# FIJI PORTS CORPORATION LTD

# Converting Current Challenges into Future Opportunities

BLUE WATER SEMINAR 5 – 7 December, Auckland, NZ

Presentation by Vajira Piyasena, CEO, FPCL, - 7 December 2016 This Presentation is best viewed in Microsoft PowerPoint 2010 or Versions Above



#### Vision

'To be the maritime gateway in the Pacific region through facilitating waterborne transport, trade and commerce '

#### Mission

'To develop, maintain and improve key seaport and ship repair facilities to enhance the economic growth and prosperity of Fiji '

#### Values

- Professionalism
- Commercial Stewardships
- Strategic Innovation
- Progressive Leadership
- Corporate Citizenship
- Employee Well Being and Diversity

# Main Ports of Entry

# Fiji Ports owns and carries out maritime operations in four main ports of:

- Suva
- Handles 54% of the total Fiji's export and import cargo.
- Comprised of 72% containerized , 25% both liquid & dry bulk and rest non containerized.



- Malau
- Handles 3% of the total cargo throughput.
- Comprised of 49% liquid bulk and 51% dry bulk.

- Lautoka
- Handles 42% of the total export and import.
- Comprised of 38% containerized rest 62% liquid & dry bulk cargo.
- Vuda a liquid bulk terminal which handles the bulk of the liquid bulk cargo.

#### Levuka

- A fishing port handling
   0.22% of the total import & export cargo.
- This constituted 75% frozen fish for the government owned tuna canner with the balance being liquid bulk.

These are ports of entry with specialized functions but is administered by FPCL for statutory requirements like ISPS, etc.

#### Wairiki

• A dedicated woodchips terminal commenced operations in 2012.

#### Rotuma

 Established through the Fiji Government's initiative in assisting the Micronesian countries in the Pacific for exportation of root crops with shipping schedules covering Fiji / Rotuma / selected Micronesian countries / Rotuma / Fiji.



# Local Wharves Managed by FPCL

#### <u>Suva</u>

- □ Mua i Walu 1 dedicated fishing vessel facility
- Mua i Walu 2 Local vessels berthing

#### <u>Lautoka</u>

Cater for vessels servicing the islands in the Mamanuca and Yasawa group



# Post Privatization Challenges

- Business Model
- Management Structure
- Asset Transfer
- Legal Responsibility under Seaport Management Act 2005

# The First Public Private Partnership (PPP) in 2013

- Ports Terminal Limited (PTL) → subsidiary of Fiji Ports Corporation Ltd (FPCL) until July 2013
- FPCL sold 51% of shares in Ports Terminal Limited to Aitken Spence PLC (ASPLC) for FJD 10.35m

ASPLC acquired management rights of Suva and Lautoka ports via PTL

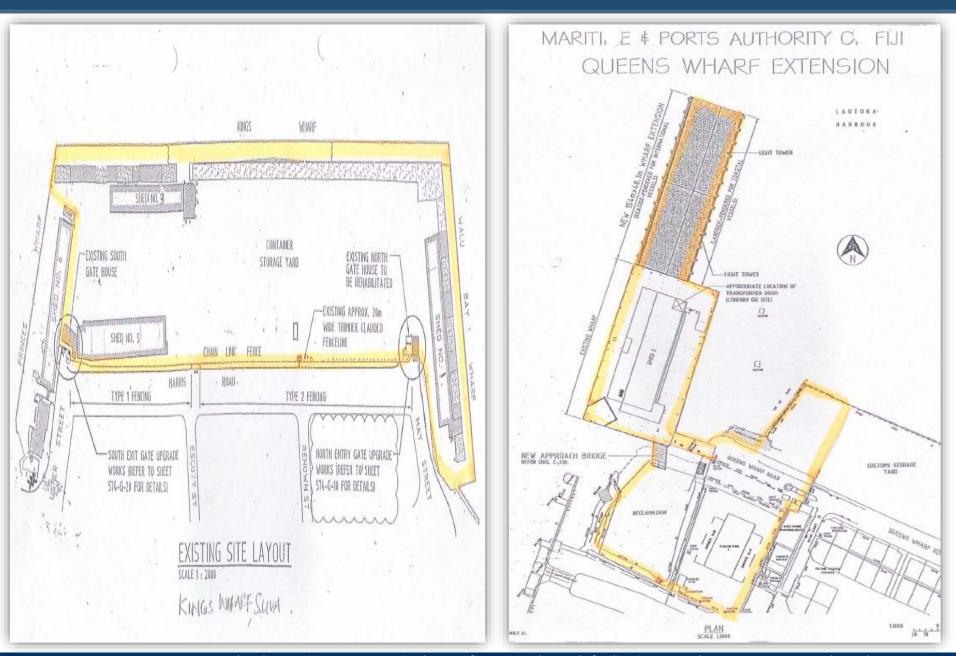
- ASPLC has not bought the assets (except for shore cranes) → only management rights
- FPCL + ASPLC → Shareholders Agreement → govern finance, administration and performance of PTL in Suva and Lautoka
- FPCL retains control of PTL → governed under terms of Shareholders
   Agreement

Port management governed under performance based Concession Agreement

# Services Provided by FPCL, FPTL & FSHIL

	FPCL		FPTL	Engineering
	Main Services	Ancillary Services	Main Services	<ul> <li>Fitting, machining and tuning, &amp; stern gear servicing</li> </ul>
•	Harbormaster's Function	<ul> <li>Shifting</li> </ul>	<ul> <li>Stevedoring</li> </ul>	<ul> <li>Deck machinery – installation &amp; repairs</li> <li>Valve &amp; plumbing repairs</li> </ul>
•	<b>Pilotage</b> (percentage of services subcontracted to private company)	<ul> <li>Incineration</li> </ul>	<ul> <li>Cargo Handling Machinery</li> </ul>	<ul> <li>General pipe work</li> <li>Underwater repair engineering works</li> </ul> Electrical
•	Tugboat Operations       (Subcontracted)	<ul> <li>Fumigation</li> </ul>	<ul><li>Storage</li><li>Receiving and</li></ul>	<ul> <li>Marine electrical services, industrial electrical services</li> <li>Service &amp; repair of electrical generators &amp; motors</li> </ul>
•	Mooring Services (Subcontracted)	<ul> <li>Weighing</li> </ul>	Delivery FSHIL	<ul> <li>Auto electrical (marine, industrial &amp; heavy mobiles)</li> </ul>
-	Dredging (Administered by	<ul> <li>Supply of Water</li> </ul>	Main Services	<ul> <li>Re-winding generators &amp; motors, refrigeration &amp; control systems</li> </ul>
	FPCL –Work carried out by	& Shore power	Slipping of Vessels	Timber & Fiber-Glass
	private contractor)		Afloat repairs	Ship repair and commercial outfitting
•	Port Security / Safety Management	<ul> <li>Waste</li> <li>Management</li> </ul>	<ul> <li>Heavy Industrial works</li> <li>Ship construction &amp; general heavy industry (steel &amp;</li> </ul>	<ul> <li>Interior refurbishment</li> <li>Machining &amp; installation of timber decking</li> <li>Industrial &amp; marine paint services</li> </ul>
•	Vessel Traffic Services and Anchorage	<ul> <li>Container Cleaning</li> </ul>	aluminum) • Hull repairs (steel & aluminum)	<ul> <li>Fiber-glassing</li> <li>Wooden boat building</li> <li>Building and office construction, renovations &amp; fit-outs</li> </ul>
•	Cruise Liner Services	<ul> <li>Bunkering</li> </ul>	<ul> <li>Industrial structural fabrication, heavy machinery</li> </ul>	Technical
•	Repair and Maintenance of Infrastructure	<ul> <li>Pollution</li> <li>Prevention</li> </ul>	welding Blasting & Painting • Grit/water blasting • Spray painting	<ul> <li>Ship design &amp; calculations</li> <li>Conducting inclining experiments</li> <li>Compiling stability data</li> <li>Hull ultrasonic (thickness) gauging</li> <li>ting waterborne transport, trade and commerce '</li> </ul>

#### Area Leased to Fiji Ports Terminal Ltd (FPTL)



### Divestment of FPCL in 2015

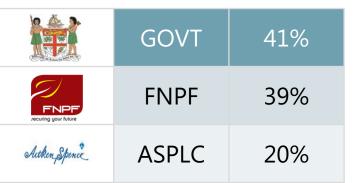
- Fiji Ports Corporation Limited (FPCL) → 100% owned by the Government of Fiji until 5 November 2016
- Government divested 59% of the shares in FPCL at a value of more than FJ\$100 million
- Government signed the two key agreements "Share Sale & Purchase Agreement" and "Shareholders Agreement" on 5 November 2015
- 80% of the shares in FPCL will remain Fijian owned

Under the agreement Government will maintain 41% of the shares in FPCL, while FNPF will own 39% and Aitken Spence 20%.

- FPCL transfer all real estate to a Govt. holding company Asset Fiji Ltd. → Govt. lease the assets necessary for port operations to FPCL → Ownership of all land interests remain with Govt.
- As per the Shareholders Agreement FNPF is entitled to approx. 3 Directors and ASPLC is entitled to approx. 2 Directors to the Board while Govt. of Fiji shall be entitled to approx. 4 Directors to the Board.

## Current Status after Changes in 2013 & 2015

#### FIJI PORTS CORPORATION LTD (FPCL)





FIJI PORTS

#### **FIJI PORTS TERMINAL LIMITED (FPTL)**

An associate company of FPCL that manages the Cargo Terminals in Suva and Lautoka ports.

Actken Spenie	ASPLC	51%
FILIPERTS	FPCL	49%



#### FIJI SHIPS & HEAVY INDUSTRIES LTD (FSHIL)

A subsidiary of FPCL providing slipway and ship repair services and Heavy Industry work.



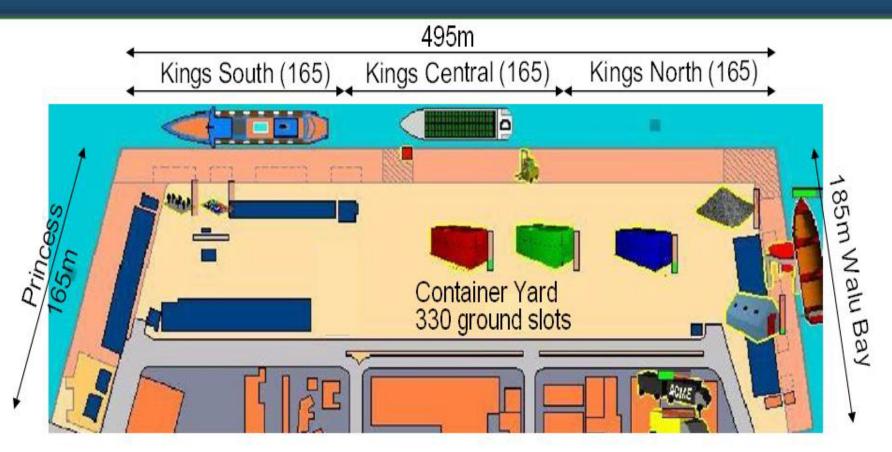
#### Suva, Lautoka, Levuka and Malau Port Boundaries



# Infrastructure Challenges

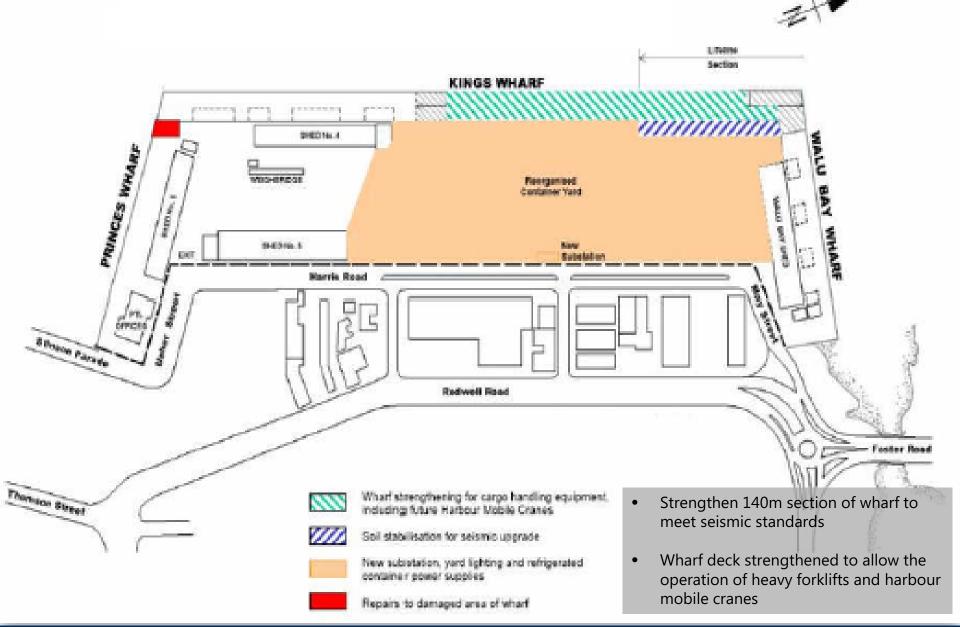
Ageing FacilitiesShore Cranes

# Port of Suva Site Plan

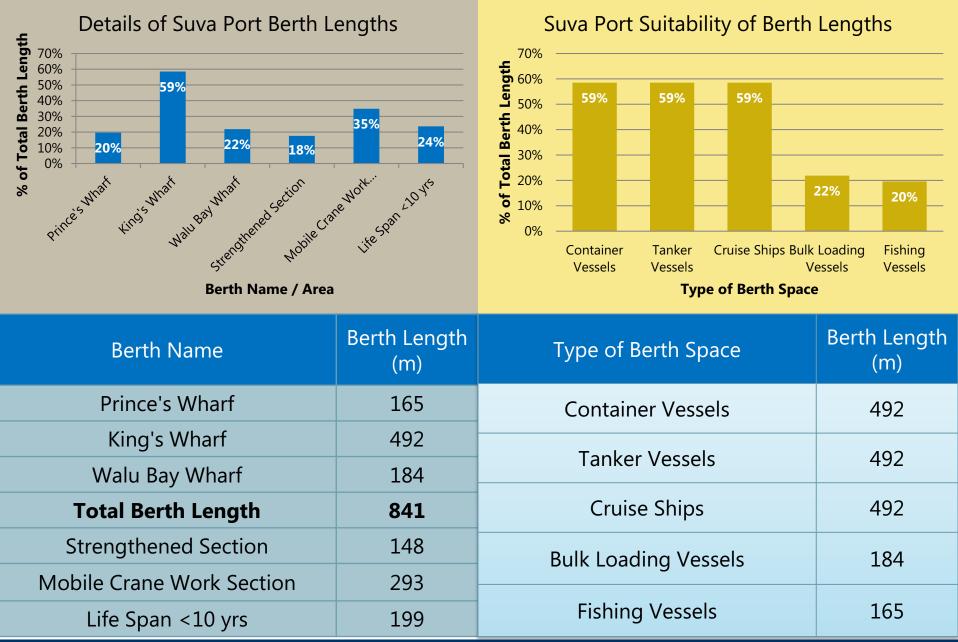


- 515m of berth length (excl. King's S & Princess)
- 3ha of yard space
  - → capacity of 80,000 TEU for yard storage
    - → capacity of >100,000 TEU for berth

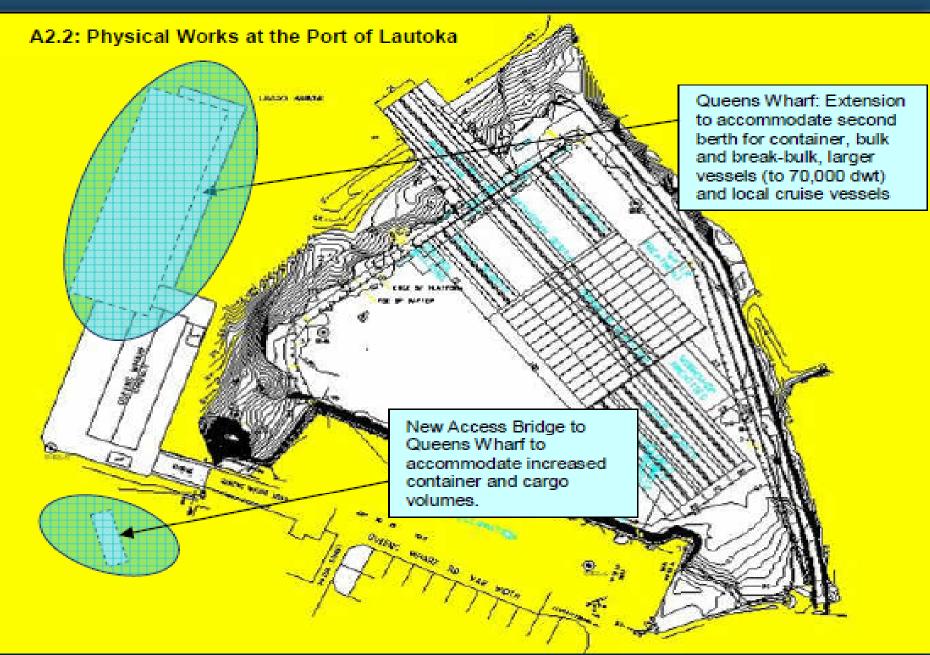
#### Port of Suva - Effective Operational Area



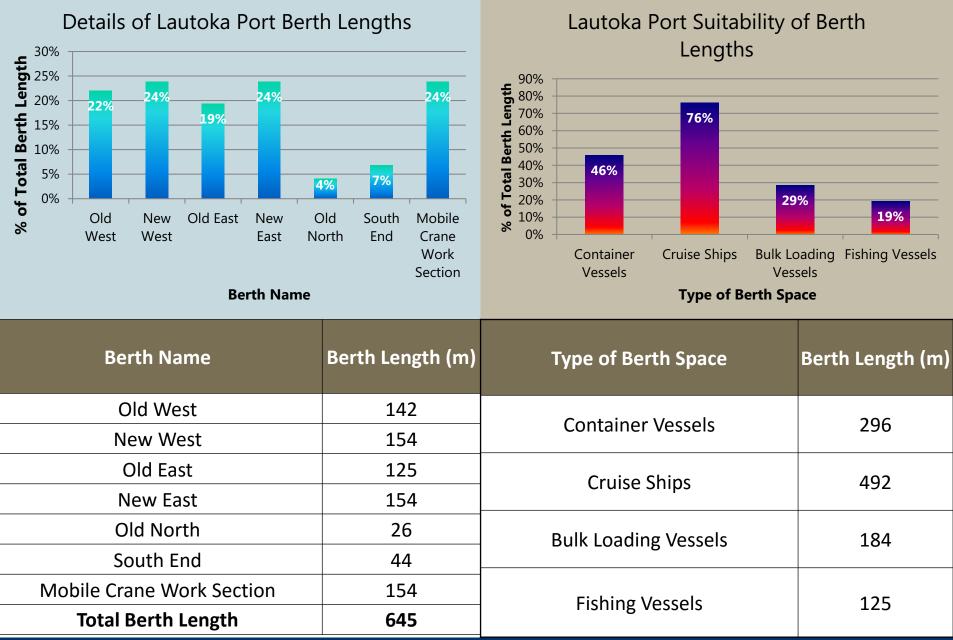
#### Port of Suva - Berth Details



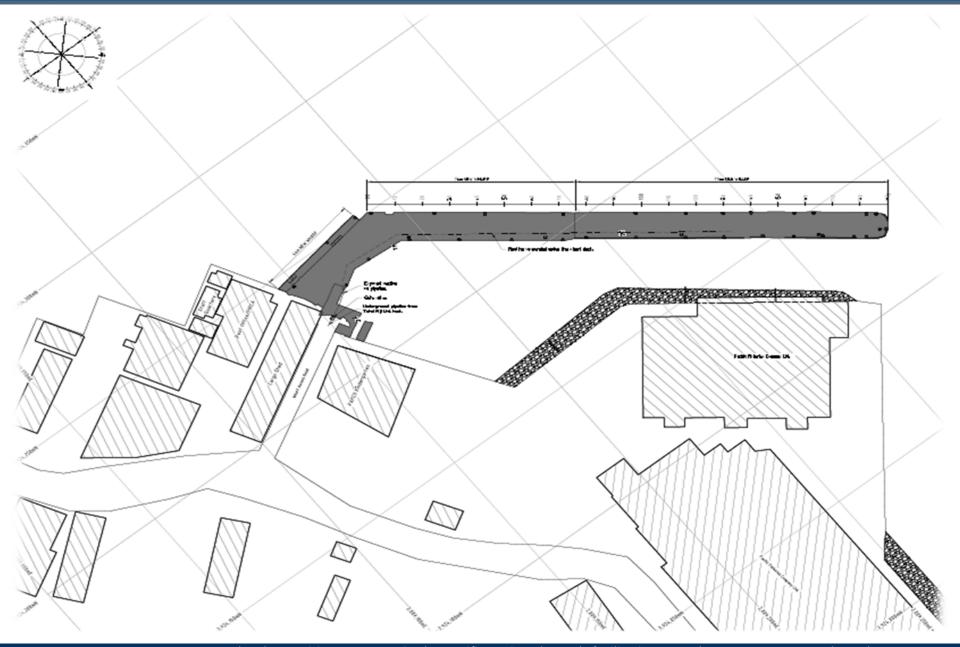
#### Port of Lautoka Site Plan



#### Port of Lautoka - Berth Details



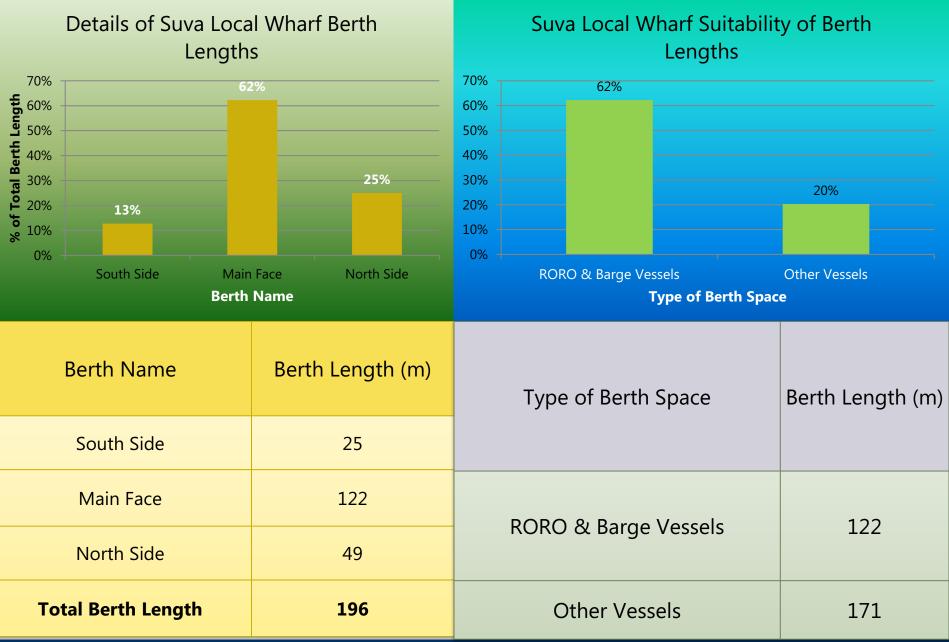
#### Port of Levuka Site Plan



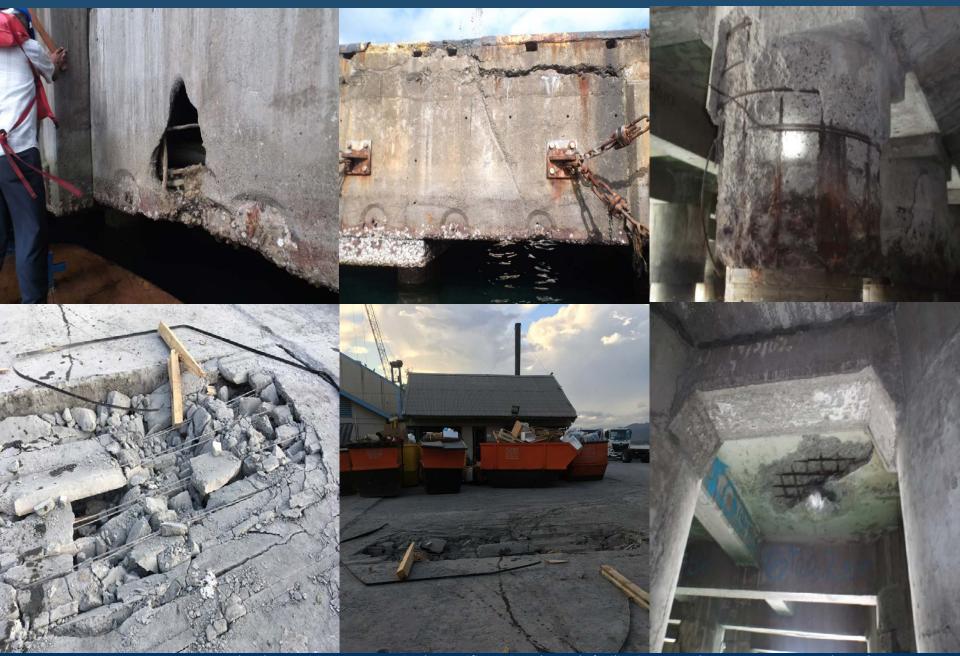
### Port of Levuka - Berth Details

Details of Levuka Port Be	60%		40%	
years old Berth Are		Vessels Vessels Vessels Type of Berth Space		
Berth Name	Berth Length (m)	Type of Berth Space	Berth Length (m)	
New Section	76	Container Vessels	0	
Old Section (est. 120 years old)	114	Cruise Ships	0	
Area Closed	114	Bulk Loading Vessels	0	
<b>Total Berth Length</b> 'To be the mar	<b>190</b> itime gateway in the Pacific re	Fishing Vessels	76	

#### Local Wharf Suva - Berth Details



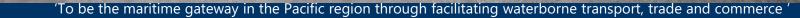
### Ageing Wharf Infrastructure – Damages in Port of Suva



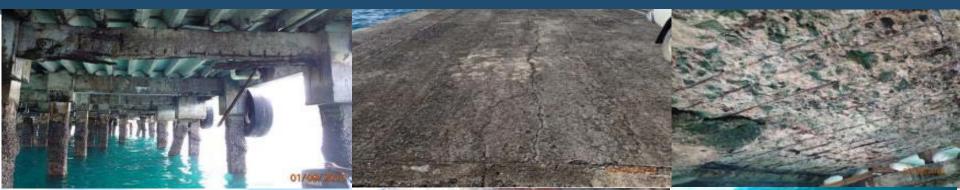
#### Aging Wharf Infrastructure – Damages in Port of Lautoka

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# Ageing Wharf Infrastructure – Damages in Port of Levuka





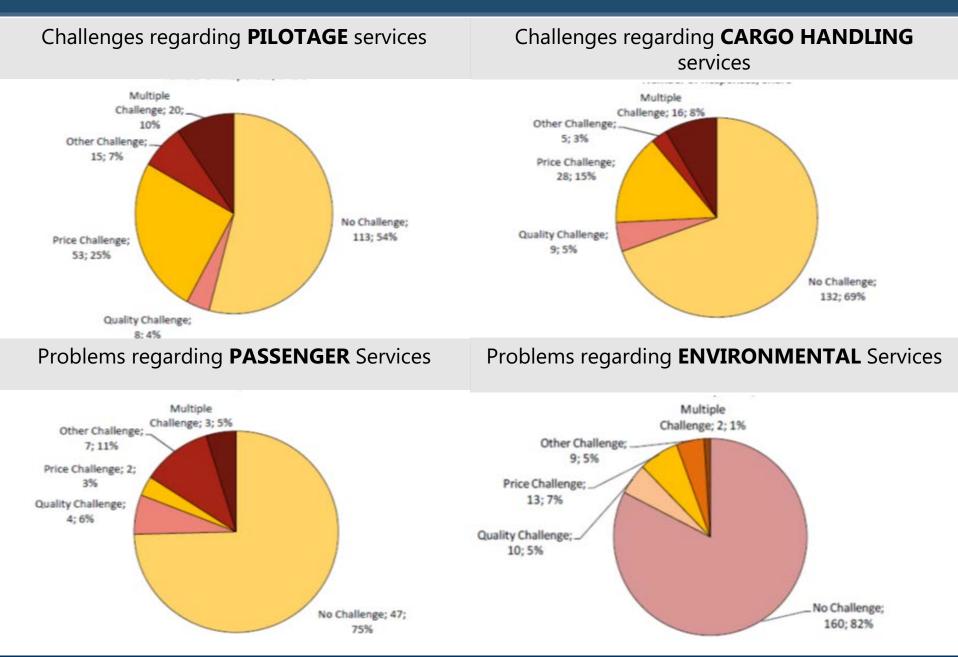




# More Challenges

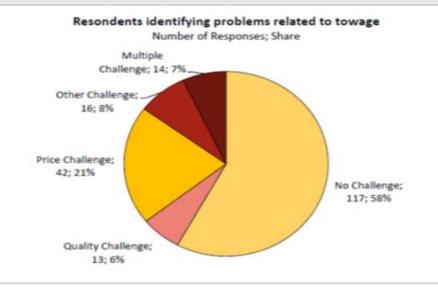
Pilotage
 Cargo Handling
 Passenger Services
 Environmental Management
 Towage
 Mooring
 Dredging
 Bunkering

## Challenges

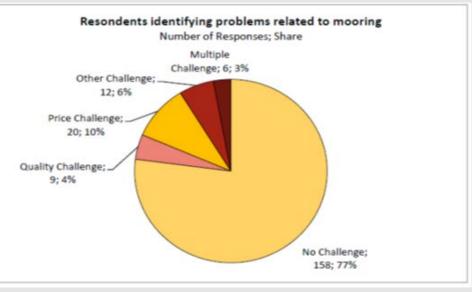


#### Challenges cont.

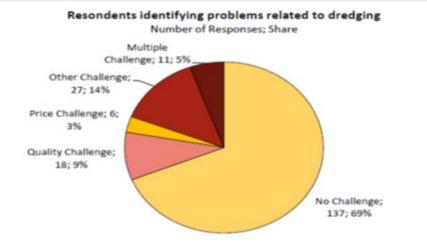
#### Challenges regarding **TOWAGE** services



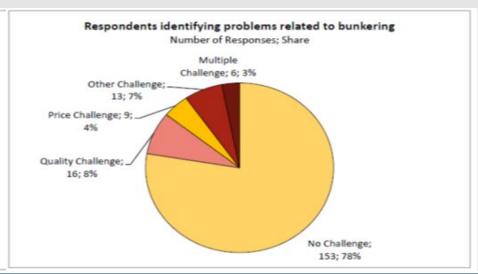
#### Challenges regarding **MOORING** services



#### Challenges regarding **DREDGING** services – Shipping lines and Terminal operators



#### Challenges regarding **BUNKERING** services



#### FPCL - Projects Implemented to Address Key Issues

Launch of oil pollution boat -Approx. Cost \$80 k

**Pollution Prevention** 

Lautoka waiting shed-Approx. Cost \$450 k 08/08/2013 17:03

**Social Obligations** 

FIJI PORTS CORPORATION LTD

#### Port Development

Derelict Vessel & Wreck Removal

Local wharf revamp - Project study Approx. Cost \$80k Removal Approx. Cost \$150 k (ongoing)

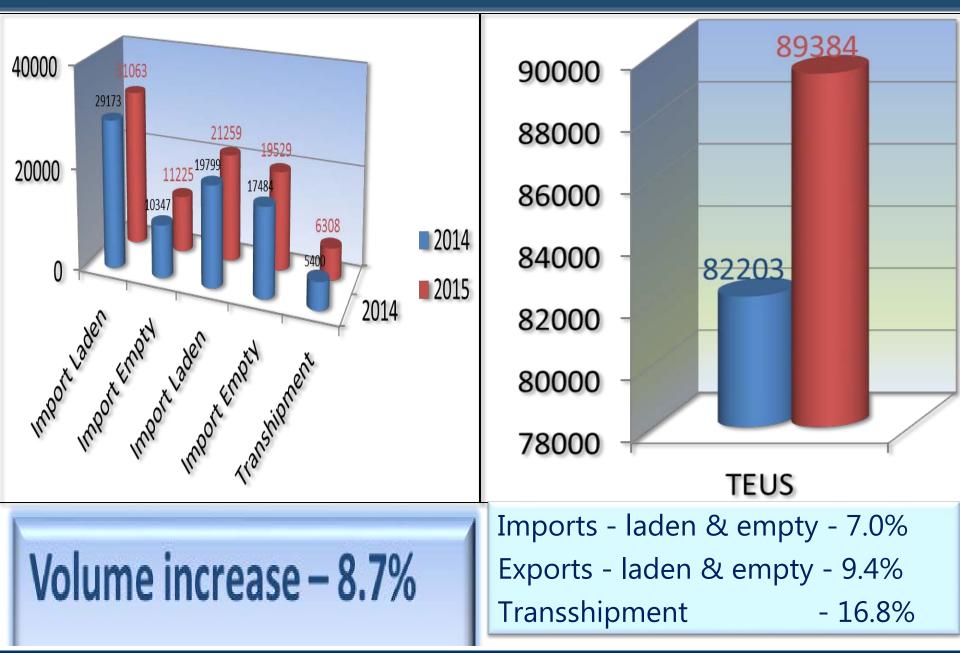
# **Operational Challenges**

- Capacity Constrains
- Port Efficiency
- Surcharges
- Connectivity
- Transshipment

#### FPCL Vessel and Cargo Statistics

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
TOTAL FOREIGN VESSELS								1							
No of Vessels	1123	1597	1369	1183 9187726	1122	1172 10483863	1317	1477	1516	1386 11578741	1530	1670	1491	1823 14789026	
GRT 100 GRT hrs	6292420 1950850	8875667 2482903	8082666 2389139	9187726 2236179	9443770 2789262	10483863 2312745	11572969 2491644	11894243 1913972	12456706 2464198	11578741 2762656	12149831 3047853	14836412 3332658	16155006 3044605	14789026 3312148	
CARGO VESSELS	1950850	2482903	2389139	2236179	2789262	2312745	2491644	1913972	2464198	2762656	3047853	3332058	3044605	3312148	
No of Vessels	606	785	739	782	785	784	852	865	836	739	719	776	766	768	/~~~~~
GRT	5459068	7469712	7005575	8280322	8151918	8361785	9368207	9936397	9922208	9180823	8636293	10011330	10829814	9564012	
100 GRT hrs	1466592	1924167	1847530	1960055	2212885	1924668	2127985	1631796	1941675	2288756	2313947	2380853	2713899	2601856	~~~~~
FOREIGN VESSELS															
Cruise Liners															
Nos:	29	26	22	21	30	36	37	38	44	35	50	57	83	64	
PAX									83600	66500	95000	108300	161500	158000	
GRT	552949	1019849	70097	659572	1046280	1852334	1733168	1635126	2179998	2046266	2738021	4081502	5469323	4591624	
100GRT Hrs Dry Bulk	56032	127146	77755	73110	426112	199384	144445	178353	205933	199963	455770	408739	544405	457182	
Nos	41	49	43	46	42	39	41	36	33	32	34	13	32	36	
GRT	594111	782068	723794	842061	773474	682252	815656	6688895	550980	632883	598663	227918	726282	854988	
100GRT Hrs	461299	591824	545518	662841	494061	336766	727700	173890	420444	503129	609103	275094	592880	882922	~~~~
Liquid Bulk						1					1				
Nos:	210	263	235	226	215	249	284	287	289	279	277	259	281	275	
GRT	1526550	2063327	2111667	25522876	2471412	2492679	3155229	2997576	3056702	3209885	2991653	2952970	3219842	2998814	
100GRT Hrs	292593	377462	356880	310496	487201	360113	378799	432505	434251	589317	396315	539524	508466	501483	
LOLO															
Nos:	282	377	340	423	467	441	474	486	465	384	367	450	399	372	
GRT 100GRT Hrs	2477580 577476	3247077	2853334 641787	3797435 822604	4026121 1063778	4373752	4571811	5105417	5181466 954811	4497951	4290541 1200860	5615101 1375025	4891699 1078971	3931323	
LOLO/RORO	577476	/38345	641/8/	822604	1063778	864408	906834	916803	954811	1086019	1200860	1375025	10/89/1	939666	
Nos:	63	87	111	76	52	51	47	45	41	42	38	41	40	67	
GRT	586031	1006040	1090104	850755	679910	659290	707767	766719	727517	741014	652431	724081	705930	939820	$\sim$
100GRT Hrs	118953	197536	288475	137741	149554	103943	103983	86553	108381	105804	100574	128211	82402	178952	· ~
Car Carrier						1					(				
Nos:	10	9	10	11	9	7	6	9	8	2	3	12	14	18	~~~~~
GRT	274796	371200	226676	267195	201001	158368	135744	397890	405543	99090	103005	490251	654139	839067	~~~ <u> </u>
100GRT Hrs	16271	19000	14868	26373	18281	11804	10669	22045	23788	4487	7095	62131	66338	98833	
Fishing															
Nos:	414	696	522	325	252	312	368	489	589	561	706	718	565	923	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
GRT 100GRT Hrs	137751 290366	213753 382781	197533 344839	128205 158219	111556 109949	149581 77093	99545 54176	136466 67526	187645 100723	166260 131313	564270 148113	200130 127569	225228 92274	242229	
Others	250500	501/01	544055	ISOLIS	105545		54170	07520	100725	191919	140115	127505	52274	00554	
Nos:	74	90	86	55	55	37	60	87	47	51	54	120	77	68	$\sim \sim \sim$
GRT	142652	172353	179461	119627	134016	115607	354049	186154	166855	182574	210747	544459	262563	391161	$\sim \sim$
100GRT Hrs	137860	48809	119017	44795	40326	110566	165038	36297	215867	142624	129993	416365	78869	186116	$\sim \sim \sim$
CARGO THROUGHPUT															
Non Containerized															
Import	141053	165190	145416	114526	116342	72111	46195	57526	53414	67221	84322	138442	24353	35,941	
Export	18793	13074	10644	11758	8808	14017	6548	7638	9058	8393	7998	164119	3321	4922	
Total Containerized	159846	178264	156060	126284	125150	86128	52743	65164	62472	75614	92320	302561	27674	40,863	
Import	660279	742965	930480	914330	947146	962157	1004013	898347	959557	992918	1145013	1122264	1178887	947575	
Export	435718	412041	530301	573627	604979	788687	745382	642109	788769	816526	823330	940959	959347	518400	
Total	1095997	1155006	1460781	1487957	1552125	1750844	1749395	1540456	1748326	1809444	1968343	2063223	2138234	1465975	
Dry Bulk															
Import	193499	200701	214675	338267	320418	301206	285207	263503	267159	225481	261938	787948	314175	374887	
Export	510055	529410	494760	504810	428717	383480	489137	344077	306822	354182	317938	253364	438706	268289	
Total	703554	730111	709435	843077	749135	689186	774344	607580	573981	579663	579876	1041312	752881	643176	$\rightarrow$
Liquid Bulk	567483	589249	526860	623137	587995	503779	590044	566656	634655	643633	615117	584960	735094	734638	
Import Export	258770	589249 304927	526860 228063	623137 217834	255421	221151	590044 211480	213596	624009 189809	642974 181246	615117 185879	584960 186906	735094	734638	
Export Total	258770 826253	304927 894176	228063 754923	217834 840971	255421 843416	221151 814930	211480 801524	213596 780252	189809 813818	181246 824220	185879 800996	186906 771866	156147 891241	186509 921147	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
MV Bulk	020233	334170	, 54323	545571	0-0410	01-930	001524	,00232	010010	02-7220	000330	,,1300	0,51241	221147	
Import													159606	192325	1
Export													6650	7462	1
Total													166256	199787	1
Total Import								1,786,032	1,904,139	1,928,594	2,106,390	2,633,614	2,252,509	2,093,041	
Total Export								1,207,420	1,294,458	1,360,347	1,335,145	1,545,348	1,557,521	978,120	
Total Local								225,476	245,590	239,766	265,802	226,700	183,757	159,188	
Total Import & Export								3,218,928	3,444,187	3,528,707	3,707,337	4,405,662	3,993,787	3,230,349	
LOCAL WHARF															
LOCAL WHARF									100933	103524	125301	81494	70385	70720	
Imports Exports		_							144657	136242	140501	145206	113372	88468	
Total									245590	239766	265802	226700	183757	159188	
PORT USER LICENSE															
No of Port Users								310	296	381	368	359	370	408	
Total PUL Revenue								86113	122663	147270	160943	162265	180571	217762	

#### Cargo Volumes 2014 - Aug 2015



#### FPTL's Continuous Performance Improvement

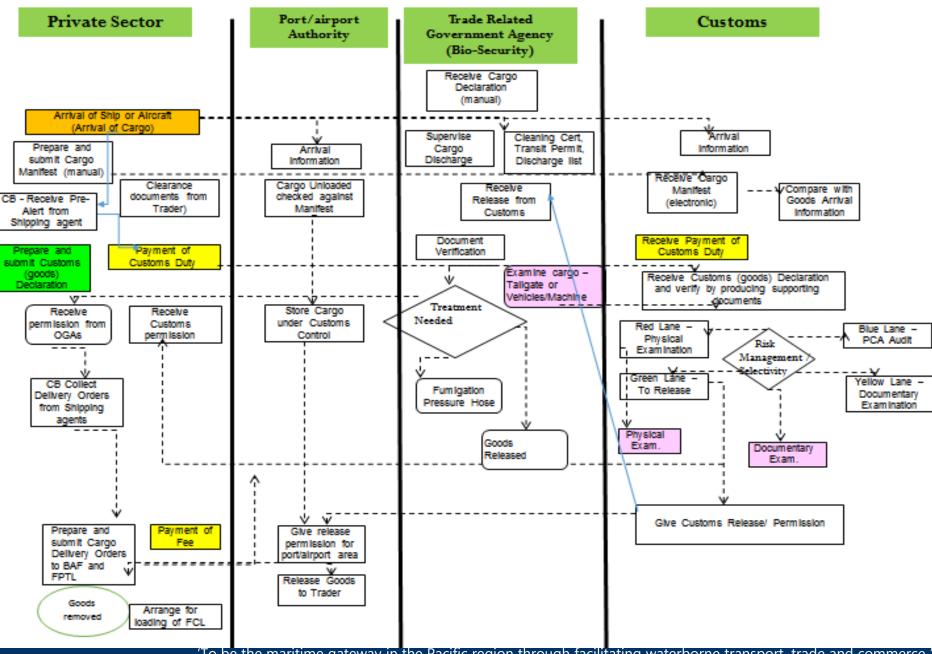


## Conventional Cargo Throughput - 2014 vs 2015 - Jan To Aug

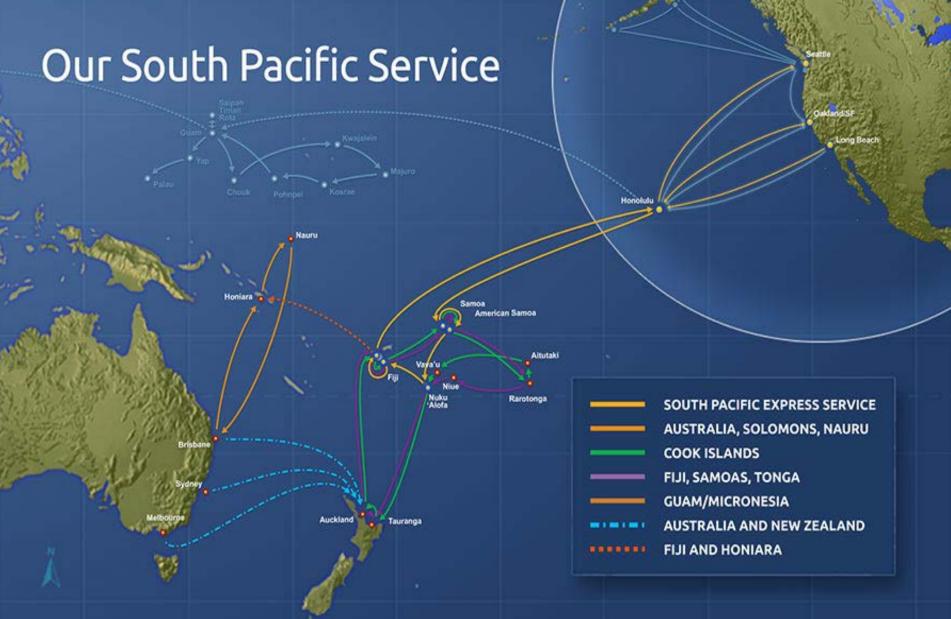
	Port of Suva	
Jan - Aug	Dry Bulk (Tons)	Vehicles (Units)
2014	173044	5228
2015	186755	5751
	Port of Lautok	a
2014	13828	469
2015	24515	1580
	Total	
2014	186872	5697
2015	211270	7331



#### Time Release Study (TRS)



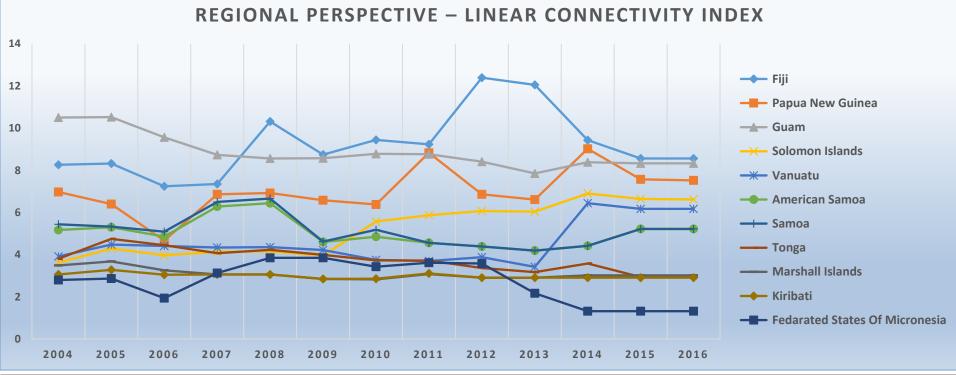
#### Connectivity - MATSON South Pacific Service



### Connectivity - TRANSAM South Pacific Service

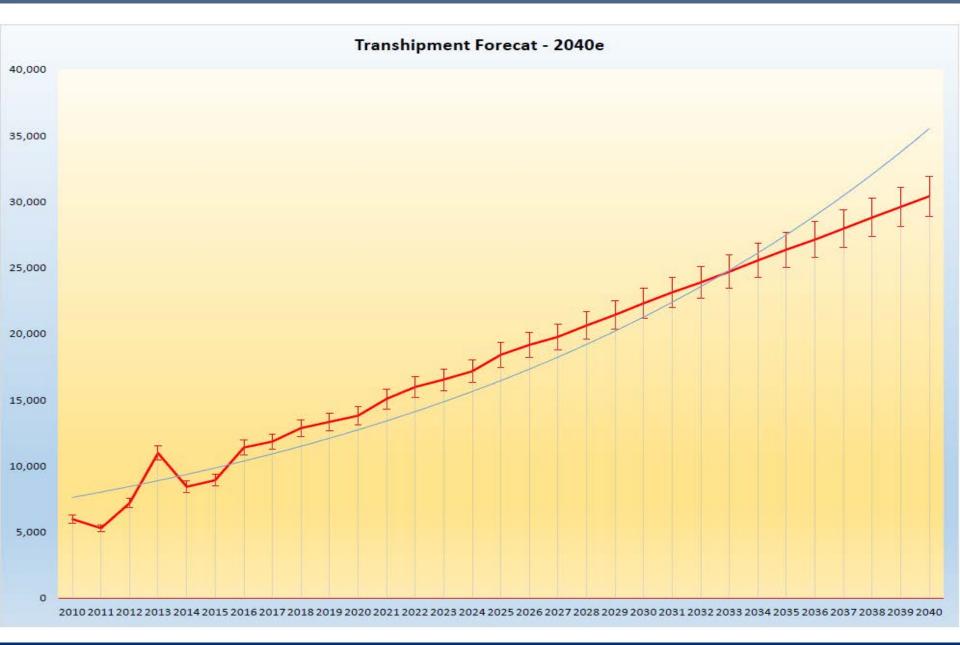
#### Transam (Fiji) Ltd Links to the Pacific NEW ZEALAND - NOUMEA - FIJI - VILA/SANTO SINGAPORE TAHITI TARAWA NORFOLK NOUMEA NAURU **TONGA - SAMOA - AMERICAN SAMOA NEW ZEALAND - FIJI DIRECT** SUVA - WALLIS - FUTUNA - TARAWA MAJURO FUNAFUTI **TONGA - COOK ISLANDS** ASIA TO PACIFIC ISLANDS via AUCKLAND (PIL VESSEL) **AUSTRALIA - FIJI - ISLANDS SERVICE FUTUNA** AUCKLAND NIUE COOK ISLAND SERVICE WALLIS APIA LAUTOKA SANTO PAGOPAGO d PAPEETE VILA SUVA VAVAU NIUE NOUMEA BRISBANE NUKU'ALOFA RAROTONGA NORFOLK MARSDEN PT SYDNEY TAURANGA MELBOURNE AUCKLAND And REF Transam (Fiji) Limited is a Joint venture between:

#### Liner Connectivity Index



YEARS	Fiji	Papua New Guinea	Guam	Solomon Islands	Vanuatu	American Samoa	Samoa	Tonga	Marshall Islands	Kiribati	Federated States Of Micronesia
2004	8.26	6.97	10.5	3.62	3.92	5.17	5.44	3.81	3.49	3.06	2.8
2005	8.32	6.4	10.52	4.29	4.48	5.3	5.33	4.75	3.68	3.28	2.87
2006	7.24	4.67	9.56	3.97	4.41	4.86	5.09	4.45	3.26	3.05	1.94
2007	7.35	6.86	8.73	4.13	4.34	6.28	6.5	4.07	3.06	3.06	3.13
2008	10.31	6.92	8.56	4.16	4.36	6.44	6.66	4.23	3.06	3.06	3.85
2009	8.74	6.58	8.57	3.96	4.22	4.6	4.62	3.99	2.85	2.85	3.85
2010	9.44	6.38	8.78	5.57	3.75	4.85	5.18	3.73	2.83	2.86	3.43
2011	9.23	8.83	8.76	5.87	3.7	4.56	4.56	3.72	3.08	3.11	3.62
2012	12.39	6.86	8.41	6.07	3.88	4.39	4.39	3.37	2.91	2.91	3.58
2013	12.05	6.61	7.85	6.04	3.42	4.19	4.19	3.17	2.91	2.91	2.17
2014	9.43	9.02	8.38	6.9	6.44	4.42	4.42	3.58	3.02	2.91	1.32
2015	8.56	7.57	8.33	6.64	6.17	5.22	5.22	2.94	3.02	2.91	1.32
2016	8.56	7.52	8.33	6.62	6.17	5.22	5.22	2.94	3.02	2.91	1.32 ,

#### Transshipment Forecast for Fiji



## Tariff Review 2015

Key Income Streams
 Fiji Commerce Commission
 Fiji Ports Compliance
 Framework (Proposed)

## **Major Income Categories**

#### Marine Service

Charges relating to various marine related services, e.g.
 Pilotage, tugs, port dues, linesman & lines boat services etc.
 Main charge is Marine Service Charge (MSC), which is a composite rate for in-port pilotage, port dues, linesman etc.
 Some of the services involved are outsourced or subcontracted
 MSC tariff rate increased by 30% in the amended 2015 tariff, prior adjustment was in 2009.

#### Dockage

- Charges levied for vessels being berthed alongside the wharf
- Based on the numbers of hours berthed plus the vessel GRT (size)
- Tariff rate increased by 40% in 2015 for all vessels excluding cruise liners. Cruise liners rate increased by 125%. Prior adjustment was in 2001.
- Due to improving port efficiency, and reducing hours of berthage, some reduction in Dockage income was noted in 2013 and 2014.

#### Wharfage

- A charge on all goods that are loaded, unloaded or transhipped within the port
- This charge is based on the cargo volumes, and levied either per container (both MTs & Full), or for bulk cargo, per MT or cbm.
- Tariff rate increased by 40% in 2015. Prior adjustment was in 2001.

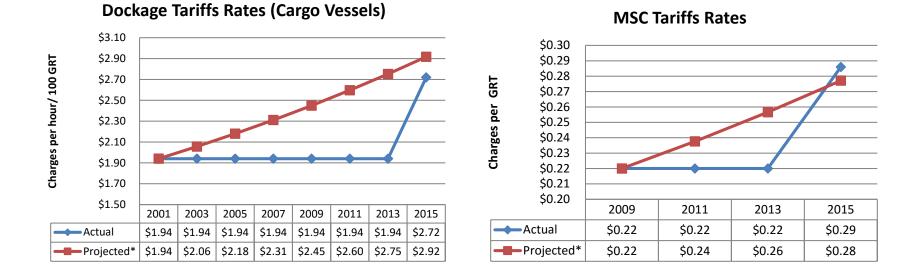
#### Other

Includes various charges such as rental income, commission, dividend, incinerator charge, security levy, sundry income etc.

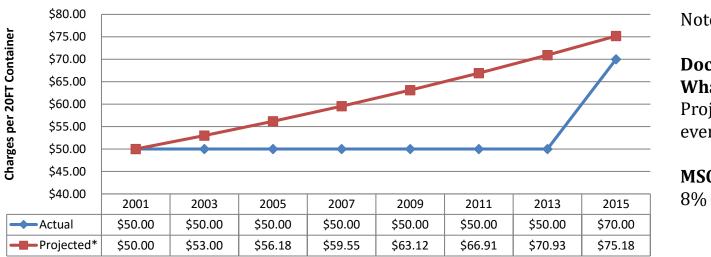
## Tariff Review - Key Charges and Impact

CHARGES	RATIONALE	RATE	ΙΜΡΑϹΤ		
Marine Service Charges	Provision of marine services such as pilotage, etc.	0.286 x GRT + \$1,048	On Ship		
Dockage	Cost for berthing alongside Wharf	\$2.72 per 100GRT/hour (Cargo vessels)	On Ship		
Wharfage	To defray costs of maintaining cargo handling areas	20FT Container (\$70) \$24.50 Consignee \$45.50 Ship/agent	On Importers / Exporters On Ship		
Other Misc. Charge (incinerator, Security, etc. )	ncinerator, Security, Various		On Ship (predominantly)		

## Analysis of Recent Tariff Review



#### Wharfage Tariffs Rates (20 FT Cont)



Note:

#### **Dockage and** Wharfage Charges: Projected at 6% every 2 years

**MSC** : Projected at 8% every 2 years

# Dredging and Reclamation

Comprehensive Dredging Plan

# Dredging plans for Ports of Entry from Ronald Sue, Port Engineer, FPCL.

FIJI Ports Terminal Ltd (FPCL) is investigating the development of a scheduled dredging plan that meets PIANC (World Association for Waterborne Transport Infrastructure) standards for criteria such as dredge depth and navigational channel design, with consultants undertaking the initial scoping exercise for the Ports of Suva and Lautoka.

The harbours of the international Ports of Entry, Suva and Lautoka, are subject to silt buildup on the sea floor. The



The Port of Lautoka is subject to silt build-up.

seasonal storms and cyclones, to which Viti Levu is prone, sees large quantities and river silt, sand mud and being washed down stream and into the harbour. It is essential that the international vessels using the ports' facilities do so safely and with sufficient draft.

Dredging the harbour floors is also an issue for the international Ports of Entry in many of the smaller Pacific Island Countries and Territories, who often find the cost of the exercise is prohibitive.

Arising out of the Pacific Maritime Transport Association (PMTA) 39th conference held in Niue, October 2014, a regional scoping study is underway to assess the feasibility of assisting PMTA member nations in sharing the cost harbour dredging.

## Dredging Plan developed by CARDNO Australia



Immediate dredge requirements estimation									
Port Dredge Quantity									
Lautoka	~260,000 m <sup>3</sup>								
Suva	~2,000 m <sup>3</sup>								
Annual Maintenance Dredging Estimation									
Port	Annual Maintenance Dredging Allowance								
Lautoka	~20,000 m <sup>3</sup>								
Suva	~2,000 m <sup>3</sup>								

#### Budget Estimates for Immediate Dredge and Survey Requirements

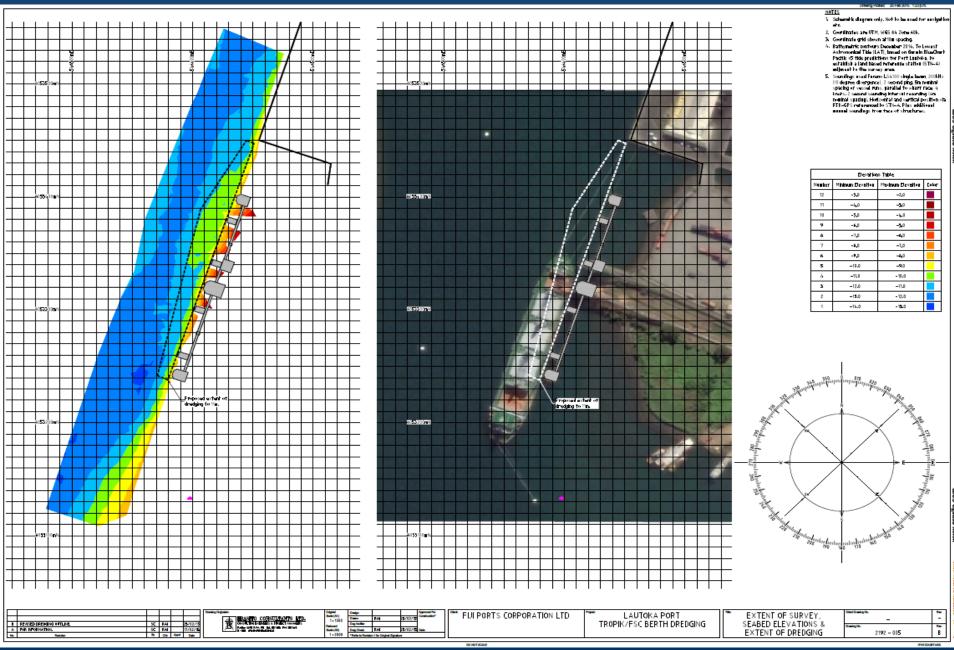
- de	Equipment / Service	Mobilisation (FJD\$)	Demobilisation	Rate (/m³ or /day)	Total (max)
	CSD	FJD\$500,000 - 1,000,000	FJD\$200,000 - 1,000,000	FJD\$11/m <sup>3</sup> FJD\$13/m <sup>3</sup> (if booster req'd)	FJD\$5,406,000
5	TSHD	FJD\$1,250,000	FJD\$1,100,000	FJD\$85,000/day	FJD\$6,175,000
5	Hydrographic Survey (pre & post dredge)			~FJD\$9,500/day	FJD\$230,000

#### Maintenance Provisions and Recommended Timing

Equipment / Service	Annual Costs (FJD\$)	3 Yearly Costs (FJD\$)
Dredging (TSHD)		FJD\$3,455,000
Hydrographic Survey (int'l)	FJD\$185,000	

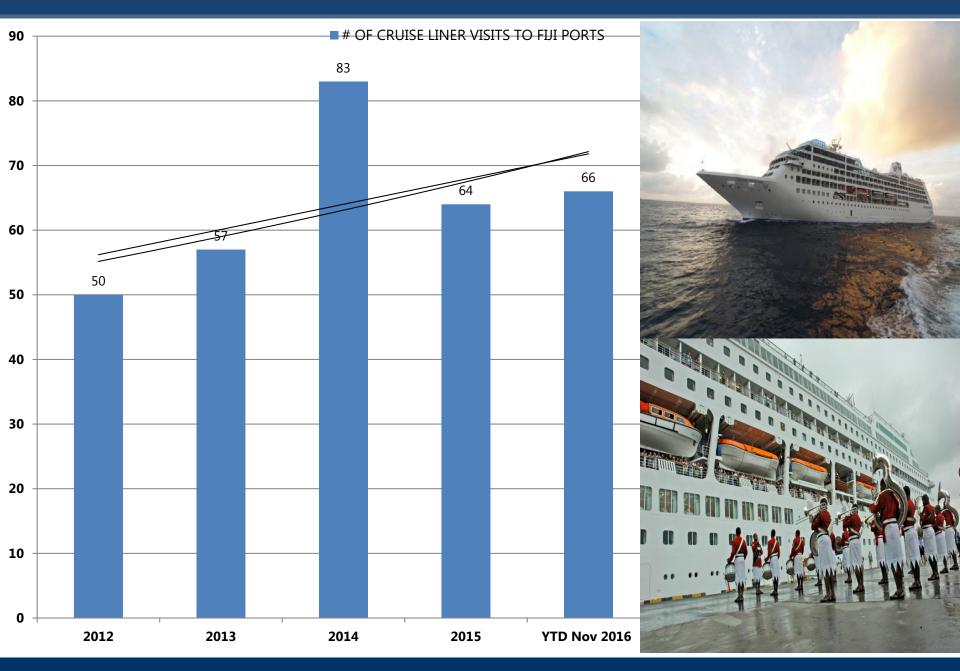
Figure 4-3 Indicative only - Port of Suva two-way concept channel design

## Lautoka Woodchip Wharf Dredging Project

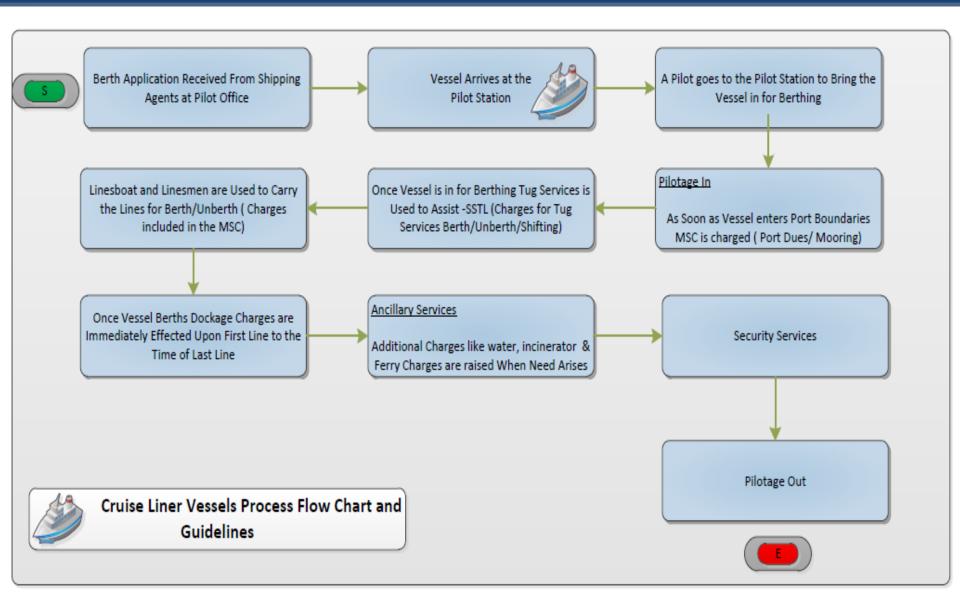


Facilitating Cruise and Tourism Industry

## Cruise Liner Arrivals (2012 - Nov 2016)



#### Cruise Liners- Process Flow Chart



# Key Issues Addressed

- Cargo Handling
- Port Access
- Port Security
- Inter Island Shipping / Local Wharfs
- Derelict Removal
- > Operational Reviews
- Sustainable Port Development/ Operations

## Cost Analysis - Mid Stream Clinker Discharge

#### **COST ANALYSIS - BEFORE**

	Qty	GRT	<u>Rate</u>	Amount
MSC (\$0.2860 x GRT x \$1048.00)	1	17100	0.286	5,917.72
DOCKAGE DRY BULK WORKING (Per 100 GRT x Hrs x \$2.72)	418 hrs	17100	2.72	194,420.16
ANC x 5Days (Per 100GRT x Daily Rates (1-7 @ \$5.00, 8-14 @ \$12.50, 15+ @	1	17100	4275	4,275.00
ANC x 3Days (Per 100GRT x Daily Rates (1-7 @ \$5.00, 8-14 @ \$12.50, 15+ @	1	17100	2565	2,565.00
ANC x 3Days (Per 100GRT x Daily Rates (1-7 @ \$5.00, 8-14 @ \$12.50, 15+ @	1	17100	30580	2,565.00
TUG SERVICE CHARGES FOR 20001-25000 GRT	7	17100	0.06	30,580.66
PILOT ASSISTED SHIFTING (Per GRT x \$0.0600 + 325)	26700		1.365	9,426.34
IMPORT WHARFAGE - DRY BULK				36,445.50

#### TOTAL

286,195.38

**COST ANALYSIS - AFTER** 

	<u>Qty</u>	GRT	<u>Rate</u>	Amount
MSC (\$0.2860 x GRT x \$1048.00)	1	17100	0.286	5,917.72
DOCKAGE DRY BULK WORKING (Per 100 GRT x Hrs x \$2.72)	168	17100	2.72	78,140.00
ANC x 5Days (Per 100GRT x Daily Rates (1-7 @ \$5.00, 8-14 @ \$12.50, 15+ @	0	17100	4275	-
ANC x 3Days (Per 100GRT x Daily Rates (1-7 @ \$5.00, 8-14 @ \$12.50, 15+ @	0	17100	2565	-
ANC x 3Days (Per 100GRT x Daily Rates (1-7 @ \$5.00, 8-14 @ \$12.50, 15+ @	0	17100	30580	-
TUG SERVICE CHARGES FOR 20001-25000 GRT	0	17100	0.06	-
PILOT ASSISTED SHIFTING (Per GRT x \$0.0600 + 325)	0		1.365	-
IMPORT WHARFAGE - DRY BULK				56,070.00

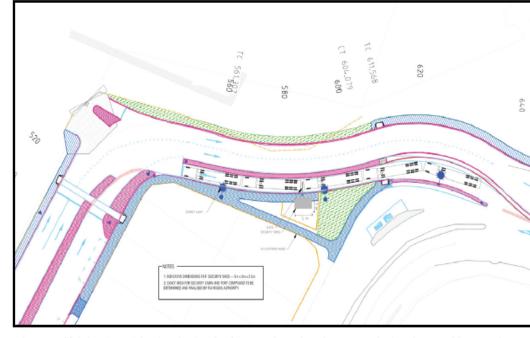
#### 140,127.72

TOTAL

# Changes to protect roads and drivers

CHANGED access to the Port of Suva will protect the upgraded roads in the Central Business District and improve safety for vehicles moving within the wharf area.

With the Harris Road upgrade nearing completion and the upgraded Victoria Parade completed last year,



The MWH Global engineers' drawing showing the changes to be made to the access and exit at the Port of Suva North gate.

the changes are designed to lessen the flow of heavy trucks past the market and through the town, reducing wear and tear on the newly rehabilitated sections of road.

"MWH Global, consulting engineers to the Fiji Roads Authority, has designed a lane that provides a straight run for heavy vehicles from the Walu Bay roundabout into and out of the North gate," said FPCL Port Engineer, Mr Ronald Sue.

"At present, all traffic enters through the North gate and exits via the South. In the future, all cargo operations using heavy vehicles will enter and exit the North gate. Security personnel will monitor all inward and outward bound traffic from a purpose-built gatehouse.

"It can be very hectic in the container storage area when the container ships come in, so the changes will reduce the traffic in

this area thereby improving safety. Small vehicles such as delivery vans, ships' agents, Ports and PTL staff vehicles and other authorised vehicles will be required to enter and leave through the South gate instead of travelling through the cargo and container storage areas," said Mr Sue.

## Closed Circuit Television (CCTV) - 2015

# **CCTV** enhances security

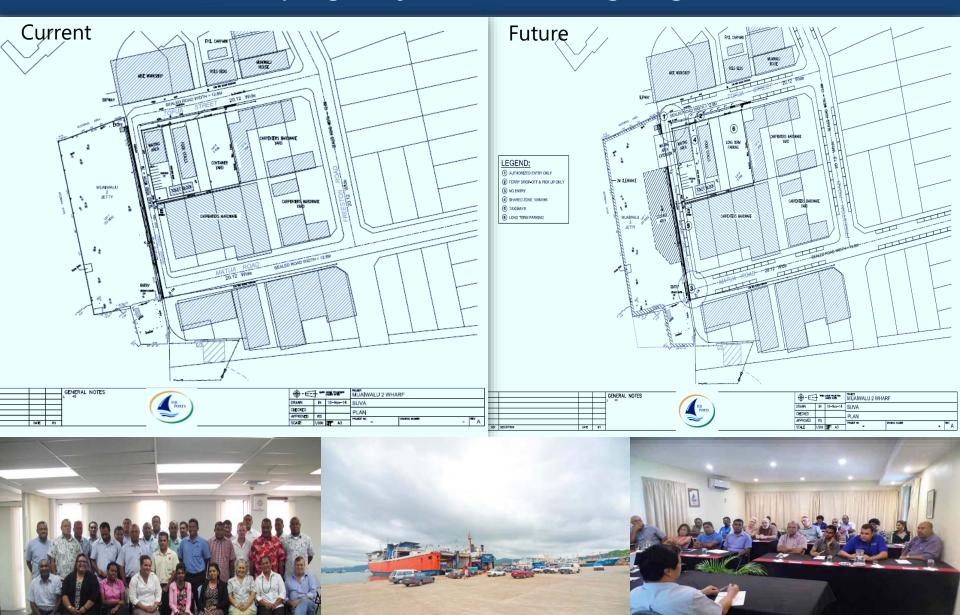
SECURITY at the Ports of Suva and Lautoka has been enhanced with the commissioning of Closed Circuit Television (CCTV) surveillance cameras that will help the two ports maintain compliance with the all-important ISPS (International Ships and Ports Security) Code.

ISPS Code compliance ensures that international vessels continue to bring cruise vessel visitors and transport cargo to and from our shores.



Samuela Tupou GM Customs (left) watches as Mr Issac Fong, CEO/Director Engineering, Professional Electronics Ltd, demonstrates the CCTV in Suva.

## Local Wharf Revamping Project 2015 - Ongoing



Stakeholder Consultation (Suva)

Muaiwalu Wharf 2

#### Stakeholder Consultation (Lautok

### Removal of Derelict Vessels



## FPCL Approach to Continual Improvement - Structured Reviews



SECURITY REVIEW

30 JUNE 2015

Prepared by: RISK & COMPLIANCE UNIT

#### 1.0 INTRODUCTION

Part of FPCL's obligation is to provide a safe and secure environment for people, cargo, and infrastructure assets. In view of this, the security of port facilities is of major importance within and also out of the Port boundaries in regards to the preparedness to deal with external influences and threats.

In order to enhance the security of ships and port facilities, FPCL has implemented the International Ship and Port Facility Security (ISPS) Code. This is basically to protect shipping against the external threats and also to strengthen the current security level for the company.

As such, the security review is an essential and integral part of the process to determine security measures and the areas that needs improvement.

2.0 PURPOSE OF THE REVIEW

The purpose is to review the current security arrangements within the port boundaries and determine the adequacy of risk surrounding and provide recommendations for improvement.

- 3.0 OBJECTIVES
  - The objectives of undertaking Security Review is to:
  - Assess the security of port facilities;
  - Review the regulatory requirements and its implementation status;
  - Review the effectiveness of the current security level;
  - Identify level of risk associated to the port facilities;
     Determine measures for improvement.
- 4.0 REVIEW TEAM COMPOISTION
  - The team comprise of:
  - Chief Executive Officer;
  - Chief Operating Officer;
     Chief Einancial Officer
- Senior Port Facilities Security Officer:
- Risk & Compliance Analyst; and
- Any other relevant parties at CEO's discretion.

#### 5.0 FREQUENCY OF THE REVIEW

The Security Review will be carried out annually and updated each year with corrective actions for implementation.

Page 2 of 5



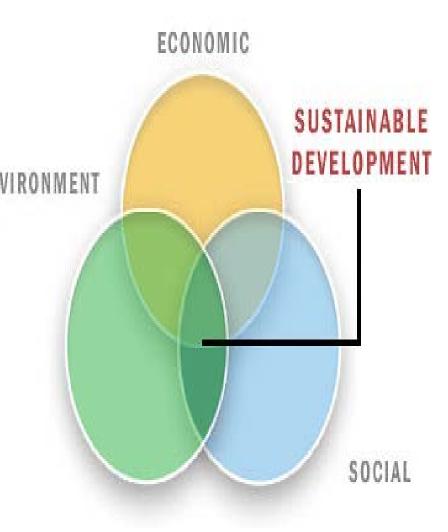
## Sustainability Initiatives at Fiji Ports

#### Current

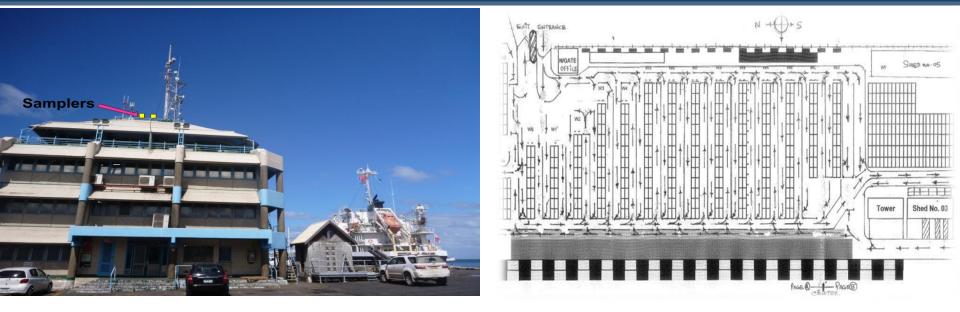
- ✓ Port Environmental Policy
- ✓ Port Green Energy Policy
- ✓ Management of Hazardous and non-Hazardous waste generated by port / Tenants activities
- Sustainability and Stewardship of FPCL Assets
- ✓ Port Energy Policy
- ✓ Port Environmental Management Plan

#### Planned

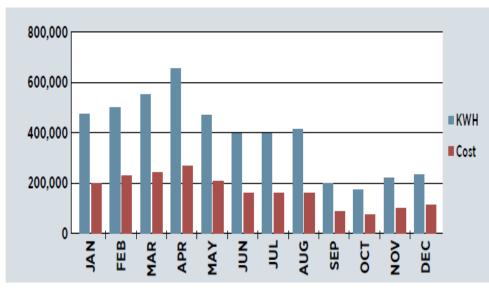
- Port Sustainability Plan
- ➢ Port Energy Plan
- Stakeholder Engagement



## Air Quality, Energy Efficiency and Traffic Management



#### Fiji Port's Energy Consumption 2013

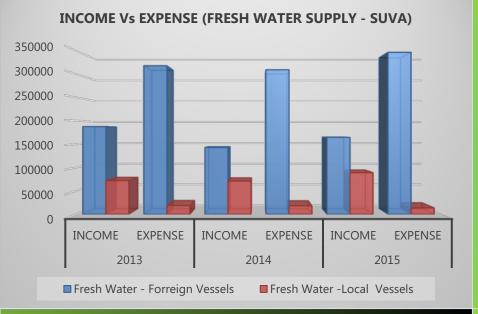




# Operations – Data Collection, Analysis & Improvements (Examples)

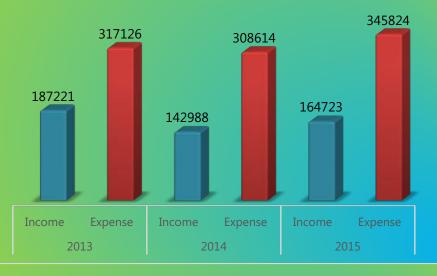
Fresh Water Consumption
Pilot Boat Fuel Consumption

### Freshwater Consumption Analysis



FRESH WATER CONSUMPTION - SUVA (4 QTRS) 99392000 98377000 97462000 95214000 Liters 4000000 8903000 6655000 20000000 5740000 4725000 10000000 May to July Aug to Oct Oct 2014 to Feb to Apr Jan 2015 2015 2015 2015 Local Consumption (Litres)
Overseas Consumption (Litres)

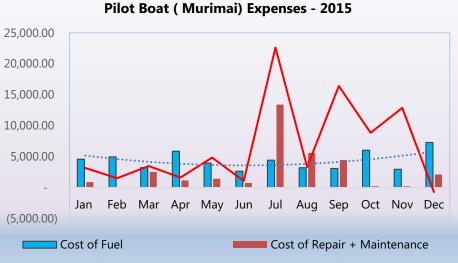
#### INCOME Vs EXPENSE (FRESH WATER SUPPLY - FOREIGN VESSELS - SUVA)



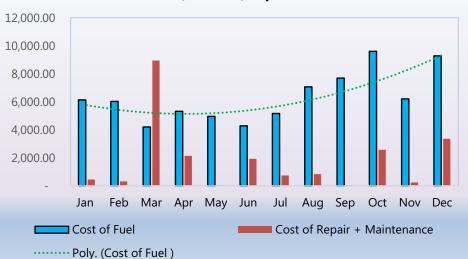
#### INCOME Vs EXPENSE (FRESH WATER SUPPLY - LOCAL VESSELS -SUVA)



#### Pilot Boat Fuel Oil Consumption Analysis



<sup>---</sup> Cost of back-up pilot boat runs ······· Poly. (Cost of Fuel )



#### Pilot Boat (Senibiau) Expenses - 2015

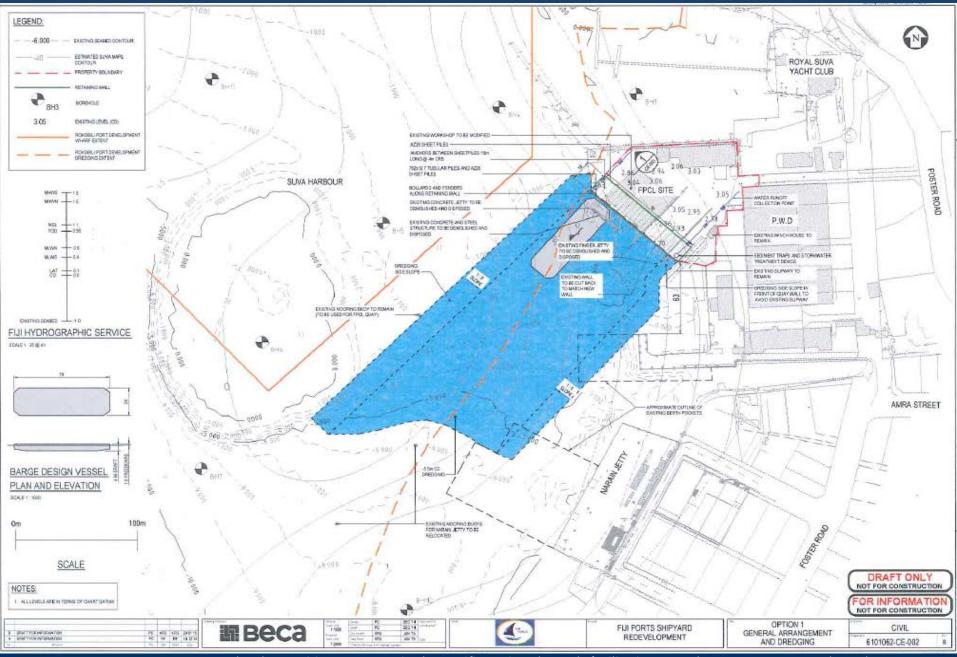
		MURIMAI 2015											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Cost of Fuel	4,563.53	4,941.40	3,213.92	5,857.45	3,937.38	2,627.86	4,414.48	3,190.02	3,074.72	6,010.40	2935.68	7,269.14	52,035.98
Cost of Repair + Maintenance	870.20	8.85	2,509.30	1,138.06	1,413.75	720.38	13,396.49	5,577.35	4,441.09	200.00	177.52	2,092.22	32,545.21
Cost of back-up pilot boat runs	3,150.00	1,493.48	3,456.52	1,610.87	4,829.13	1,050.00	22,600.00	3,300.00	16,401.00	8,839.00	12,860.00	-745	

		SENIBIAU 2015											
	Jan F	Feb I	Mar	Apr	May .	Jun .	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
Cost of Fuel	6,130.50	6,026.10	4,193.88	5,313.07	4,956.60	4,274.32	5,158.57	7,061.29	7,686.80	9,599.97	6202.24	4 9,275.01	<b>75,878.35</b>
Cost of Repair + Maintenance	445.22	305.92	8,942.31	2,134.69	31.22	1,923.73	733.26	824.29	40.00	2,571.04	232.13	3,351.40	0 <b>21,535.21</b>

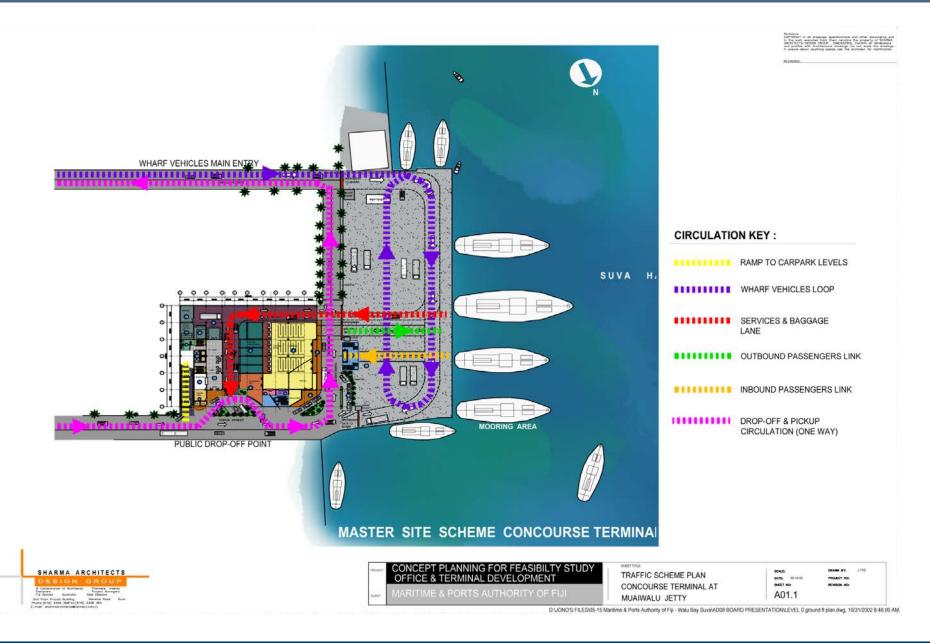
# Other Proposed Projects

- Improvements to Exiting Local Wharf
- > New Local Wharf Development
- Amex Wharf Development Project

## New Local Wharf Development Project



## New Multi Story Building & Muaiwalu 2 Development Project cont.



## AMEX – Proposed Port Facility Development Project in Lautoka

#### **Amex Resources - FPCL Update**

24 October 2013





3-D image of Amex's Exclusive Sole-User Washing & Export Facility at Lautoka Port

#### **Amex Port Facility Progress**

- ✓ Construction of access road complete
- ✓ Site security perimeter fencing erected
- ✓ Water and power connection complete
- ✓ Site office facility complex constructed

#### **Construction Tenders Closing 31 October**

- Seven international & local groups invited
- Site visits will be completed this week
- Award of Contract pre-Christmas

#### **Project Expenditure and Funding Status**

- \$25 million expenditure to date
- Additional \$90 million funding confirmed
- Remaining \$45 million to be finalised in line with construction schedules

#### **Marine Fleet Contract Execution Dates**

- Transport Barges: 31 October 2013 (China Merchants Group)
- Dredge & workboat: November 2013 (IHC Merwede)
- Floating Process Plant: pre-Christmas (IHC Merwede)

# Future Development Projects

- Port Master Plan Development by ADB
- Rokobili Terminal Project

## Ports Master Plan Development



## Ports Master Plan Development Project by ADB

Proposed Schedule of Activities

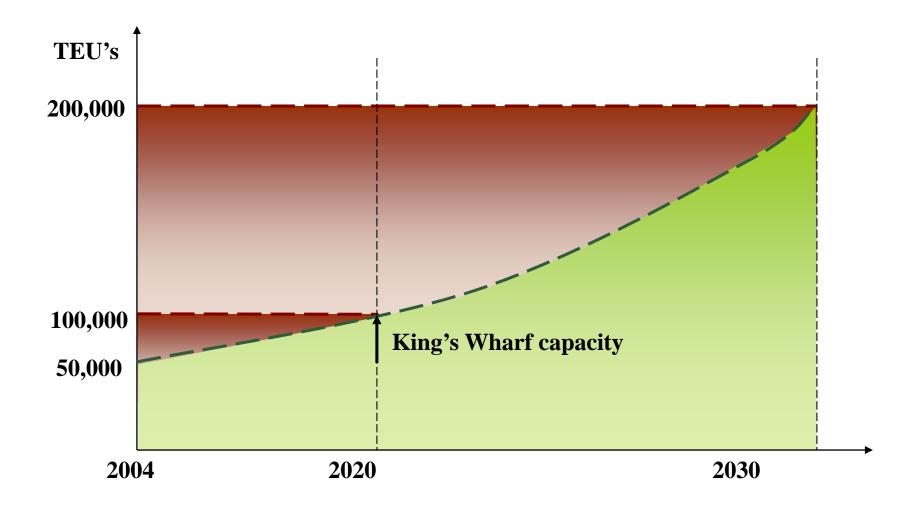
ltem	Proposed Schedule
Inception Report	Completed
Demand Assessment	18 November 2016
Port Utilization Study	18 November 2016
Wreck/Abandoned Vessel	18 November 2016
Recommendations (New	
deliverable)	
7-year Action Plan	25 November 2016
Draft Final Report	31 January 2017
Review of Draft Final Report by	28 February 2017
ADB/Government	
Final Report	17 March 2017

# Proposed Rokobili Terminal Project

- Rokobili Terminal offers savings of five sailing days on the US/NZ run and 7 sailing days on the US/AUS run-coveted to financial quantum, this is quite substantial
- Presents opportunities for savings on operational costs realized from higher efficiency levels
- Savings on sailing time in the servicing of the individual ports in Australia and New Zealand
- The total effect of using Rokobili would be a reduction in total voyage costs

#### The Location





## Stage 1 - Dredge Option



## Basic Data - (Stage 1)

- 227,000 m<sup>2</sup> reclaimed land
- Reclamation approx 1.6 million cubic meters
- Dredge material approx 900,000 cubic meters to get to 13m at chart datum (CD)
- 400 meters of berth at 13m CD
- 295 meters of secondary wharf multi-purposes
- Approx capacity 200,000 TEU
- Estimate \$360m FJD

## Full Development



- 50.5 Ha reclaimed land
- Reclamation approx 2.4 million cubic meters
- Existing site soft sediments to depth of between 30m and 60m over Suva marl (soapstone)
- 800 meters of berth at -13 CD
- Approx capacity 600,000 TEU
- Estimate FJD \$598 million

## Artist Impression of ROKOBILI Terminal





#### **Recent Achievements**





Winners of 2016 Fiji Business Excellence Prize Level Award

# THANK YOU

