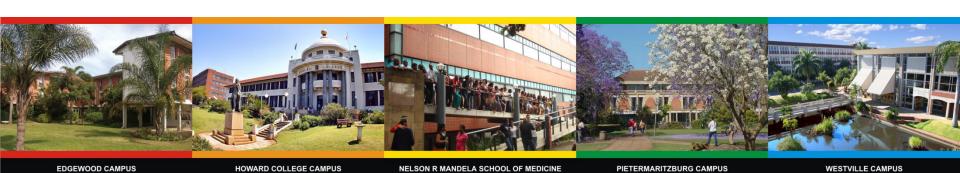
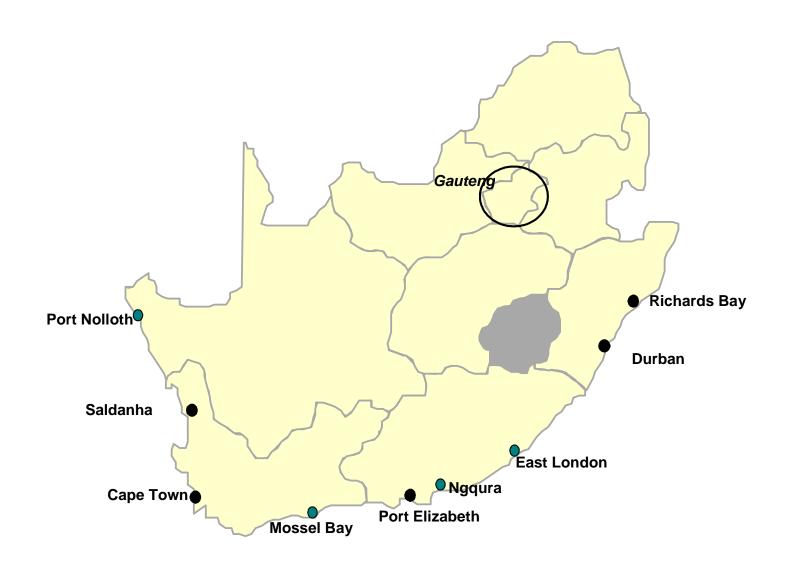


# South Africa's Port Governance and Pricing: Dilemmas and Reforms

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### **Table 1: Port Function Matrix**

Port Models	Port Functi	The world's		
	Regulator	Land Owner	Operator	world's Top 100 ports
1. Public	Public	Public	Public	7
2.Semi- Public	Public	Public	Private	88
3.Semi- Private	Public	Private	Private	2
4. Private	Private	Private	Private	3
South African	Public	Public	Public & Private	-

Source: Adapted from Baird (1997 cited in Song and Lee, 2007); Mouknass (2001) and Chasomeris (2011b).

TABLE 1: Public-Private Interface in Terminal Operations

		Port Operations		
Service	TNPA	SOE-TPT	Private Sector	
Marine Services	100%			
Bulk Cargo Handling		37%	63%	
Break-bulk Cargo Handling		78%	22%	
Container Handling		97%	3%	
Car (on wheels) handling – RoRo		100%		

Source: Ports Regulator 2010:31

## Revenue Requirement =

- + Regulatory Asset Base (RAB) X Weighted Average Cost of Capital (WACC)
- + Operating Costs
- + Depreciation
- + Taxation Expense
- (+) Claw back
- + (-) Excessive Tariff Increase Margin Credit (ETIMC)

	Themes on Port Governance						
	Submissions on the following Review Period						
Requested Tariff Increase	Frequencies	18.06%	13.2%	14.39%	Σ		
Allowed Tariff Increase		2.76%	0%	8.15% <sup>1</sup>			
				5.9%2			
Theme	2009/10-	2012/13	2013/14	2014/15			
	2011/12						
Current structure inhibits global	38	7	31	10	58		
competitiveness of ports, and high port tariffs							
hinder stakeholders' profitability							
Revenue Requirement Model is unjustifiable	36	4	5	8	53		
and arbitrary							
Misalignments with international tariff	13	8	6	8	35		
standards and inconsistent pricing of some							
port commodities - User-pays principle is							
preached but not practiced							
Inefficiency and low productivity of ports	13	13	4	1	31		
No accounting for prevailing economic	24	3	2	1	30		
conditions							

#### **INSPIRING GREATNESS**

Above-inflation increases requested	15	7	1	3	26
annually					
WACC, MRP and betas used to assess		4	10	11	24
risk are all inaccurate					
Non-compliance with national policies and	13	3	1	3	20
inconsistency					
Lack of transparency in reporting or	10	1	2	5	18
justifying tariffs					
TNPA practices do not support job	9	5	1	2	17
creation					
Regulatory Asset Base is not cleaned up	-		3	6	9
and it is overvalued					
Abuse of monopoly power	8	-	-	1	9
Poor service delivery	4	-	-	1	5
Ports as national asset are used for	-	-	2	2	4
profiting, not national economic objectives					

Projects from previous financial	-	3	1	-	4
year are seldom complete					
Lack of consultation with industry	-	2	1	-	3
prior to altering tariffs					
Transition from TNPA to NPA (Pty)	-	-	2	1	3
Ltd is still pending					

Source: Meyiwa & Chasomeris, 2016

Table 2. Historic differences between the figures proposed by TNPA and those allowed by the Ports Regulator, 2010/11 to 2016/17

	2010	/2011	2011,	/2012	2012/2013		
Tariff	TNPA	PR	TNPA	PR	TNPA	PR	
Compone	Prop.	Decision	Prop.	Decision	Prop.	Decision	
nts							
RAB							
(R	45 677	43 165	51 480	48 529	58 490	60 001	
Million)							
WACC	6.02%	5.15%	5.38%	4.71%	8.97%	6.13%	
Marine							
RR	C 0C0	C 020	7.644	C F22	0.645	C 150	
(R	6 868	6 020	7 641	6 523	9 645	6 150	
Million)							
Tariff							
Increase	10.62%	4.42%	11.91%	4.49%	18.06%	2.76%	
СРІ							
Increase	4.3	3%	5.0	0%	5.0	6%	

Table 2. Historic differences between the figures proposed by TNPA and those allowed by the Ports Regulator, 2010/11 to 2016/17

	2013	/2014	2014/2015 2015/2016 2016/		2016/2017			
Tariff	TNPA	PR	TNPA	PR	TNPA	PR	TNPA	PR
Compon	Prop.	Decision	Prop.	Decision	Prop.	Decision	Prop.	Decision
ents								
RAB								
(R Million)	66 315	62 803	64 694	64 485	67 000	66 789	73 483	73 846
WACC	8.33%	5.21%	5.83%	5.47%	5.59%	6.38%	5.31%	4.64%
Marine RR (R Million)	8 419	7 982	8 834	8 032	8 759	8 266	9295	8457
Tariff Increase	5.40%	0.00%ª	14.39%	5.90% <sup>b</sup>	9.47%	4.8% <sup>c</sup>	5.91%	<b>0.00</b> % <sup>d</sup>
CPI Increase	5.7	5.7% 6.1% 4.6%		6% 6.6% <sup>e</sup>		5% <sup>e</sup>		

2014/2015 Tariff	Scenario	Scenario	Scenario	Scenario	Scenario	Scenario
Application	1	2	3	4	5	6
	Recalculati on of Tariff Application	Change: MRP to 6.3	If βd is considered	If MRP = 6.3 and βd is considered	If βa = 0.4, MRP = 6.3 and βd is considered	If βa = 0.35, MRP = 6.3 and βd is considered
WACC	5.82%	5.48%	5.45%	5.11%	4.57%	4.30%
RAB	64 694	64 694	64 694	64 694	64 694	64 694
Plus: Claw Back	118	118	118	118	118	118
Revenue Requirement	10 940	10 717	10 702	10 480	10 129	9 954
Less: Real Estate	2113	2113	2113	2113	2113	2113
FY 2014/15 RR	8 827	8 604	8 589	8 367	8 016	7 841
Tariff Increase	14.29%	11.41%	11.22%	8.34%	3.80%	1.53%
Tariff Increase: Less ETIMC	8.41%	5.53%	5.34%	2.46%	-2.08%	-4.35%



# Table 4. Recalculating the TNPA Tariff Application for 2016/17: Changing Market Exposure Risk Assumptions

	TNPA original Application	If βd is considered	Reduce βa to 0.4	Reduce βa to  0.4 &  Consider βd
Asset Beta (β <sub>a</sub> )	0.5	0.5	0.4	0.4
Debt Beta (β <sub>d</sub> )	0	0.30	0.00	0.30
Equity Beta (β <sub>e</sub> ) (using Hamada)	0.86	0.65	0.69	0.47
Cost of Equity (real) (Ke)	6.87	5.71	5.94	4.78
WACC	5.31	4.73	4.85	4.27
RAB (R Million)	73483	73483	73483	73483
ROC (R Million)	3902.44	3476.53	3561.18	3135.28
$\varphi$ (R Million)	5393	5393	5393	5393
Marine Revenue (MRR) 2016/17 (R Million)	9295.44	8869.53	8954.18	8528.28
ERR2015/16 (R Million)	8571	8571	8571	8571
EVG2016/17 (%)	2.4	2.4	2.4	2.4
Tariff Increase (%)	5.91	1.06	2.02	-2.83 016 · Hamburg, German



#### Conclusion

- RR model may incentivise port capital expenditure (investments), operating expenditure and port prices at levels that are not in the best interests of the country
- RR method does not provide appropriate incentives to reduce costs and to improve productivity in the ports.



#### Conclusion

- For 2016/17, TNPA applied for a 5.91% tariff increase, the Ports Regulator decided on an average of 0% increase in tariffs.
- This article recalculated the TNPA 2016/17 tariff application and shows that if an asset beta of 0.4 is applied, and a debt beta is included, then there should be a tariff reduction of 2.83%.
- If the RR method continues to be used, then the value of the components in the RR model need to be reviewed, including the adoption of an asset beta lower than the present 0.5, and the inclusion of a debt beta.



### Any Questions?





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### There is Hope for South Africa



Pray for South Africa