VIET NAM ANNUAL ECONOMIC REPORT **2016**

FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

Edited by Nguyen Duc Thanh & Pham Van Dai





















CONFERENCE AGENDA

LAUNCHING

VIET NAM ANNUAL ECONOMIC REPORT 2016 "FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH"

Time: 10th May, 2016

Venue: Song Hong Ballroom, Sheraton Hotel, 11 Xuan Dieu Str, Hanoi

08:00 - 08:30	Registration
08:30 - 08:35	Welcome and Introduction
08:35 - 08:45	Opening Remarks by Assoc.Prof. Nguyen Hong Son, Rector of University of Business and Economics, Vietnam National University Hanoi (UEB-VNU)
	Welcoming Remarks by Ms. Claire Ireland, Head of Economic and Development Cooperation, Australian Embassy in Hanoi
08:45 - 09:30	Introduction on the main contents of Viet Nam Annual Economic Report 2016 Dr. Nguyen Duc Thanh, President of Viet Nam Institute for Economic and Policy Research (VEPR)
09:30 - 10:15	Comments from Economic Experts
	1. Mr. Truong Dinh Tuyen, Senior Economic Expert
	2. Mr. Nguyen Xuan Thanh, Director, Fulbright Economics Teaching Program
	3. Dr. Dang Ngoc Tu, Director General, Supervisory Policy Research & Coordination
	Department, National Financial Supervisory Commission
10:15 - 10:30	Tea Break
10:30 - 11:50	Open discussion
11:50 - 12:00	Closing Statement by Assoc. Prof. Nguyen Hong Son, Rector of UEB-VNU
12:00 - 13:30	Luncheon

ORGANIZATION COMMITTEE



VIET NAM ANNUAL ECONOMIC REPORT 2016

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FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

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FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

Viet Nam Annual Economic Report 2016

FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

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Cover image: *Rhythm of Life*, by painter Hoang Duy Vang (2013, *oil on canvas*, 120x180 cm), collection of Nguyen Duc Thanh.

ABOUT VEPR

VIET NAM INSTITUTE FOR ECONOMIC AND POLICY (VEPR), formerly known as Vietnam Centre for Economic and Policy Research, was established on July 7, 2008 as a research centre under the University of Economics and Business of Vietnam National University, Hanoi (VNU). VEPR has legal status and headquarters are located in the University of Economics and Business (UEB), Xuan Thuy, Cau Giay, Hanoi.

VEPR considers its primary mission as carrying out economic and policy research to assist in improving the decision-making quality of policy-making institutions, enterprises, and interest groups by providing insights into the social, political, and economic factors that drive the economic affairs of Vietnam and the region. The main activities of VEPR include (i) providing quantitative and qualitative analysis of changing economic conditions in Vietnam and assessments of their impacts on various interest groups throughout the country; (ii) organizing policy dialogues among policy-makers, entrepreneurs, and other stakeholders to improve solutions to emerging issues; and (iii) conducting advanced training courses in economics, finance and policy analysis regularly and upon request.

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One of the most important contributions that must be mentioned is from *the Board of Advisors and Commentators*, who have participated in many discussions, workshops, and seminars during different stages of the Report. Thanks are due to Mr. Truong Dinh Tuyen, Mr. Nguyen Xuan Thanh, and Dr. Dang Ngoc Tu for their deep analyses and constructive feedback of each chapter of the Report.

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We would like to express our gratitude to the members of the Department of Science and Technology at Vietnam National University - Hanoi and Department for Research and International Relations at the University of Economics and Business for their enthusiastic support during the project.

Despite our efforts, we understand that there may be limitations and even errors in the Report. We sincerely hope to receive comments and contributions from the readers to improve our upcoming reports.

Hanoi May 10th, 2016

On behalf of the Contributors

Dr. Nguyen Duc Thanh

CONTENTS

About VEPR	V
Contributors	vii
Board of Advisors and Commentators	ĩ
Editing Team	xi
Acknowledgements	xiii
Contents	XV
List of Figures	xix
List of Tables	xxiii
List of Boxes	XXV
List of Abbreviations	xxviii
Executive Summary	1
CHAPTER 1: OVERVIEW OF THE WORLD ECONOMY 2015	11
Introduction	11
US kicked off the normalization process	13
Europe Union and Japan	17
Chineses economic slowdown	20
Tottering emerging economies	26
The commodity prices continued to fall	29
Gloomy global trade	34
Global economic outlook 2016 and Implications for Viet Nam	36
References	38
CHAPTER 2: OVERVIEW OF THE VIETNAMESE ECONOMY 2015	41
Introduction	41
Aggregate Supply	47
Aggregate Demand	50
Macroeconomic balances	54
Capital market and money market	58
Property markets	65
Implications	68
References	70

CHAPTER 3: DEMANDS FOR NEW FOUNDATIONS FOR ECONOMIC GRO)WTH:
REMARKS FROM MID-TERM ECONOMIC FORECAST (2016-2020)	73
Introduction	73
Vietnamese economic growth during 2011-2015	74
Economic growth forecast methodology	77
Vietnamese mid-term economic forecast	81
Discussion on selected mid-term socio-economic indicators	88
Conclusion and policy implications	92
References	93
CHAPTER 4: SHIFTING FROM QUANTITY TO QUALITY GROWTH: ROL	ES OF
NEW POLICY PROCEDURE AND ORGANIZATION	95
Introduction	95
The new context of development	96
The catching-up challenge for Viet Nam: The glass ceiling in East Asia	102
Reforms in policy making procedure and organization	106
How to break a solidified system	110
Concluding remarks and policy implications	119
References	122
CHAPTER 5: CHINA'S ONE BELT ONE ROAD INITIATIVE AND	
MULTIDIMENSIONAL IMPACTS ON VIET NAM	125
Introduction	125
The overview of One Belt, One Road	126
Objectives of One Belt, One Road	
Policies and implementation of One Belt, One Road	130
Impacts on Viet Nam	139
Conclusion and policy implications	148
References	149
CHAPTER 6: MID-TERM REFORM IN UTILITY SERVICES MARKET: THE	CASE
OF MUNICIPAL SOLID WASTE MANAGEMENT SYSTEM	155
Introduction	155
Analysis framework	
Overview of municipal solid waste management over the world	
Municipal solid waste management market structure in Viet Nam	

Selected issues related to municipal solid waste management market in Viet Nam	168
Tendency of changes in Viet Nam's MSWM market structure	171
Policy visions	172
Policy recommendations	174
References	176
CHAPTER 7: VIET NAM'S ECONOMIC PROSPECTS 2016 AND P	OLICY
IMPLICATIONS	179
Viet Nam economic prospects in 2016	179
Policy implications	183

LIST OF FIGURES

Figure 1.1. Economic Growth, 2010-2015	11
Figure 1.2. US Non-Manufacturing Index	13
Figure 1.3. US Inflation and Unemployment rate (%, yoy)	14
Figure 1.H1. X Fed's balance sheet size (billion USD)	15
Figure 1.4. Inflation and Unemployment in Euro zone (%)	19
Figure 1.5. China's PMI and NMI	21
Figure 1.6. China's Trade, 2000-2015	22
Figure 1.7. China's trade growth, 2000-2015	23
Figure 1.8. China Real Estate Price Index (June 2010=100)	24
Figure 1.9. China's Exchange rate and Reserves	25
Figure 1.10. BRICS Economic growth	27
Figure 1.11. World Liquid Fuels Production and Consumption Balance (million barre	els/day)
	30
Figure 1.12. Forecast on WTI oil price of EIA 2016 – 2017 (USD/barrel)	31
Figure 1.13. Gold price and USD index	32
Figure 1.14. World Bank Price Indices (2010=100)	33
Figure 1.15. Coffee and Rice Prices	34
Figure 2.1. Viet Nam GDP growth by Industry, 2008-2011 (%, 2010 constant price)	42
Figure 2.2. Economic growth trend	43
Figure 2.3. Viet Nam Economic Performance Index	44
Figure 2.4. Inflation (%, yoy)	45
Figure 2.5. Production growth, 2001-2014 (%, yoy)	47
Figure 2.6. Selected Industrial Indices, 2/2013-12/2015 (% yoy)	48
Figure 2.7. Viet Nam's PMI	49
Figure 2.8. Labor Growth in Industry Sector	50

Figure 2.9. Retail growth (%, yoy)51	
Figure 2.10. Investment by Sector (%, yoy)	
Figure 2.11. Viet Nam Trade Balance (billion USD)53	
Figure 2.12. Budget Deficit (% GDP)	
Figure 2.13. Balance of Payments (billion USD)	
Figure 2.14. Financial Account (2013-2015, billion USD)	
Figure 2.15. Foreign Reserves (billion USD)	
Figure 2.16. Size of LCY Bond Market (trillion VND)	
Figure 2.17. Deposit-Credit Growth (%, ytd)	
Figure 2.18. Inflation and M2 growth (%, yoy)60	
Figure 2.19. Policy Rate (%)	
Figure 2.20. Interbank interest rate (%, MA 3 months)	
Figure 2.21. Open market operations	
Figure 2.23. Nominal Exchange rate (VND/USD)	
Figure 2.24. Real Effective Exchange Rate (REER) and Nominal Effective Exchange Rate (NEER) (January 2011=100)	
Figure 2.25. Stock Trading in HOSE65	
Figure 2.26. Gold prices (million VND/ltael)	
Figure 2.27. Apartment for sale	
Figure 3.1. Sources of Vietnamese Economic Growth, 1992-2014 (%)	
Figure 3.2. Viet Nam's ICOR, 1981-2015	
Figure 3.3. Average ICOR in selected Asian countries, 2011-2015	
Figure 3.4. Growth accounting methodology	
Figure 3.5. Labor force growth, 1991-2020 (%)	
Figure 3.6. Three scenarios for TFP growth, 1992-2020 (%)	
Figure 3.7. Forecast on domestic saving rate, 2013-2020	

Figure 3.8. External debt stocks, long-term private sector in selected countries (%GDP),	
Figure 3.9. External debt stocks, long-term public sector in selected countries (% of G 2012-2014	GDP),
Figure 3.10. Total investment in selected Asian countries, 2000-2015	90
Figure 3.11. State budget deficit excluding and including the principal payment, 2005-20	1591
Figure 4.1. Investment-driven Growth without Productivity Increase	99
Figure 4.2. Stages of Catching-up Industrialization	105
Figure 4.3. Viet Nam: A Proposal for the National Competitiveness Council	122
Figure 5.1. Countries along One Belt One Road	126
Figure 5.2. The provinces and cities of China have launched OBOR promotion policies	133
Figure 5.3. The countries have signed OBOR cooperation agreements with China	134
Figure 5.4. Overseas loan commitments made by 2 largest Chinese banks to OBOR cour	ntries
	138
Figure 5.5. China-ASEAN transport infrastructure development planning	141
Figure 6.1. Structure-Conduct-Performance Model	157
Figure 6.2. MSW composition 2008-2015 (%)	162

LIST OF TABLES

Table 1.1. Fed Rate-hike cycles	15
Table 1.H1. Impact of various Brexit scenarios on UK GDP (2030)	18
Table 1.2. Depreciation of regional currencies against USD from the 10th of August	24
Table 1.3. Capital flows to and from emerging markets, 2013-2015 (billion USD)	28
Table 1.4. World Economic Outlook	37
Table 2.H1. Economic scorecards 2011-2015	45
Table 3.1. Selected economic indicators, 1996-2015 (%)	74
Table 3.2. ARIMA(1,0,0) model for TFP forecast	82
Table 3.3. Kết quả hồi quy 2 phương trình	83
Table 3.4. ARIMA(2,0,0) model for FDI forecast	84
Table 3.5. GDP growth forecast on average during 2016-2020 (%)	87
Table 3.6. Economic growth in each year in normal international conditions (%)	87
Table 3.7. GDP per capita in different scenarios, 2016-2020	89
Table 5.1. New financial institutions created by China linked to OBOR	135
Table 5.2. Contract Value of OBOR Projects by Region to 2015	136
Table 5.3. Others China's financial institutions invest in infrastructure	137
Table 5.4. Denied/cancelled Infrastructure investment projects of China	144
Table 5.5. Chinese non-combatant evacuations (2006-2014)	146
Table 6.1. The solid waste disposal plants in Singapore, 2011	159
Table 6.2. Expected Sources of Solid Waste Management Funding in China, 2002- 202	20 (%)
	160
Table 6.3. Household Expenditure on collecting solid waste in some cities of Viet Nam	
Table 6.4. Cost for collecting solid waste in some cities in the world, 2010	163
Table 6.5. Companies participate in collecting and transporting solid waste in Hanoi, 20	15 164

Table 6.6. Cost of several solid waste disposal areas, 2015 (VND/ton)	.165
Table 6.7. Comparison of costs related to services of solid waste disposal, 2012	166
Table 6.8. Disposal cost in selected cities, 2015	166
Table 6.9. Several recycling craft villages in Viet Nam	167
Table 7.1. Viet Nam Economic Indicators, 2012 – 2016 (trillion, 2010 constant price)	.182

LIST OF BOXES

Box 1.1. Fed and its balance sheet	15
Box 1.2. Brexit and its impacts on UK and EU economy	18
Box 1.3. Trans-Pacific Partnership Agreement (TPP) and Regional Comprehe	nsive Economic
Partnership (RCEP)	35
Box 2.1. Economic scorecards 2011-2015	45
Box 2.2. Impacts of crude oil market changes on state budget	55
Box 5.1. The rise of Piraeus Port (Greece)	139

EXECUTIVE SUMMARY

Viet Nam Annual Economic Report 2016 was completed in the context of Viet Nam's new five-year socio-economic plan implementation 2016-2020, as well as its deeper international integration. However, many signs indicate that the economic productivity has been shrinking constantly since the last five years. Therefore, the Report calls on an urgent demand for establishing new effective foundations for mid-term and long-term growth. It also concentrates on assessing issues related to momentums for mid-term economic growth. Last but not least, the Report makes general observations about the economic outlook for 2016 and suggests the policy in the medium term on which the country should focus. The Reports keeps its established structure, including seven chapters and two appendices. The first two chapters review the performances of the world economy and that of Viet Nam in 2015. The next four chapters are in-depth studies, discussing in detail selective topics under the theme of the Report. Lastly, Chapter 7 provides remarks and forecasts on the economic perspectives of Viet Nam in 2016, as well as suggests a number of policies both relevant to the short and medium terms.

OVERVIEW OF THE WORLD ECONOMY 2015

The world economy in 2015 witnessed the lowest growth rate since 2010 in the context of: (i) slowdown in China and emerging markets; (Ii) lower prices of energy and basic commodities; and (iii) tightening monetary policy in the US, as opposed to the quantitative easing package in other developed economies. The emerging markets (EMs) experienced its fifth year of declining growth, while recovery signs in the developed economies were relatively modest.

In the US, positive indicators of inflation and unemployment led to the decision to raise interest rates by the Federal Reserve for the first time in nearly a decade with interest rates always approximating to 0. The expanding service sector and household consumption in recent years have helped restore stable growth. Meanwhile, the QE package remains unchanged and expanding in Japan and the EU. Despite the positive signs were more pronounced, these regions still face with high unemployment and deflation risks. Employment index improved in Europe though not really stable. However, there still existed considerable disparity of unemployment rates among the member countries. Inflation in the EU and Japan stagnated at around 0% for headline inflation, and 1% when excluding the impacts of energy and food. This is still relatively far from the inflation target of 2% which the ECB and the BOJ previously set.

Strategic rebalancing among sectors continues to be a priority in China, in the context of declining growth along with increasing volatility in the financial sector and real estate. Concerns about the health the world's second largest economy increased in the event of bursting and collapsing stock market in the first half of 2015. In the period 2008-2015, credit was

FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

growing faster than nominal GDP 1.5 times, causing speculations about the possibility of a large-scale debt crisis in China. Besides, the risk of real estate market collapse becomes worrisome when approximately 80% of real estate enterprises listed in China have the financial leverage ratio greater than 3. On the foreign exchange market, reserves continuously declined, forcing PBOC to devalue the Yuan and change the exchange rate management mechanism. This action caused huge volatility on the global financial market, making a series of neighboring countries immediately devalue the currency to protect their export competitiveness.

Meanwhile, developing economies face more difficulties than ever. Economic prospective grew darker after the fifth consecutive year of slowing down. The prices of crude oil and basic commodities remained low, unstable financial markets and the risk of hot capital outflows are the causes of sluggish growth in these countries. The fact that commodity prices fell sharply depressed most developing countries and EMs, which depend on exports of natural resources and raw materials, causing sluggish production and even negative growth in 2015.

There continued the trend of free-fall of prices of energy input and other basic commodities. Economic slowdown in China and other EMs has pushed down material demand on the world market in the last two years. On the supply side, the supply of crude oil from the US soared thanks to its horizontal drilling technology. Its production currently has approximates two major oil-producing countries in the world (Russia and Saudi Arabia). Imbalance between supply and demand has pushed crude oil prices plummet on the world market since the second half of 2014, with no signs of halt. On the property market, the strengthening of the US dollar caused gold prices to continue its downward trend in 2015. In addition, the World Bank index of non-energy commodities dropped by over 16% in 2015. Food prices also fell sharply on the world market in the past year.

Trade scenario becomes bleaker when import demand fell sharply in China and other EMs. Recession in Russia and Brazil; rebalancing in China; currency devaluations; and the stability of the value chain are the main factors leading to shrinking global import demand (World Bank, 2016a). Despite the context of weakening global trade, 2015 saw the successful series of new-generation regional trade agreements (RTAs). This opens up a series of opportunities for participating countries, not only in trade but also in other major aspects of the economy.

OVERVIEW OF THE VIETNAMESE ECONOMY 2015

Vietnam's economy has gone through a challenging 2015 with strong fluctuations of the global economy. However, the country's economic growth stayed high in 2015 thanks to momentum from the industrial manufacturing sector. GDP at constant prices of 2010 reached 6.68%, the

highest for the period since 2008. The industrial sector grew positively at 9.64%, exceeding the figure of 5.08 % and 6.42% in 2013 and 2014.

Meanwhile, prices continue to stabilize in recent years. Consumer price index rose 0.63% on average in 2015, mainly due to an impairment of energy and food. However, inflationary pressures may be greater than in 2016 when the support from external factors weakens, quickly loosening monetary policy along with the price adjustment for public goods and services.

The budget balance continues to be in huge deficit. The decline in some major revenues forced the government to increase revenue from other sources to support the budget. Meanwhile, the trend of increasing fiscal spending had no sign of halting. The authorities seem lacked of determination to cut spending, especially recurrent expenditure, and to restore budget balance. The budget deficit is estimated at 266 trillion VND, equivalent to 6.34% of GDP, much higher than the target of 5% as the Congress set previously. In particular, this situation has been ongoing for many years, which reflected the state of lax fiscal discipline.

Balance of payments could not retain surplus as in previous years. Surplus of current account balance fell as commodity trade balance tended to deteriorate in 2015. Current account balance surplus was only US\$ 1.08 billion, down from US\$ 8-10 billion level in the period 2012- 2014. At the same time, the financial balance could not maintain surplus due to the rise in the portion of "errors and omissions".

Credit demand in 2015 was higher than 2014 and has remained relatively stable in the last months. Total outstanding loans to the economy in 2015 were up 17.3% year to date. Credit growth continued to be lower than mobilization growth in Q4, the gap always stays from 3.5 to 3.7%. This creates a significant pressure to raise domestic interest rates. However, credit tends to shift towards the real estate sector, causing concerns about potential asset bubble in the future.

Regarding monetary developments, the total means of payment by the end of 2015 increased only by 16.23% and reached approximately 6.02 million billion VND. It is noteworthy that the growth rate of money supply in the 2012-2015 period always stayed at over 15% per year, while inflation remained low. Therefore, pressure of increasing money supply may lead to the risk of inflation in later periods. Meanwhile, the supply of currency on the open market was effectively operated in 2015. Due to the trend of net selling of foreign currencies, SBV sterilized with SBV bills. Net absorption of foreign currencies by SBV bill took place frequently during the year, except February due to increased liquidity demand before the Lunar New Year. But even then, the amount of liquidity pumping out was collected thereafter to control the money supply.

FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

On the forex market, exchange rates fluctuated relatively strongly in 2015 in comparison with the previous years. The commitment to keep the rate steady at $2015 \pm 2\%$ from the beginning of the year left the central bank no room for rate adjustment in 2015 after the adjustment in May. However, market expectations on adjustment remained high, making selling price of foreign currencies remain at the ceiling price. Tensions on the forex market were repressed until the CNY devaluation on August 11. This was sparked by strong fluctuations of the exchange rates. On 31/12, the SBV issued Decision No. 2730 / QD-NHNN on the reference rate of VND against USD on a daily basis, instead of the fixed interbank exchange rate before.

DEMANDS FOR NEW FOUNDATIONS FOR ECONOMIC GROWTH: REMARKS FROM MID-TERM ECONOMIC FORECAST (2016-2020)

In the period 2011-2015, Vietnam failed to meet 10 out of 26 socio-economic targets set by the National Assembly, the majority of which are related to productivity of the whole economy. As a consequence, Vietnamese economy during 2016-2020 is expected to face with various challenges in implementing its economic development goals.

The Report on Evaluating the Socio-economic Development between 2011 and 2015 and Orientations for the 2016-2020 period of Vietnamese Communist Party (2016) sets the target of average economic growth in 2016-2020 at 6.5-7%/year. In addition, by 2020, GDP per capital is expected to be around 3200-3500 USD. The content of this Chapter is to assess the capability to achieve this goal.

The authors uses the growth accounting method to forecast Vietnamese economic growth from 2016 to 2020. Accordingly, Vietnamese economic growth is broken down and forecast based on sources of output growth: labor growth, capital growth and TFP growth, which represents the efficiency of the economy. We also construct various scenarios for TFP, external government debt and global economy in order to have the general view on Vietnamese economic growth during 2016-2020 and examine targeted eco-social indicators approved by Vietnamese Communist Party (2016).

There are 27 constructed scenarios for forecasting Vietnamese economic growth. In a baseline scenarios, average economic growth is expected to be 5.56%. Meanwhile, in the most optimistic scenario, where economic efficiency and global economic environment are improved and the government will increase the external government debt rate, Vietnamese economic growth is predicted to be 6.96%/year. And in the pessimistic scenario, the figure is forecast to be 5.09%/year. In the more likely scenarios, the figure is expected to be around 6%/year. This is also approximately the forecast of IMF (2016).

The authors' calculations show that the economic growth target at 6.5-7%/year could be too high, hardly feasible in Vietnamese infrastructural conditions and institutional environment, along with the decrease in global aggregate demand. In addition, Vietnamese income per capita is likely to be between USD 2756-3219 by 2020.

In a 2016-2020 period, capital growth is still expected to play an important role in contributing to the economic growth, especially when foreign direct investment is more likely to soar rapidly thanks to new generation FTAs, such as TPP, EVFTA and AEC. Improving the business environment, removing barriers are most important policy orientations to attract and take advantage of this capital. It is especially crucial and noticeable in the context of limited public investment and the domestic saving rate which was already high compared to income per capita.

In addition, fundamental reforms in state-owned enterprises toward equitization to avoid wasting t resources should also be implemented urgently in order to enhance capital efficiency and total factor productivity. Viet Nam has currently spent uncontrolledly on inefficient operation of public administration sector, reflected by the extremely high rate of recurrent expenditure in total budget expenditure as well as GDP. Administrative reforms should be aimed towards streamlining the bureaucratic system, increasing the public savings rate and resources allocated to private sector. Besides, the education system should carry out market-oriented reforms towards meeting the demand of the labor market; training cost factors should be calculated suitably in accordance with the market mechanism to avoid wasting resources. Accordingly, the government subsidies in the higher education system should be drastically cut down, which allows the market to decide the size and the cost of the higher education services.

REFORMS IN POLICY PROCEDURE AND ORGANIZATION TOWARD A QUALITY GROWTH MODEL

After Doi Moi, Vietnam carried out many progressive policies on freedom and integration, including equitization and privatization. Nonetheless, Vietnamese economic growth has still mainly based on the trade expansion as well as foreign capital (ODA, FDI, foreign currency...) rather than productivity enhancement and innovation. For a more sustainable economic growth in 2016-2020, this chapter recommends policies which should be promoted and improved to enhance the accumulation process of knowledge, skills and industries. Vietnam can absolutely learn such policies from neighboring countries in East Asia. The key feature is the redesign of policymaking and implementation system to reduce the fragmentation among ministries and the uncontrollability in growth model among provinces.

Starting from a very low level, Viet Nam is currently in the first stage of industrialization trying to reach the second stage. Large FDI inflows, a necessary condition for

FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

this transition, have already happened and are continuing to the extent that neighboring ASEAN countries even fret about losing FDI to Vietnam. While Vietnam's short-term goal is attainment of physical expansion of the industrial base (stage 3), it should also simultaneously prepare to avoid a middle income trap and continue to proceed to the next stage (stage 4). For this, front-loaded and well-targeted policy action for upgrading industrial human resources is the key.

Within this dynamic East Asian context, Vietnam must successfully conduct three crucial policies to sustain growth, namely: (i) generation of internal value; (ii) coping with new social problems caused by rapid growth; and (iii) effective macroeconomic management under financial integration. The first produces sources of growth while the second and the third ensure political stability and social support without which industrialization and modernization cannot be sustained.

The research also shows the two serious procedural problems in Viet Nam which are the lack of involvement of the business community and the lack of inter-ministerial coordination in designing and executing industrial strategies and action plans, which together render approved policies ineffective and not implementable. It can even be said that very few policies are actually implemented as stipulated in Vietnam because of delays in preparing implementation details; non-provision of necessary budget, staffing, or equipment; the lack of support from the business community; and the lack of ability or interest among responsible ministries to solve these problems.

To break Vietnamese solidified system, three players that may make institutional reforms possible are identified, including leadership, a technocrat team combined with a national council, and foreign partnership. Accordingly, this chapter suggests a modern policymaking model sticking to the public administration reforms in response to new demands for economic growth of Vietnam, to avoid middle income trap and international integration trap. This model assumes that Vietnam needs more efficient and visionary leadership mechanism, supported by competent technocrats, an effective competitive council as well as effective utilization of strategic cooperation with important international partners.

In addition, the Vietnamese government must select only a few industrial priority areas to be really worked on. It is hoped that the areas—industrial human resource, SME promotion, supporting industries, and industrial clusters—will be given high attention. For issues on SME promotion and supporting industry promotion, it is proposed that MPI should continue to be the lead ministry for SME promotion and MOIT should be the lead ministry for supporting industry promotion for the moment. However, in the long run, when Vietnam's policy capability rises sufficiently and policy scope needs to be expanded, the two functions should be merged under the same ministry. MOIT is perhaps the more suitable ministry for this purpose. At the same time, the internal structure of MOIT must be restructured by reducing

direct policy intervention while enhancing its capabilities in assisting private sector development through technology transfer, human resource development, stakeholder coordination, information collection, and shock management.

Furthermore, to tackle national development issues systematically which one lead ministry cannot cover including a broad range over strategies on industry, trade, investment, technology, taxes and tariffs, budgeting, FDI and ODA..., the establishment of a national council headed by the prime minister (or the deputy prime minister in charge of industry) which supervises and coordinates several key industrial strategies in Viet Nam is also highly recommended.

CHINA'S "ONE BELT, ONE ROAD" INITIATIVE AND ITS MULTIDIMENSIONAL IMPACTS ON VIET NAM

"One Belt, One Road" (OBOR) is an initiative, which was proposed by China in 2013, to focus on improving and creating new trading routes, links and business opportunities with China. This initiative covers more than 60 countries all over Asia, Europe, Africa and the Middle East. OBOR initiative consists of two main components: (1) The Silk Road Economic Belt (or onshore Silk Road) including 3 branches: from China, through Central Asia and Russia to Europe (Baltic area); from China through Central Asia, West Asia to Persian Gulf and the Mediterranean; from China to South East Asia, South Asia and the Indian Ocean. (2) The 21st Century Maritime Silk Road is a sea route runs west from China's East coast to Europe through the South China Sea and the Indian Sea, and east into the South Pacific Ocean.

The research showed that despite of being the most determined policy and the central task in the next 5 years (2016-2022), OBOR is still unclear in terms of implementation schedule. OBOR sets multiple objectives in which economic and military ones are the most concentrated. China has used the multilateral capital mobilization mechanisms such as the Asian Infrastructure Investment Bank (AIIB), The Silk Road Fund (SRF) and other bilateral mechanisms to implement the OBOR initiative since 2013. Several multilateral financial mechanisms were formed in 2014. Besides, since 2013, bilateral mechanisms to invest in infrastructure and energy between China and some countries have been promoted through Chinese banks. On the other hand, ODAs and other oversea development assistance of China have shifted its direction to focus on countries along the OBOR.

South East Asia plays an important role in the OBOR initiative. Since this initiative was launched, China has invested intensively on several infrastructure projects around the world, including the South East Asian region, in which the central task is building the China-Indochina Peninsula economic corridor. The economic corridor focused on supplement and upgrade the ASEAN Highway Network and the Singapore-Kunming Rail Link starting from

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Pearl River Delta to Singapore, through Guangxi, Yunnan (China) to other Indochina countries; construction and expansion the Indochina coastal ports, which are along or at the end of the above transportation system such as Sihanoukvile, Kuantan, Kyaukpyu and Sittwe Port. Such projects not only help the Southeast Asia overcome financial difficulties associated with infrastructure investment, promote economic growth and development but also be expected to create significant strategic values for each country.

With regards to its impacts on Viet Nam, the research indicated that if Viet Nam does not paticipate in OBOR, Viet Nam can itself fall into the infrastructure leverage trap. If China forms an infrastructure system from Yunnan, going through Laos, Cambodia, Thailand, Malaysia and ending at Singapore, the infrastructure system along North-Sound axis invested by Viet Nam may forfeit its current dominance, unless it improves the East-West connectivity. Besides, in the future, huge investment of China in Cambodia and Thailand's ports may induce the same problem to Viet Nam's ports. If Viet Nam joins OBOR, the research points out 3 direct impacts, including: (i) the efficiency and quality of Chinese infrastructure projects gives rise to enquiries about environmental, social, political security issues; (ii) the adjustment in China's foreign policy accompanied by the Chinese labor problem in large-scale projects may poses many challenges for local authorities in management.(iii) the scale of big infrastructure projects, interest rate and lending mechanism with many features may negatively affect Viet Nam's public debt;

To avoid infrastructure leverage trap, the research recommend that Viet Nam should enhance East-West infrastructure connectivity between itself and ASEAN, Thailand-Cambodia-Tay Ninh-Ho Chi Minh city-Vung Tau prioritize transportation route to take advantages of Cai Mep-Thi Vai port.

MID-TERM REFORM IN UTILITY SERVICES MARKET: THE CASE OF MUNICIPAL SOLID WASTE MANAGEMENT SYSTEM

One of the pivotal factors relating to multiple socio-economic fields of Vietnam is the utility services sector. If such sector is organized appropriately and successfully, policy burdens will be reduced while service quality will be raised. Chapter 6 selects the municipal solid waste management market as the major research subjects.

With rapid economic growths and urban expansions, municipal solid waste (MSW) generation is forecasted to nearly double during 2004-2015 period. However, MSW in Viet Nam has not been collected efficiently and hygienically. The report of Ministry of Natural Resource and Environment (2011) shows that the rate of domestic, industrial solid waste collected was just 73.81% in total generated waste. Furthermore, existing technologies in Viet Nam's municipalities are almost out of date and unsanitary.

To find out the fundamental reason for this issue, the report applied the market structure approach to thoroughly analyze municipal solid waste management (MSWM) market with ideas that the level of the market concentration defines market participants' behaviors, then determines characteristics of the market that can be easily seen. Different from purely private services, the MSWM service is a partial public service. In addition, sound MSW management creates positive externalities. Therefore, the market structure ought to have special and noticeable features. Both theoretical and empirical evidences indicate that there should be suitably high concentrations with selected enterprises involved in this market. The government should not directly supply this service, instead playing a role as a rule maker providing fairly competitive environment and verifying the quality of the services provided by suppliers.

Initially, the authors studied the overview of the MSWM market in the world, and analyzed systematically market structures in Singapore and China. Then, the MSWM market structure in Viet Nam was carried out from the collection market to the treatment market. The authors conducted the fieldwork in selected typical cities including Ha Noi, Ho Chi Minh City, Da Lat City, Bac Ninh City, and Lang Son City. Our findings show that the current policy of paying costs of MWSM in Viet Nam does not encourage participants to reduce the amount of generated waste but to increase that figure. This is because market participants such as collection-transportation enterprises and disposal enterprises also receive payment from local budgets based on the weight of generated waste. Meanwhile, the user fees are very low compared to the income as well the MWSM costs; generators do not take enough responsibility for the waste they produce. The research proposes that collection-transportation units must pay tipping fees in disposal plants to dump waste there, and generators should take full financial responsibility for the waste they produce. Those markets can create more incentives for all participants to reduce the disposed waste.

Furthermore, local governments should play its role in terms of designing and supervising the market to create a favorable environment for the collection-transportation unit to be able to collect recyclables and gain more benefits from such activities. The contract agreements between collection enterprises and local governments should be suitable for the enterprise's interests in terms of collected waste volume and contract duration. In collection-transportation markets, SOEs have currently predominated and been required to equitize in large scale to enhance the management efficiency.

The research doubts that existing landfills and dumps invested by governments operate hygienically and effectively. The role of local authorities in directly providing the disposal services should be considered carefully, requiring the transparency on calculating costs of disposing of waste using these disposal plants and comparisons with costs in other private plants in order to enhance the disposal quality and the sustainability of the local budgets.

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Market, which is inherently dynamic, needs discretionary policies to create suitable rules toward the efficiency. To achieve the sectoral goal, the authors proposed the recommendations on designing all MSWM markets, including: collection-transportation, disposal and unofficial recycling markets. The policy implications and the market structure reform approach discussed in Chapter 6 are only exemplary suggestions for reforms in similar public utilities markets, where there are vast rooms for improving the market's efficiency, and at the same time reducing the budget burdens.

VIET NAM'S ECONOMIC PROSPECTS 2016 AND POLICY IMPLICATIONS

In addition to suggested medium-term policies which synthesize policy positions from all specialized chapters of the Report, Chapter 7 provides a two-scenario forecast for macroeconomic situations of Viet Nam in 2016 and discusses in detail some of the short-term policies which are currently implemented.

Growth for 2016 is estimated at 6% for the less positive scenario, and under 6.5% even for the scenario with more favorable conditions. The authors are skeptical of the 6.7% target set by the National Assembly. This can only be achieved by groundbreaking reforms from the new government, which could bring strong stimulus effects for consumer sentiment and create confidence for investors (both private and foreign sector. However, this is unlikely to happen in this year.

Despite favorable factors for growth in the medium term, Vietnamese economy in the short term is unlikely to record high growth rates as the foundations for this have not been firmly established. Besides, Viet Nam can also be affected by negative factors from the surrounding environment as emerging economies in the region are facing with declining manufacturing activities.

Regarding price level, the Report estimates the inflation rate for 2016 at around 5%. In the conservative scenario, inflation would stay at around 4.2%. However, due to the fact that this year's price level could be affected from exogenous factors such as raw material markets in the world (oil prices might stop falling and rise slightly) and climate change (causing disturbance in the food market), and endogenous factors such as the central bank's monetary policy and fluctuations in the aggregate demand, it is not impossible that inflation might reach 5.2% in 2016, surpassing the target of 5 % set by the government.

This year also marks major milestones of Vietnam's integration, along with a new phase of growth facing with many difficulties and challenges. Chapter 7 provides a synthesis of medium-tem policies for Viet Nam in the period 2016-2020, including institutional policies which help create new foundations for Viet Nam's transformation in economic growth model to a more sustainable one.







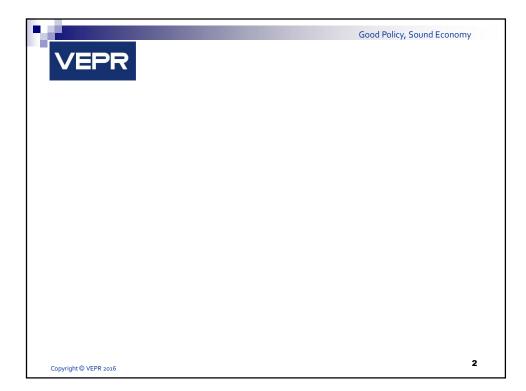


Vietnam Annual Economic Report 2016

FORGING NEW FOUNDATIONS FOR ECONOMIC GROWTH

Ha Noi, May 10, 2016

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- The most important FTAs for Viet Nam have been formed in 2015, which raised the question of whether Viet Nam was ready and well prepared on the economic foundations for this new wave of integration.
- The world economic fluctuations showed that political volatilities and the global economic restructuring process might pose huge pressures on global trade and aggregate demand. This might create unexpected impacts, negatively influencing Vietnam's trade and production, state budget as well as macroeconomic balances.
- The new government has declared strong messages on institutional reforms to integrate and improve the quality of growth and competitiveness; however, there are still many barriers for real implementations of these promises.

VIET NAM ANNUAL ECONOMIC REPORT

2016

FORGING NEW FOUNDATIONS
FOR ECONOMIC GROWTH

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3



Good Policy, Sound Economy

- Chapter 1: Overview of the World Economy in 2015
- Chapter 2: Overview of the Vietnamese Economy in 2015
- Chapter 3: Demand for New Foundations for Economic Growth: Remarks from a Midterm Economic Forecast (2016-2020)
- Chapter 4: Shifting from Quantity to Quality Growth: Roles of New Policy Procedures and Organizations
- Chapter 5: China's One Belt One Road initiative and its multidimensional impacts on Viet Nam
- Chapter 6: Midterm Reform in Utility Service Market: The Case of Municipal Solid Waste Management System
- Chapter 7: Viet Nam's Economic Prospects in 2016 and Policy Implications
- Appendix 1: Statistics on Vietnamese Economy

Appendix 2: Economic Policy in 2015

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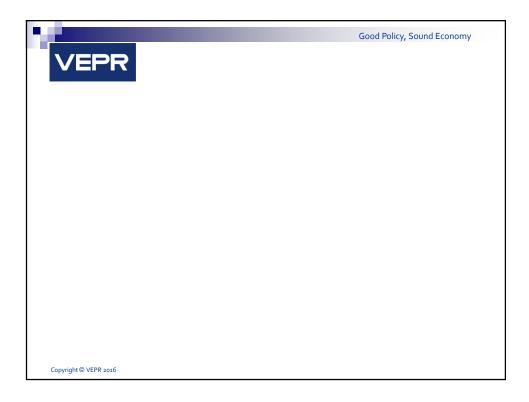
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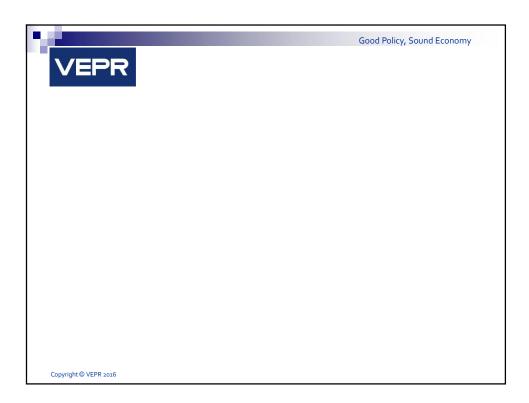
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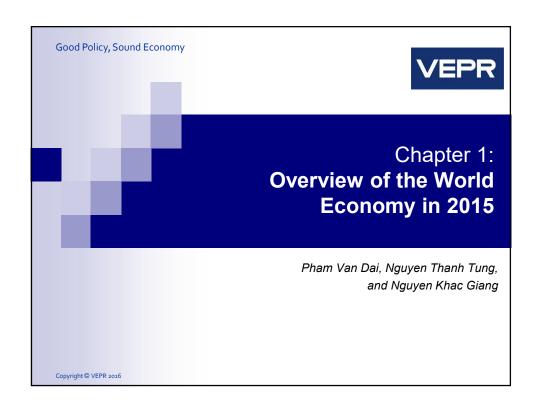
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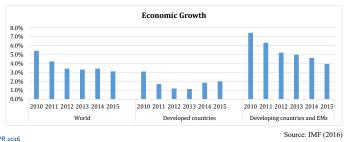


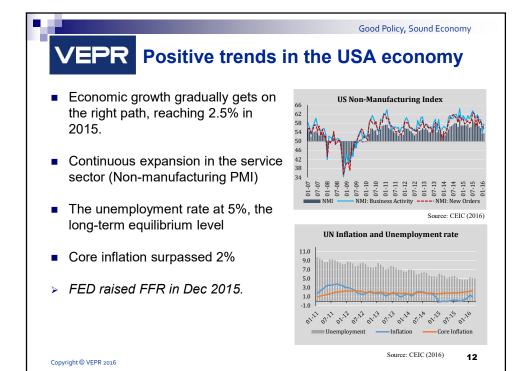
- The world economy stumbled
- The US kicked off the normalization process
- EU and Japan slightly recovered
- A slowing China
- Tottering developing countries and EMs
- Crude oil and commodity prices tumbled
- New generation FTAs

10



- The lowest growth rate since 2010: 3.1% in 2015
- Slowing developing countries and EMs in the fifth consecutive year
- A slight recovery in developed countries







- Interest hike roadmap: reducing 2016's FFR hike target from 1.375 pp to 0.875 pp
- The current scale of Fed's balance sheet at 4.5 trillion USD
 → it is anticipated to take 6 years to bring these figure to the precrisis levels.

FED Rate-hike cycles

	Length (days)	Size (%)
1983-1984	477	+3,250
1986-1987	262	+1,375
1888-1989	332	+3,250
1994-1995	362	+3,000
1999-2000	321	+1,750
2004-2006	729	+4,250
Mean	414	+2,810

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^{re: red (2016)} 13



- Donald Trump (Republican Party) and Hilary Clinton (Democratic Party) have similarities in economic policies:
 - ☐ Conservative trade policies.
 - □ Support easy money policy and a low interest rate

14



- Weak recovery led by aggregate demand. Economic growth reached 1.9% (EA 28) and 1.5% (Euro zone)
- Private final consumption rose by 2.1%, roughly equal to the pre-crisis figure, mainly due to a slump in energy and commodity prices.
- Trade surplus was expanded by dint of a weak Euro: surplus of 477.7 billion USD in 2015.
- Major economies: Spain (3.2%); Netherlands (1.9%);
 Sweden (4.1%); Germany (1.7%)

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15



Good Policy, Sound Economy

- Inflation is around 0% (core inflation at 1%), far from the 2% target → deflation risk.
- The unemployment rate is improved but unequal among member countries (Germany, UK, Austria: ~5%; Spain. Greece: >20%).



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ce: OECD (2016)



- Impacts on trade and investment: 63% of export goods directly to the Europe or under FTAs signed as European members.
- Total welfare of the UK may decrease by -2.33% GDP or increase 1.55% GDP in the corner scenarios.
- Impacts on EU: Weakening business and investment environment.

Impact of various Brexit scenarios on UK GDP (2030)

%GDP	Worst	UK-EU	UK-EU	Best
	scenario	FTA 1	FTA 2	scenario
Initial cost	-2,76	-1,03	-1,03	-1,03
EU budget saving	0,53	0,22	0,22	0,53
Free unilateral trade		-	0,75	0,75
Deregulation	•	-	0,7	1,3
Total efects	-2,23	-0,81	0,64	1,55

Source: Stephen Booth et. Al. (2015)

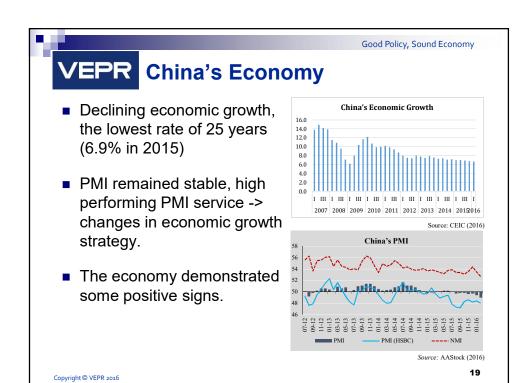
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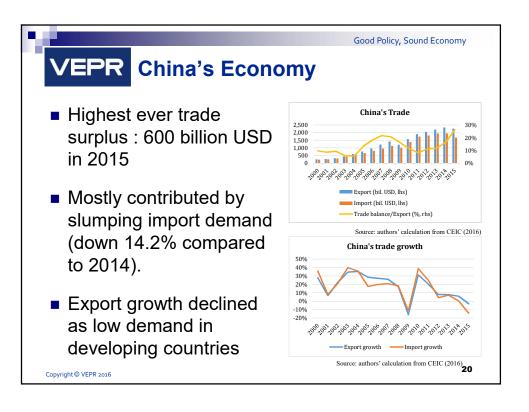
17



Good Policy, Sound Economy

- Unsteady recovery: GDP growth rate at 0.5% in 2015
- Low inflation, liable to encounter deflation
- QQE were maintained: negative interest rates, JPY 80,000 billion stimulus package
- > This is an unsteady and short-term recovery







- Doubts on the soundness of Chinese Economy:
 - ☐ The stock market: broke down in the middle of 2015
 - ☐ The possibility of a debt crisis? Booming credit demand, mainly from the private sector → not really a big threat
 - ☐ The possibility of an asset bubble? The asset bubble was on the supply side > not intimidating



Good Policy, Sound Economy

- Foreign currency reserves has constantly decreased since the middle of 2014. The overall decrease was USD 512.7 billion in 2015
- 11/8: big CNY devaluation as a change in the foreign exchange management mechanism toward more flexible → shocks in the world financial market.

China's Exchange rate and Reserves 4000 3500 6.4 6.3 3000 2500 6.1 01-13 07-13 01-14 07-14 01-15 07-15 Reserves (bil. USD, rhs)

Exchange rage (NDT/USD, lhs)

Source: FRED (2016), CEIC (2016) Copyright © VEPR 2016

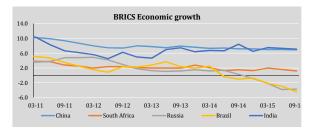
Depreciation of regional currencies against USD from the 10th of August

		•
18/8	10/9	30/9
+1,87	+2,68	+1,90
+2,01	+5,79	+8,16
+4,83	+10,69	+13,23
+0,02	-3,34	-3,56
+1,30	+2,39	+2,61
+1,44	+2,16	+2,16
+1,22	+3,06	+3,57
+1,21	+3,04	+3,06
+2,95	+2,70	+2,35
	+1,87 +2,01 +4,83 +0,02 +1,30 +1,44 +1,22 +1,21	+1,87 +2,68 +2,01 +5,79 +4,83 +10,69 +0,02 -3,34 +1,30 +2,39 +1,44 +2,16 +1,22 +3,06 +1,21 +3,04

Source: authors' calculation from CEIC (2016)



- Unstable politics in Brazil and sloping oil prices induced negative economic growth in both Brazil and Russia in 2015
- South Africa also experienced a declining economic growth rate, only 1.3% in 2015
- India remained the economic growth rate above 7% → the highest rate among developing countries and EMs.



Source: OECD (2016), CEIC (2016)

23

24

VEPR ASEAN-5

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- Thailand: Unstable politics, low economic growth rate at 2.8% compared to the 3.7% target set in early 2016.
- Malaysia and Indonesia: declination in exports, especially commodities → declination in economic growth.
- The Philippines and Viet Nam: maintained/enhanced growth momentum from 2014



- The highest hot money outflow since 1980: 735 billion USD in 2015
- Mainly in EMs in the Asia (including China)

	Total			Emerging Asia			
	2013	2014	2015	2013	2014	2015	
Non-resident capital inflows							
- Private	1282	1045	231	670	615	-24	
- Official	32	42	63	8	6	6	
Resident capital outflows							
- Private	-985	-1039	-824	-506	-604	-543	
- Reserves*	-541	-121	529	-455	-192	390	
Net capital flows							
- Excl. reserves	329	48	-531	172	10	-561	
- Plus erros/omiss	339	-111	-735	270	-98	-777	
* A positive sign (+) implies an reduction, a negative sign (-) an increase							

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Source: IIF (2016)

25

■ Crude oil price slumped due to the supply-demand imbalance. The balance is expected by the end of 2017 (According to EIA).

■ Forecast on WTI oil price of EIA 2016 – 2017 (USD/barrel)

■ World Liquid Fuels Production and Consumption Balance (million barrels/day)

■ World consumption (USD/barrel)

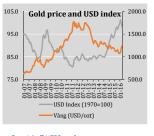
■ World consumption (USD/barrel)

■ World consumption (IIs)

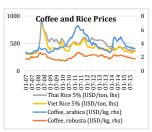
■ World co



- The USD appreciation caused a downward trend in the gold price in 2015.
- Both non-energy and energy price indices fell dramatically







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Source: World Bank (2016b)

27

VEPR Global trade

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- Import demands sank in China and other EMs
- Trade volume grew by 2.6%
- New-generation FTAs:
 - □ TPP: 12 countries; 38%GDP, 25.5% global trade
 - □ RCEP: ongoing negotiation: 16 countries; 3.5 billion people; 30% GDP; 26% global trade
 - □ Some FTAs signed by Viet Nam: EVFTA; AEC;...

28

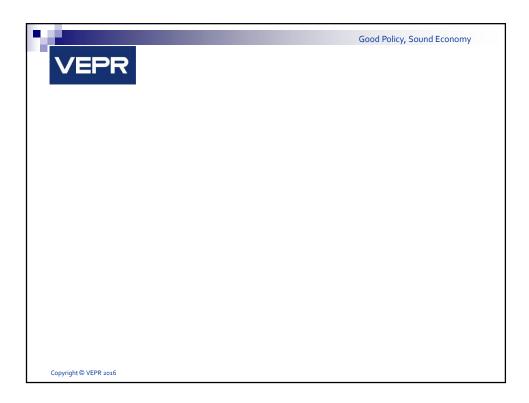


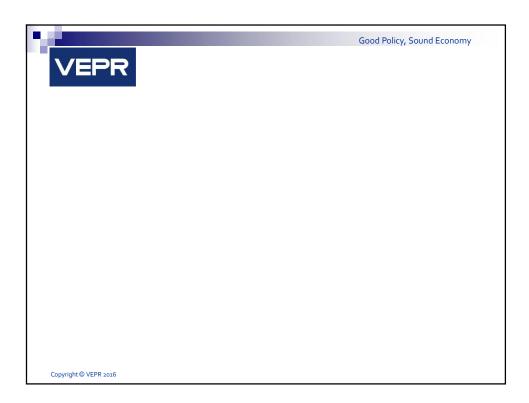
	WEO* (4/2016)		GEP** (1/2016)		WESP*** (2016)	
	2016р	2017p	2016р	2017р	2016р	2017p
World	3.2 (-0.2)	3.5 (-0.1)	2.9 (-0.4)	3.1 (-0.1)	2.9 (-0.4)	3.2 (-0.2)
Advanced Economies	1.9 (-0.2)	2.0 (-0.1)	2.1 (-0.2)	2.1 (-0.1)	2.2 (-0.3)	2.3 (0.0)
United States	2.4 (-0.2)	2.5 (-0.1)	2.7 (-0.1)	2.4 (0.0)	2.6 (-0.4)	2.8 (-0.1)
Japan	0.5 (0.0)	-0.1 (-0.4)	1.3 (-0.4)	0.9 (-0.3)	1.3 (-0.7)	0.6 (+0.3)
United Kingdom	1.9 (-0.3)	2.2 (0.0)	2.4 (-0.2)	2.2 (0.0)		
Euro Area	1.5 (-0.2)	1.7 (0.0)	1.7 (-0.1)	1.7 (+0.1)	1.9 (0.0)	2.0 (0.0)
Emerging Market and Developing Economies	4.1 (-0.2)	4.6 (-0.1)	4.8 (-0.6)	5.3 (-0.2)	4.3 (-0.6)	4.8 (-0.5)
Brazil	-3.8 (-0.3)	0.0 (0.0)	-2.5 (-3.6)	-1.4 (-0.6)		
Russia	-1.8 (-0.8)	0.8 (-0.2)	-0.7 (-1.4)	1.3 (-1.2)	0.0 (-0.8)	1.2 (-0.1)
India	7.5 (0.0)	7.5 (0.0)	7.8 (-0.1)	7.9 (-0.1)	7.3 (-0.4)	7.5 (-0.4)
China	6.5 (+0.2)	6.2 (+0.2)	6.7 (-0.3)	6.5 (-0.4)	6.4 (-0.2)	6.5 (-0.4)
ASEAN-5	4.8 (0.0)	5.1 (0.0)				
Indonesia	4.9 (+0.2)	5.3 (+0.2)	5.3 (-0.2)	5.5 (0.0)	5.4	5.6
Malaysia	4.4 (-0.3)	4.8 (+0.3)	4.5 (-0.5)	4.5 (-0.6)		
Philippines	6.0 (0.0)	6.2 (-0.1)	6.4 (-0.1)	6.2 (-0.1)	6.4	5.5
Thailand	3.0 (+0.5)	3.2 (0.0)	2.0 (-2.0)	2.4 (-1.6)	3.7	3.9
Viet Nam	6.3 (-0.2)	6.2 (-0.2)	6.6 (+0.4)	6.3 (-0.2)		
ight © VEPR 2016 Source: *	IMF (2016) Th	World Bank (2 e différences	1016a), "Unite from the late	ed Nation (2016 st forecast a	re shown in i	narentheses

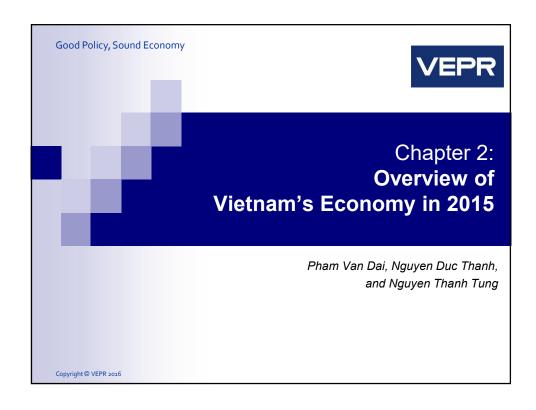
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VEPR World Economic Outlook 2016

- Impacts on Viet Nam:
 - □ Declined exports due to weakening trading partners.
 - □ Inflation rises
 - ☐ Trade and investment boom by TPP
 - ☐ Global money market (FFR, the value of CNY,...) might impact on domestic financial and money markets







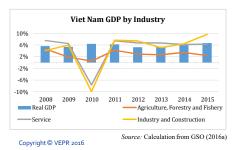


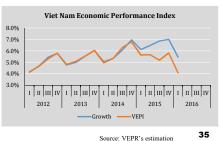
- Growth Inflation
- Aggregate supply
- Aggregate demand
- Macroeconomic balances
- Capital market and money market
- Property markets

34



- Impressive economic growth rate of 6.68%, largely thanks to construction and industrial sectors (9.64%)
- Growth of the agricultural sector declined, the service sector's stayed still
- Viet Nam Economic Performance Index (VEPI) was low due to declined trade; disappointed PMI and rail transportation volume.

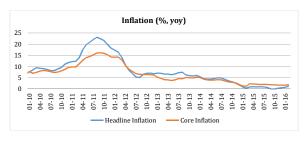




VEPR Inflation

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- The lowest inflation rate in recent years: 0.63% in average. Core inflation: at 2.05%
- Low inflation results mainly from tumbling energy and food prices, which accounts for 17% of the CPI basket.
- The plan to raise healthcare and education service prices was delayed until 2016

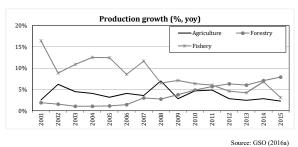


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Source: GSO (2016b



- Lowest growth in agriculture and fishery sector in the past 20 years (respectively 2.3% and 3.1%)
- Crop productivity slumped as bad weather
- Forestry sector constantly cherished. Forest plantation area significant increases.



37

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EPR Aggregate supply

- 2015's industrial production index rose by 9.8 % (2013: 5.9%; 2014: 7.6%); processing-manufacturing, electricity
- PMI remained higher than 50 points with exceptions of Sep and Nov

56.0

and gas sectors showed significant improvement.



52.0 48.0 44.0

Source: HSBC, Nikkei (2016)

Viet Nam PMI



- Lodging, food and travelling services were improved: rose by 5.2% (compared to a drop of 17.4% in 2014)
- the number of visitors rose.
- The factor market: a low unemployment rate, especially in the non-state sector.



Source: GSO(2016a)

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39

VEPR Aggregate demand

- Consumption improved in terms of nominal volume while the real value slipped due to the price factor.
- Investment surged in the last half of 2015, especially in the FDI sector



Source: GSO



- Foreign direct investment expanded rapidly
- New registered capital reached 15.6 billion USD
- Implementation capital reached 14.5 billion USD, up by 17.4%



Source: CEIC (2016)

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41

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VEPR Aggregate demand

- Trade deficit tended to come back
- A slowing export growth rate of 8.1% (2013: 15.4%; 2014: 13.6%)
- Imports from Korea prevailed





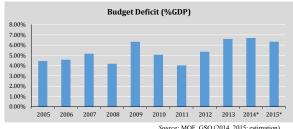
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Source: GSO (2016a), CEIC (2016)

Source: GSO (2016a), CEIC (2016)



- Huge budget deficit of 6.34% in 2015
 - □ Budget revenues: slipping sources from crude oil, FDI enterprises, tariffs.
 - □ Exploiting short-term sources: housing, taxation, fees.
 - □ Budget expenditure accelerated by 19.1%
 - Current expenditure and paying debt surpassed the total revenues → a part of government borrowings for spending.



Source: MOF, GSO (2014, 2015: estimation)

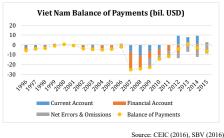


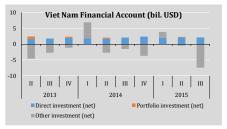
- Impact of crude oil prices on budget:
 - □ Revenues from crude oil export includes: (i) export tariff; (ii) royalties; (iii) corporation income tax from crude oil extracting firms.
 - □ Revenues from VAT rose.
- Oil price drops by 1 USD, budget revenues losses by VND 2,100 billion on average (calculated by VEPR).

44



- Balance of payments turned to a deficit.
- Current account surplus slipped to 1.08 billion (compared to 8-10 billion in the period 2012-2014)
- Financial account balance diminished, especially in "Other investments", while "Net Errors & Omission" was large.





Source: CEIC (2016), SBV (2016)

45

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"Liquidity trap of foreign currency" hypothesis

- In Q3/2015, USD interest rate was low;
- In middle of August, 2015, CNY unexpectedly depreciated → Concerns about VND depreciation (the VND/USD hike)
- → Commercial banks were unlikely to lend in foreign currency due to enterprises' concerns: <u>VND depreciation + USD lending rate > VND lending rate</u>
- → Even though the USD interest rates were very low or 0%, <u>VND</u> depreciation would be larger than VND lending rate → People would buy USD or enterprises would borrow in VND but not in USD → Commercial banks cannot lend in USD even when there were a decrease in USD interest rates → "A LIQUIDITY TRAP OF FOREIGN CURRENCY"
- → Commercial banks can not lend in USD → They deposited the money in foreign banks while waiting for depreciation
- → There was an unusually large deposit outflow in Q3/2015, which was lower in Q4/2015 when the expectation of VND depreciation was lower.

46



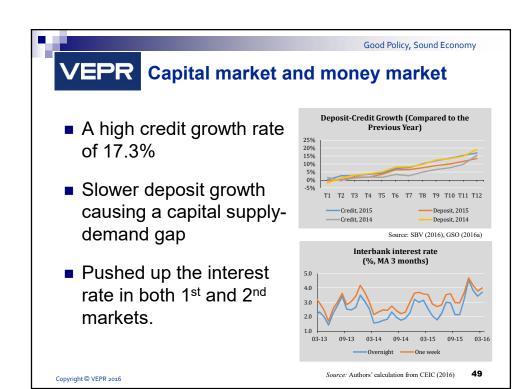
- Balance of payments:
 - □ Foreign currency reserves decreased, especially in Q3/2015 with a cut of 6.7 billion USD
 - □ Reserves of imports by months declined to 2.1 months, less than the recommended level of 3-4 months

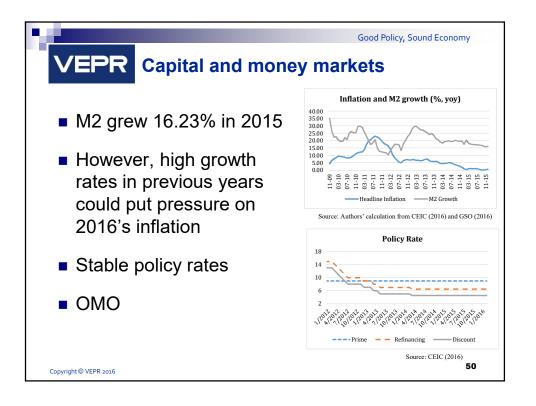


Source: CEIC (2016)

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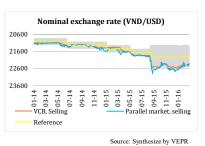
47







- Forex market: considerable fluctuations in the first three quarters;
- The exchange rate was adjusted twice from the beginning of the year + VND's depreciation after Chinese Yuan's depreciation;
- NEER and REER increased dramatically over 5 years;
- A new exchange rate regime.



Real Effective Exchange Rate and Nominal Effective Exchange Rate

1.4 1.3 1.2 1.1 1 0.9 0.8

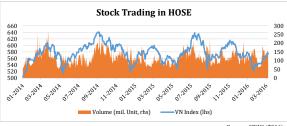
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Source: VEPR's estimation

EPR Property markets

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- VNI index largely fluctuated. VN Index at the open of the year was 544.5 points and at the close of the year was 579.0 points
- Decree No. 60/2015/ND-CP helps expand "room" for foreign investors



Source: CEIC (2016)

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- Gold price declined in the third consecutive year, a decrease of 6.4% compared to 2015;
- Domestic prices and world prices were not highly connected;



Source: SJC (2016)

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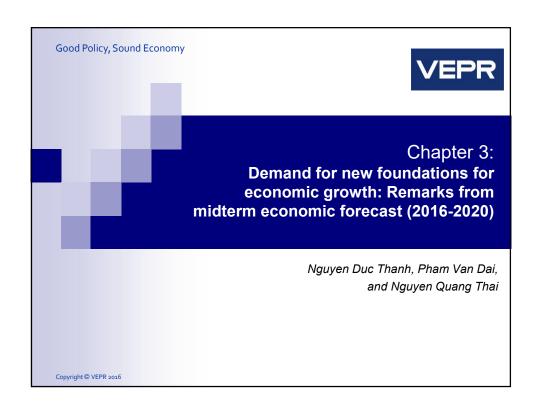
53

Good Policy, Sound Economy **Property markets** Hanoi Apartment for sale (unit) Real estate market 20000 16000 flourished in 2015; 12000 ■ The supply and demand increased in ■ Primary supply ■ Sold apartment both two main markets; HCMC Apartment for sale (unit) ■ The credit growth rose considerably by 25.7%, accounting for 10.3 % of total credit ■ Primary supply ■ Sold apartment outstanding; Source: Savills (2016) Copyright © VEPR 2016



- Enforcing fiscal discipline to reduce budget deficit. It is especially important to have radical solutions to cut government's current expenditure
- Comprehensively and effectively marketizing and easing control on the prices of public services
- Closely supervising the pace and quality of credit expansion, and avoiding a prolonged loosening monetary policy, from which an asset bubble could be formed.
- It is necessary to keep a close watch on the development of the real estate market and prevent a new property bubble
- The ceiling on deposit interests should be eliminated or just applied for very short maturity interest (e.g. less than 1 month) so capital supply-demand balance can be flexibly adjusted by market forces.







- 1. Abstract
- 2. Vietnamese economic growth during 2011-2015
- 3. Economic growth forecast methodology
 - Growth accounting methodology
 - Forecast scenarios
- 4. Midterm economic growth forecast
 - Labor force growth
 - TFP growth
 - Capital growth
 - Economic growth in different scenarios
- 5. Discussion on selected projected socio-economic indicators in midterm
- 6. Conclusion and policy implications

58





- Vietnam failed to meet 10 out of 26 socio-economic targets set by the National Assembly (2011):
 - The majority of these targets related to productivity of the whole economy.
- Vietnamese Communist Party (2016) sets the new ambitious targets:
 - GDP growth target on period average is set at 6.5%-7% per year;
 - ❖ By 2020, GDP per capita is projected to 3.200 3500 USD.
- The research employs growth accounting method to forecast Vietnamese economic growth:
 - Vietnamese economic growth is decomposed and forecast based on sources of output growth: labor growth, capital growth and TFP growth;
 - We also construct various scenarios for TFP, external government debt and global economy.
- Selected socio-economic targets set by Vietnamese Communist Party (2016) are assessed based on economic growth forecast.

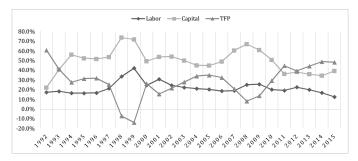
Good Policy, Sound Economy							
VEPR Selected economic indicators, 1996-2015							
	1996-2000	2001-2005	2006-2010	2011-2015*			
GDP Growth							
Viet Nam GDP growth (%)	6.95	7.33	6.32	5.88			
GDP per capita growth (real)	5.35	6.06	5.18	4.78			
Average GDP growth of developing countries	4.20	5.70	6.26	4.96			
Fiscal policy							
Budget deficit (%GDP)	-	-4.77	-5.07	-5.95			
State budget expenditure (%GDP)	24.44	28.08	31.04	27.38			
Recurrent expenditure rate (% State budget expenditure)	64.13	57.29	58.66	73.21			
General government net debt (% GDP)**	26.80	36.54	48.08	61.22			
Monetary policy							
M2 growth	34.48	26.91	30.75	18.84			
Outstanding credit growth	27.57	30.65	35.10	14.27			
Inflation (average consumer prices)	3.83	4.67	10.98	8.13			
Balance of payment							
Current account balance (% GDP)	-2.42	-1.60	-6.11	3.25			
FDI (% GDP)	9.42	6.77	9.57	7.08			
Foreign reserves (the number of weeks of imports, average of end of years)	10.46	11.97	14.08	10.02			
Copyrites (m/146/6) a 2011-2015 period; "end of period figures. Source: Calculations from IMF (2016) and CEIC (2016)							



- Economic growth during a 2011-2015 period was on average 5.9%/year, lower than the figure projected by National Assembly (2011); but relatively higher than the average figure of developing and emerging countries.
- It was the first time that current account balance was in surplus compared to three previous periods, averaging 3.25% of GDP per year.
- Monetary policy was somewhat more stable in comparison with previous periods:
 - Credit growth as well as M2 growth decreased rapidly over 20 years;
 - Average inflation during 2011-2015 fell to 8.12%.
- Fiscal policy showed various drawbacks:
 - State budget deficit on average is expected to increase to 5.95% of GDP
 - ❖ The proportion of recurrent expenditure in total expenditure rose by 14.55%.
 - General government net debt to GDP ratio continuously went up from 26.8% in 2000 to 61.22% in 2015.

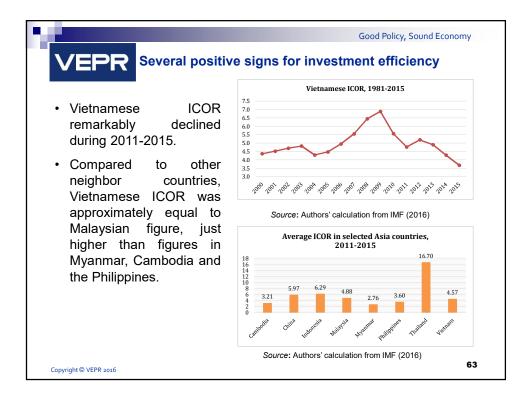


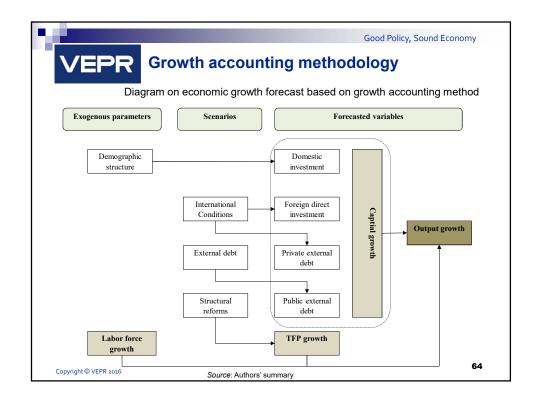
- Contribution of TFP growth in a 2011-2015 period (>40%) was higher than in the previous period:
 - About 15% in a 2005-2009, Vo Tri Thanh and Nguyen Tri Dung (2012);
 - ❖ 20.8% in a 2005-2010 period based on the authors' calculation.
- Contributions of TFP slightly decreased in 2015, a sign of the decline in the coming time.



Source: The authors' calculation from WB (2016) and GSO (2016)

62







- Forecast on labor force usually has a high level of precision.
- Forecast on TFP: 3 scenarios:
 - Baseline scenario: using ARIMA model for data on TFP growth in the 1992-2015 period to construct the scenario with no TFP improvement;

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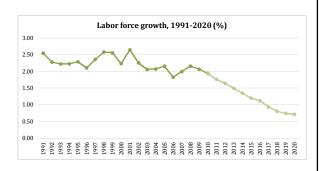
- Second scenario with slight TFP improvement: TFP growth would be 15% higher than the baseline scenario;
- Third scenario with significant TFP improvement: TFP growth would be 30% higher than the baseline scenario.
- Forecast on capital: using perpetual inventory method (PIM):
 - International scenario: 3 scenarios (normal/favorable/unfavorable) on FDI inflow and long-term private external debt;
 - Public debt scenario: 3 scenarios (decreasing/unchanged/increasing) on long-term public external debt to GDP ratio.

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Forecast on Vietnamese labor force growth:

- □ ILO (2014): on average 0.88% per year during 2016-2020;
- □ That figure is expected to be lower than previous periods (1.1% per year in 1995-2010).



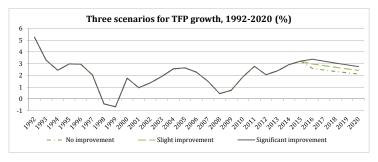
Source: ILO (2014)

66



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- **Baseline scenario**: increasing to 2.35% per year on average, lower than in a 2011-2015 period, 2.54 per year;
- Slight improvement: 2,7% per year;
- Significant improvement: 3.06% per year.



Source: Authors' calculation

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67



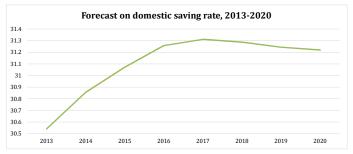
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Domestic saving rate:

- Forecast model: excluding variables of changes in GDP per capital out of the model (no significance at 10 percent level);
- The formula to forecast domestic saving rate:

Domestic saving rate (%GDP) = 91.879580 - 1.528004***dependency ratio**;

• The rate is expected to reach a peak in 2017, averaging 31.26% of GDP during 2016-2020, higher than a average 2011-2015 figure, 30.43% of GDP.



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Source: authors' calculation



ARIMA(2,0,0) model for FDI forecast

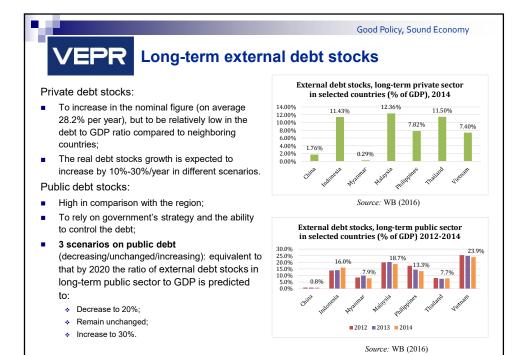
	Coefficients	Standard Error	T-Ratio	P-value
AR1	0.9660	0.2074	4.6580	0.0002
AR2	-0.3055	0.2085	-1.4650	0.1585
CONST	-472062826.2	113560480.6	-0.415693	0.68206
TREND	304745184.6	8063070.984	3.90383	0.00088

Source: Authors' calculation

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- Baseline scenario: data based on ARIMA (2,0,0) forecast model;
- Favorable international condition: 40% higher than the baseline scenario;
- Unfavorable international condition: 20% lower than the baseline scenario.

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GDP growth forecast on average during 2016-2020 (%)

	Unfavorable international conditions	Normal international conditions	Favorable international conditions
Decreasing public debt			
Slight TFP improvement	5.51	5.89	6.45
Significant TFP improvement	5.92	6.30	6.85
No TFP improvement	5.09	5.48	6.04
Unchanged public debt			
Slight TFP improvement	5.60	5.97	6.53
Significant TFP improvement	6.01	6.38	6.93
No TFP improvement	5.19	5.56	6.12
Increasing public debt			
Slight TFP improvement	5.63	6.01	6.56
Significant TFP improvement	6.05	6.42	6.96
No TFP improvement	5.22	5.60	6.15

Source: The authors' calculation

- Baseline scenario: GDP growth on period average is expect to be 5.56% per year; in more likely scenarios, GDP growth is forecasted to be around 5.5-6% per year.
- Favorable/unfavorable international scenarios: the growth is expected to be 0.4-0.5 point per cent higher than baseline scenario. Copyright © VEPR 2016

71



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Economic growth in each year in normal international conditions (%)

- Economic growth:
 - TFP improvement scenario: 0.6-0.8 point per cent higher than the no improvement scenario;
 - Increasing the public external debt stocks to GDP ratio: just 0.1-0.2 point per cent higher than the scenario of the unchanged rate;
- Increasing the public external debt stocks to GDP ratio can make mid-term risks for the economy which have not mentioned in this chapter.

	2016	2017	2018	2019	2020
Decreasing public debt					
Slight TFP improvement	6.21	6.00	5.85	5.75	5.64
Significant TFP improvement	6.58	6.41	6.26	6.17	6.07
No TFP improvement	5.85	5.60	5.43	5.32	5.20
Unchanged public debt					
Slight TFP improvement	6.28	6.07	5.91	5.80	5.82
Significant TFP improvement	6.65	6.47	6.32	6.23	6.26
No TFP improvement	5.92	5.67	5.49	5.37	5.39
Increasing public debt					
Slight TFP improvement	6.31	6.09	5.93	5.82	5.90
Significant TFP improvement	6.67	6.50	6.35	6.25	6.34
No TFP improvement	5.94	5.69	5.51	5.39	5.46

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Source: The authors' calculation



Vietnamese economic growth in the 2016-2020 period

- Vietnamese Communist Party (2016) set the target of economic growth on average at 6.5-7% per year a 2016-2020 period.
 - An ambitious objective: hardly feasible in Vietnamese infrastructural conditions and institutional environment, along with the decrease in global aggregate demand:
 - Positive factors: economic integration;
 - Fundamental and significant reforms on bureaucratic system, economic structure... should be implemented immediately to be able to achieve the target of 6.5% per year;
 - It is hardly possible to achieve the objective of 7% per year for Vietnamese economic growth in a 2016-2020 period

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- Objective: 3,200-3,500 USD by 2020.
- Nominal GDP per capita depends on the US inflation.
- Based on authors' calculation, this figure is expected to be around 2,756 to 3,219 USD, with high possibility of 2980 USD by 2020 → hardly achieve the approved objective.
- Real GDP per capita (at 2010 USD value or 2015 USD value) should be calculated.

GDP per capita in different scenarios, 2016-2020

	Real GDP Growth, year average	The US inflation, year average	Populatio n growth, year average	Nominal GDP per capital in 2020
Favorable scenario	6,5%	3%	0,8%	3,219
Baseline scenario	6,0%	2%	0,9%**	2,980
Unfavora ble scenario	5,5%	1%	1,0%	2,756

"ILO (2016)

Source: Authors' calculations

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- Objective: 32 34% of GDP on average in the period;
- To be confused during the process transforming from extensive to intensive growth
- The total investment to GDP ratio in Viet Nam decreased, equal to the figures in Malaysia and Thailand:
- 25-30% of GDP is a more suitable objective;
- Investment efficiency should be a priority.

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Source: IMF (2016)

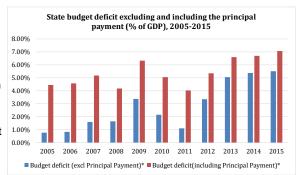
75

The proportion of industrial and services output in GDP

- Objective: above 85% of GDP by 2020;
- By 2015: this figure had been 81.1% of GDP, increasing by 1.16 pp in a whole period of 2011-2015 → structural shift is not an easy task
- Breakthroughs in reforms, creating favorable business environment, promoting urbanization and structural changes are needed;
- Strengthening the linkage between services sector and the other sectors (agriculture and industry).



- · Objective: less than 4% of GDP;
- This objective can be achieved if applying the new method approved in the Law on State budget in 2015, which follows international norms.
- State budget deficit excluding principal payment on average in the 2011-2015 period was 4.08% of GDP per year.
- During 2013-2015: State budget deficit excluding principal payment is estimated to always exceed 5% of GDP.
- Tightening the fiscal discipline is needed to achieve that objective.



*VEPR's Estimation for 2014, 2015. Source: CEIC (2016)

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77

78



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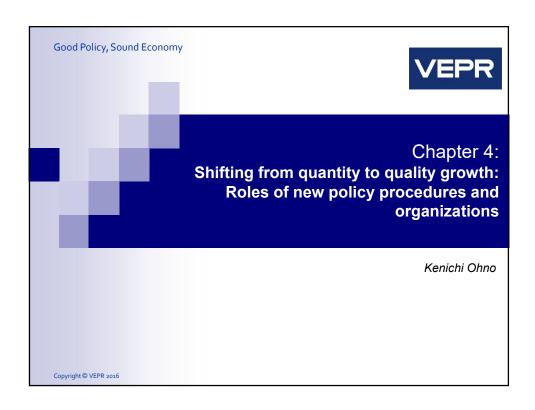
Conclusion and policy implications

- Vietnamese average economic growth will exceed 6.5% only if incentives for growth are significantly improved
 - Labor force growth is declining, difficult to reverse the trend;
 - Thus, economic prospects rely largely on capital growth; the quality of human resources and technology.
- Economic growth since Doi Moi reform (market-oriented reforms): extensive, depending on capital growth → not a suitable solution due to diminishing marginal return
- During a 2016-2020 period, capital growth still play an important role:
 - New generation FTAs: TPP, EVFTA... help Viet Nam to attract foreign investment;
 - Improving the business environment, removing barriers are needed to attract and take advantages of this capital;
 - Domestic investment: limited public investment and the domestic saving rate which was already
 quite high compared to income per capita.
- FDI inflows also create favorable conditions for enhancing domestic technology and human resources:
 - To promote sound business environment quality, encourage domestic enterprises to develop and expand and coordinate with FDI firms.



- Fundamental reforms in state-owned enterprises, mainly focusing on equitization, should also be accelerated urgently in order to enhance total factor productivity:
 - Viet Nam has currently spent uncontrolledly on inefficient operation of public administration sector: the extremely high rate of recurrent expenditure in total budget expenditure;
 - ❖ Administrative reforms should be aimed towards streamlining the bureaucratic system → increasing the public savings rate and resources allocated to the private sector
- Relationship between improving the quality of the labor force and transformation of economic growth model:
 - There are a huge redundancy of higher education graduates who do not fit in market demand
 - Government subsidies widens the gap between supply and demand
 - The education system should carry out market-oriented reforms towards meeting the demand of the labor market:
 - Training cost should be calculated comprehensively in accordance with the market mechanism to avoid wasting resources;
 - Government subsidies in the higher education system should be drastically cut down, which allows the market to decide the size and the cost of the higher education service







Good Policy, Sound Economy

- 1. Introduction
- 2. The new context of development
- 3. The catching-up challenge for Viet Nam: The glass ceiling in East Asia
- 4. Reforms in policy making procedure and organization
- 5. How to break a solidified system
 - Leadership
 - A technocrat team and a national council
 - Foreign partnership
- 6. Concluding remarks and policy implications



Good Policy, Sound Economy

- Vietnam is one of the early achievers of the Millennium Development Goals;
- The share of manufacturing in GDP rose from 12% in 1990 to 76% in 2014;
- Much of this apparent structural shift was attributable more to the large inflow of FDI than the dynamism of domestic enterprises;
- Institutional reforms have progressed at a slower speed than expected;
- Equitization (privatization) of small SOEs has largely been accomplished, but that of the remaining large SOEs is behind schedule;
- Exemplary achievements were generated by a growth model based on low labor cost and intensive capital investment rather than on productivity and competitiveness
- New Policy Procedures and Organizations:
 - Adopting international rules and standards
 - · Coping with the problems that might arise;
 - It was essentially reactive adaptation to the new reality rather than proactive creation of new value and industries

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Deeper Integration:

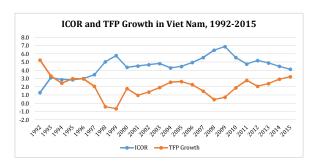
 Protection of weak domestic industries behind high walls of tariffs and non-tariff barriers was no longer allowed;

The new context of development

- Policies to enhance competitiveness were called for.
- It will be some years before Vietnam's developmental trap becomes a reality, as encountered in Malaysia; however, local officials and researchers are already fully aware of this risk;
- Data of ICOR and TFP shows a clear sign of investment-driven growth with low efficiency in capital use;
- The wage increase which is faster than the increase in labor productivity
- Issues with greater trade and financial integration: global boom-bust cycles, inequality, and macroeconomic instabilities.

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Source: Author's calculation

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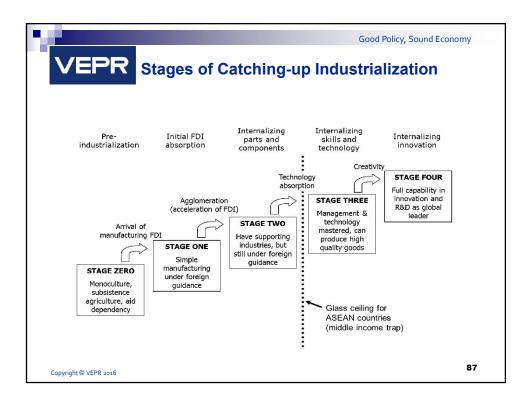
85

86



- Within this dynamic East Asian context, Vietnam must successfully conduct three crucial policies to sustain growth:
 - (i) Generation of internal value;
 - (ii) Coping with new social problems caused by rapid growth; and
 - (iii) Effective macroeconomic management under financial integration
- Starting from a very low level, Vietnam is currently in the first stage of industrialization trying to reach the second stage
- Tran Van Tho emphasizes five necessary ingredients of New Doi Moi,
 - i. Restraint on state-owned enterprises and promotion of private enterprises;
 - ii. Efficient use of investment funds;
 - iii. Strengthening of industrial competitiveness;
 - iv. Improving education;
 - v. Democratization and establishment of the rule of law.

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- The two serious procedural problems:
 - The lack of involvement of the business community;
 - The lack of inter-ministerial coordination in designing and executing industrial strategies and action plans;
- It is difficult to ensure involvement of non-government stakeholders and inter-ministerial coordination:
 - The most serious issues in this regard are the lack of clear directives from the top and the distorted incentive mechanism among government officials that causes brain drain.
 - The decline of quality and morale of government officials, which prompts an exodus of talented people to other sectors
 - Cumulative problems of overstaffing, low salary, prevalence of second and third jobs, formalism, rigidity, nepotism, corruption, relation-based promotion
 - Highly qualified and motivated people are becoming difficult to recruit or retain
 - No bureaucracy can transform itself radically without an order from a strong leader.

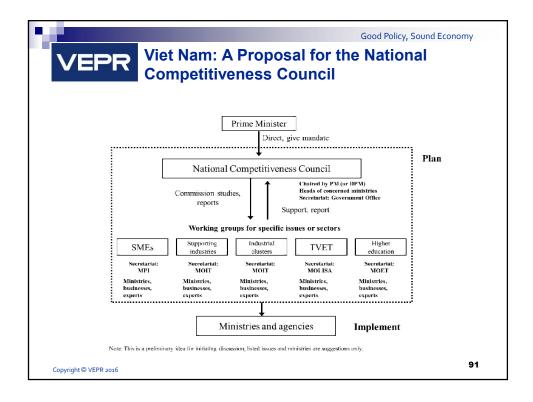


- The policy making process in Vietnam is largely closed within government with little substantive involvement of other stakeholders
 - If an enterprise wants to raise its voice, it must invent its own way since the current procedure does not allow meaningful involvement of the business community

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- · The lack of mechanism to force different ministries to work together
- When a serious problem is identified:
 - Each ministry proposes solutions from its perspective, which are collected into general policy recommendations without execution details;
 - It is said that there are more than 1,000 research institutes attached to various ministries and levels of the government in Vietnam producing mediocre reports and proposals.
- Solutions:
 - To have a strong top leader with a good economic mindset (Thailand under Thaksin Shinawatra, 2001-06; Ethiopia under Meles Zenawi, 1991);
 - To establish a powerful technocrat team directly serving the top leader and making key decisions while ministries become executing agents of plans emanating from this team (South Korea's Economic Planning Board, 1961-1994.





- Comparative institutional analysis suggest the following occasions and agents of change:
 - Collective mutation
 - Foreign influence
 - They bring and sometimes even force new elements, which causes friction, resistance, and inconsistency with the indigenous system
 - Foreign firms and investors as well as international migration may also produce foreign pressures on a society
 - Policy



Three players making institutional reforms possible in the Vietnamese context are:

- Leaders
 - High-quality leadership is the most vital ingredient of national development
 - Two aspects of national leadership worthy of attention: the quality of the leader or the leading group and the dynamics of coalition formation among contesting leaders and leading groups
- A technocrat team and a national council
 - In high performing economies of East Asia, a technocrat team is directly under the top leader;
 - Vietnam also had the Prime Minister's Research Commission (PMRC) in the past, but it was an advisory group rather than a central policy making body;
 - Vietnam needs such a team at least for the next few decades to climb to higher income and cope with growth-generated problems and instabilities along the way
 - Vietnam could also adopt the national council model, which is a standard mechanism in many developed and developing countries: coordinating ministries for tackling issues on any industrial policies, such as the fostering of SMEs and supporting industries
- Foreign partnership

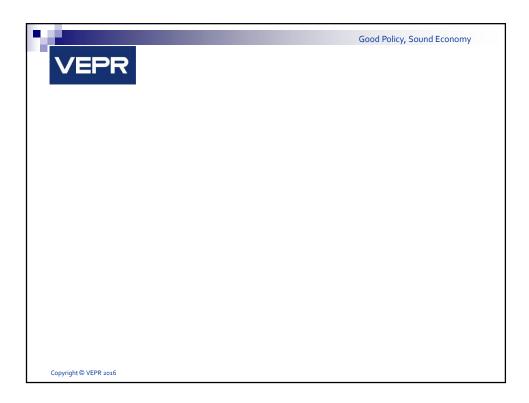
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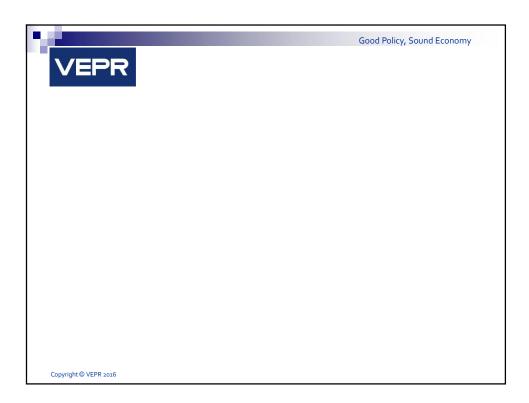


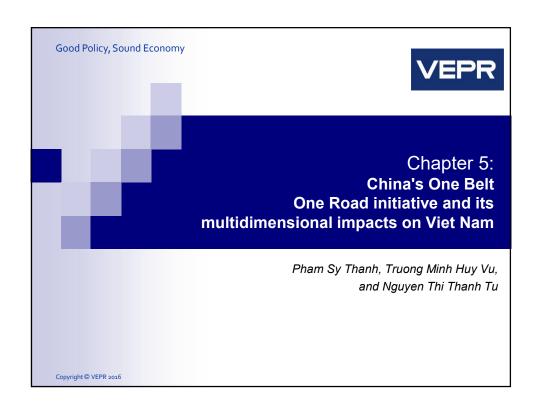
- Targeting a small number of priority issues:
 - * key policy entry points be limited in number;
 - Consideration: Industrial human resource, SME promotion, supporting industries, and industrial clusters;
 - International cooperation is likely to be forthcoming for these purposes.
- The roles of the Ministry of Industry and Trade (MOIT) and the Ministry of Planning and Investment (MPI) in SME promotion and supporting industry promotion:
 - $\ensuremath{\raisebox{.3ex}{$\raisebox{.4ex}{}}}}}}}}}}}}}}}}}}}} Thordsing in The two promotions have significant overlaps although the two are not exactly the same; } } } } % The two are not exactly the same; } % The two are not exactly the two are not exactly the same; } % The two are not exactly the two are not exa$
 - MPI should continue to be the lead ministry for SME promotion and MOIT should be the lead ministry for supporting industry promotion for the moment;
 - In the long run, the two functions should be merged under the same ministry. MOIT is perhaps the more suitable ministry for this purpose.
- Establishment of an inter-ministerial coordination mechanism
 - Many of the industrial strategies, including supporting industries, SME promotion, and industrial cluster development, are multi-sectoral issues;
 - One option is establishment of a national council headed by the prime minister (or the deputy prime minister in charge of industry) which supervises and coordinates several key industrial strategies.

Su alegies.

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Good Policy, Sound Economy

- The overview of One Belt One Road (OBOR)
- Objectives of OBOR
- Promotion Policies
- Implementation mechanism
- Financial mechanism
- Impacts on Viet Nam
- Policy implications

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Good Policy, Sound Economy



- One Belt One Road initiative consists of 2 two main elements:
- (i) Silk Road Economic Belt (on-shore Silk Road) is a land route divided into 3 branches:

China - Central Asia - Russia - Europe (Baltic);

China - Central Asia - West Asia - Persian Gulf, the Mediterranean;

China - Southeast Asia - South Asia - The Indian Ocean.

 (ii) 21st Century Maritime Silk Road- is a sea route that runs west from China's east coast to Europe through the South China Sea and the Indian Ocean, and east into the South Pacific.

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VEPR Objectives of OBOR

Economic Objectives	Diplomatic Objectives	Security Objectives
Promote the developments of the unwealthy Western and Southwestern provinces.	Promote cooperation between China and the neighboring countries	Construct overseas military bases and deploy the PLA abroad
Promote outward investment, reduce the pressure from excess foreign exchange reserves.	Implement the second round of China's Open Door Policy	Ensure national energy security
Help Chinese enterprises seeking new investment opportunities in the face of domestic economic context changes	Towards the creation of new international rules and orders more heavily influenced by China	
Solve the excess production capacity problem		
Develop the port infrastructure systems and new marine transportation lines of China.		
Restructure China's commerce, seek new markets		100



- Central level
- 8/2015: Document "Vision and Actions on Jointly Building Silk Road Economic Belt and 21st-Century Maritime Silk Road"
- 3/2016: Document "The Thirteenth Five-Year Plan for National Economic and Social Development of the People's Republic of China"

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Local level

 3/2016, according to the China's National Development and Reform Commission (NDRC), 28 provinces and cities have already released OBOR implementation plans for their regions

The provinces and cities of China have launched OBOR promotion policies

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102



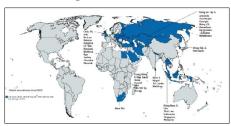
Multilateral mechanisms

- Asia Cooperation Dialogue (ACD),
- Association of Southeast Asian Nations and China (ASEAN-China);
- Conference of the Asia-Europe Meeting (ASEM);
- The Conference on Interaction and Confidence-Building Measures in Asia (CICA);
- Greater Mekong Sub-region (GMS);
- Mekong-Poland trade cooperation,
- Greater Tumen Initiative (GTI);
- Shanghai Cooperation Organization (SCO)

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Bilateral Mechanisms

The countries have signed OBOR cooperation agreements with China



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103

Good Policy, Sound Economy VEPR Financial mechanism

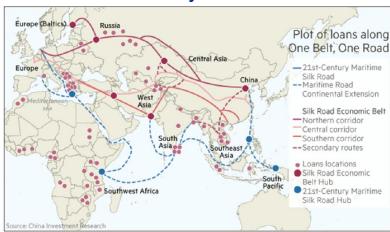
Several China's financial institutions invest in infrastructure

Loans	US \$ billion
- Non-commercial disbursements (2014)	80
- Export credit loans	29
- International net lending (2014)	22
- International net lending on average 2008 -	23
2014	
OBOR serving annual lending 2015 - 2017	20
Disbursement according to project after 2020	10 - 14
Disbursement according to project after 2020	5-7
Disbursement according to project 2015 - 2020	2
Disbursement 2009 - 2015	2,4
	- Non-commercial disbursements (2014) - Export credit loans - International net lending (2014) - International net lending on average 2008 - 2014 OBOR serving annual lending 2015 - 2017 Disbursement according to project after 2020 Disbursement according to project 2015 - 2020

Source: The authors synthesized

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Source: China Investment Research (2015)

67% of loans of 2 largest investment bank of China (China Development Bank and China Exim Bank) has total amount of 49.4 billion dollars focus on OBOR with the interest rates of 4-4.5% per year

VEPR Impacts on Viet Nam (1)

- Scenario 1: Viet Nam does not join OBOR
- The concept of infrastructure leverage Trap
- When an infrastructure system has been invested and formed, the area with developed infrastructure will have the advantage of connections with other areas. Meanwhile the country or region without satisfactory infrastructure investment will gradually slip away.
- => The infrastructure system acts as a leverage, creating advantages for one country and depleting the advantages of others in long term.
- The appearance of the infrastructure leverage increases the opportunity cost for countries and in the long term can force a country out of the region's development path, if it does not have developed infrastructure systems or cannot connect with the regional infrastructure system.

- Viet Nam participate in OBOR?
- China infrastructure system creates a North South connectivity running from Kunming (Yunnan, of China) - Laos - Cambodia -Thailand - Singapore and Kunming - Burma - Thailand - Singapore.
- Viet Nam infrastructure system is planned to focus on the North South route. The East – West connection is weak; The trans-Asia route linking Phnom Penh (Cambodia) and Tay Ninh (Viet Nam) has limited transport capacity.
- Depletion of the advantages of Viet Nam's hard infrastructure network: road, railway and port system will mainly serve VN domestic demand.

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- Case study
- Singapore Kunming Railway (SKRL) consists of three main routes from Kunming (China) to Thailand and then to Malaysia and Singapore.
 - □ Route (1) Kunming Viet Nam Cambodia Thailand is the most complete route. But after China finishing the Kunming Vientiane high-speed railway project (Route (2) Kunming Laos Thailand could open to traffic) and Kunming Yangon high-speed railway and Yangon Bangkok high-speed railway projects (Route (3) Kunming Myanmar Thailand could open to traffic). Viet Nam will lost the advantage of North South transit station because of: route (1) is farther and Viet Nam have no high-speed railway.

Laem Chabang Port (Thailand)

Da Nang Port has strategic location in the region. Once SKRL completed, it will link southern Chinese regions and other continent Southeast Asian countries to Thailand => Laem Chabang Port with more modern infrastructure, more convenient inland goods transportation will compete with the port of Da Nang.

Sihanoukville Port (Campuchia)

 From China to the Gulf of Thailand is currently going through Cai Mep-Thi Vai Port. China is negotiating to build a direct sea route from China to the Sihanoukville Port and the Gulf of Thailand without passing through CM-TV. Infrastructure system in Southeast Asia



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- Scenario 2, Viet Nam participates in OBOR
- (I) The infrastructur e projects undertaken by China are not highly effective

Denied/cancelled Infrastructure investment projects of China

Source: The authors synthesized

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•		•	,
Project/Country	Fields	Investment amount (USD)	Reasons the outlined by host countries
New harbor city Colombo/ Sri Lanka	Infrastructure construction	1,5 billion	Do not meet environmental standards (2015)
Hydropower plants Myitsone/ Myanmar	Energy	3,6 billion	Negative impacts on the environment, society (2011)
Cuprite Letpadaung/ Myanmar	Mineral exploitation	1 billion	Negative impacts on the environment, society (labor rights) (2014)
Railway (Vân Nam- Rakhine)/ Myanmar	Traffic	20 billion	Negative impacts on the environment, society; national security (2014)
Buy OZ Minerals (M&A)/Australia	Mineral exploitation	2,26 billion	National security (2009)
Invest to Rio Tinto/ Australia	Mining	19,5 billion	Bad operations management (2009)
Buy Sundance Resources (M&A)/Australia	Mineral exploitation	1,5 billion	Chinese company mobilize capital slowly (2012)
Invest to Equinox Minerals Ltd/Canada	Mineral exploitation	5,9 billion	Negative impacts on the environment (2011)
High-speed Railway (Mexico City- Queretaro)/Mexico	Traffic	3,5 billion	Chinese company are not transparent in bidding (2014)
Oil fields North Azadegan/Iran	Mining	2,5 billion	Chinese company delays the implementation o the obligations (2014)
Hydroelectric dam Stung Cheay Areng/ Campuchia	Năng lượng	400 million	Negative impacts on the environment, society (2015)
Resort World Shine/Việt Nam	Infrastructure construction	250 million	National security (2014)
Railway Montero-Bulo Bulo/Bolivia	Traffic	250 million	Chinese company delays the implementation of agreements (2015)
The national power grid /Philippines	Energy		National security (năm 2015)
Jakarta – Bandung Highway/Indonesia	Traffic	5.5 billion	Chinese company less efficient deproyment



- (ii) The political and social impacts
- Chinese laborers in large-scale projects:
 - Characteristics of Chinese infrastructure investment projects are large-scale and mainly use Chinese labors.
 - □ The Chinese are relatively concentrated in groups, or forming "Chinatown" which poses many challenges for local authorities to manage.
- Changes in China's foreign policy:
 - □ China has gradually abandoned the policy of "non-interference" and moved on to intervene in various forms from low to high level to protect its overseas "interests" through the new way to protect Chinese workers and other citizens and investment assets abroad (Mathieu Duchâtel, Oliver Bräuner and Zhou Hang, 2014). For examples:
 - □ Chinese non-combatant evacuation operations (Libya, Japan)
 - □ New concepts such as "creative involvement" and "constructive involvement" have been developing as the 'guiding threads' for China's diplomacy



(iii) Infrastructure investment and Viet Nam's Public debt Problems:

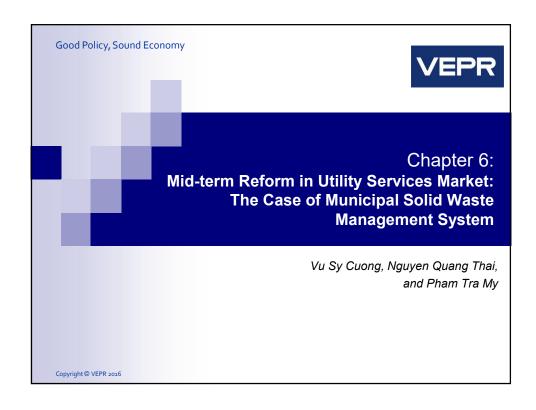
- Each year Viet Nam needs around US \$ 10.4 Billion invested in infrastructure
- Join OBOR and receive loans from AIIB can put Viet Nam in a number of challenges:
- Loan interest rates and types of loan issues (Yau,2015):
 - (i) interest rates will range between 5-7% for the loan term of 30 years;
 - (ii) Chinese bid company will bring bid profile to borrow from Chinese banks often are CEIB or CDB
 - (iii) Chinese contractors often are the overwhelming number in bid constructions..
- Second, the pressure on Viet Nam's public debt is growing. By the end of 2014, Viet Nam's public debt was estimated around 60.3% of GDP, in 2015 it is forecasted at around 65%. The increase in public debt may raise interest rates, narrow capital flows for private sector, and trigger inflationary pressures. Besides, the annual payment on loans is putting heavy pressure on Viet Nam's budget (VEPR, 2016).

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- Develop the transport corridors to form the basic for development of the economic corridors
- Take advantages of Viet Nam's port system and sea route, as well as water transport routes between ASEAN countries in the Mekong River Basin.
- Enhance East West connectivity between Viet Nam and ASEAN, prioritize Thailand - Cambodia - Tay Ninh - Saigon - Vung Tau route to promote the advantages of Cai Mep - Thi Vai port.
- Develop Vung Tau Ho Chi Minh City Tay Ninh Phnom Penh transport corridor to take advantages of water transport network between Viet Nam and Cambodia, and promote the absolute advantages of Hiep Phuoc port.
- Prioritize the completion and repair of Ho Chi Minh City Phnom Penh railway to establish the east – west rail links between Viet Nam and ASEAN.





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- 1. Introduction
 - · The context and scope of the research
 - Research methodology
- 2. Experiences of municipal solid waste management in selected Asian countries:
 - Singapore
 - China
- 3. Market structure of municipal solid waste management in Viet Nam
 - MSW generators
 - Collection market
 - Transportation market
 - Disposal market
 - Unofficial solid waste recycling market
- 4. Discussion on selected policies related to MSWM market in Viet Nam
- 5. Policy recommendation
 - The tendency of changes in Viet Nam's MSWM market structure
 - · Recommendations to enhance the efficiency of MSWM in Viet Nam



Context and concerns

 Municipal solid waste has increased rapidly (double during 2008-2015); making up a large proportion in total solid waste (50.8% - 2015)

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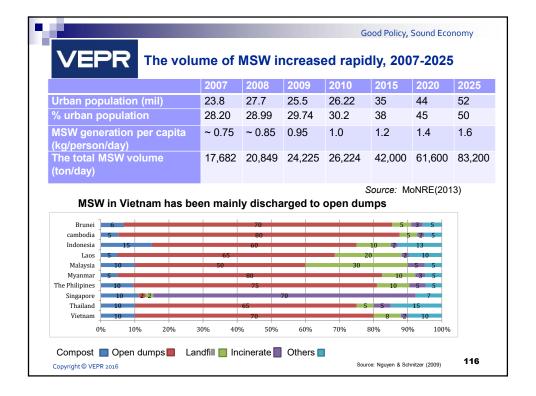
- Solid waste treatment in Vietnam is backward, not hygienic: 70% of total solid waste treated through open dumps (Nguyen & Schnitzer; 200ÓE
- SOEs and local authorities still play a key role in supervising and directly providing the service (Thanh & Matsui, 2011; Le et al., 2009)

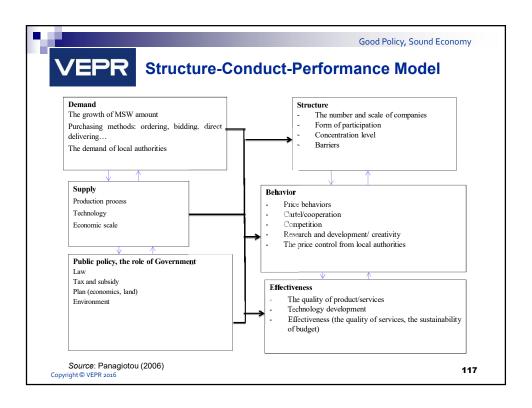
Scope

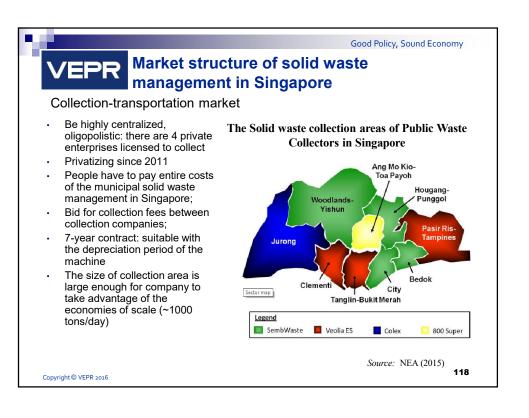
- · Content: Studying in household and public solid waste management.
- Space: Conducting the fieldwork in 5 cities: Hanoi, Ho Chi Minh, Lang Son, Bac Ninh and Da Lat.

Objectives

- To analyze the market structure, the operation mechanism of MSWM market in Viet Nam: cost-benefit of the participants;
- Existing limitations of municipal solid waste management in Viet Nam
- Recommendations for improving the efficiency of municipal solid waste management in Viet Nam







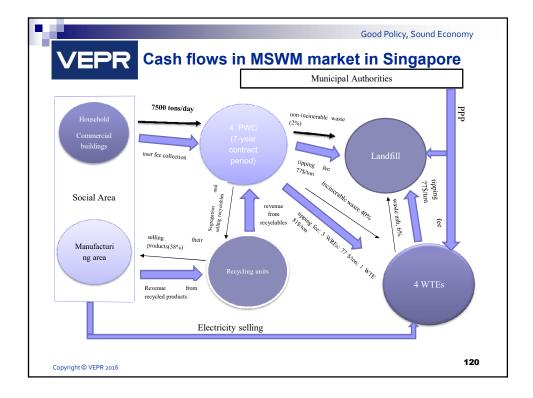


Solid waste treatment market

- High concentration market: 5 solid waste treatment plants, 4 incineration plants, one landfill:
- The capacities of plants are about 800-2200 tons/day: take advantage of economic scale:
- Collection-transportation companies pay tipping fees when discharging waste at waste treatment plants; the State doesn't directly pay the solid waste treatment fee for waste treatment plants.
- The contract period of these waste treatment plants is above 20 years.

Recycling market

Associated with collection-transportation segment: Companies collecting solid waste will have the right to collect recyclables in their collection areas;





Collection-transportation market

- The market is highly concentrated by few enterprises in big cities.
- Low user fee, the authority had the strategy in rising the use fee, in which people are responsible for the whole cost of MSWM.

Solid waste treatment market

- High concentration: build treatment plants in cities applying modern methods, huge capacity, decrease the number of landfills funded and operated by the State.
- To form the tipping fee in waste treatment areas for collection-transportation companies; decrease gradually the spending from the state budget.
 - In 1999, solid waste treatment plants in Beijing and Shanghai did not have tipping fee for solid waste treatment (Johannessen & Boyer, 1999),
 - In 2012, tipping fees for solid waste treatment in incineration plants in China were about 8 USD/ton (Balkan, 2012)

Unofficial recycling market: High competitiveness

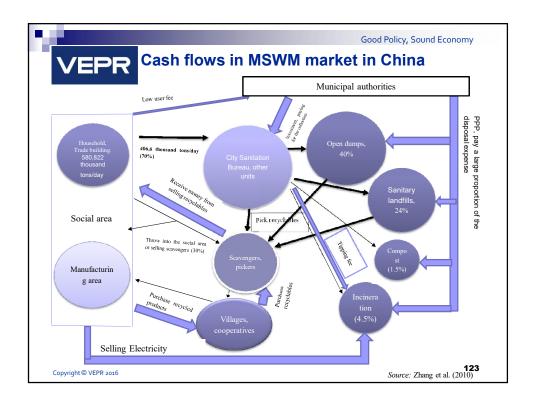
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	2002	2010	2020	Note
Total	100%	100%	100%	
Fee for waste collection	30-40%	70-80%	90-95%	Will depend on successful involvement of enterprises
Households	10-20%	60-70%	80-85%	Collection is difficult and costly and fee levels are set too low. Will change over time.
Institutions	20-25%	10-20%	10-15%	
Municipal government	20-25%	5-10%	0%	
District Governments	45-50%	10-20%	5-10%	The governments still need to subsidize the poverty households

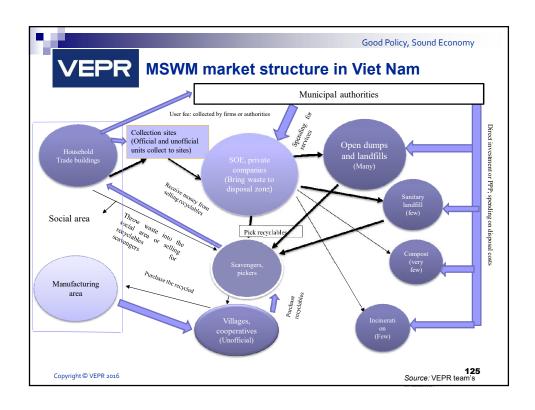
- To increase the user fee to be equal to the cost for solid waste management
- To decrease gradually the spending from the state budget.

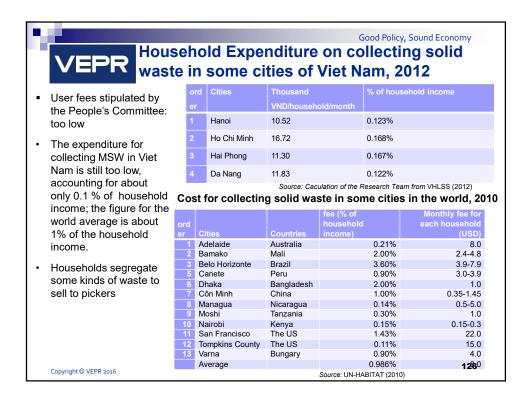
Source: WB (2005)



Good Policy, Sound Economy Experiences for Viet Nam in terms of the market structure

- The market structures of the collection-transportation market and disposal should be concentrated on selected enterprise (encouraging the participation of the private sector), at the aim of taking advantage of the economic scale; the easier observation of technical standards and services quality.
- The role of local authorities: to only supervise and attract investments but not directly
 provide the service.
- The size and duration agreements in collection and transportation contract: collection areas need to be appropriately divided, large enough to favor the economic scale; the duration of municipal solid waste collection contract need to be long enough (ex. in Singapore: 7 years);
- The role of generators: to be completely responsible for the cost on MSWM they generate
- The solid waste treatment market: to be established with the demand side is waste collection-transportation companies (not local authorities). This means that waste collection-transportation companies have to pay tipping fees when discharging waste to waste disposal plants







The group of waste collection

- Operating on a small scale, collecting solid waste in a residential quarter, neighborhood ... to collection points; The number of these units is quite large.
- Collecting user fees, low fees; unable to balance revenue and expenditure, → Increasing the fees that exceed the stipulated fees, the group of collection does not want business registration.

The official enterprise of waste collection

- Collecting in small, fragmented areas, and in the district scale (~200 tons/day)
- State-owned enterprises play a dominant role in this segment:
 - Ho Chi Minh city: 23 SOEs (all of the official enterprises are SOEs)
 - Hanoi: 8/18 companies of collection are state-owned enterprises
 - Da Lat, Bac Ninh: State-owned enterprises implement collection
- Contract duration: annual order, 3-year contract, difficulties in the investment on equipment
- Traditional norm in collection area → the tender can be just de jure.

MSW transportation market: vertical linkage with collection markets

	Good Policy, Sound Economy						
	VEPR Companies participate in collecting and transporting solid waste in Hanoi, 2015						
No	The company's name	The company model	The areas for implentation				
1	URENCO	State-owned company	4 main district (Hoan Kiem, Ba Dinh, Hai Ba Trung, Dong Da)				
2	Thang Long Environment joint-stock Company	Joint-stock company (equitization)	Hoang Mai, Tay Ho, Cau				
3	Tay Do environment joint-stock Company	Joint-stock company (equitization)	Giáy, Long Bien, Thanh				
4	Green Environmental joint-stock Company	Joint-stock company	Xuan county				
5	Technology and Environment Ecology Joint- stock Company	Joint-stock company					
6	Thanh Cong Cooperative	Cooperative					
7	Ha Dong Environment joint-stock Company	Joint-stock company (equitization)	Ha Dong county				
8	Son Tay Environment and Urban Construction Company	Joint-stock company (equitization)	Son Tay town				
9	Xuan Mai Urban Environment Company	State-owned company	Chuong My district				
10	Song Hong Investment and Development of Clean Vegetables joint-stock Company	Joint-stock company	Me Linh district				
11	Noi Bai Trade joint-stock Company	Joint-stock company	Soc Son district				
12	Mai Dinh Collective	Collective					
13	Tu Liem Environment Investment Enterprise	State-owned company	Tu Liem district				
14	Thanh Tri Environment Investment Enterprise	State-owned company	Thanh Tri district				
15	Gia Lam Environment Investment Enterprise	State-owned company	Gia Lam district				
16	Dong Anh Environment Investment Enterprise	State-owned company	Dong Anh district				
17	Soc Son Environment Investment Enterprise	State-owned company	Soc Son district				
18	Binh Minh Environmental Service Joint-stock Company	State-owned company	Long Bien				
Co	ppyright © VEPR 2016		128				



- The treatment plants of solid waste are scattered (Except for Ho Chi Minh City having four concentrated treatment plants)
 - Hanoi has about 17 treatment areas of solid waste with various capacities;
 - Cities in other provinces build a treatment plant by themselves with small solid waste amount from 100-200 ton/day → difficulties in attracting investment in hygienic treatment methods; difficulties in supervising quality.

Categories by ownership

- Urban authorities directly invest, operate or hire operation: particularly open garbage dumps and landfills such as Nam Son and Xuan Son;
- Enterprises invest and operate: Viet star, WS, Ha Ngoc, CITENCO...: appear hygienic incineration, compost methods

Benefits

- Local budget pays the total expenses for solid waste treatment; collectiontransportation companies do not pay the expenses for solid waste treatment when discharging garbage to treatment zones.
- ii. Recycled goods.

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Costs of solid waste disposal through landfill: low operation cost, real cost will include:

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- (i) Investment cost: depreciation cost, capital, land cost;
- (ii) Operation cost;
- (iii) post-closure cost;
- (iv) Cost for negative externalities: land pollution, water pollution... (if any)
- Sanitary landfill: VWS 20.166 USD/ton in 2015, not including post-closure cost (26/50 year) -> high
- Landfills invested by the authorities like Nam Son, Xuan Son:
 - Provincial budget invested in landfill and pay salaries for landfills managers → not calculated into solid waste disposal cost, transparency in caculating the real cost;
 - Only mention the maintenance cost ~69.000/ton -> the real cost cannot be calculated;
 - Are landfills invested by the Authority effective in term of disposal cost and environmental sanitaration? There isn't transparacy in the real cost calculation of these waste disposal areas > might waste provincial budget.
- Da Lat city: Cam Ly dump -> negative externalities : Dong Nai river, Cam Ly fall
- Modern solid waste disposal methods: large scale of waste, high technique, large financial source → long-term oligopolistic (Ho Chi Minh city)

Good Policy, Sound Economy Cost of several solid waste disposal areas, 2015 City Dump Quantity Technology Nam Son landfill ~ 69.000(3*) 5000 landfill ~69.000(3*) 250 landfill Xuan Son landfill Hanoi Thanh Cong collective 200 330.000 Incineration Thang Long company's 380.000 700 Incineration incinerator 3.000 Ho Chi Minh landfill Da Phuoc waste company 433.569* Tam Sinh Nghia 1.000 Incineration Vietstar 408.500* 1.200 Incineration CITENCO 3 landfill 360.000 2.000 landfill 150(4*) Xuan Truong disposal 129.000** Da Lat Incineration plant Bac Ninh Phu Lang disposal plant 330.000 200 Incineration Lang Son Van Lang disposal plant 91.143 50 Incineration *1 USD = 21.500 VND; ** temporarily calculated price (3*) Maintenance cost (excluding depreciation and manager salary); (4*) capacity of 450 tons/day (5*) After March, 2015, the amount of waste was brought to Da Phuong Area. Source: The research's fieldtrip 131 Copyright © VEPR 2016

Good Policy, Sound Economy Comparison of costs related to services of solid waste disposal, 2012 Low income Average low Average High income high income income income (GNI/per capita) \$876-3.465 \$876 \$3.466-10.725 \$10.725 Solid waste 0.22 0.29 0.42 0.78 (ton/per capita/ Cost of waste collection and disposal 20-50 30-75 40-90 85-250 Sanitary dump, exclude post-10-30 15-40 25-65 40-100 clousure cost Open dump 2-8 3-10 5-30 20-75 35-90 Compost 10-40 Incineration 70-200 40-100 60-150 energy) (-): No data 132 Source: WB (2012) Copyright © VEPR 2016



- Collecting recyclables units: Large quantity, high competitiveness, small capital;
- Recycling units: recycling villages
 - · price decision for the whole chain;
 - Large quantity, small capacity -> low technology, lower quality of products, not afford to invest in sewage treatment -> environmental pollution.
 - · High compettiveness, price pressure (due to the quality of the product)

Several recycling craft villages in Viet Nam, 2015

No.	Craft villages	Number		Name	
	Lead waste recycling	200 households/ 25 furnaces	production	Dong Mai-Van Lam-Hung Yen	
	Plastic waste recycling	> 400 places		Trieu Khuc-Thanh Tri-Hanoi Dong Mau-Yen Lac Vinh Phuc Tao Phu-Yen Lac-Vinh Phuc Nam My-Nam Dinh	
	Paper recycling	> 150 households	production	Duong O- Phu Lam-Bac Ninh	
	Metal, scrap iron recycling	700 places		Van Mon, Yen Phong, Bac Ninh, Da Hoi Chau Khe, Bac Ninh, Binh Yen, Nam Truc, Nam Dinh; Van Chang, Nam Dinh Tong Xa, Yen Xa, Nam Dinh	
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Policy of MSW segregation.

Difficult to operate because:

- The living standard of Vietnam is low, low opportunity cost → Households sell recyclables instead of letting collection companies collect
- ii. Collection units and disposal plants also benefits from increasing the volume of waste treated, not segregating waste.
- Policy of low collection fee.
- Policy of collecting contract: inadequate in terms of areas and duration agreements and fixed prices for transportation.
- Policy on encouraging to develop in modern methods:
 - Do not perform the transparency in MSW disposal costs in landfills operated and invested by local authorities
 - To be unclear about the incentives for enterprise using modern and hygienic technologies
- Policy of interregional waste management has not widely been implemented



Do policies on budget expenditure on MSWM make participants want to reduce the amount of solid waste?

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- Disposal enterprises, transportation units have more advantage when there is larger amount of sold waste→ they may find ways to increase the amount of MSW;
- Waste generators don't have to take enough responsibilty for the amount of waste they produce.
- Disposal market relation recommendations:
 - User fee equals the total management cost of MSW that households generate;
 - Local authority take the financial responsibilities for public solid waste;
 - Collection-transportation enterprises must pay tipping fee for disposal enterprises.
- SOFs
 - Should contract to collect waste in the waste-security area
 - · Equitization in large scale
- Government should stipulate the standard in management of solid waste. Based on that standard, Enterprises following the standard will enjoy priviledge in tax, land, capital... The bylaws have to specify preferential procedures.

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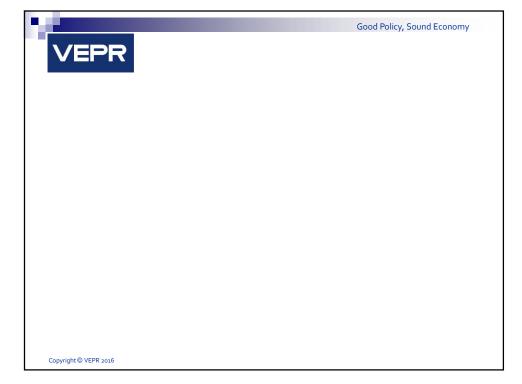
- Collection-transportation market
- + User fee imposed on households should be adjusted reasonably, equal to the total management costs of MSW thay they generate
- + Provincial authorities should sign the suitable contracts with collection-transportation enterprises:
 - · Contact duration should be 7 years;
 - Local exependiture is the whole costs of public solid waste management and subsidy for the poor. This expenditure should be a suitable lump sum in order that enteprises can be active for their technologies.
 - Collection areas should be large enough, favoring the economic scale.
 - Supports for collection units to be able to collect recyclables should be needed

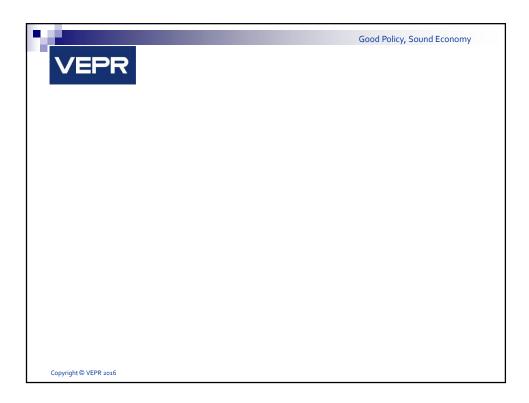
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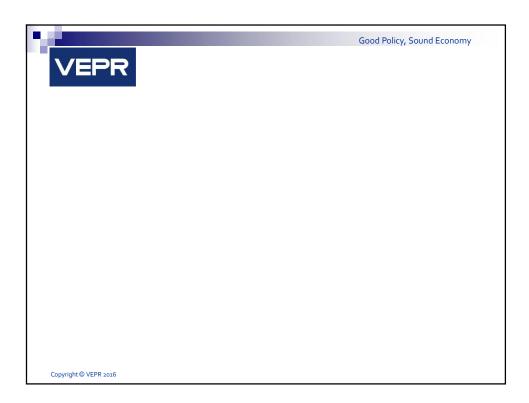


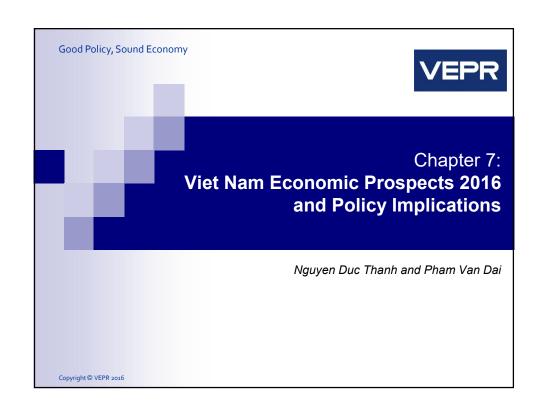
MSW treatment market

- + Changes in market demanders and suppliers.
 - Now, in several plants, authorities directly invest in, become the service suppliers.
 Meanwhile, almost all of the plants, authorities are the service demanders, spend on waste disposal.
 - To separate clearly the supervisor and the market players, authorities just play the role as a supervisor which observes the whole chain and control the quality. Authorities do not directly supply the services or pay for waste disposal in this market.
 - To clarify that the suppliers are the disposal plants while the demanders are collection-transportation enterprises. The collection-transportation units pay tipping fee to throw waste into the disposal plants.
- + To add the depreciation, manager salaries, post-closure expenses... up to disposal cost in the authority-invested landfill like Nam Son, Xuan Son.
 - To do this, the competive environment becomes fair, transparent
 - Disposal costs in these landfills now are just maintenance costs
 - Compare the real disposal costs of different methods to choose the most economic and sanitary method









Year	2012	2013	2014	2015	2016	2016
Tear	2012	2013	2014	2010	Scenario 1	Scenario 2
Growth						
(%)	5.25	5.42	5.98	6.68	6.05	6.38
Inflation						
(%)	6.81	6.04	1.84	0.60	4.24	5.17



VEPR Short-term issues

- That the budget surplus increased dramatically in the previous period will be one of the biggest risks faced by this economic cycle. The most fundamental issue was that the budget expenditure for the administrative system was huge compared to the total GDP.
- That inflation comes back was one of the most marked risks after a long time staying low.
- The domestic forex market still had latent external risk factors, with the most remarkable one being the crisis generating in emerging markets.
- Credit for real estate tended to soar. Transactions mainly took place in premium segment and the price level followed an upward trend, which induced worries about the sustainable growth of the market.

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- The banking system did not operate effectively and transparently.
- Administrative management measures, such as the interest rate ceiling policy, were weakening the system in the context of fluctuations in the economy.
- Growth momentums coming from the expansion in labor was frail and unable to recover. High economic growth rate must accompany with advancement in manufacturing capital, labor quality and technology.
- Public services should be privatized in a favorable market mechanism, so the social resources will be used effectively and budget deficit will be reduced. Municipal solid waste collecting and treatment market is a typical example.



- Comprehensively and effectively marketizing and easing control on the prices of public services
- Closely supervising the pace and quality of credit expansion, and avoiding a prolonged loosening monetary policy, from which an asset bubble could be formed.
- It is necessary to keep close watch on the development of the real estate market and prevent the formation of a new property bubble
- Administrative management measures distorting market principles should be lifted soon.
- The national governance system should focus on functions of technocrat teams. Establish national competitiveness council led by the Prime Minister or Vice Prime Ministers. This council needs to perform truly effective work to use competitive tools to promote efficiency and innovate the economy.

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146

Thanks for your attention!

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