AKMS OPERATIONAL USER GUIDE

AKMS is online knowledge sharing platform on the climate changes and adaptation issues. It allows all stakeholders to access credible, high-quality information and connect with one another.

AKMS USERS

The following are types of users that have access on the AKMS: -

1. Visitors

This kind of users that have public access to published data which may include events updates and other reports that are approved to be accessible by everyone (Figure -1). Visitors do not need login function to access published information in the AKMS. However, visitors may navigate freely to any banner of the system.





Figure -1: Displays of System Features with Public Access

2. Members

This kind of users have access to the system through login function after being registered and approved by the System Administrator. Members' roles are limited to posting and viewing contents in the system. These includes EbARR participating institutions and field technicians who are responsible in collection and processing data before uploading the contents in the system.

Qualification for membership

Members should principally be drawn from multi-stakeholder group. However, more members who have knowledge on the adaptions, climate related issues could be added to the system through recommendation from respective Regional Administrators. Members are required to have basic knowledge in computer application for uploading or populating data in the system.

Members Access in AKMS

Members have right access to perform the following activities in the AKMS.

a) <u>Posting Data</u>

After collecting data, Members are required to process those data (formatting) and then upload those data for approval and later to be accessible by all system users. Such task can be performed as explained in the steps below.

b) <u>Login</u>

Member shall login into the system using his/her username and password which was entered and accepted during registration as shown in **Figure - 2**.

Adaptation Knowledge Management System	(f) 💙 🖻 🛞 💿	Login Register
Home Agro-ecological Zones • Projects Resources • Published Data		
Log In		
Email mulincage@yahoo.com		
Password		
Log in		

Figure -2: Login Window for a Member in AKMS

c) <u>Data Entry</u>

After successfully login, Members shall have access to upload data in the system as shown in **Figure - 3**.

📀 Government City, Dodoma 🛛 📀 Ps@Vpo.Go.Tz / Km@Vpo.Go.Tz	+ (255) 026 2352038
HOME AGRO-ECOLOGICAL ZONES PROJECTS RES	DURCES PUBLISHED DATA MEMBER
Central Region, Data Entry total data uploaded: 1 🖬 data approved: 5	
Data entry function includes Collecting data and uploading to Regional Administrator for approval Modification of collected/uploaded data 	

Figure -3: Data Uploading Window for the Members of AKMS

In order to upload data/information, a member shall click the data entry link and then post data button in which shall be provided with the form to enter descriptive information as shown in **Figures - 4 and 5.**

4 ⁴ ¹	
Action Buttons Post data Reports status	

Figure -4: Data Posting and Reports Status Window for the Members of AKMS

Title of data to be uploaded	
Climate change report for kishapu	
More Information	
Report Owner	
Thomas Nyakia 🗸 🗸	
Region	
Central 🗸	
Role	
Member	
Date	
Jan 18, 2021 🗸	
Details	
Climate change report for <u>kishapu</u>	
Go to Attachment	

Figure - 5: Online Form for Providing Brief Description of Data to be Uploaded in AKMS

Once data upload is done successfully, member shall wait for data to be accepted/approved by Regional Administrator and approval status can be tracked in the system through reports status button as shown in **Figure – 6.**

Data sent to	Regional	Admin	istrator for Appr	oval	
No submitted report					
Returned by	Regional	Admin	istrator for Mod	ification	
No returned approvals					
Approved Da	ata				
Owner	Region	Role	Date	Title	Action
	Contract	Normal	2020-12-17 06:33:24	asdfg	View More 🗙 GO

Figure - 6: View by AKMS Member on Report/Document Approval Status

This function will display uploading status summary of all data/reports which might be **sent** */pending for approval*; *returned to member;* or *approved by Regional and Content Administrators*.

d) <u>Other Access</u>

Apart from posting data members have also access to all approved data from members in which they can view, comment, and download for their own use.

3. Regional Administrators

These kinds of users have access to the system in which their roles are limited to content and user's administration in their respective regions. Each clustered agro-ecological zone should have one regional administrator. In this regard the system is primarily designed to have coast, central, southern, northern and lake regional administrators. The system allows creation of additional Regional Administrators through "Users Management" button of System Administrator.

Requirements for Regional Administrators

Regional Administrators have to be drawn from multi-stakeholder group. They are required to have outstanding knowledge on environment, adaptions, climate change related issues and basic computer knowledge in reviewing contents in the system. In additional, the Regional Administrators need to have a leadership experience for multi-disciplinary teams.

Regional Administrators Access in AKMS

Regional Administrations have right access to perform the following activities in the AKMS.

a) Approve Members Access Request

Regional Administrators are required to initiate the approval process for member's access request in their regions. The purpose of this is to assist in validations of members and details and other requirements that comply with AKMS. This shall be done as explained in the steps below.

b) <u>Login</u>

A Regional Administrator shall login into the system using his/her username and password which was entered and accepted during registration as shown in **Figure - 7**.

AKMS Adaptation Knowledge Management System	(f) 🎔 🖻 🛞 💿 Login Regi	ister
Home Agro-ecological Zones v Projects Resources v Published	d Data	
Log In New to WebAKMS? Sign up.		
Email mulincage@yahoo.com		
Password		
Log in		

Figure -7: Login Window for the Regional Administrator in AKMS

c) <u>Member Access Management</u>

After successfully login, Regional Administrator, for example Central Region shall have access to manage users access request in the system as shown in **Figure - 8**.

HOME AGRO-ECOLOGICAL ZONES PROJECTS RESOUR	ces published data regional administrator Ξ
Central Region, Users Management a RECISTERED USERS: 7 a PENDING FOR APPROVAL: 0 Users Management Function helps to manage below functionalities 4 Oprove user request	2 Central Region, Data & Reports Management ▲ MANAGED ZONES: 3
C Change user role	Change report category Delete report Organising collected data from different members within the region Approval/modification of collected data Publiching collected data

Figure - 8: Display Window of Regional Administrator after Login into AKMS

In order to initiate the membership approval process, Regional Administrators shall click user's management link in which all users in the system and users whose access need to be approved shall be displayed as shown **Figure - 9**.

	IOME	AGRO-ECOLO	GICAL ZONES	PROJECT	S RESO	URCES	PUBLISHED DA	TA F	EGIONAL	ADMINIS	TRATOR		
CREATE U	SER												
Jsers	Pen	ding fo	r Appro	val									
Name		Т	itle	Region		Role		Action					
				Central		Member		Pendin	g 🖌 GO				
	, / D	elete U	sers	central									
	/ / D	elete U	Sers	contra	Pagian		Pala				Action		
JUMA IDE	/ / D	elete U	SETS itle		Region	~	Role Regional Adminis	strator v			Action	60	
JUMA IDE	Jrassa Nyakia	elete U	Inna SETS itle Engineer Engineer		Region Central Central	× ×	Role Regional Adminis Member ~	strator ~			Action Select ~ Select ~] <u>co</u>]co	
JUMA IDE Addify Name Richard I Thomas Eva Main	/ / Da Jrassa Nyakia go	elete U	SETS itle Engineer Engineer arbon Researchy	er	Region Central Central Central	> > >	Role Regional Adminis Member ~	strator ~]		Action Select ~ Select ~ Select ~) <u>co</u>) <u>co</u>	
JUMA IDE Addify Name Richard L Thomas Eva Main Suzana n	/ / D Jrassa Nyakia go napunda	elete U	SETS itte Engineer arbon Researchu onal Manager	er	Region Central Central Central Central	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Role Regional Adminis Member ~ Member ~	strator ~]		Action Select ~ Select ~ Select ~) GO) GO] GO] GO	
JUMA IDI Addify Richard I Thomas I Eva Main Suzana n Albano M	Jrassa Nyakia go napunda Jauto	elete U	Itte Engineer Engineer arbon Researchd onal Manager KMS Officer (Lar	er nd)	Region Central Central Central Central Central	> > > > > > > > > > > > > > > > > > >	Role Regional Adminis Member ~ Regional Adminis Member ~	strator ~			Action Select ~ Select ~ Select ~ Select ~) GO) GO) GO) GO) GO	
JUMA IDI JOdify Richard I Thomas I Eva Main Suzana n Albano M Fredrick	Jrassa Nyakia go napunda Iauto Mulinda	elete U n c z A A	Itte Engineer Engineer arbon Researcht onal Manager KMS Officer (Lar KMS-Officer(Lan	er nd)	Region Central Central Central Central Central	> > > > >	Role Regional Adminis Member ~ Member ~ Regional Adminis Member ~	strator v]		Action Select ~ Select ~ Select ~ Select ~ Select ~) GO) GO] GO] GO] GO] GO	

Figure -9: Function Buttons of Regional Administrator for Users Management

With selected users' Regional Administrators shall select action (Approve, Reject) and click GO button to command the action (Figure -10).

номе ас	GRO-ECOLOGICAL ZONES	PROJECTS	RESOURCES	PUBLISHED DATA	REGIONAL ADMINIST	rator \equiv
CREATE USER						
sers Pendi	ng for Approv	val				
Name	Title	Region	Role	Acti	on	
JUMA IDD	Juma	Central	Member	Per	iding 🛩 GO	
				Per Ap Re	nding prove ect	
lodify / Dol	oto Usors					
iouny / Dei	ete Users					
Name	Title		Region	Role	۵	ction
Richard Urassa	IT Engineer		Central ×	Regional Administrate		Select × GO
Thomas Nyakia	IT Engineer		Central ¥	Member 🗸		Select × GO
				Manakan		
Eva Maingo	Carbon Researche	r	Central 🗸	i Member 🗸 i		select VIIGO
Eva Maingo Suzana mapunda	Carbon Researche Zonal Manager	r	Central V	Regional Administrate	or •	Select V GO
Eva Maingo Suzana mapunda Albano Mauto	Carbon Researche Zonal Manager AKMS Officer (Land	r d)	Central Central Central	Regional Administrate	or 🗸	Select V GO Select V GO

Figure -10: Display of Regional Administrator's Commands for Membership Approval

d) <u>Content Management</u>

In order to maintain authenticity of the supplied data or information, Regional Administrators are required to approve all data that are being uploaded with their members. Prior to validation Regional Administrators need to review the data/information/report to make sure that they are correct and appropriate for public sharing in the context of climate change adaptation initiatives. After successfully login, a Regional Administrator, for example for Central Region shall have access to manage data and reports in the system as shown in **Figure - 11**.



Figure -11: Access Window of Regional Administrator for Data & Reports Management

Through this function a Regional Administrator can review a document uploaded by member in a system before passed to Content Administrator. After content review and in order to initiate the document approval process, a Regional Administrator shall click data management link in which all data in the system and those need to be approved shall be displayed as shown in **Figure -12.**

2 Central	Regioi	n, Data 8 Pending for appr	Reports Manage	ement	
Approval Pend	ings				
Returned by Sy	rstem A	dministr	ator for modificat	ion	
No returned approvals	orts in C	Central			
Owner	Region	Role	Date	Title	Action
Thomas Nyakia	Central	Normal	2020-12-17 06:33:24	asdfg	View More V GO

Figure -12: Access Window for Regional Administrator on Reports Approving Process

With selected data Regional administrators shall select action (Approve, Reject) and click GO button to command the action.

e) <u>Creating Members</u>

System allows all members to register themselves using the self-registration, but in the situation where users cannot do the self-registration the Regional Administrator shall be able to assist in creating their membership accounts as explained below. Regional administrator shall navigate to user management and then click create user (**Figure -13**).

	O-ECOLOGICAL ZONES PR	OJECTS RESOURCES	S PUBLISHED DATA REGIONA	ADMINISTRATOR
	ral Region, Use	ers Manage	ment	
CREATE USER				
sers Pendir	ng for Approval			
No pending users for ap	proval			
No pending users for app	proval			
No pending users for app	proval			
No pending users for app	proval			
No pending users for app	ete Users			
No pending users for app Odify / Dele	oroval Pte Users	Region	Bole	Action
No pending users for app Odify / Dele	ete Users Title	Region	Role	Action
No pending users for app Odify / Dele Name Richard Urassa Thomas Nyakia	ereval ete Users Title IT Engineer IT Engineer	Region	Role [Regional Administrator >	Action Select ♥ (GQ)
No pending users for app Odify / Dele Name Richard Urassa Thomas Nyakia Eva Maireo	Title IT Engineer IT Engineer Carbon Researcher	Region Central V Central V	Role [Regional Administrator ♥] [Member ♥]	Action Select V GO Select V GO
No pending users for app Odify / Dele Name Richard Urassa Thomas Nyakia Eva Maingo Suzana mapunda	Title IT Engineer IT Engineer Carbon Researcher Zanol Manager	Region Central V Central V Central V	Role Regional Administrator Member Regional Administrator Regional Administrator	Action Select V GO Select GO Select GO Select GO
No pending users for app Odify / Dele Name Richard Urassa Thomas Nyakia Eva Maingo Suzana mapunda Albano Mauto	Title IT Engineer IT Engineer Carbon Researcher Zonel Manager AKMS Officer (Land)	Region Central V Central V Central V Central V	Role Regional Administrator Member Regional Administrator Regional Administrator	Action Select V GO Select V GO Select V GO Select V GO
No pending users for app Odify / Dele Name Richard Urassa Thomas Nyakia Eva Maingo Suzana mapunda Albano Mauto Fredrick Mulinda	Title If Engineer If Engineer If Engineer Carbon Researcher Zonal Manager AKMS Officer (Land)	Region Central ♥ Central ♥ Central ♥ Central ♥ Central ♥	Role [Regional Administrator ▼] [Member ▼] [Regional Administrator ▼] [Member ▼]	Action Select → GO Select → GO

Figure -13: Access Window for Regional Administrator enabling Creating a Member

A form presented in **Figure - 14** shall be presented for collecting user details who applied for membership, Regional Administrator shall fill in and submit user to be created as member in the system.

🏥 AKMS 🛛 Adapt	ation Knowledge Management System	(†) (†)	Richard Urassa	Logout
Home Agro-ecological Zon	es 👻 Projects Resources 🐃 Published Data	Regional Administrator		
	Add New Account			
	Salutation			
	First name	•		
	Last name			
	Carder			
		~		
	E-mail			
	Phone			
	Region			
	Central	~		
	Title			
	Role			
		\checkmark		
	Password			
	Retype Password			
	Sign Up			

Figure - 14: Online Form for Registration of Member by the Regional Administrator

4. Content Administrator

This kind of user has given upper level access to the system in which his/her primary role is limited to content management delivered from all regions.

Qualification of Content Administrator

The Content Administrator is required to have extensive experience in environment, ecosystem, natural resources management, climate change adaptation and mitigations as well as wide computer knowledge for approving contents in the system. In addition, the Content Administrator need to have experience in multi-cultural team leadership for large-scale projects. The Content Administrator shall be nominated by VPO – Division of Environment.

Content Administrator's Access in AKMS

The Content Administrator have right access to perform the following activities in the AKMS.

a) Information/Data/Report Review and Approval

Once a Regional Administrator has initiated the approval process of the uploaded data, the next stage for review and validate data/information is vested to Content Administrator. The Content Administrator acts like ultimate checker to confirm if everything is in order after approval from Region Administrators. The steps for data review and approval are explained below.

After successfully login the created user name and password, the Content Administrator shall be able to navigate into a page shown in **Figure – 15**.

Government City, Dodoma	Ps@Vpo.Go.Tz / Km@Vpo.Go.Tz	+ (255) 026 2352038		
HOME AGRO-ECOLOGIC	CAL ZONES PROJECTS RES	OURCES PUBLISHED DATA	CONTENT ADMINISTRATOR	archive 🚍
3 CONTENTS → INDICATORS COUNT: ■ Contents Management Function is a will information such as • Addition / Removal of Indicators • Number of project covered such as • Content update such as images and • Stake-holders information Manager • Supporting Patners Management • External links Management • FAQ, Contacts and About AKMS Info	MANAGEMENT	2 Particle Construction Const	TA & REPORTS NAGEMENT GED ZONES 3 Pending APPRO Function helps to manage below fur egory ed data from different members with tion of collected data d data	WAL:1 nctionalities

Figure -15: Access Window of Content Administrator for Data & Reports Management

The Content Administrator shall click on the data and report management link in which a page below shall be displayed.

🗢 Gove	ernment Cit	y, Dodoma		Go.Tz / Km@Vpd	o.Go.Tz	+ (255) 026 2352038			
	HOME	AGRO-ECO	LOGICAL ZONES	PROJECTS	RESOURCES	PUBLISHED DATA	CONTENT ADMINISTRATOR	ARCHIVE	≡
PEND		ATA & cgistered rep pproval	REPORTS	5 MANA		іт			

Figure -16: Intermediate Page for Reviewing Data by the Content Administrator

After that action, the Content Administrator shall click pending for approval link and then all reports available in the system shall be displayed, this includes the one document which is pending for approval (Figure – 17).

ENDING FOR AP	PROVAL	PUB	LISH TO PUBLIC					
	ondir							
proval F	enuir	igs						
-	Dealers	Della	Data	7714 -			A stars	
Jwner	Region	Role	Date	litie			Action	
aodwin Everygist	South	Normal	2020-12-17 06:32:33	TAARIFA YA UGAWAJI WA MB	EGU ZA PAMBA KISH	IAPU	Pending N	
vlasumbuko Idd	South	Normal	2020-12-17 06:37:45	Agro forestry			Pending N	GO
Albano Mauto	Central	Normal	2020-12-17 06:40:52	VLUP MPWAPWA			Pending 💊	GO
Fredrick Mulinda	Central	Normal	2020-12-17 06:41:05	AKMS-Officer(Land)			- View More	GO
		Mormal	2020-12-17 06:45:55	taarifa bwawa la Laangai			1.	GO
Swaleeh Masaza	Coastal	Normal	2020 12 17 00.45.55				Approve	
5waleeh Masaza AZIZ BIIRU	Coastal South	Normal	2020-12-17 06:51:06	RAMANI NGHAMBI WARD			Return back	GO

Figure -17: Action Buttons for Approving/Returning/Rejecting Data by the Content Administrator

With selected data, the Content Administrator shall select action "View More" and click GO button to command the read the report/data/information or otherwise "Approve" and click GO button to approve uploaded information.

b) Publications Management

The Content Administrator can also manage data to be published to the public (visitors) and remove data from the public access.

To publish data, the Content Administrator needs to login first, and the click on the "Data & Reports Management" function and then navigate to "Publishing Collected Data" and "Publish to Public" as shown in **Figure - 18**.

 CONTENTS MANAGEMENT ■ INDICATORS COUNT: ■ ■ PROJECTS COUNT: 1 ■ INDICATORS COUNT: ■ ■ PROJECTS COUNT: 1 ■ INDICATORS COUNT: ■ ■ PROJECTS COUNT: 1 ■ Contents Management Function is a wide scope which manage lots of information such as ■ Addition / Removal of Indicators ■ Addition / Removal of Indicators ■ Number of project covered such as EBARR ■ Content update such as images and detailed information ■ Stake-holders information Management ■ Supporting Patners Management ■ External links Management ■ FAQ, Contacts and About AKMS Information management 	Image: Data & REPORTS Standard & REPORTS Standard & Reports Management Function helps to manage below functionalities Image: Management Function helps to manage below fu
Covernment City, Dodoma Covernment City, Dodoma Ps@Vpo.Go.Tz / Km@Vpo.Co.Tz	UURCES PUBLISHED DATA CONTENT ADMINISTRATOR ARCHIVE

Figure -18: Action Buttons for Publishing Data by the Content Administrator

PUBLISH TO PUBLIC

PENDING FOR APPROVAL

After that action, a new page shall be displayed with all reports ready to be published for public access and other reports that are already published (Figure – 19).

	номе	AGRO-ECOL	OGICAL ZON	ES PROJECT	S RESOURCE	S PUBLISHED DATA	CONTE	ENT ADMINISTRATC	R ARCHIVE	⊑ ≡
	2 D/	ATA & F	REPOF	TS MAN	IAGEME	INT				
	PENDING FOR A	PPROVAL	PUBLISH							
Pe	ending f	or Pub	lishing	I						
	Owner		Region	Role	Date		Title	Action		
	Thomas Nyakia		Central	Normal	2020-12-17 06:3	3:24	asdfg	View More View More View More Publish		
Ρι	ublished	l Repor	ts							
	-									
	Owner	1	Region Role	Date	Title			Ac	tion	
	cnamalındı Bugin	igo Muriga 🛛 I	Lake Norm	ai 2020-12-17 06:	38:59 Tanzani	a GHG inventory and MRV	system Proj	ect keport	iew More 🗸 🛛 G	

Figure -19: Access Window for the Content Administrator to the Published Data

With report/data to be published selected, the Content Administrator shall select action (Publish) and click GO button to command the action. In order to removed published reports/documents/information, the Content Administrator needs to go to "Published Reports" and select action (Un publish) and Click GO button to command the action (Figure – 20).

	OLUGICAL 2	ZUNES	PROJECTS	RESOURCES	POBLISHED DATA	CONT	ENT ADMINISTRA	ATOR 7	ARCHIVE
PENDING FOR APPROVAL	PUBL	ISH TO	PUBLIC						
ending for Du	hlishir	na							
ending for Pu	DISIII	ng							
-		-							
Owner	Region	R	tole Dat	te		Title	Action		
			La secol 0.000			10	Migure Margaret (-0	
Thomas Nyakia	Central	N	iormai 202	20-12-17 06:33:24		asotg	View More • [C	0	
ublished Repo	orts	N	ormai 20.	20-12-17 06:33:24		asorg			
ublished Repo	Central Drts Region Re	Role	Date	70-12-17 06:33:24		asorg		Action	_
Thomas Nyakia Ublished Repo Owner chamalindi Bugingo Muriga	Central Drts Region Ra Lake N	tole	Date 2020-12-17 06:38:5	Title 9 Tanzania GHC	5 inventory and MRV	asorg	ject Report	Action View Mor	re 🗸 GO
Thomas Nyakia Ublished Repo Owner chamalindi Bugingo Muriga	Central Drts Region Re Lake N	tole Normal	Date 2020-12-17 06:38:5	Title 9 Tanzania GHC	5 inventory and MRV	asorg	ject Report	Action View Moi View Moi	re 🗸 GO

Figure - 20: Command for Removing Published Data by the Content Administrator

c) Archiving Information

The Content Administrator has an ability to archive documents/information that are no longer required to be available to all users. This can also be useful to preserve storage as those archived contents can be deleted. This can be done as explained below.

The Content Administrator needs to login and navigate to published reports in which all published reports shall be displayed. With the report/document/information selected, the Content Administrator shall select action (Archive) and click Go Button to command the action (Figure – 21).

	HOME AGRO	-ECOLOGICA	L ZONES	PROJECTS	RESOURCES	PUBLISHED DATA	CONTE	ENT ADMINISTR	ATOR	ARCHIVE	: :
PEND	ING FOR APPROVA	L PUI	BLISH TO	PUBLIC							
'enc	ding for P	ublish	ing								
Own	er	Region	F	Role	Date		Title	Action			
Thon	nas Nyakia	Central	1	Normal	2020-12-17 06:33:24		asdfg	View More 🗸 🖉	GO		
Publ	lished Rep	oorts	Dela	Date	Tele				Antion		
Publ	lished Rep	OORTS Region	Role	Date	Title				Action		

Figure - 20: Command for Archiving Published Data by the Content Administrator

All archived data can be found on the archive menu, this menu is only available to Content Administrator. In order to unarchive contents, the Content Administrator shall select data to be removed from archive and set action to Un-archive and click GO button to command the action (Figure – 21).

	номе	AGRO-ECO	DLOGICA	L ZONES	F PROJECTS F	RESOURCES	PUBLISHED DATA	CONTENT ADMINISTRA	ATOR ARCHIVE
Lict	- 6 ^		— .						
LISU	of Arc	hived	Data	а					
LISU	of Arc	hived	Data	а					
Own		hived	Region	Role	Date	Title	IC investory and MPV or	istem Broject Bonget	Action
Own	OT A'C	hived	Data Region Lake	Role Normal	Date 2020-12-17 06:38:59	Title Tanzania GH	IG inventory and MRV sy	rstem Project Report	Action View More V GO View More Un-Archive

Figure - 21: Command for Removing Archived Data by the Content Administrator

d) System Configuration

The Content Administrator has a right access to manage system configuration which includes menu management, links management, reports managements and event pages. In order to configure those menus, the Content Administrator has to login, in which the page shown in **Figure - 22** shall be displayed.

HOME AGRO-ECOLOGICAL ZONES PROJECTS RESOUR	CES PUBLISHED DATA CONTENT ADMINISTRATOR ARCHIVE
CONTENTS MANAGEMENT CONTENTS MANAGEMENT INDICATORS COUNT: ■ I ■ PROJECTS COUNT:1 Contents Management Function is a wide scope which manage lots of Information such as Addition / Removal of Indicators Addi	Image: Data & REPORTS data & REPORTS data & REPORTS Image: Data & REPORTS data & REPORTS Image: Da

Figure - 22: Content Management Page for the Content Administrator

The Content Administrator shall navigate by on the "Contents Management" and then the content management page shall be displayed as shown in **Figure - 23**.

O Gove	rnment City,	, Dodoma 🛛 🔶 Ps@)Vpo.Go.Tz / Km@Vpo	0.G0.Tz	+ (255) 026 2352038			
	номе	AGRO-ECOLOGICAL ZO	NES PROJECTS	RESOURCES	PUBLISHED DATA	CONTENT ADMINISTRATOR	ARCHIVE	≡
2				ΝΤ				
Actio	on But	tons						
MANA	GE MENU	MANAGE LINKS	MANAGE REPO	RTS MAN	AGE FRONTPAGE EVE	NTS		

Figure - 23: Display of Action Buttons Page for the Content Administrator

e) Menu Management

In order to manage menu, the Content Administrator shall click on "Manage Menu" button on the content management page in which the page below shall be displayed **(Figure – 24).**

ction Butto	ns				
MANAGE MENU	MANAGE LINKS	MANAGE REPORTS	MANAGE FRON	ITPAGE EVENTS	
enu /Indica	tors Manac	aement			
		jernene			
Add Indicator					
Iteam	First Branch	h	Second Branch	Third Bran	ch Action
Iteam	First Branch	h	Second Branch	Third Bran	ch Action GO
Iteam	First Branch	h	Second Branch	Third Bran	Action CO
Iteam Iteam Agro-ecological Zones	First Branch First Branch Arid Zone	h Second Temper	Second Branch Branch ature	Third Branch	ch Action GO Action Select V GO
Iteam Iteam Agro-ecological Zones Agro-ecological Zones	First Branch First Branch Arid Zone Arid Zone	h Second Temper Rainfall	Second Branch Branch ature	Third Branch	ch Action GO Action Select V GO Select V GO
Iteam Iteam Agro-ecological Zones Agro-ecological Zones	First Branch First Branch Arid Zone Arid Zone Arid Zone Arid Zone	h Second Temper Rainfall Relative	Second Branch Branch ature Humidity	Third Branch	ch Action GO Action Select V GO Select V GO Select V GO
Iteam Iteam Iteam Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones	First Branch First Branch Arid Zone Arid Zone Arid Zone Arid Zone Arid Zone	h Second Temper Rainfall Relative Heat Wa	Second Branch Branch ature Humidity aves	Third Branch	Action GO Action Select ▼ GO Select ▼ GO Select ▼ GO
Iteam Iteam Iteam Iteam Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones	First Branch First Branch Arid Zone	h Second Temper Rainfall Relative Heat Wa Grazing	Second Branch Branch ature Humidity aves	Third Branch	ch Action GO Action Select V GO Select V GO Select V GO Select V GO Select V GO
Iteam Iteam Iteam Iteam Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones Agro-ecological Zones	First Branch First Branch Arid Zone	h Second Temper Rainfall Relative Heat Wa Grazing Biodivei	Second Branch Branch ature Humidity aves rsity Type	Third Branch	Action GO Action Select ♥ GO
Iteam Iteam Iteam Iteam Agro-ecological Zones	First Branch First Branch Arid Zone Arid Zone Arid Zone Arid Zone Arid Zone Arid Zone Semi Arid Zone	h Second Temper Rainfall Relative Heat Wa Grazing Biodive Temper	Second Branch Branch ature Humidity sves rsity Type ature	Third Branch	Action GO Action Select Select
Iteam Iteam Iteam Iteam Iteam Agro-ecological Zones	First Branch First Branch Arid Zone Arid Zone Arid Zone Arid Zone Arid Zone Arid Zone Semi Arid Zone Semi Arid Zone	h Second Temper Rainfall Relative Grazing Biodiver Temper Rainfall	Second Branch Branch ature Humidity aves rsity Type ature	Third Branch	Action GO Action Select ▼

Figure - 24: Menu Management Access Window Available for the Content Administrator

This page allows Content Administrator to either edit/ add the menu item and click GO button to command changes.

f) Links Management

AKMS provides access to users get more data from other web sources that provide related information on the climatic change and adaptation initiatives. It is a task for the Content Administrator to find those web sources and configure their respective links for users to be able to access. In order to manage those links, the Content Administrator shall click manage links button in which the page below shall be displayed (Figure – 25).

ction Buttons		
IANAGE MENU MANAGE LINKS	MANAGE REPORTS MANAGE FRONTPAGE EVENTS	
ternal Links Managem	ent	
Add Link		
Title	Link (http/https)	Action
Title	Link (http/https)	Action
Title	Link (http/https)	Action GO
Title	Link (http/https)	Action GO Action
Title Title Vice President Office - VPO	Link (http/https)	Action GO Action Select V GO
Title Title Vice President Office - VPO Tanzania Meteorological Agency (TMA)	Link (http:/https)	Action GO Action Select V GO Select V GO
Title Title Vice President Office - VPO Tanzania Meteorological Agency (TMA) Ministry Of Agriculture	Link (http:/https) Link Link https://www.vpo.go.tz/environment-division http://www.meteo.go.tz/ https://www.kilimo.go.tz/index.php/en	Action GO Action Select V GO Select V GO Select V GO
Title Title Vice President Office - VPO Tanzania Meteorological Agency (TMA) Ministry Of Agriculture Centre For Climate Change Studies (CCCS)	Link (http:/https) Link Link https://www.vpo.go.tz/environment-division http://www.meteo.go.tz/ https://www.kilimo.go.tz/index.php/en https://www.udsm.ac.tz/web/index.php/centres/cccs	Action GO Action Select GO Select GO Select GO Select GO Select GO Select GO
Title Title Vice President Office - VPO Tanzania Meteorological Agency (TMA) Ministry Of Agriculture Centre For Climate Change Studies (CCCS) Institue Of Resource Assessment (IRA)	Link (http:/https) Link Link https://www.vpo.go.tz/environment-division http://www.meteo.go.tz/ https://www.klimo.go.tz/index.php/en https://www.udsm.ac.tz/web/index.php/centres/cccs https://www.udsm.ac.tz/web/index.php/centres/cccs https://www.udsm.ac.tz/web/index.php/centres/cccs	Action GO Action Select V GO Select V GO Select V GO Select V GO Select V GO
Title Title Title Control Cont	Link (http:/https) Link Link https://www.vpo.go.tz/environment-division https://www.meteo.go.tz/ https://www.kilimo.go.tz/index.php/en https://www.udsm.ac.tz/web/index.php/centres/cccs https://www.udsm.ac.tz/web/index.php/centres/cccs https://www.udsm.ac.tz/web/index.php/centres/cccs https://www.udsm.ac.tz/web/index.php/centres/cccs https://www.udsm.ac.tz/web/index.php/en	Action GO Action Select GO

Figure - 24: Links Management Access Window Available for the Content Administrator

This page allows content administrator to either edit/ add external link and click GO button to command changes.

Apart from those, AKMS allows content administrator to manage reports and event page through their respective buttons as explained above.

5. System Administrator

This a top level of system user whose roles are limited to all user's access management in the system and other ICT related issues such as infrastructure and database health checkups.

Qualification for System Administrator

The System Administrator is required to have strong knowledge and experience in web design, database management and system administration. VPO – ICT department shall nominate required System Administrator.

System Administrator's Access in AKMS

The System Administrator has right access to perform the following activities in the AKMS.

a) Users Access Management

The System Administrator is required to finalize the approval process for membership access request in the system. The purpose of this function is to enable him/her to be an ultimate checker on what Regional Administrators have initiated registration process.

After successfully login, the System Administrator shall have access to manage users in the system as shown in **Figure – 26**.

Image: Note and second contract of the second contrect of the second contract of the second contract of th	O overr	iment City, Dodor	ma 🛛 🔶 Ps@	Vpo.Go.Tz / Km@	Vpo.Go.Tz	+ (255) 026 2352038		
USERS MANAGEMENT		HOME AGRO	-ECOLOGICAL ZOM	IES PROJECT	6 RESOURCE	S PUBLISHED DATA	SYSTEM ADMINISTRATOR	≡
USERS MANAGEMENT								
USERS MANAGEMENT								
	1	USERS	5 MANAC	EMENT				
Users Management Function helps to manage below functionalities Create users Approve user request Create user role Delete user		# REGISTERED) USERS: 27 🛗 P	ENDING FOR APPRO	VAL: 3			
La Create users La Approve user request C Change user role Delete user La Construction C Construction C Construction C Construction C C Construction C C Construction C C C C C C C C C C C C C C C C C C C	Users M	lanagement Functic	n helps to manage l	elow functionalitie	s			
Change user role Delete user	Creat	e users ove user request						
Delete user	Char	ge user role						
	👕 Delet	e user						

Figure - 26: Primary Users Management Access Window for the System Administrator

In order to finalize membership registration process, the System Administrator shall click user management link in which all users in the system whose membership is need to be approved shall be displayed as shown below (Figure – 27).

	MANAGEMENT				
# REGISTERED	USERS: 27 🕴 🗰 PENDING FOR APPRO	DVAL: 3			
REATE USER					
ers Pending	for Approval				
5					
Name	Title	Perion	Pole		Action
Inditie	ICTO	Central	Degional	Administrator	Reading to CO
Innocent Kimano	Enderson antal Officer	Central	Regional	Administrator	Pending • GO
James Nyarobi	Environmental Officer	Central	Regional	Administrator	Pending V GO
JUMA IDD	Juma	Central	Member		Pending • GO
JUMA IDD	Juma	Central	Member		Pending • GO
JUMA IDD	Juma	Central	Member		
JUMA IDD	Juma	Central	Member		
	Juma	Central	Member		
odify / Delete	e Users	Centrai	Member		
odify / Delete	e Users	Centrai	Member		
odify / Delete	e Users Title	Central	Region	Role	Action
odify / Delete Name Mulinzi Katarala	E Users	Central R	Region Coastal V	Role	Action
odify / Delete Name Nulinzi Kataraia Richard Urassa	Disers	Central R (Region Coastal ✓ Central ✓	Role	Action Select V GO Select V GO
odify / Delete Name Mulinzi Katarala Richard Urassa Thomas Nyakla	Juma E Users Title IT Engineer IT Engineer IT Engineer	Central R (C C C C C C C C C C C C C C C C C C	Member Region Coastal ✓ Central ✓ Central ✓	Role Content Administrator Regional Administrator Member	Action Select V GO Select V GO Select V GO
JUMA IDD Odify / Delete Name Mulinzi Katarala Richard Urassa Thomas Nyakia Baraka Mteri	Juma E Users Title IT Engineer IT Engineer IT Engineer DT	Central 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Region Coastal > Central > South >	Role Content Administrator ~ Regional Administrator ~ Member ~ Member ~	Action Select V GO Select V GO Select V GO Select V GO
JUMA IDD Odify / Delete Name Mulinzi Katarala Richard Urassa Thomas Nyakia Baraka Mteri SELESTINE MASALAMADO	Juma E Users Title IT Engineer IT Engineer IT Engineer DT Coordinator	Central	Region Coastal ~ Central ~ South ~ North ~	Role Content Administrator Regional Administrator Member Member Member Member	Action Select V GO Select V GO Select V GO Select V GO Select V GO Select V GO
JUMA IDD Odify / Delete Name Mulinzi Kataraia Richard Urassa Thomas Nyakia Baraka Mteri SELESTINE MASALAMADO Hamza Katety	Juma E Users Title IT Engineer IT Engineer IT Engineer DT Coordinator Conservator	Central 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 6 7 6 7	Region Coastal > Central > Central > South > North > Lake >	Role Content Administrator Regional Administrator Member Member Member Member Member	Action Select V GO Select V GO Select V GO Select V GO Select V GO Select V GO

Figure - 27: Glace View of Users Management Access Window for the System Administrator

With a selected user, the System Administrator shall select action (Approve, Reject) and click GO button to command the action.

		DVAL: 3				
CREATE USER						
Jsers Pending	for Approval					
0						
Name	Title	Region	Role	Action		
Innocent Kimario	ICTO	Central	Regional Administrator	Pending 🗸 😡		
				Pending	Pending GO	
James Nyarobi	Environmental Officer	Central	Regional Administrator	GO		
James Nyarobi JUMA IDD	Environmental Officer Juma	Central Central	Regional Administrator Member	Approve GO Reject GO		
James Nyarobi JUMA IDD 10dify / Delete	Environmental Officer Juma	Central Central	Regional Administrator Member	Approve Reject GO		
James Nyarobi JUMA IDD 10dify / Delete Name	e Users	Central Central	n Role	Approve Reject GO		
James Nyarobi JUMA IDD 100 ify / Delete Name Mulinzi Kataraia	Environmental Officer Juma USETS Title IT Engineer T	Central Central Regio	n Role	Approve Reject GO	60	
James Nyarobi JUMA IDD 100 ify / Delete Name Mulinzi Kataraia Richard Urassa	Environmental Officer Juma USETS Title IT Engineer IT Engineer	Central Central Regio Coas (Central	Regional Administrator Member Image: Second Administrator Image: Second Administrator Image: Second Administrator Image: Second Administrator	Approve Reject GO ator V Select V Select V	60	
James Nyarobi JUMA IDD Addify / Delete Name Mulinzi Kataraia Richard Urassa Thomas Nyakia	Environmental Officer Juma E Users Title IT Engineer IT Engineer IT Engineer IT Engineer	Central Central Regio Coas Central Central	n Role Ital V Content Administrator Regional Administrator Ital V Regional Administra Ital V Member Ital V	Approve Reject GO GO Reject GO Select Select Select Select GO Sel	60 60 60	
James Nyarobi JUMA IDD Addify / Delete Name Mulinzi Kataraia Richard Urassa Thomas Nyakia Baraka Mteri	Environmental Officer Juma EUSERS Title IT Engineer IT Engineer IT Engineer IT Engineer DT	Central Central Regio Coas Central Cen	n Role Tal V Content Administrator Tal V Member Tal V Mem	Approve Reject GO GO Reject GO Select Selec		
James Nyarobi JUMA IDD Addify / Delete Name Mulinzi Kataraia Richard Urassa Thomas Nyakia Baraka Mteri SELESTINE MASALAMADO	Environmental Officer Juma EUSERS Title IT Engineer IT Engineer IT Engineer DT Coordinator	Central Central Regio Coas Central Central Coast Coast Central	n Role Member Ital V Content Administra Ial V Regional Administra Ial V Member In V Member	Approve Reject GO		
James Nyarobi JUMA IDD IODIFY / Delete Mulinzi Katarala Richard Urassa Thomas Nyakia Baraka Mteri SELESTINE MASALAMADO Hamza Katety	Environmental Officer Juma USETS Title IT Engineer IT Engineer IT Engineer IT Engineer DT Coordinator Conservator	Central Central Regio Coas Coas Central Central	n Regional Administrator Member tal V Content Administra al V Regional Administra al V Member n V Member n V Member	Approve Reject GO GO Reject CO GO GO GO GO GO GO GO GO GO Reject CO GO GO GO GO GO GO GO GO GO GO GO GO GO	60 60 60 60 60 60 60	

Figure - 27: Users Management Commands Made Available for the Content Administrator

Apart from user access approval, system administrator can disable/Enable user access by changing the user status.

b) User creation

System requires all user to register themselves using the self-registration form, but in the case where a user cannot do the self-registration the System Administrator shall be able to assist in creating her account as explained below.

The system administrator shall navigate to "User Management" and then click "Create User" (see Figure – 28).

Jsers Pending	g for Approval				
Name	Title	Region	Role	Action	
Innocent Kimario	ICTO	Central	Regional Administrator	Pending 🛩 GO	
James Nyarobi	Environmental Officer	Central	Regional Administrator	Pending 🗸 😡	
JUMA IDD	Juma	Central	Member	Pending 🗸 GO	
Andify / Delet	e l Isers				
Aodify / Delet	e Users _{Title}	Re	igion Role	Action	
Aodify / Delet Name Mulinzi Kataraia	e Users Title IT Engineer	Re	igion Role oastal V Content Administra	ator V Select V GO]
Aodify / Delet Name Mulinzi Kataraia Richard Urassa	E Users Title IT Engineer IT Engineer	Re C C	igion Role coastal V Content Administra entral V Regional Administra	ator V Select V GO]
Nodify / Delet	E Users Title IT Engineer IT Engineer IT Engineer	Re [C] [C]	egion Role Content Administra entral V Regional Administra entral V Member	ator V Select V GO ator V Select V GO V Select V GO]
Name Mulinzi Kataraia Richard Urassa Thomas Nyakia Baraka Mteri	E USERS Title IT Engineer IT Engineer IT Engineer DT	Re [C] [C] [S]	entral V Member	Action stor V Select V GO ator V Select V GO V Select V GO V Select V GO]
Name Mulinzi Kataraia Richard Urassa Thomas Nyakia Baraka Mteri SELESTINE MASALAMADO	E USERS Title IT Engineer IT Engineer IT Engineer DT DT Coordinator	Re [C] [C] [S] [N]	Image: segion Role oastal v Content Administra entral v Regional Administra entral v Member outh v Member orth v Member	Action stor V Select V GO ator V Select V GO V Select V GO V Select V GO V Select V GO V Select V GO)))))
Name Mulinzi Kataraia Richard Urassa Thomas Nyakia Baraka Mteri SELESTINE MASALAMADO Hamza Katety	E USERS Title IT Engineer IT Engineer IT Engineer DT DT Coordinator Conservator	Re C C S N L	Image: segion Role oastal v Content Administra entral v Regional Administra entral v Member outh v Member orth v Member ake v Member	Action stor V Select V GO ator V Select V GO V Select V GO	
Name Mulinzi Kataraia Richard Urassa Thomas Nyakia Baraka Mteri SELESTINE MASALAMADO Hamza Katety chamalindi Bugingo Murig	E USERS Title IT Engineer IT Engineer IT Engineer IT Engineer DT Coordinator Conservator a Verification Officer	Re C C S N L L L	Image: segion Role oastal v Content Administra entral v Regional Administra entral v Member outh v Member orth v Member ake v Member ake v Member	Action ator v Select v GO ator v Select v GO v Select v GO	

Figure - 28: Position of User Creation Command at the Top Left Conner

Aftermath, a descriptive form below shall be presented for collecting user details, the System Administrator shall fill in and submit user to be created in the system (Figure – 29).

 Add New Account	
Salutation	
×	
First name	
Last name	
Gender	
~	
E-mail	
Phone	
Pasies	
Title	
Role	
~	
Password	
Retype Password	
Sign Up	

Figure - 29: Form for Registration of Member by the System Administrator