



Spatial Dimension User Conference - 2025

Project Update

Papua New Guinea - Mineral Resources Authority



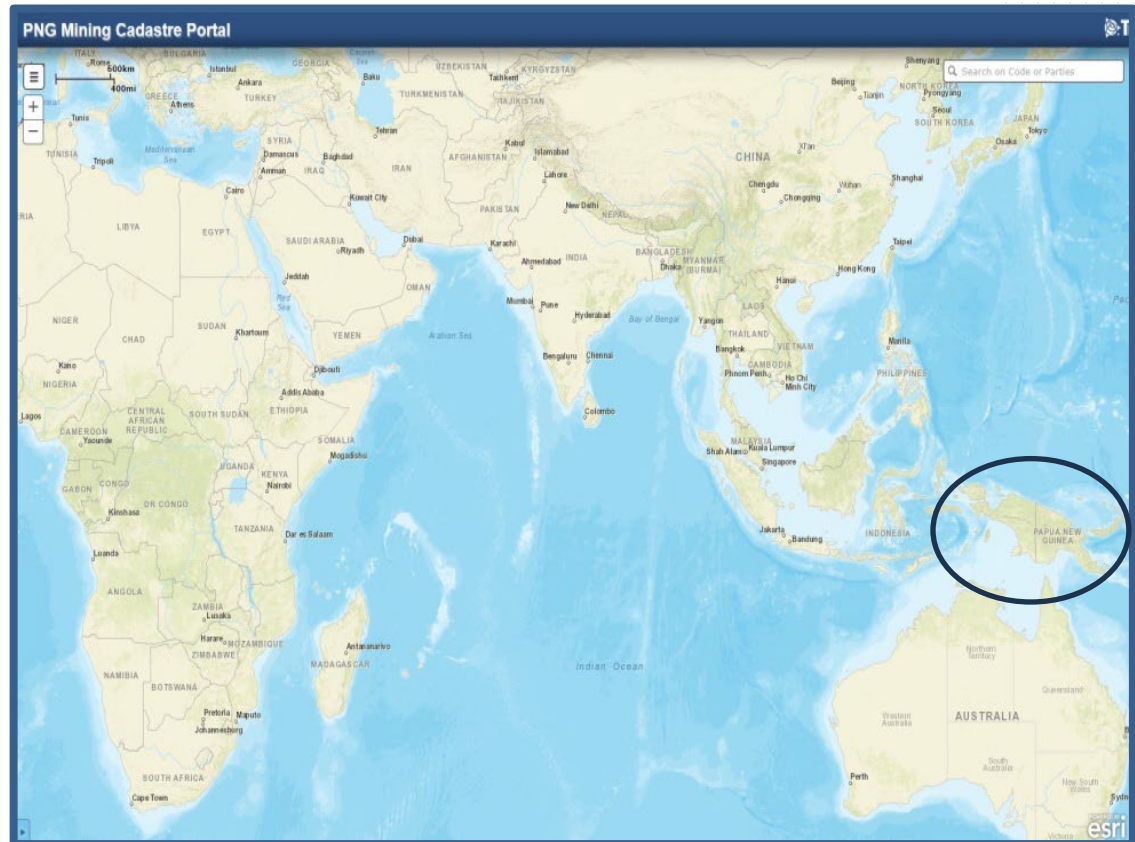
Papua New Guinea Mineral Resources Authority (MRA)



❑ MRA - statutory authority established under law (MRA Act 2005 “as amended”) to regulate mineral exploration & mining in Papua New Guinea.

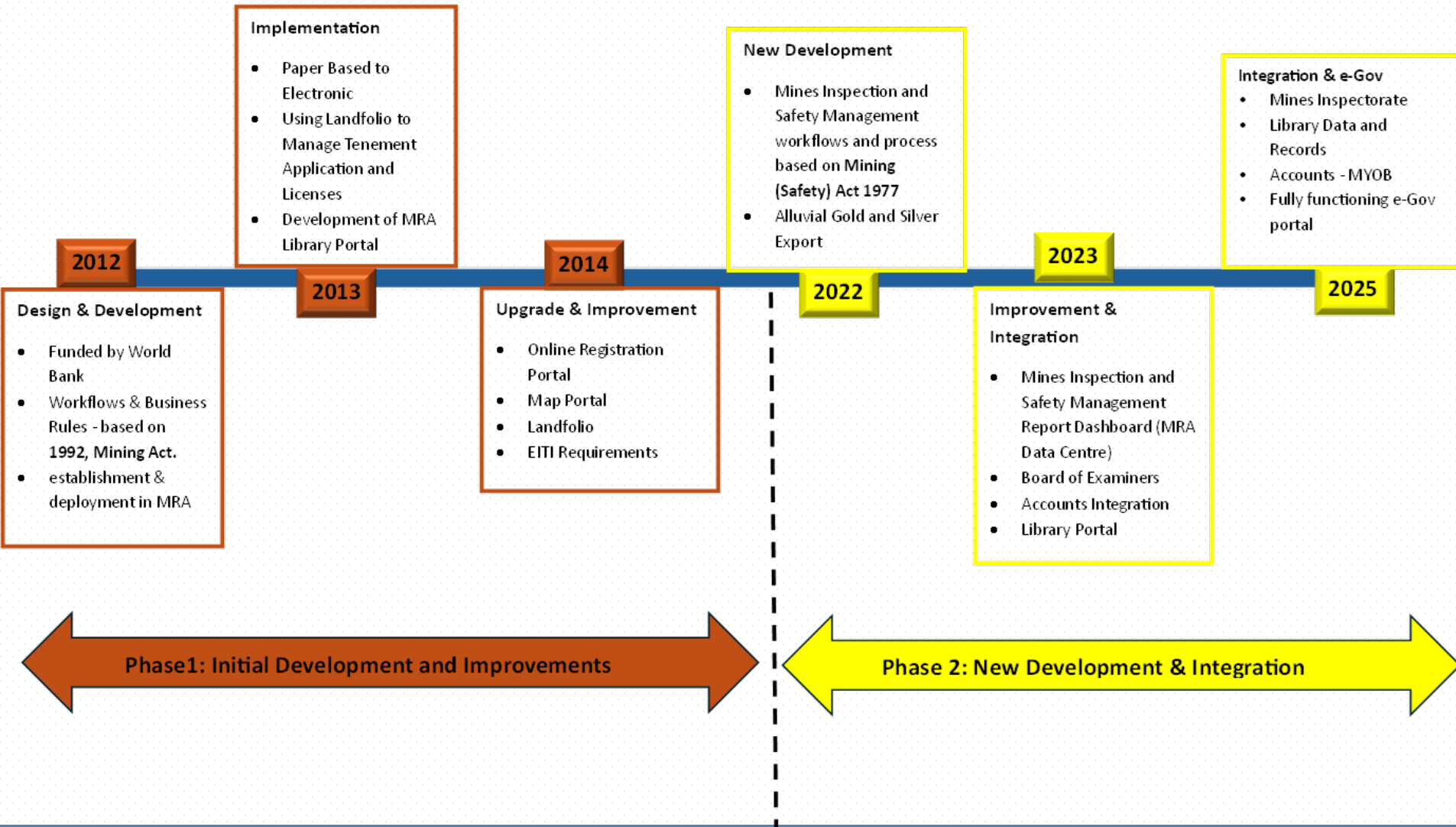
❑ Two Laws:

1. Mining Act 1992
2. Mining (Safety) Act 1977





Landfolio Implementation & Development Over Time

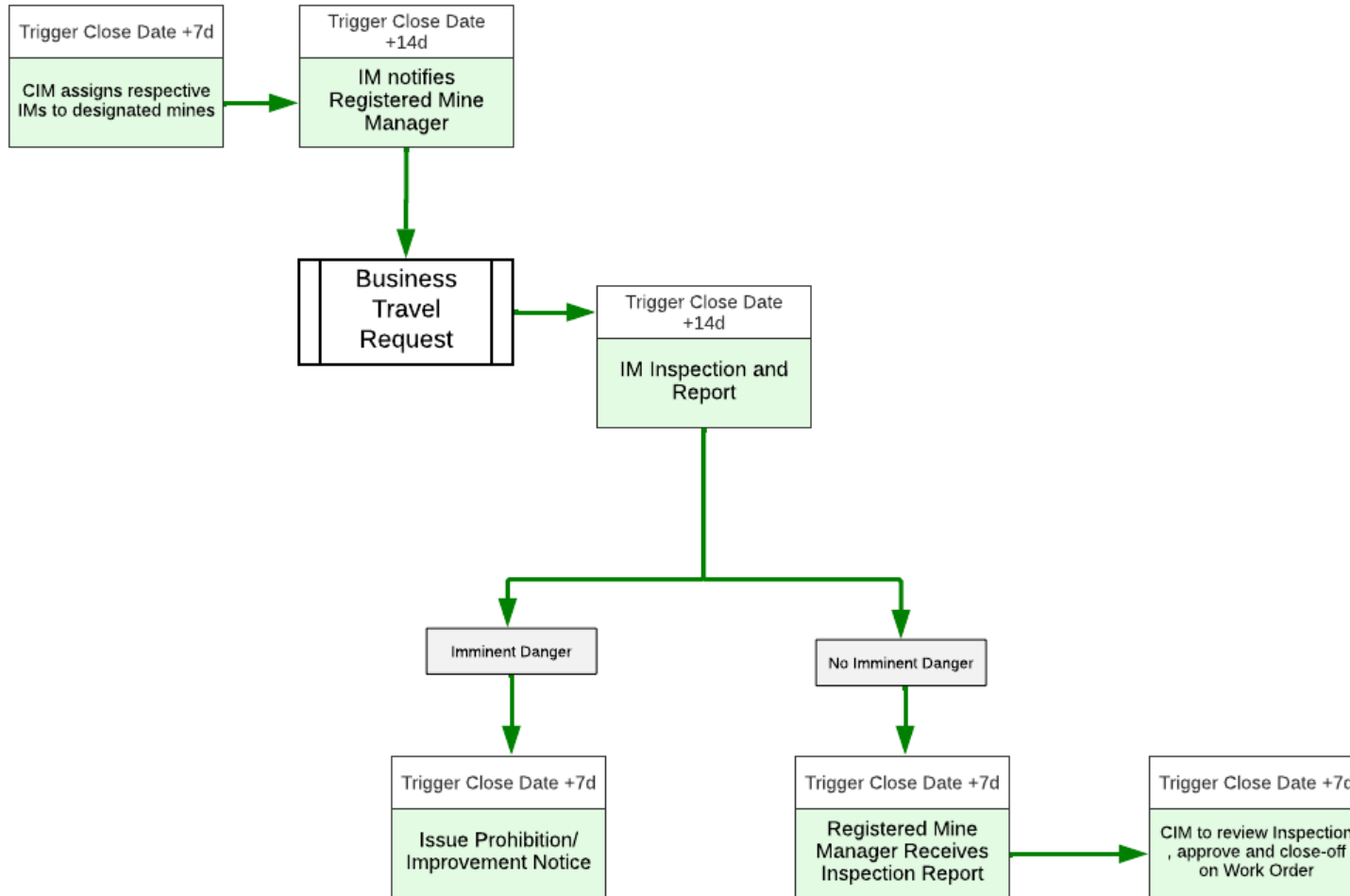




Mines Inspectorate



Inspectorate Back-office workflow





Mines Inspectorate

Inspectorate Back-office workflow



All	Map	Code	Name	Jurisdiction	Type	Status	Application Date	Grant Date	Expiry Date	Map Reference
<input type="checkbox"/>		LMP 42	Plant Site - Basamuk	Mining (Safety) Act 1977	INSP	Inspection Complete		26/07/2000	25/07/2040	
<input type="checkbox"/>		ML 104	Tolukuma Gold Mine	Mining (Safety) Act 1977	INSP	Pending Renewal - Matter with Minister Grant		29/08/1994	28/08/2022	
<input type="checkbox"/>		ML 136	Simberi Gold Mine	Mining (Safety) Act 1977	INSP	Inspection in Progress		03/12/1996	02/12/2028	
<input type="checkbox"/>		ML 150	Kainantu Gold Mine	Mining (Safety) Act 1977	INSP	Inspection Complete		14/06/2002	13/06/2024	
<input type="checkbox"/>		ML 151	Hidden Valley Mine	Mining (Safety) Act 1977	INSP	Inspection in Progress		04/03/2005	03/03/2030	
<input type="checkbox"/>		ML 508	Woodlark Mine	Mining (Safety) Act 1977	INSP	Active		04/07/2014	03/07/2034	
<input type="checkbox"/>		ML 511	Eddie Creek Mine	Mining (Safety) Act 1977	INSP	Active		18/05/2020	05/10/2031	
<input type="checkbox"/>		SML 1 (O)	OK Tedi Mine	Mining (Safety) Act 1977	INSP	Inspection in Progress		28/05/1981	02/08/2024	
<input type="checkbox"/>		SML 6	Lihir Gold Mine	Mining (Safety) Act 1977	INSP	Inspection in Progress		17/03/1995	16/03/2035	
<input type="checkbox"/>		SML 8								
<input type="checkbox"/>		SML 1								
<input type="checkbox"/>		SML 1								

SML 6

Name: Lihir Gold Mine
 Parties: Lihir Gold Limited

Type: Inspectorate - Mines Inspections and Audits
 Status: Inspection in Progress

Application Date:
 Grant Date: 17/03/1995
 Expiry Date: 16/03/2035

08/2040

Hazard Registry Inspection

There are 206 items in the list.

Reg #	Findings of the Inspection	Hazard Rating	Area	Mine/Works	Date Issued	Date Closed	Comments	Completion Rating	Status
(01-23)/1	Contraventions of the Act: There is no mine manager (works) registered with the Chief Inspector of Mines responsible for the non-process infrastructure department. This is in contravention with Section 16 of the Mining (Safety) Act 1977	1-Low Risk	Non-Process Infrastructure Department	Lihir Gold mine	13/03/2023	27/06/2024	There are 2 registered managers. Dominic Fielding is registered as the Mine Manager while Brian Bernsey is registered as the Works Manager	100	Closed
(01-23)/2	Limited number of Geotech Engineers and Geotech technicians for pit monitoring has caused fatigue and additional stress to	3-High Risk	Mine Geotech and Geothermal	Lihir Gold Mine	13/03/2023		Additional positions had been created and positions had been filled.	100	Closed

IM notifies Registered Mine Manager

Created By: Inspectorate: Inspections > IM notifies RMM
 Trigger Action: CIM assigns respective IMs to designated mines

Action Instructions [Hide Details](#)

- Capture your Inspection start and end date in the period from and period to fields. And also use the comment field to inform the RMM of these dates.

Due Date: 14/10/2024
 Period From: 23/09/2024
 Period To: 03/10/2024

Comments: Dear RMM, please note that I plan to visit Lihir for the Quarter 3 Inspection from Monday 23rd September to 3rd October. The tentative plans of the inspection will be provided to you by Wednesday this week. I will be accompanied by Miriam Louma during this visit.

Action Status: ✔ Closed by Miriam Louma on behalf of Amukele Amukele

Close Date: 14/10/2024

Registered Mine Manager Receives Inspection Report

Created By: Inspectorate: Inspections > RMM Receives Inspection Report
 Trigger Action: IM Inspection and Report (Decision: No Imminent Danger)

Due Date: 02/10/2024

Comments: Dear RMM,
 Please find attached the Inspection Report for Q3-2024 which was conducted on the 24th September, 2024 to 02nd October, 2024.



Mines Inspectorate Portal



 Papua New Guinea Mining Cadastre Portal

Inspectorate Items ^

All Complaints

Raise New Inspectorate Ticket ^

Complaint

MRA Website and Contact Details v

Legal v

Miriam Louma v

Your Complaints

<u>Code</u>	<u>Type</u>	<u>Status</u>	<u>Lodgement Date</u>
CMP/2025/00056	Inspectorate - Complaints	Investigation Lodged	1/20/2025 12:25:15 PM



Alluvial Export

Alluvial Export online submission



Supporting Documents

Upload Additional

Document	Description	Uploaded Filename	Action	Progress
Alluvial Export Return (Form G) *	Alluvial Export Return (Form G)		Upload	
Assay Report *			Upload	
Exchange Rate from Bank *			Upload	
Gold and Silver Price *			Upload	
Invoice from Exporter *			Upload	
Additional Document	Additional Document		Upload	

OK

Supporting Documents: [Upload](#) *

Reference Number/00145

Reference Number/00145 Type: Export Return Application Date: 2025/01/22 12:20:50
 Name: Status: Submitted Grant Date:
 Parties: Test Test (100%) Expiry Date:

General | Parties (1) | **Documents** | Reference Codes | Commodities (1) | Agreements | Groups | Related Licenses | Actions Open (1) | Actions Closed (2) | User Roles (1) | Discussions | Audit

[GENERATE REPORT](#)

There are 0 Documents directly associated.

There are 6 Documents indirectly associated through Actions

All	View	Title	Reference Number	Description	Author	Document Type	Document Size	Sensitivity
<input type="checkbox"/>		Test_Additional Document.docx (Additional Document)				Additional Document	12.99 KB	
<input type="checkbox"/>		Test_Assay Report.docx (Assay Report)				Assay Report	12.99 KB	
<input type="checkbox"/>		Test_Exchange Rate.docx (Exchange Rate from Bank)				Exchange Rate from Bank	12.99 KB	
<input type="checkbox"/>		Test_Form G.docx (Alluvial Export Return (Form G))				Alluvial Export Return (Form G)	12.99 KB	
<input type="checkbox"/>		Test_Gold and Silver Price.docx (Gold and Silver Price)				Gold and Silver Price	12.99 KB	
<input type="checkbox"/>		Test_Invoice from Exporter.docx (Invoice from Exporter)				Invoice from Exporter	12.99 KB	

There are 2 Documents indirectly associated through Parties

All	View	Title	Reference Number	Description	Author	Document Type	Document Size	Sensitivity
<input type="checkbox"/>		Test_Export License_Q.pdf (Export License from Central Bank)				Export License from Central Bank	16.82 KB	
<input type="checkbox"/>		Test_ID_Q.pdf (Identity Document)				Identity Document	16.80 KB	



Current Developments/Integrations



1. Accounts Integration

- 2024 – work commenced on integrating MRA’s accounting system (MYOB) with Landfolio,
- Developing online payment capacity,
- Developing payment receipting & linking payments with mineral tenements,
- Integrating tenement payments with compliance requirement

2. Library

- Library document migration to Landfolio for access via online library portal

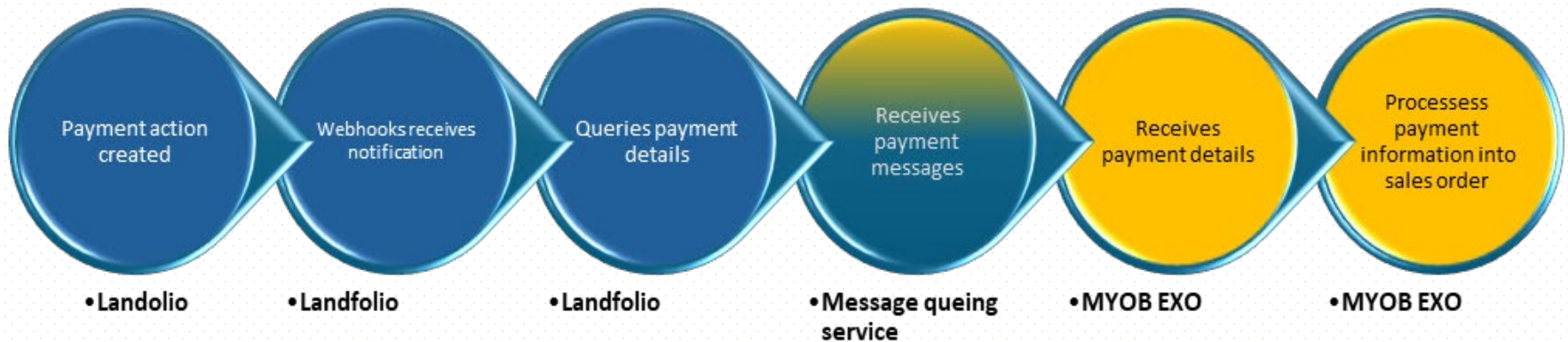
3. Dashboard Development

- Provide real-time updated information pertaining to tenements
 - Tenement Status - Applications tracking
 - Production data

Accounts Integration



Landfolio & accounts integration – process flow



Library Portal



Library portal developed

Select Document Type ▼

SEARCH

CLEAR

Tenement Code	Companies/People	Title	Author	Reference Code	Document Type	Description
EL 1109	Wantok Mining (PNG) Lim	EL 1109 KUBOR RANGE ANNUA...	WANTOK MINING	1997/102	Annual Report	NO WORK WAS DONE DURING T...
EL 1109	Wantok Mining (PNG) Lim	EXPLORATION LICENCE 1109 ...	HUTTON M AND E	1997/013	Annual Report	THE REPORT DISCUSSES FOLL...
EL 754		HIGHLANDS GOLD LIMITED AN...	MORI W	1991/243	Annual Report	REPORT PRESENTING RESULTS...
EL 754		MT KUBOR PA 754 RELINQUIS...	DIGAN K	1990/120	Relinquishment F	BRIEF REPORT DISCUSSING M...
EL 932		EXPLORATION LICENCE 932 K...		1993/035	Annual Report	13 PAGE REPORT WITH 6 PLA...
EL 932		KENNECOTT EXPLORATIONS AU...		1991/568	Annual Report	REPORT ON RESULTS OF FIRS...
Not Recorded		EL 1109 Minorco Explorati...	Estaris Max S	1998_114 1	Company Report	EL 1109 Kubor. The minera...
Not Recorded		EL 1109 Minorco Explorati...	Estaris Max S	1998_114 2	Company Report	EL 1109 Kubor. Volume 2 ...
Not Recorded		Stricture, stratigraphy, ...	Hill Kevin C et al	1990_705	Proceedings	Mainland Papua New Guinea...
Not Recorded		THE GEOLOGY OF THE KUBOR ...	FRANK TIM	2011/003	Technical Report	THIS REPORT COVERS THE GE...



Forward Looking – 2025 & Onwards



- Accounts Integration fully established & functional
- Dashboard Reporting fully established & functional
- Board of Examiners (BOE) repository to be developed
- Additional Custom Report development – warden’s reports, assessment reports, MAC reports, letter templates, etc.
- Reconfiguration of Landfolio workflows to accommodate expected new mining legislation
- Further transactional portal development to accommodate submission of new tenement applications
- Further development of e-Gov portal for submission of statutory reports (operating mines production data, exploration and expenditure data)
- Integration of mine monitoring system to Landfolio for reconciliation of mining data
- Landfolio back office and e-Gov portal development to eSuite

Challenges



- Conforming with legislations and international standards and best practice
- Active user engagements
- Complex historical data structures (large volume)
- Data standardization requirements
- Access to historical data off-site
- Compatibility and operability between different systems





Acknowledgment



Spatial Dimension

- ❖ Charles Young
- ❖ Eva Stredder
- ❖ Ian Brumfitt
- ❖ Support staff – Cape Town

Tenk yu Tru