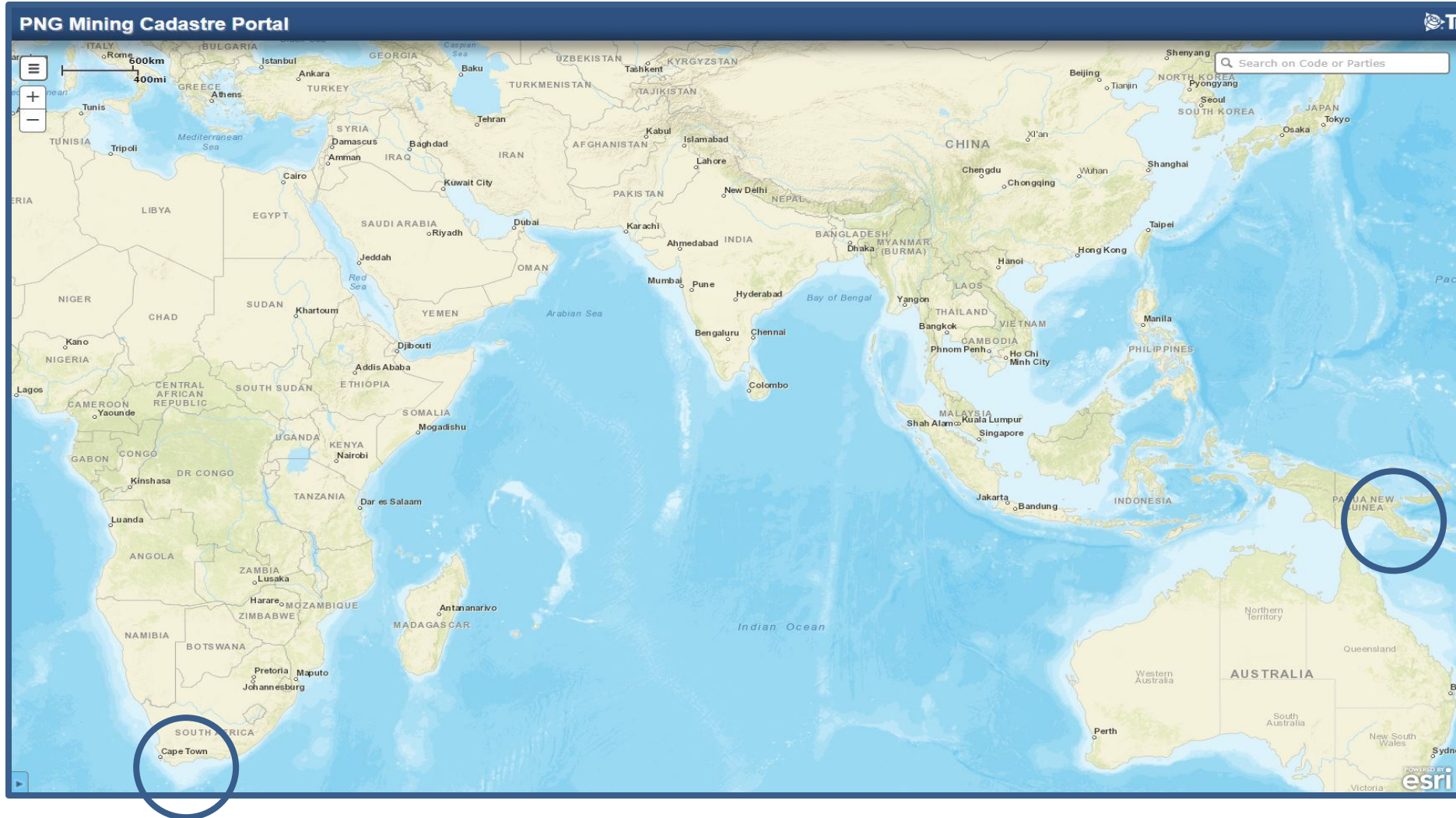




Papua New Guinea Mining Tenement System





Mineral Resources Authority
Papua New Guinea
Minerals for Life



Mineral Resources Authority (MRA)

- ❑ State Own Entity that Regulates the Mining Industry in Papua New Guinea (PNG) pursuant to the Mining Act 1992
- ❑ MRA is located in the capital, Port Moresby, with a Small Scale Mining Branch and training centre in Wau Morobe Province.

Mining Haus, Port Moresby, NCD



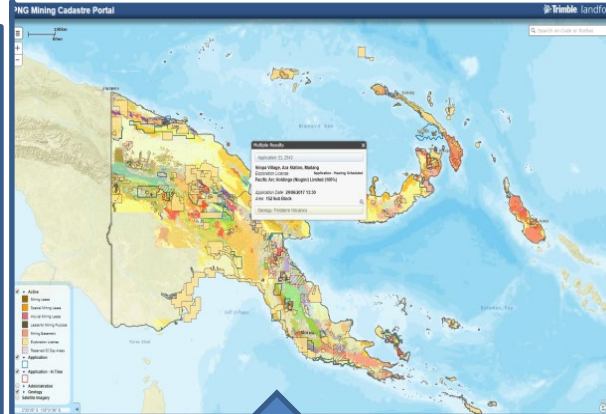
Small Scale Mining Centre (SSMTC),
Wau,
Morobe Province



PNG Landfolio Design

PNG Online Transactional Portal

Public Map Portal



MRA Library Portal

Company/People	Title	Author	Reference Code	Document Type	Description
	ASSESSMENT OF THE GROUNDW...	EGARA, S.S	2001/117	Hydrology Re	REPORT IN 20
	APPENDIX 5-BOTANY AND REH...	DR MONICA RAU	2001/013E	Environmental Re	
	PROSPECTING AUTHORITY NUM...	LEAMAN P	1972/128	Final Report	REPORT DISC
	PROSPECTING AUTHORITY NUM...	DUGUELE MA	1993/003	Annual Report	A BRIEF 5 PAG
	PROSPECTING AUTHORITY NUM...	LEAMAN P	1992/033	Annual Report	A BRIEF REPO
	PROSPECTING AUTHORITY NUM...	LEAMAN P	1993/002	Relinquishment F	REPORT CONT
Indo Pacific Mining (PNG)	ANNUAL REPORT EXPLORATION...	WASS J KANDE M	1997/057	Annual Report	A 20 PAGE RE
Indo Pacific Mining (PNG)	EL 1008 BOWUTU MOUNTAINS ...		1993/038	Annual Report	A 19 PAGE REF
Indo Pacific Mining (PNG)	EL 1008 BOWUTU MOUNTAINS ...	HIGHLANDS GOL	1996/042	Annual Report	A BRIEF (6 PAG

Additional Development


PNG Landfolio

Mineral Resources Authority
Papua New Guinea
Minerals for Life



MRA Library Portal:

- Geological Reports
- Exploration Reports
- Map Files
- Historic tenement data including annual reports, drill-hole & core analysis, hydrology, social & landowner agreements, etc

Papua New Guinea Online Library Catalogue 

Keywords Author Select Document Type

Tenement Code Company/Person

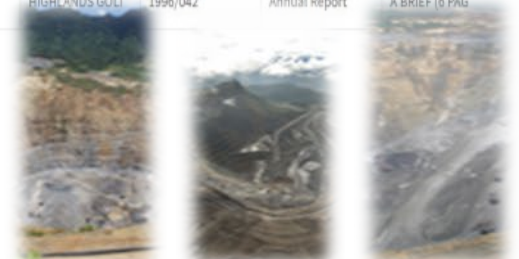
8 0 10 ...

Companies/People	Title	Author	Reference Code	Document Type	Description
	ASSESSMENT OF THE GROUNDW...	EGARA, S.S	2001/117	Hydrogeology Re	REPORT IN 20
	APPENDIX 5-BOTANY AND REH...	DR MONICA RAU	2001/013E	Environmental Ri	
	FINAL REPORT PA 100 KUTU ...	TIPPETT M C SIMI	1972/128	Final Report	REPORT DISCL
	PROSPECTING AUTHORITY NO ...	DUGMORE M A	1993/003	Annual Report	A BRIEF 5 PAGI
	PROSPECTING AUTHORITY NUM...	LEAMAN P	1992/033	Annual Report	A BRIEF REPOF
	PROSPECTING AUTHORITY NUM...	LEAMAN P	1993/001	Annual Report	A BRIEF 13PP;
	PROSPECTING AUTHORITY NUM...	LEAMAN P	1993/002	Relinquishment F	REPORT CONT.
Indo Pacific Mining (PNG).	ANNUAL REPORT EXPLORATION...	WASS J KANDE M	1997/057	Annual Report	A 20 PAGE REP
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Indo Pacific Mining (PNG).	EL 1008 BOWUTU MOUNTAINS ...	HIGHLANDS GOLLI	1996/042	Annual Report	A BRIEF (6 PAG



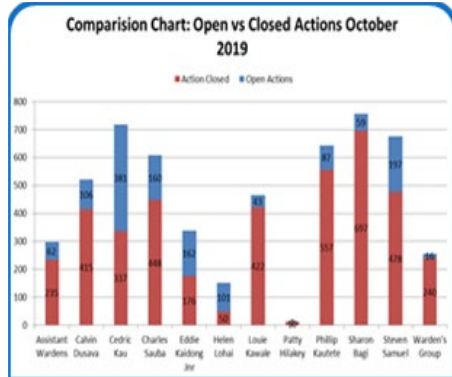
Mineral Resources Authority
Papua New Guinea

Minerals for Life





Landfolio Experiences: Benefits and Challenges



Overdue Actions



Landfolio Users

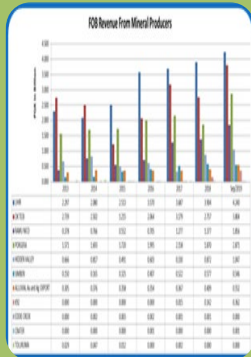


Training and Support

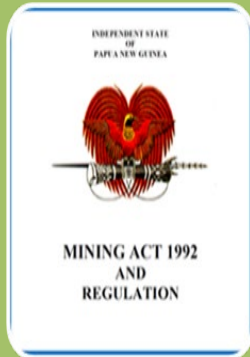


Landfolio Experiences – Benefits & Challenges

Papua New Guinea Extractive Industries Transparency Initiative (PNG EITI)
Executive Summary Report for 2018
6 December 2019




Papua New Guinea Mining Cadastre Portal



INDEPENDENT STATE OF PAPUA NEW GUINEA
MINING ACT 1992 AND REGULATION

- Replace Paper based Tenement Application
- Hard Copy Registry
- 80 registered users
- Human error – Users attending to & closing actions
- IT connectivity (constant power & server issues)
- No Current Legislative Support
- No audit capacity of production and revenue

EITI

Mine and Exploration Reporting

Online Portal

Passing of New Mining Bill (Q2,2020)



REPORTING EXAMPLE: MINE PRODUCTION & REVENUE DATA

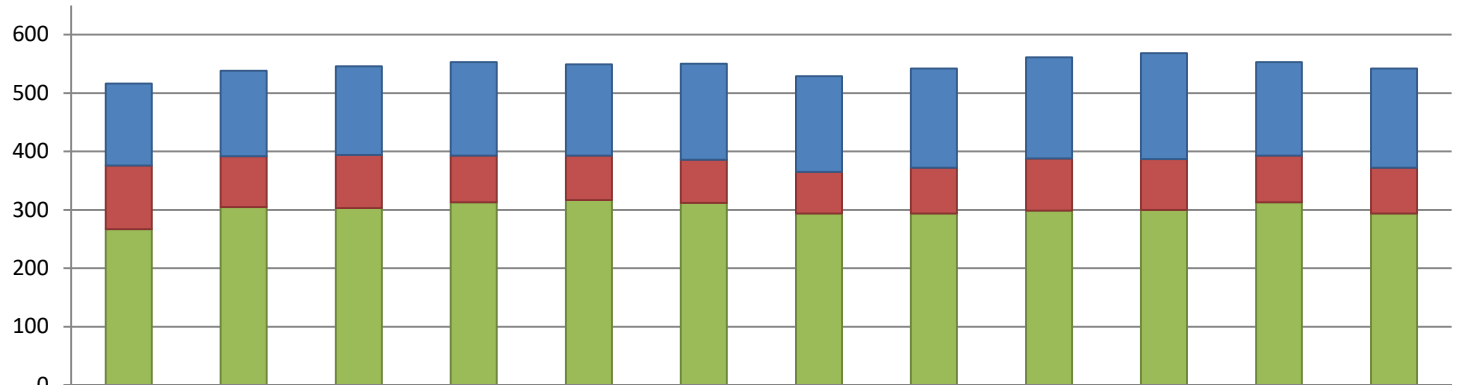
2019 Mineral Production

Mines	Commodity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total YTD		
Ok Tedi (SML 1 O)	PRODUCED	gold (oz)	18,004	22,786	23,535	20,086	27,278	19,192	23,720	29,953	27,323	42,696	28,506	23,249	306,328	
		silver (oz)	93,205	87,457	119,518	125,734	113,689	83,392	84,956	183,186	151,219	152,973	157,971	113,914	1,467,214	
		copper (t)	6,083	7,585	8,154	7,769	9,027	6,158	7,013	9,987	8,670	11,418	9,523	7,581	98,988	
	SHIPPED	gold (oz)	23,340	25,930	19,901	12,046	31,899	29,707	32,646	33,126	27,551	13,967	52,639	36,340	339,092	
		silver (oz)	99,988	116,689	77,360	68,276	150,730	136,538	134,308	172,098	132,657	83,780	265,362	192,632	1,630,418	
		copper (t)	7,464	8,616	6,413	4,508	10,676	9,428	9,521	10,642	8,325	3,975	15,581	12,272	107,421	
	FOB	gold (pgk)	112,194,178	110,623,956	75,115,690	51,699,706	138,828,088	166,309,618	149,663,352	175,281,640	131,551,506	68,817,756	249,197,782	193,813,793	PGK 1,623,097,065	
		silver (pgk)	5,776,298	5,265,594	3,327,418	3,170,269	6,686,105	7,496,548	7,038,059	9,389,996	7,002,554	4,703,414	13,861,921	12,669,238	PGK 86,367,414	
		copper (pgk)	161,604,831	203,142,576	129,517,959	85,233,272	155,483,567	189,452,653	182,655,451	167,385,408	162,224,376	78,945,701	302,454,089	276,028,082	PGK 2,094,127,965	
PGK 3,803,592,444																
Porgera (SML 1 P)	PRODUCED	gold (oz)	49,531	34,093	55,317	26,077	47,976	53,371	44,961	50,734	63,602	45,736	64,698	61,340	597,436	
		silver (oz)	39,638	26,608	39,506	23,899	40,736	42,501	52,243	13,179	17,878	13,564	19,054	27,341	356,147	
	SHIPPED	gold (oz)	52,837	34,809	51,026	37,088	39,814	56,091	38,010	58,364	60,989	44,000	72,424	56,977	602,429	
		silver (oz)	64,010	30,795	40,600	29,565	27,019	49,596	36,787	41,450	26,735	43,654	16,257	25,882	432,350	
	FOB	gold (pgk)	225,906,946	152,179,205	226,459,612	158,929,637	173,705,017	255,387,603	180,842,021	291,731,338	314,893,464	218,565,388	365,476,064	287,673,140	PGK 2,851,749,435	
		silver (pgk)	2,255,202	1,313,280	2,069,730	1,135,334	1,087,844	2,048,622	1,572,718	2,282,480	1,462,684	2,020,588	979,091	1,358,306	PGK 19,585,879	
	PGK 2,871,335,314															
	Lihir(SML 6)	PRODUCED	gold (oz)	97,028	80,237	61,014	90,329	105,060	65,891	66,359	68,004	83,143	56,776	38,640	68,578	881,059
		SHIPPED	gold (oz)	78,684	100,394	87,993	81,769	108,822	87,926	54,331	55,502	73,838	66,303	44,239	50,375	890,176
FOB		gold (pgk)	342,158,404	446,181,426	386,739,467	354,474,240	471,924,854	406,488,099	261,088,403	285,146,685	472,957,984	335,458,518	219,907,921	257,148,378	PGK 4,239,674,379	
PGK 4,239,674,379																
Kurumbukari (SML 8)	PRODUCED	nickel (t)	2,449	2,652	2,562	2,845	2,920	3,001	2,905	2,576	2,908	2,244	2,704	2,954	32,720	
		cobalt (t)	217	236	250	263	259	271	281	236	243	181	262	282	2,916	
		Chromite (t)	7,111	7,165	8,399	10,667	11,000	11,271	13,305	10,690	7,866	6,876	9,912	11,311	115,573	
	SHIPPED	nickel (t)	1,338	1,166	4,084	2,233	2,046	5,178	5,528	4,885	4,118	4,371	3,333	2,477	40,757	
		cobalt (t)	128	106	374	205	185	472	507	448	374	362	292	217	3,670	
		Chromite (t)	12,742	5,598	11,936	8,817	6,372	15,088	17,775	10,577	12,571	10,118	17,024	8,118	136,736	
	FOB	nickel (pgk)	38,530,052	32,832,016	134,351,542	75,611,009	62,921,999	156,182,292	182,388,179	185,848,025	212,842,077	228,361,287	144,746,489	78,198,081	PGK 1,532,813,048	
		cobalt (pgk)	18,644,266	8,722,461	20,019,440	13,882,367	13,346,009	32,855,928	34,233,576	29,223,183	31,796,367	32,535,353	24,870,189	13,539,256	PGK 273,668,395	
		Chromite (pgk)	361,404	164,027	621,852	367,301	268,853	593,284	27,959,370	2,489,959	4,465,149	2,417,835	8,496,074	1,704,168	PGK 49,909,276	
PGK 1,856,390,719																
Tolukuma (ML 104)	PRODUCED	gold (oz)												0		
		silver (oz)													0	
	SHIPPED	gold (oz)													0	
		silver (oz)													0	
	FOB	gold (pgk)													PGK 0	
		silver (pgk)													PGK 0	
PGK 0																
Eddie Creek (ML 144,ML 384,ML 384, ML 402, ML 462)	PRODUCED	gold (oz)	17.80	0.00	2.60	0.70	0.00	0.00	0.00	0.00	4.90			26		
		silver (oz)	16.20	0.00	2.40	0.60	0.00	0.00	0.00	0.00	0.00	4.10			23	
	SHIPPED	gold (oz)	17.80	0.00	2.60	0.70	0.00	0.00	0.00	0.00	4.90			26		
		silver (oz)	16.20	0.00	2.40	0.60	0.00	0.00	0.00	0.00	4.10			23		
	FOB	gold (pgk)	74,057.00	0.00	10,999.00	2,919.00	0.00	0.00	0.00	0.00	19,106.00				PGK 107,081	
		silver (pgk)	793.00	0.00	134.00	35.00	0.00	0.00	0.00	0.00	212.00				PGK 1,174	
PGK 108,255																
Simberi (ML 136)	PRODUCED	gold (ozt)	8,880	15,513	9,709	12,151	10,417	13,678	9,844	8,763	8,454	8,005	6,913	8,153	120,478	
		silver (ozt)	2,368	850	4,846	3,873	3,051	2,626	3,989	3,415	3,339	3,045	4,921	3,016	39,339	
	SHIPPED	gold (oz)	7,703	5,354	19,589	12,743	10,216	10,993	11,180	9,014	8,417	7,737	10,881	6,441	120,268	
		silver (oz)	2,368	850	4,846	3,873	3,051	2,626	3,989	3,415	3,339	3,045	4,921	3,016	39,339	
	FOB	gold (pgk)	32,687,384	23,108,060	84,609,540	54,041,731	43,301,085	49,924,029	52,255,028	38,133,282	42,943,067	38,319,928	53,218,707	31,373,058	PGK 543,914,899	
		silver (pgk)	121,503	44,168	248,752	272,736	147,544	156,894	206,668	188,238	199,092	177,124	282,164	167,893	PGK 2,212,776	
PGK 546,127,675																



Tenement Status 2019

Mineral Tenement Status - 12 Month Period



	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	Jun 2019	Jul 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
Total	538	546	553	549	550	529	542	561	568	553	542	
New Applications	140	146	152	160	156	164	164	170	173	181	160	170
Active Tenement - Renewal Applications	109	87	91	80	76	74	71	78	89	87	80	78
Active Tenements	267	305	303	313	317	312	294	294	299	300	313	294



Mineral Resources Authority
Papua New Guinea

Minerals for Life



SUPPORT & MAINTENANCE

- PROVIDES CRITICAL 'BACKROOM' CONNECTION & TECHNICAL BACK-UP
- 2 X SITE VISITS PER YEAR FOR USER TRAINING, TROUBLESHOOTING & DEVELOPMENT
- ENABLES CLOUD HOSTING - AMAZON
- PROVIDES FOR KEY ADMINISTRATOR TRAINING IN CAPETOWN
- ENABLES ANTICIPATION OF FUTURE DEVELOPMENTS
i.e. REGULATORY REVISION
- ENABLES IDENTIFICATION OF SYSTEM WEAKNESSES,
BOTH TECHNICAL AND HUMAN



REVISED MINING LEGISLATION

- ❑ New legislation will trigger a complete Landfolio review and upgrade
- ❑ Both old and new systems may require to operate in parallel for a transitional period up to 5 years
- ❑ New aspects include social mapping & land identification date, new tenement types i.e. Retention Licence & mine area extensions, new tenement terms, extensive enforcement & penalty powers
- ❑ Accordingly, work plans and processes will have to be re-scoped and re-built
- ❑ Extensive user training and user numbers



NEW DEVELOPMENTS

- MAP & DATA SALES
- CAPTURE OF REAL TIME PRODUCTION & GEOLOGICAL DATA – PROVIDED DIRECT FROM MINES
- SAFETY DATA
- ALLUVIAL SPECIFIC DATA
- DRILL-HOLE CADASTRAL LOCATION



Mineral Resources Authority
Papua New Guinea
Minerals for Life



Thank You

