"Implementation of Laffer Curve for Direct Taxes to optimize Malaysian Economic Growth"

15th November 2016

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Supervisor

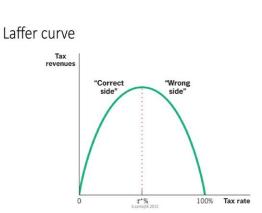
Professor Dr Syed Omar Syed Agil



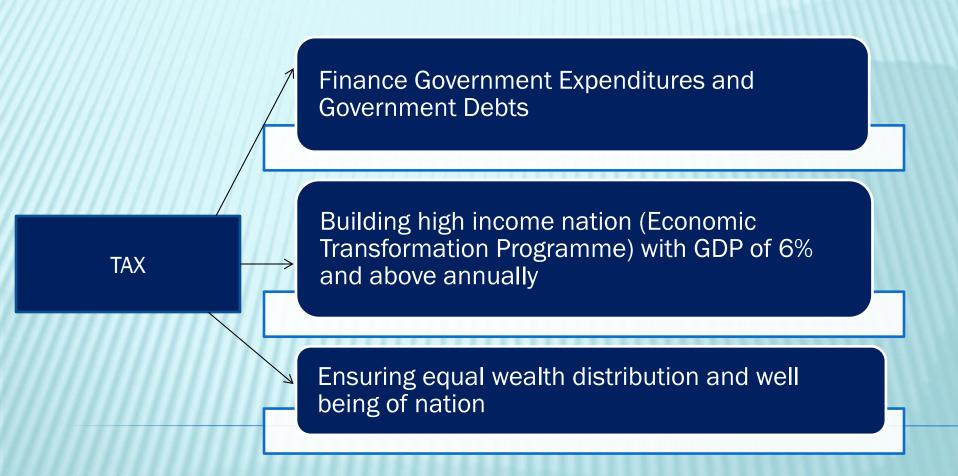
At the beginning of a dynasty, taxation yields a large revenue from small assessments. At the end of the dynasty, taxation yields a small revenue from large assessments.

Ibn Khaldun





INTRODUCTION



BACKGROUND OF STUDY

14th Century

Ibn Khaldun

 Initiated the concept of "higher assessments, revenue is smaller"

 The simple solution to ensure higher tax revenue by lowering tax rates – studied by Laffer, 1981

20th Century

John Maynard Keynes,

Adam Smith

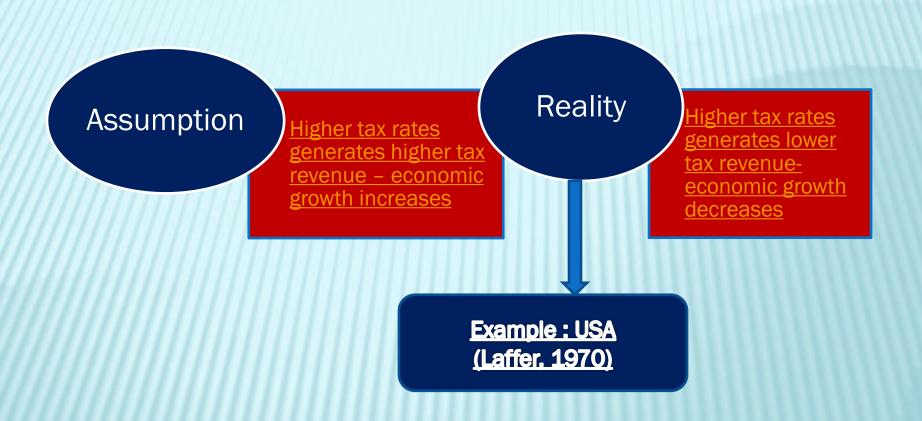
- Increased debt, difficulty in financing government expenditure
- Unsolved stagflation issues resulting in high unemployment, higher inflation over the years
- Policy of tax reduction was introduced (Burfa, Wyplosz,1993)
- Concept of Laffer Curve (Laffer, 1981)

21st century

Karas, Levy-Garboua, Masclet, Montmarquatte

- High debts and low funds to finance government expenditure
- High budget deficits, high inflation rate, lower GDP, high unemployment

GENERAL PERSPECTIVE



SELECTED COUNTRIES - TAX RATES, TAX REVENUE AND GDP GROWTH RATE

Countries	TAX REVENUE (% OF GDP)	INDIVIDUAL TAX RATES	CORPORATE TAX RATES	REAL GDP GROWTH RATE
USA (U.S)	26.9%	39.6%	40%	4.2%
United Kingdom (U.K)	39.0%	45%	23%	1.8%
Australia	30.8%	45%	30%	3.7%
India	17.7%	33.99%	33.99%	5.3%
China	17.0%	45%	25%	7.4%
Hong Kong	13%	15%	16.5%	2.9%
Singapore	14.2%	17%	18%	3.5%
Malaysia	12.2%	25%	25%	1.8%

Sources by Economy Watch, 2011 (Tax Revenue, % of GDP) KPMG, 2013 (Individual/Corporate Tax Rate, 2014) CIA World Fact book (Real GDP Growth)

RESEARCH PROBLEM

Low tax revenue – <u>prohibitive</u> range of Laffer Curve

Escalating government debt due to high levels of borrowings

Budget Deficits > 15 years
due to government spending
higher than government revenue

RESEARCH QUESTIONS

Is there a non-linear effect of individual/corporate tax rates on individual/corporate tax revenue? What is the optimum tax rate for individual/corporate? Is there an effect of individual/corporate tax rate on economic growth? Is there a relationship between individual/corporate tax revenue and macroeconomics variables?

RESEARCH OBJECTIVES

The main objective is to examine how direct tax, mainly individual/corporate tax rates affects tax revenue thus leading to higher economic growth.

The four specific research objectives are as follows:

- 1. To examine the non-linear effect of individual/corporate tax rate on individual/corporate tax revenues in Malaysia.
- 2. To obtain the approximate optimum tax rates for individual and corporate sector in order to generate maximum individual/corporate tax revenue in Malaysia.
- 3. To examine the effects of individual/corporate tax rates on economic growth.
- 4. To examine the relationship between individual/corporate tax revenue and macroeconomic variables.

HYPOTHESIS

Hypothesis	Significant/Not significant
\mathbf{H}_{o}	There is no non-linear effect of individual/corporate tax rates on individual/corporate tax revenue.
\mathbf{H}_1	There is non-linear effect of individual/corporate tax rates on individual/corporate tax revenue
$\mathbf{H}_{\mathbf{o}}$	There is no optimum individual/corporate tax rate.
\mathbf{H}_2	There is optimum individual/corporate tax rate.
$\mathbf{H}_{\mathbf{o}}$	There is no effect of individual/corporate tax rates on economic growth.
\mathbf{H}_3	There is a effect between individual/corporate tax rates on economic growth.
$\mathbf{H}_{\mathbf{o}}$	There is no relationship between individual/corporate tax revenue and macroeconomic variables.
H_4	There is a relationship between individual/corporate tax revenue and macroeconomic variables.

RESEARCH GAP

Studies done in European Countries, USA Optimum Tax Rate

Previous studies examined the optimum tax using tax rates and Government revenue as the variables. Most of the research done is focused on sales tax, income tax and corporate tax. Many countries impose Marginal tax revenue versus GDP to obtain optimum tax rates.

Macroeconomic Variables

Studies used variables such as Inflation, Labour Supply, GDP, profits, capital, FDI against Government revenue, and total tax revenue/government tax revenue

RESEARCH GAP

Study done in Malaysia

This study is the first research done in Malaysia in attempt to

- Determine the optimum tax rate for both individual and corporate tax rate using Individual /Corporate Tax rates vs Individual/ Corporate Tax Revenue
- examine the relationship between Individual/Corporate Tax Revenue versus inflation, unemployment, government debt, government expenditure, exchange rate, base lending rate and current account balance

SCOPE OF STUDY

Tax Revenue	Non-Tax Revenue	Non Revenue Receipt
DirectTax ✓ income tax on individuals ✓ Corporations ✓ petroleum income tax ✓ stamp duty ✓ real property gains tax. IndirectTax ✓ import duties ✓ export duties ✓ excise duties ✓ sales tax ✓ service tax ✓ goods and services tax (GST) that replace sales tax and service tax.	 ✓ issuance of licences and permits ✓ fees for specific services ✓ proceeds from sale of government assets ✓ rental of government property ✓ bank interests ✓ returns from Government investments (including gains from sales of investments) fines and forfeitures. 	✓ repayments and reimbursements such as refunds of overpayments in previous years and repayment of loans from the Federal Government's Consolidated Fund (Revenue Account) received from other Federal Government Agencies and State Governments.

LITERATURE REVIEW

Individual /Corporate Tax Revenue and Individual/Corporate Tax Rate **Optimum tax for Individual/ Corporate Tax Rate Individual/Corporate Tax Rate vs economic growth Individual/Corporate Tax Revenue vs Macroeconomic** variables

RESEARCH METHODOLOGY

Contents discussed are as follows:

- Research Approach, Method and Design
- Theoretical Framework
- Data Collection -Secondary Data, Data
 Measurement, Data Source, Year and number of observations
- Estimating Models
- Testing Testing.pptx

ESTIMATION ANALYSIS

OBJECTIVE 1

To identify the linear/non-linear relationship between individual/corporate tax revenue and individual/corporate tax rates

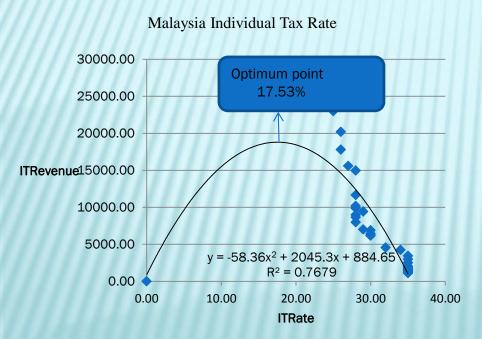
Estimation Analysis Obj 1.docx

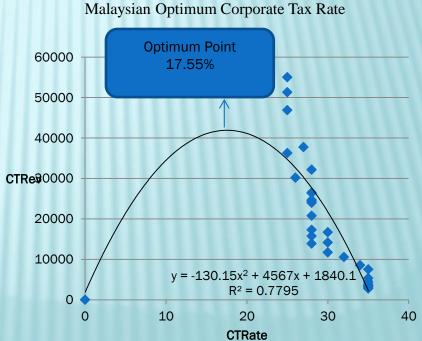
Description	Log-Log	Polynomial
Significant empirical results	Yes and more prominent	Yes
Relationship	Negative	-
Laffer Curve	Static (Sarunas Cekeras, 2012)	Dynamic (Laffer Curve, 1974)
Conclusion	Best Model	-

ESTIMATION ANALYSIS

OBJECTIVE 2 (Ibn Kaldhun, 14th Century, Laffer Curve, 1974)

To obtain the approximate optimum tax rates for individual and corporate sector in order to generate maximum individual/corporate tax revenue in Malaysia.





ESTIMATION ANALYSIS

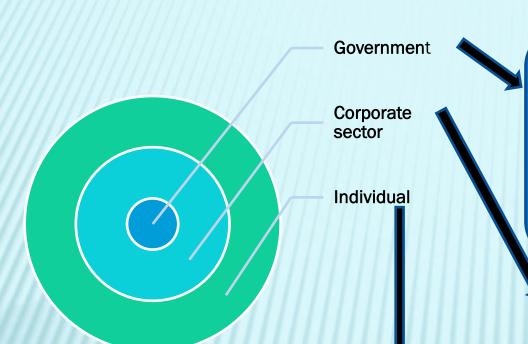
OBJECTIVE 3

To examine the effect of tax rate (individual/corporate) on economic growth in Malaysia.

Estimation analysis obj 3.Docx

Description	Linear-linear	Quadratic	Log-log
Relationship	Negative	ITRate = 34.5% CTRate = 34.1%	Negative
Best Model			$\sqrt{}$
Granger causality			ITRate causes GDP CTRate causes GDP

CONTRIBUTION OF THIS RESEARCH STUDY



Government earn higher revenue – optimum tax rate

MOITR= 17.53%

MOCTR= 17.55%

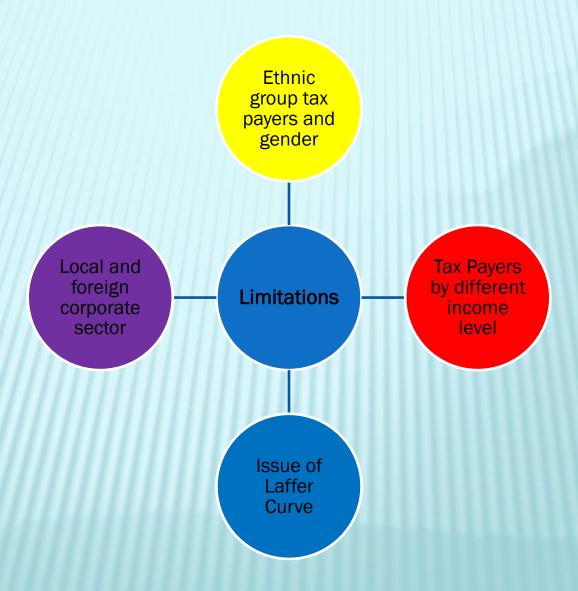
Able to fund expenditures and reduce escalating government debt, CAB deficit, etc.

Achieve high income nation – with high rate of GDP (6-7% annually)

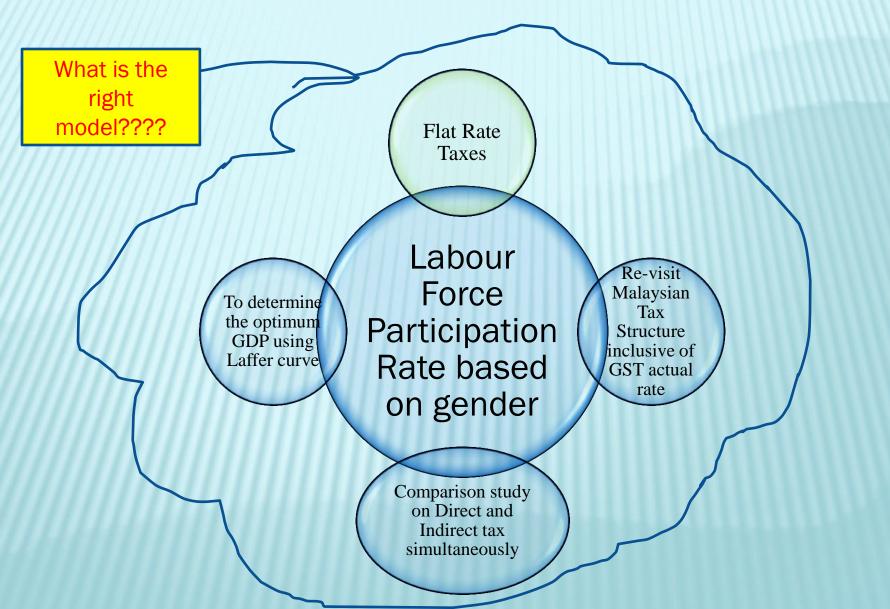
Consumption increases, UN decreases, GDP increases

Lower MOCTR, Investment increases- FDI increases, GDP increases, new businesses/franchises/
SMEs

LIMITATIONS OF STUDY



RECOMMENDATIONS



SPEAKER FOR CONFERENCE

Date :17th November ,2015

Topic :Synergising GST rate with Direct Tax Rate in sustaining economic

growth in Malaysia: Is There A Laffer Curve?

Author : Sherly George, Supervisor : Prof. Dr Syed Omar Syed Agil

Track : Taxation

Venue: MyStats 2015, "Enriching Statistics in an Inter-connected and Digital

World", Sasana Kijang, Bank Negara Malaysia,

Speakers:

1. Puan Tan Bee Bee (Department of Statistics, Malaysia)

2. Ms. Siriporn Muksakunratana (Bank of Thailand)

3. Dr. Juita Mohamad, Institute of Strategic and International Studies (ISIS)

4. Puan Sherly George (Multimedia University Cyberjaya)

Chairperson: Professor Dr. Habshah Midi, University Putra Malaysia

SPEAKER FOR CONFERENCE

Date : 16th-19th November, 2014

Topic :The Relationship between Tax Rates and Tax Revenue in Malaysia: Is there

a Laffer Curve?

Author : Sherly George, Supervisor : Prof. Dr Syed Omar Syed Agil

Venue :International Statistical Institute, Regional Statistics Conference,

"Statistical Science for a Better Tomorrow", Sasana Kijang, Bank Negara

Malaysia,

Track : Taxation

Speakers:

1. Dr Veerinderjeet Singh (Taxand Malaysia),

2. Prof Jeyapalan Kasipillay(Monash University),

3. Sherly George, University Tun Abdul Razak

4. Dicussant: Prof Kim Leng Yeah (MUST)

Chairperson: SM Thanneermalai (Price Water Corporations),

Newsletter V3 – 18th November 2014, Bank Negara Malaysia



Session 22: Enhancing The Malaysian Tax System

Sherly George presented a paper jointly written with Syed Omar Syed Agil arguing that the current individual and corporate tax rate in Malaysia is not generating the best possible tax revenue at its maximum point thus indirectly affecting economic



growth. The paper determines the optimum tax rate using the Laffer curve concept and Optimum Tax Theory models.

In the same session, Jeyapalan Kasipillai presented a paper analysing the "hidden

economy" in Malaysia. The "hidden economy" references activities between individuals that are hidden from authorities and thus escape taxation. Jeyapalan describes the qualitative and quantitative parameters that need to be addressed in Malaysia to yield better estimates of the hidden economy.

CONFERENCE PAPERS

2015 The Relationship between Tax Rates and Tax Revenue in Malaysia: Is there a Laffer Curve? International Statistical Institute, Regional Statistics Conference, Statistical Science for a Better Tomorrow, Sasana Kijang, Bank Negara Malaysia, Track: Taxation IS22 ID362, Author: Sherly George, Supervisor: Prof. Dr Syed Omar Syed Agil

2014 : The Relationship between Tax Rates and Tax Revenue in Malaysia: Is there A Laffer Curve? 3rd International Conference on Accounting, Business and Economics 2014, Empowering Resource Management for Sustainable Future. Track : Taxation, 26th-28th August 2014, University Malaysia Terengganu, Kuala Terengganu. *Author : Sherly George, Supervisor : Prof. Dr Syed Omar Syed Agil*

2012: The Effects of Tax Rates on Tax Returns and Growth: A Case Study on Malaysia. **ISBN 978-967-5705-05-2** 3rd International Conference on Business and Economic Research 2012, 12-13 March 2012, Bandung. *Author: Sherly George, Supervisor: Prof Dr Syed Omar Syed Agil*

2009: "Berjaya Immersion Methodology" organized by NATIONAL HIGHER EDUCATION RESEARCH INSTITUTE (IPPTN), Universiti Sains Malaysia. Theme: Global Higher Education: Current Trends, Future Perspectives, Global Higher Education Forum (GHEF2009), 13-16 Dec 2009, Penang, Malaysia. *Author: Sherly George*

PUBLICATIONS AND JOURNALS

JOURNAL

Journal

Journal Publication 2013: The Effects of Tax Rates on Tax Returns and Growth: A Case Study on Malaysia

Journal of Global Business and Economics, Volume 6, Number 1, January 2013. ISSN 2180-3625 Author: Sherly George, co-Author: Prof Dr Syed Omar Syed Agil

Journal Publication 2013: Key Indicators Influencing Foreign Direct Investment in Malaysia Journal of Contemporary Issues and Thoughts , JCIT Vol 3, 2013

OTHERS

Poster

Poster: Research Excellence in Business, Innovation and Entrepreneurship, 3-4th July 2012, Putrajaya Mariott Hotel, AKEPT, Ministry of Higher Education.

Monograph

Monograph 2012: "Towards an East Asia Regional Entrepreneurship Development Framework", Regional Entrepreneurship Development Symposium (REDS2012), AKEPT, Ministry of Higher Education.

Author: Sherly George

PUBLICATIONS AND JOURNALS

BOOK PUBLICATION

Book Publication

Publication 2012: "Foreign Direct Investment in Malaysia", Lambert Publication, Germany, ISBN 978-3-659-31499-5, *Author: Sherly George*

Publication 2016: "Effects of Direct Tax Rate on Revenue and Economic Growth in Malaysia", Lambert Publication, publishing year 2016. Author: Sherly George and Prof Dr Syed Omar Syed Agil

QUESTION AND ANSWERS

