



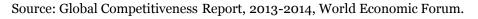
- I. Motivation
- II. Literature review
- III. Methodology
- IV. Results
- V. Conclusions

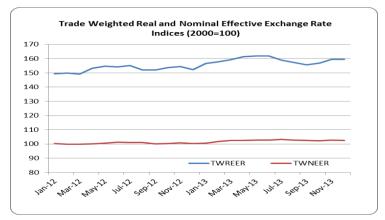
I. Motivation

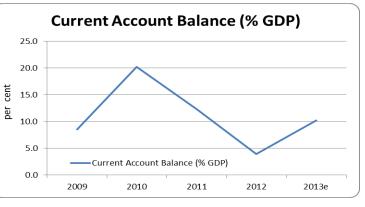
"The available evidence suggests that there has been a decline in competitiveness in the T&T economy....."

Global Competitiveness Index, 2013-2014

Sub-index/ Pillar	Rank*	Score
Basic Requirements		4.7
1. Institutions	94	3.6
2. Infrastructure	52	4.4
3. Macroeconomic environment	52	5.1
4. Health and primary education	63	5.8
Efficiency Enhancers		3.9
5. Higher education and training	75	4.2
6. Goods market efficiency		4
7. Labour market efficiency	89	4.2
8. Financial market and development	55	4.3
9. Technological readiness		3.9
10. Market size	114	2.8
Innovation and sophistication factors		3.4
11. Business sophistication		3.9
12. Innovation	107	2.9
Overall Rank and Score: 2013-2014 (out of 148)	92	3.9
Overall Rank and Score: 2012-2013 (out of 144)	84	4.0
Overall Rank and Score: 2011-2012 (out of 142)		4.0







II. Literature Review

- Competitiveness can be explained as the set of institutions, policies and factors that determine the level of productivity on a country. Porter and Schwab (2008)
- Three Levels of Competitiveness analysis:
 ✓ National Level Lipschitz and McDonald (1991); World Economic Forum-GCI
 ✓ Industry Level Balassa (1965); O'Mahoney and Van Ark (2005)
 ✓ Firm Level Depperu and Cerrato (2008)
- Scope of the Competitiveness analysis:
 - ✓ Competitive Potential
 - ✓ Competitive Process
 - ✓ Competitive Performance

II. Literature Review

Competitiveness in the Financial Services Sector (FSS)

- Financial services can be defined as financial intermediary and support services that are usually provided by banks and other financial intermediaries and auxiliaries.
 - ✓ Examples: services related to deposit taking and lending, letter of credit, credit card services, financial advisory services, financial asset management, stock exchange services, etc.
- Assessing FSS Competitiveness
 - ✓ Performance Indicators (ROA, ROI, etc.)
 - \checkmark Panzar Rose method
 - ✓ Performance indicators (UK Competitiveness Tracker)
- Research Bourne (1998); Guiseppi (2005)

The T&T Competitiveness Tracker

- □ Patterned after the UK Competitiveness Tracker
 - ✓ The drivers of competitiveness were grouped into four categories and consist of twelve performance indicators.
 - ✓ The drivers of competitiveness were as follows: (i) Output and Productivity (ii) Costs (iii) Profitability and (iv) Human Capital according to Martin et. al (1991); Porter (1990).
 - ✓ The proxy indicators focused on measuring the competitive performance of the financial services, energy and manufacturing industries over time.
 - \checkmark Data used were solely from secondary sources.
 - ✓ Proxy indicators are weighted equally.

The T&T Competitiveness Tracker

- □ Patterned after the UK Competitiveness Tracker
 - ✓ The T&T Competitiveness Tracker does not quantify or rank the competitive performance of industries but provides a guide of the outcome of its operations over time.
 - ✓ Each indicator can move in any of three directions namely: up, down or flat. The overall movement of the tracker is based on the balance of indicators rising and falling.

Competitiveness Indicators

UK Competitiveness	T&T Competitiveness Tracker		
Tracker Indicators	Indicators		
UK Financial Services Indicators	Output and Productivity		
Volume of business			
Employment	Real GDP growth		
Trade balance	Labour Productivity		
New authorization's of firms	Industry Share of GDP		
New authorization's of people			
Financial Market Indicators	Profitability		
European IPOs			
European M&A			
European turnover UK equities	Return on Assets;		
UK equities FTSE 250	Investment Income (Reinvested Earnings)		
Credit availability to corporates	Taxes as % Profits		
Derivatives turnover			
Forex turnover			
Central London Indicators	Costs		
GFCI	Operating Expenses/Operating Income		
New City job vacancies	Interest Rate (US Prime)		
Office take up	Unit Labour Cost		
Measures of UK Competitiveness	Human Capital		
Sovereign risk rating	Graduates- Faculty of Eng. & Social Sc.		
Ease of doing business			
Business tax paid % of profits	Costs		
FDI inflow	Corporation Tax rate		
Corruption perceptions index	Operating Expense/Operating Income		

Drivers of Competitiveness	Sectors and their Interpretation				
	Finance	Manufacturing	Energy		
I. Output and Droductivity	Real GDP growth (Finance)	Real GDP growth (Manuf.)	Real GDP growth (Energy)		
	+'ve ↑; -'ve ↓	+'ve ↑; -'ve ↓	+'ve ↑; -'ve ↓		
	Finance as % GDP	Manuf. as % GDP	Energy as % GDP		
	+'ve Δ \uparrow ; - 've Δ \downarrow	+'ve Δ \uparrow ; - 've Δ \downarrow	+'ve $\Delta \uparrow$; - 've $\Delta \downarrow$		
Productivity	Output per worker (Finance)	Output per worker	Output per worker		
	+'ve Δ \uparrow ; - 've Δ \downarrow	(Manuf.)	(Energy)		
		+'ve Δ \uparrow ; - 've Δ \downarrow	+'ve $\Delta \uparrow$; - 've $\Delta \downarrow$		
П.	Operating Expense/Operating	Unit Labour Cost Index	Interest rate (US prime)		
Costs	Income ratio	Inverse (+'ve∆↓;-'ve∆↑)	Inverse (+'ve∆↓;-'ve∆↑)		
00515	Inverse (+'ve∆↓;-'ve∆↑)				
III.	Return on Assets	Manufacturing taxes as	Investment Income		
Profitability	+'ve Δ \uparrow ; - 've Δ \downarrow	% Profits	(Reinvested Earnings)		
Fromability		+'ve Δ \uparrow ; - 've Δ \downarrow	+'ve $\Delta \uparrow$; - 've $\Delta \downarrow$		
	Graduates Faculty of Social	Graduates Faculty of Social	Graduates Faculty of		
IV.	Sciences (First Degree &	Sciences (First Degree &	Engineering (First Degree		
Human Capital	Higher Degree)	Higher Degree)	& Higher Degree)		
	+'ve Δ \uparrow ; - 've Δ \downarrow	+'ve $\Delta \uparrow$; - 've $\Delta \downarrow$	+'ve $\Delta \uparrow$; - 've $\Delta \downarrow$		

Limitations:

- Data limitations.
- □ Selection of indicators.
- □ Lack of industry feedback.
- □ Neglects strategic planning.

Table: Performance of the Competitiveness Tracker(2007-2013)

	Finance	Manufacturing	Energy
Number of Indicators ↑	25	37	20
Number of Indicators ↓	16	5	18
Unchanged Indicators	1	0	4
Competitive Performance	9	32	2

IV. Results

Note:

The competitive performance of an industry provides an indication of the effect of: (i) the inputs into the firms operations, (ii) government policy and (iii) its strategic management on its output (i.e. value added, productivity, cost and profitability).

IV. Results

Table: Movements in the T&T Competitiveness Tracker (1996-2012)

Competitive Performance	2007	2008	2009	2010	2011	2012	2013e
Finance Industry	Δ	0	∇	Δ	0	Δ	0
Energy Industry	∇	Δ	Λ	Λ	∇	∇	∇
Manufacturing Industry	Λ	Δ	Δ	Δ	Λ	Δ	Λ

V. Preliminary Conclusions

- ✓ The overall competitive performance of the manufacturing sector was the most consistent during the review period (2007-2013).
- ✓ The Energy sector displayed the most volatility.
- ✓ The Finance sector seems to be a suitable sector for the diversification thrust since it performed relatively well in most years that the energy sector showed a decline in competitive performance, except in the year 2009.
- ✓ Further work needs to be done on evaluating the competitiveness of industries.



Thank you for your attention! Any Questions?

Please feel free to e-mail your comments to jcotton@central-bank.org.tt