Presented By: Kali Ramiah – Business Analyst Julius Chisi – Surveyor General, Malawi

### Project Update: Malawi Land Information Management System (LIMS)

Landfolio User Conference - 10 February 2023



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## **Importance of LIMS?**



## **Importance of LIMS**

- Land is the most important resource for many developing countries in Africa to achieve the sustainable development goals
- Land access and secure land rights are linked to reduce conflict, economic growth and poverty reduction
- Land issues are complex requires a multi-faceted, flexible approach
- Implementation of Land Information systems brings together institutional arrangements, legal frameworks, standards, and the management and dissemination of systems and technologies





## **Importance of LIMS**







## **Project Overview**



## **Project Overview**

- System implementation for the Malawi Ministry Of Lands:
  - Department of Lands
  - Department of Survey
  - Department of Physical Planning
- Transition from a manual paper-based system, to a fully integrated, automated Land Information Management System (LIMS)
- Use of key local experts and consultants as part of the project team
- Full back-office system and e-Gov Portal + leveraging open source software and services
- Hosting of LIMS at the central office (Lilongwe) roll-out and capacity building at regional offices



# **Project Timeline (20 Months)**

•	Phase 1 - Inception Phase:	1 Month	
•	Phase 2 - Discovery Phase:	2 Months	
•	Phase 3 – Design Phase:	3 Months	Ø
•	Phase 4 - Development Phase:	9 Months	
•	Phase 5 - Data Capture Phase:	12 Months	
•	Phase 6 - Train & Test Phase:	3 Months	
•	Phase 7 – Go-Live Phase:	1 Month	





# System Design & Workflows



### **LIMS Architecture**







## **Business Process Methodology**

#### **High-level Business processes with legal provision**

Ministry Department		Business Process	Category	Legal Provision
Department of Survey		Cadastral Survey on Public and Customary Land	Primary	section 4 (a) Land Survey Act 2016
		Cadastral Survey on Private Land	Primary	section 4 (a) Land Survey Act 2016
		Production of Maps	Secondary	section 4 (f) Land Survey Act 2016
Department of Lands	Regional Office	Plot Application	Primary	section 12 and 21 of the Land Act
		Lease Application on Public Land	Primary	Same Sections 12 and 21
		Lease Application on Customary Land	Primary	section 21 of the Land Act
Department of Lands	Land Registry	Land lease	Primary	section 21 of the Land Act 2016 and 38 of the Registered Land Act 1967; Land Act, Section 4
		Land	Primary	section 24 of the Registered Land Act 1967
		Sublease	Primary	section 55 Registered Land Act 1967
		Consent for Sublease	Primary	section 36 of the Land Act 2016
		Transfer of lease	Secondary	section 84 of the Registered Land Act 1967
		Transfer of land	Secondary	section 79 of the Registered Land Act 1967
		Transfer by Transmission	Secondary	section 114 - 118 of the Registered Land Act 1967
		Transfer by power of sale	Primary	section 71 of the Registered Land Act 2016
		Transfer by court order	Secondary	section 11 of the Courts Act 1958
		Surrender of Lease	Secondary	Land Act, section 30
		Rectification of Register	To be assessed	
		Re-entry	Secondary	Land Act, section 25
		lis pendens	secondary	section 11 of the Courts Act 1958; section 27 of the Prevenbtion of Domestic Violence Act 2006
		Charge	Secondary	secrion 60 of the Registered land Act 1967
		Further Charge	To be assessed	
		Transfer of Charge	Secondary	section 64 of the Registered Land Act 1967
		Discharge of Charge	To be assessed	
		Caution	Secondary	section 126 of the Registered land Act 1967

#### **Detailed business process mapping**

	Α	В	С	D	E	F
1						
2						
3						
4	Step	No.	Landfolio Actions	Actions	Bernsteller	Responsible
5	Key Step	NO.	Landfollo Actions	Actions	Description	Office
6						
9			Application Received			
10				Application		
11		2		Registration	Compile a list of all applications	Lands Assistant
12						
13		Acquisition of Land		Perimeter Survey	Detailed mapping and boundary survey of land	Surveyor General/Regional
14				Perimeter Survey	Production of a detailed topographic map	Surveyor General
15		3		Assessment for compensation purposes	assessing loss of any interest in land by current users of land	Valuation Section(Regional Commissioner for Lands)
16				Compensation	compensation for loss of any interest in land by current users of land	District Commissioner
17				Ressettlement	resettlement is conducted if it isrequired	Regional Commissioner for Lands
18			Prepare: Layout Plan	Regional Commissioner for Lands requests Regional Commissioner for Physical Planning to	Regional Commissioner for Physical Planning prepares a layout plan based on the perimeter survey.	Regional Commissioner for Lands

## **Workflows and Configuration**

### Business process methodology

#### Workflow diagram drafted with the Ministry



#### Workflows configured in Landfolio

Search Q	K Adm	nin Tools > Workflows > View			Q New Search
	Name:		Jurisdiction:	~	SEARCH
	Workflow Type:				
and Assets	There are	e 37 Workflows in the list.			00 =
Indises	1				
Allocations		ive Workflow	Abbreviation	Jurisdiction	Workflow Type
Freehold Titles		Deed Registration: Lease Application & Registration	DR: LAR	Department of Lands	Agreement
reenoid titles iubleases		Deeds: Assignment	D: A	Department of Lands	Agreement
		Deeds: Caveat	D: CA	Department of Lands	Agreement
		Deeds: Conveyance	D: C	Department of Lands	Agreement
	0 5	Deeds: Mortgage	D: M	Department of Lands	Agreement
Physical Planning		Deeds: Official Search	D: OS	Department of Lands	Agreement
	0 5	Deeds: Re-Assignment	D: RA	Department of Lands	Agreement
	0 5	Deeds: Re-Conveyance	D: RC	Department of Lands	Agreement
805		Land Registry: Caution	LR: C	Department of Lands	Agreement
sorts		Land Registry: Certificate of Official Search	LR: COOS	Department of Lands	Agreement
opunts proments		Land Registry: Consent to Charge	LR: CTC	Department of Lands	Agreement
suments	0 6	Land Registry: Consent to Further Charge	LR: CTFC	Department of Lands	Agreement
	0 5	Land Registry: Consent to Sublease	LR: COS	Department of Lands	Agreement
		Land Registry: Consent to Transfer	LR: CTT	Department of Lands	Agreement
v Settings	0.5	Land Registry: Consent to Transfer Charge	LR: CTTC	Department of Lands	Agreement
Imin Tools		Land Registry: Restriction	LR: R	Department of Lands	Agreement
WS Portal		Land Registry: Title Registration		Department of Lands	Agreement
		Land Registry: Transfer of Lease	LR: TOL	Department of Lands	Agreement
	0.5	Lease: Application and Registration: Agricultural	LR: Lease: Agri	Department of Lands	Agreement
		Lease: Application and Registration: Commercial	LR: Lease: Com	m Department of Lands	Agreement



### **Workflows and Workshops**





### **Workflows and Workshops**









# Data Capture & Conversion



## **Data Capture and Conversion**

- Emphasis on hardcopy records scanning and indexing of paper-based Land records
- Done in collaboration with the Ministry data teams comprised of Ministry staff and consultants
- Guided by the agreed upon data capture and conversion methodology
- Emphasis on data checks and quality control
- Tracking and monitoring of weekly data capture progress
- Data is then scripted and imported, forming a key component of the LIMS database



## **Survey Records**

#### Survey Map drawings done by Cartographers



#### **Deed Plan done by Survey Department**





## Land Registry

#### Land records and filing system



#### **Application book details**

~	1.45			a file of the second	APPLICATION	BOOK					
410		Data preserved	Nature of Decument	Persents from whom right is transferred or transmitted	Person(s) to whom right is transferred or transmitted	Amount paid Met, etc.	Description of Property	Preparation fre	Registration fee	Stamp Duty	Signature e Registrar
	3092	15/11/2021	LEASE	100	ZEV GADANA MPACANE AND FLORA HAREI ET		MKOMACH - 49/481	-	KS, 000	K400-00	-
1	309	3 15 1 202	CHARGE	Solomon Toma and CHIDAN	NATIONAL BUNG OF MAS	2	CHATP 15/1/ 1977	1	K5,000	F.16,000.00	140-14
	207	e llefupor	TURMER COMPANY	KONKEALIDIN SETTERS LTD	NATIONTAL BOAR OF MUS PL	1	come es/1/1	-	15, ano	1610,000	
	3075	wind so	Lense	MAC	CARISTING KARDN MARINER		Asimmon Relators	-	150000	k1.8,00	-
1 PLAN	3090	K /n /21	CALIFICN I	Y NEM		-	HIMAUNDE-SI/78	-	45.00.00	K 10,000 00	
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	3099			F DICKSON COLEYN 46	ASHA PLANT HIRE	-	NEIMAUNDE- 10/309	-	K.S,8000	K10,000	-
	310%	16/11/21	OF CITARES	FDH ISAWAY LIMITED	THEREZA MKANDAWIRE	-	CHITSIME - 41/5/6		45,0000	k 20,668.00	
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	3164	16/11/21	CHARGE VARIANT ON ON	MATABALA	NES BANK PIC	-	Asimounoc-Jabling		4 5000	4 450,000	
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### **Data Capture**

#### Merged data from indexing

	Α	D	E	F	G	н	1	J	К	L
1	Scan Code	Code	Date Opened	Registration Section	Piece Number	Area	Area Unit	Registry Map Sheet Number	SD Number	Lessor
	Alimaunde_18_41_The_Minister_of_		29/01/2004	Alimaunde	18/41	0,07500	Hectares	WV:8458R		The Minister of Malawi Government Responsible for Land Matters
	Alimaunde_18_6_The_Minister_of_M		16/02/1976		18/6	0,42000	Hectares	WV:8459	5984	The Minister of Malawi Government Responsible for Land Matters
4	Alimaunde_18_7_The_Minister_of_M	Alimaunde-18/7	12/10/1979		18/7	0,08100	Hectares	WV:8458		The Minister of Malawi Government Responsible for Land Matters
	Alimaunde_18_8_The_Minister_of_M		11/07/1983		18/8	2,45500	Hectares	WV:8459	6826	The Minister of Malawi Government Responsible for Land Matters
	Alimaunde_18_11_The_Minister_of_		31/08/1989	Alimaunde	18/11	0,33530	Hectares	WV:8458	6931	The Minister of Malawi Government Responsible for Land Matters
7	Alimaunde_D-18_1_Malawi_Housing	Alimaunde-D-18/1	05/09/1975	Alimaunde	D-18/1	134,49400	Acres	WV:S825, 8259, 8458, 8459		Malawi Housing Corporation
	Alimaunde_18_13_The_Minister_of_		22/11/1982	Alimaunde	18/13	1,02100	Hectares	WV:8458		The Minister of Malawi Government Responsible for Land Matters
	Alimaunde_18_35_The_Minister_of_		09/07/2004	Alimaunde	18/35	0,07500	Hectares	WV:8458R	10863	The Minister of Malawi Government Responsible for Land Matters
	Alimaunde_18_36_Malawi_Governm		12/07/2013	Alimaunde	18/36	0,07500	Hectares	WV:8458R	10863	Malawi Government
	Alimaunde_18_A_37_Malawi_Housin		05/11/2001	Alimaunde	18/A/37	0,01720	Hectares	HC:3093		Malawi Housing Corporation
	Alimaunde_18_38_Malawi_Governm		25/04/2019		18/38	0,07500	Hectares	WV:8458R		Malawi Government
	Alimaunde_18_39_Malawi_Governm		11/10/2018	Alimaunde	18/39	0,07500	Hectares	WV:8458R		Malawi Government
14	Alimaunde_18_40_Malawi_Governm	Alimaunde-18/40	16/10/2012	Alimaunde	18/40	0,75000	Hectares	WV:8458R	10863	Malawi Government
	Alimaunde_18_43_The_Minister_of_		05/10/2007	Alimaunde	18/43	0,19500	Hectares	WV:8458R		The Minister of Malawi Government Responsible for Land Matters
	Alimaunde_18_45_The_Minister_of_		05/01/2005	Alimaunde	18/45	2,99500	Hectares	WV:8257 and 8258		The Minister of Malawi Government Responsible for Land Matters
	Alimaunde_18_48_Malawi_Governm		04/08/2009	Alimaunde	18/48	0,01040	Hectares	WV:8458	12732	Malawi Government
	Alimaunde_18_49_Malawi_Governm		08/06/2018		18/49	0,01040	Hectares	WV:8458		Malawi Government
	Alimaunde_18_55_Malawi_Governm		16/11/2008	Alimaunde	18/55	0,00960	Hectares	WV:8458R		Malawi Government
	Alimaunde_18_56_Malawi_Governm		26/09/2019	Alimaunde	18/56	0,01000	Hectares	WV:8258	12732	Malawi Government
21	Alimaunde_18_52_Malawi_Governm	Alimaunde-18/52	11/09/2013	Alimaunde	18/52	0,01010	Hectares	WV:8458R	12732	Malawi Government
	Alimaunde_18_A_62_Malawi_Govern		17/11/1998	Alimaunde	18/A/62	0,02990	Hectares	HC:2713		Malawi Government
	Alimaunde_18_A_63_Malawi_Govern		19/05/1999	Alimaunde	18/A/63	0,02060	Hectares	HC:2406		Malawi Government
24	Alimaunde_18_A_64_Malawi_Housin	Alimaunde-18/A/64	07/03/1996	Alimaunde	18/A/64	0,01960	Hectares	HC:2406		Malawi Housing Corporation
	Alimaunde_18_A_73_Malawi_Housin		29/05/1998	Alimaunde	18/A/73	0,02040	Hectares	HC:2846		Malawi Housing Corporation
	Alimaunde_18_A_83_Malawi_Housin		03/05/1990	Alimaunde	18/A/83	0,03090	Hectares	HC:2257		Malawi Housing Corporation
	Alimaunde_18_A_89_Malawi_Housin		06/10/1993	Alimaunde	18/A/89	0,01460	Hectares	HC:2406		Malawi Housing Corporation
28	Alimaunde_18_A_118_Malawi_Hous	Alimaunde-18/A/118	19/01/1996	Alimaunde	18/A/118	0,01420	Hectares	HC:2406		Malawi Housing Corporation
29	Alimaunde_18_A_130_Malawi_Hous	Alimaunde-18/A/130	21/08/2009	Alimaunde	18/A/130	0,02520	Hectares	HC:3282		Malawi Housing Corporation
30	Alimaunde_18_A_133_Malawi_Hous	Alimaunde-18/A/133	12/02/2008	Alimaunde	18/A/133	0,06420	Hectares	HC:2406		Malawi Housing Corporation

#### **Scanned Lease Document**



## **Data Imported**

Land Asset > Details						< Previous Next > 🖋 Ed
3/587						
3/587 Parties: Lilongwe City Counc Status: Registered	cil (100%); Dean van den Heeve	r	Type: Leases Sub Type: Residential Signed Date: 30/08/2022		Start Date: 30/08/2022 End Date: 29/08/2037	
General	Code:	3/587		Region:	Central Region	
Parties (2)	Туре:	Leases		Summary:		
Shape (1)	Sub Type:	Residential				
Map References (3)	Status:	Registered		Archive:		
Documents	Start Date:	30/08/2022				
Other Details (2)	End Date:	29/08/2037				
Land Parcels (1)	Land Asset Term:	15 Years				
Related Land Assets (3)						
Lease Information						
Actions Open (1)						
Actions Closed (94)						
Jser Roles (3)						
Discussions						
Audit						



## **Data Imported**

Land Asset > Details										Save	👆 Cano
3/587											
3/587 Parties: Lilongwe City Cour Status: Registered	icil (100%); Dean van den Heever		Type: Leases Sub Type: Residential Signed Date: 30/08/2022				Start Date: 30/08/202 End Date: 29/08/203				
General	Land Record Details										
Parties (2)	There are <b>1</b> items in the list.										
Shape (1)	Registration Section		Plot Number		Map Sheet Number		Site Diagram Number		Deed Plan Number		
Map References (3)	Area 14	11	14/472	11	12543-959	11	SD-321	11	20097		4 😣
Documents		1.		11		1.		1.			11
Other Details (2)											
Land Parcels (1)											
Related Land Assets (3)											
Lease Information											
Actions Open (1)											
Actions Closed (94)											
User Roles (3)											
Discussions											
Audit											





## **Prototype System**



## **Landfolio Back-Office**

Strimble.	landfolio		Landfolio Malawi LIMS Kali Ramiah (si
Search Q	K Home		🗘 Settir
ome			Warning: See errors in Landfolio Diagnostic Report
nd Parcels Plots			Warning: See scheduled jobs that are experiencing errors Warning: See list of failed back end process requests
nd Assets .eases	Recently Accessed		
llocations	There are 20 Results in	the list.	
reehold Titles	1234		
ubleases	Туре	Name	Description
Deeds	Land Asset	3/587	Leases (Residential), Registered
ustomary Estate	Land Asset	LP/1145	Physical Planning (Physical Development Plans), Application Rejected
hysical Planning	Land Asset	DP/1116	Physical Planning (Physical Development Plans), Application Received
ions	Land Asset	DP/1126	Physical Planning (Physical Development Plans), Application Received
provals	Land Asset	DP/1161	Physical Planning (Physical Development Plans), Application Rejected
	1234		
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cuments	l want to		Action Summary
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ople	New Survey Request		Overdue: 409 2
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р	Deeds: Mortgage		
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	Leases - Commercial		Overdue: 409 2
	Leases - Commercial Leases - Institutional		Overdue:         409         2           Due today:         0         0
	Leases - Commercial		



## **Landfolio Back-Office**

Trimble	landfolio		Landfolio Malawi LIMS			Landfolio Malawi LIMS (7.1.2.21) <b>Kali Ramiah</b> (sign out)
Search Q	Land Parcel > Details					🖋 Edit
Home	43/211					<
Land Parcels Plots Land Assets Leases	43/211 SD Number: 22789 Status: Survey Request Receiv	ved	Type: Plots Parties: Kali Ramiah (100%); C.W. PHIRI Official Area: 76 139.5095 Ha		Submission Date: 21/09/2022 Examination Approval Date: 30/10/2022	
Allocations Freehold Titles Subleases Deeds	General Parties (2) Shape (1)	Code: Jurisdiction: Type:	43/211 Department of Survey Plots	SD Number: Old Code: Deed Plan Number:	22789 DP-894	
Customary Estate	Map References (3)	Status:	Survey Request Received Customary Land	Comment:	Plot within Area 43	
Physical Planning Actions Approvals	Documents Land Assets (1) Related Land Parcels	QA Approval Date:	21/09/2022 30/09/2022	Archive:		
Maps Reports Documents	Actions Open (1) Actions Closed User Roles (6)	<ul> <li>Survey Approval Date:</li> <li>Survey Completion Date:</li> <li>Examination Submission Date:</li> </ul>	10/10/2022 22/10/2022 23/10/2022			
Companies People	Discussions Audit	Examination Approval Date:	30/10/2022			
My Settings Admin Tools	Survey Details (1)					
LIMS Portal Help						



## e-Gov Transactional Portal



Malawi LIMS	Welcome to Malawi's Online Land Information Management System
Welcome Account Login	The Ministry of Lands was established to administer and manage land housing issues by ensuring equitable access and secure tenure to land and housing for everyone. Thus, the Ministry is to control.
Account Register	Casadani u le maawii Nadona cand Policy and Land Laws in die Coling . Mandate
Мар	The mandate of the Ministry is to provide land and housing management services to the general public, stakeholders, and parties seeking the services in a manner that ensures that physical development takes place in an orderly and custainable manner
Map	Vision
Help & FAQ	Equitable access and secure to land and housing for all
General	Mission statement
Documents for Download	To create an enabling environment for efficient, effective, and sustainable provision of land, housing, and urban development services to the general public in order to promote and encourage sustainable development
Secondary Transactions	Start the process by providing registration and personal contact information for access to personal and business accounts under Account Register.
Payments	Account Login provides registered users direct access to personal and business accounts. This interactive customer account tool provides the ability to view current Land Parcels and Land Assets:
Legal	update personal information; submit requested documents or reports; receive notifications; fulfill secondary transactions; make payments on accounts due such as Lease Payments. Ground rent, Application fees, etc.
Contacts	External Links A number of links directing the user or prospective user, to external websites and resources.
Terms of Use	
Privacy Policy	
External Links 🔍	





## e-Gov Transactional Portal



cease management				Kali Ramiah 🔻						
My Portfolio		Application Instructions								
Apply for New Lease										
Sublease Managemen	t ^	To successfully submit yo Prepare your application	ar application, you will follow these steps:							
My Portfolio		1. Select the Lease land								
Apply for New Suble	ase		2. Upload the required documents							
Physical Planning Management	^		on to validate that all required documents have been attached. n will be displayed before the application is created.							
My Portfolio										
Apply for a New Phy: Planning Asset	sical									
Plot Applications	^	Application Details								
My Portfolio		Applicant:	Kali Ramiah	SUBMIT CANCEL						
Plot Applications		Land Use Type:	Leases - Agricultural 👻 -	Save and Exit Discard						
Deed Management	~		Leases - Agricultural Leases - Commercial	Saved today at 11:56:39 AM						
Payments	^	Supporting Documents:	Leases - Customary Leases - Industrial							
Payments Due			Leases - Institutional							
Payment History			Leases - Recreational Leases - Residential							
Legal	~									
External Links	~									





## e-Gov Transactional Portal





## **KPI Dashboard**







# **Looking Ahead**



## **Challenges and Opportunities**

- Delay in procurement of hardware Ministry pulled together existing resources for a majority of the project
- Challenges with internet connectivity and Government Wide Area Network (GWAN)
- Rate of data capture and conversion has been slower than anticipated
- Standardisation to ensure that all Ministry of Land offices follow the same processes and procedures
- LIMS guiding existing regulations and amendments
- The Deed Registry is running in parallel with the Land Registry Ministry looking at decentralization



### **Current Tasks**

- Ministry to continue with roll out of hardware within departments and regional offices
- Review and approval of Final Development phase report
- System deployment onto newly procured Ministry servers
- Training of Ministry ICT to maintain and monitor applications on server
- Review and distribution of user training manuals, ICT and system documentation
- System review and User Acceptance Testing (UAT)
- Plan for system Go-live and launch



## **Looking Ahead**

- Successfully implement LIMS and ensure Ministry wide uptake
- Increase and track revenue recognition for the Ministry of Lands
- Existing LIMS users to train future users building capacity and responsibility
- Decentralization the creation of district Land Registries
- Increase data capture to have a solid LIMS database
- Integrate with other systems and Malawi institutions



### Trimble

### Thank You

For Questions or Feedback please contact: <u>Kali\_ramiah@trimble.com</u>

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תחדה KIITOS TACK **BEDANKT** E Dziêkujemy Teşekkürler GRAZIE VINAKA DANKIE TERIMA KASI Obrigado शुक्रया AČlŪ Ευχαριστώ БЛАГОДАРИМ ВИ Спасибо HVALA VAM TAKK Ďakujem vám **GRACIAS** merci நன்றி SALAMAT 감 A HVALA VAM **VIELEN DANK NDIOLCH** köszönjük NGĀ MIHI 7 ē **E** MULTUMIM ਤਹਾਡਾ ਧੰਨਵਾਦ Xin Cảm Ơn ま