	utoffs	O Translations	😹 Eval	uation Sets	督 Users	🚳 Proje	ects
	Sample Pro	ject	Configu	ration										
	General Information										Ratings Con	ducted or In Pro	gress	
	Name	Sam	ple Project								Info			Last Updated
	Created on	21/0	4/2023		Ву	/ user	Chrysanthos Stei	akakis			Surface Level	Evaluation		03/05/2023 10:04:35
	Last Updated	24/0	4/2023 15:29:49		Ву	user	Chrysanthos Stei	akakis			Underground	area evaluation	n in the second s	24/04/2023 10:28:05
	Project Team										Extra Option	IS		
	Project Team				A	vailable users					Create a D	uplicate/Copy P	roject 🔹	
	Nikos Steiakakis nikos@geosysta.co	m	Rater	🗆 Manager		Wolfhart Pohl wpohl@worldb	ank.org	🗆 Rater	🗆 Manager					
	Chrysanthos Steiak c.steiakakis@geosy	akis sta.cor	🗹 Rater	Manager		Zach Agioutant zach.agioutanti	is s@uky.edu	🗆 Rater	🗆 Manager					
	Amalia Tziovara a.tziovara@geosyst	ta.com	🗹 Rater	🗆 Manager		Michael Stanley mstanley@worl	dbank.org	🗆 Rater	🗆 Manager					
						Raymond C. Pll pilcher@ravenr	ther idge.com	🗆 Rater	🗆 Manager					
						Magdalena Kata Chawula Kosuri mchawulakosu	arzyna i ri@worldbank.org	🗆 Rater	🗆 Manager					
						Helen Ba Thanf hnguyen20@wi	n Nguyen orldbank.org	🗆 Rater	🗆 Manager					
						Vaishnavi Hona vaishnavihonap	p 6399@gmail.com	🗆 Rater	🗆 Manager					
				Subr	nit	Cancel								

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 Search	Q			III Projects	© Administration	Information	🛔 Nikos Steiakakis 👻
	Us	erences					
[Nikos Steiakakis] Account	Preferences						
View preferences			Password				
Displayed Name	Nikos Steiakakis		Current Password				
Date Format	DD/MM/YYYY	~	New Password				
Language	English	~	Confirm Password				
Use Dark Map Grid Lines	0						
		Submit	Cancel				

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.

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.

THE WORLD BANK Search Q Imformation & Information & Chrysanthos Stelak	.kis 🖛
 About LURA The World Bank is finalizing a comprehensive set of global coal mine dosure good practice technical standards that will enable the transition from physical dosure' to a more "sustainable" dosure in the context of achieving a "just Transition for AII". The good practice technical standards outine standards outine activities, regulatory implications, and policy issues that need to be addressed during planning, execution and post closure of a coal mine sites. The World Bank encourages and supports the use of tools to assess, evaluate, and dassify recourses which are at risk of losing value if the threat of the issues that or on the dosure is approach recognites the interconnected nature of the issues that confront operation and periodically through closure and recourses the need for mine operators to develop a comprehensive resource that guidance' advice on planning and preparation for coal mine dosure is algened with a regulatory approach in which technical standards used to close. This ensures that guidance' advice on planning and preparation generations. A tool (LURA) has been designed with risk-based, spatial planning capabilities and is aligned with a regulatory approach in which technical standards used to close a nine address i legacy risks from surface and underground mine operations. A tool (LURA) has been designed with risk-based, spatial planning capabilities and is aligned with a regulatory approach in which technical standards used to close the address legacy risks from surface and underground mine operations. A dedicated cloud based, simple to use Land Utilization Rating Application (LURA) has been developed in order to support stakeholders, organization or enable area during closure or many years after the USA is a support to create a sustained development during mine closure operations. A dedicated cloud based, simple to use Land Utilization Rating Application (LURA) has been developed in order to support stakeholders, organi	1g

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.

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.