

Study **MOTIVATION**



Study **OUTLINE**



EVOLUTION OF GLOBAL TRADE PATTERN



FACTORS
INFLUENCING
NEW
NORMAL IN
GLOBAL
TRADE
PATTERN

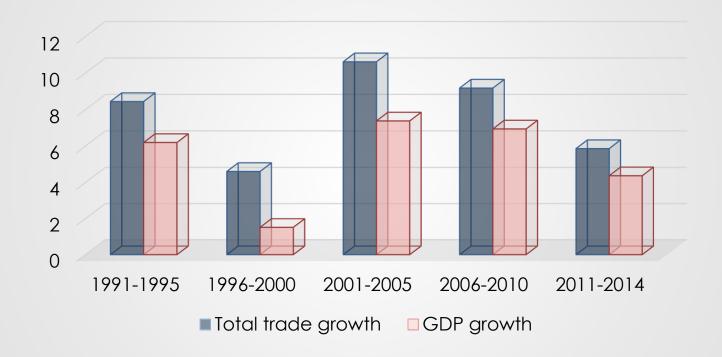
- Technological change
- A change in global supply chain



THE IMPACT
OF NEW
NORMAL IN
GLOBAL
TRADE
PATTERN ON
THAI
ECONOMY

O1 Evolution of global trade pattern GLOBAL TRADE AND GROWTH

Trade growth is much stronger than GDP growth during 1995-2005. This trend is changing!



SOURCE: UNCTADstat

Evolution of global trade pattern THREE ERAS OF GLOBAL TRADE



DRIVERS





Trade blocs with three centers (US, Japan, Germany)

- Fragmentation & vertical supply chain
- China's mega trade
- Lower global trade growth
- Horizontal supply chain
- South-south trade and FDI

FIRST UNBUNDING

SECOND UNBUNDING

THIRD UNBUNDING

Lower transportation costs

- Improvement in ICT technology
- The end of the cold war
- Technological change (Digital technology and energy technology)
- A change in global supply chains

THE NEW NORMAL OF GLOBAL TRADE:

The impact on Thailand's export structure and structural changes

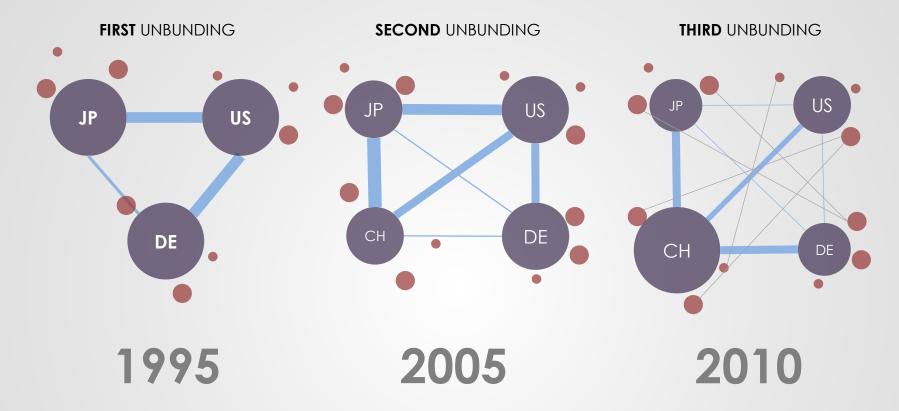
BOT

Symposium 2015

17 SEP 15

Evolution of global trade pattern GLOBAL TRADE NETWORK

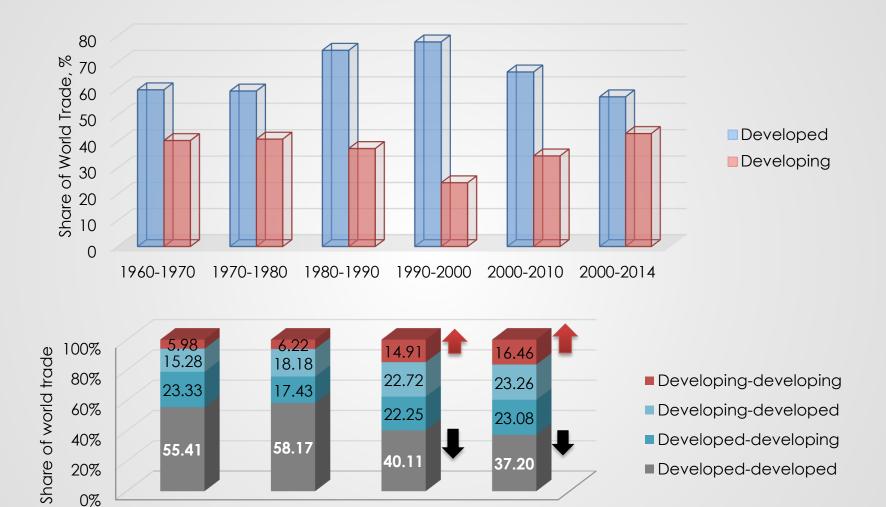
NOTE: For illustration purpose



- The size of the node is % of country's export to the world export
- The thickness of the line indicates the % of bilateral trade between two countries to the world export

SOURCE: Author's calculation (Appendix A)

O 1 Evolution of global trade pattern AN INCREASING ROLE OF DEVELOPING COUNTRIES IN GLOBAL TRADE



SOURCE: UNcomtrade

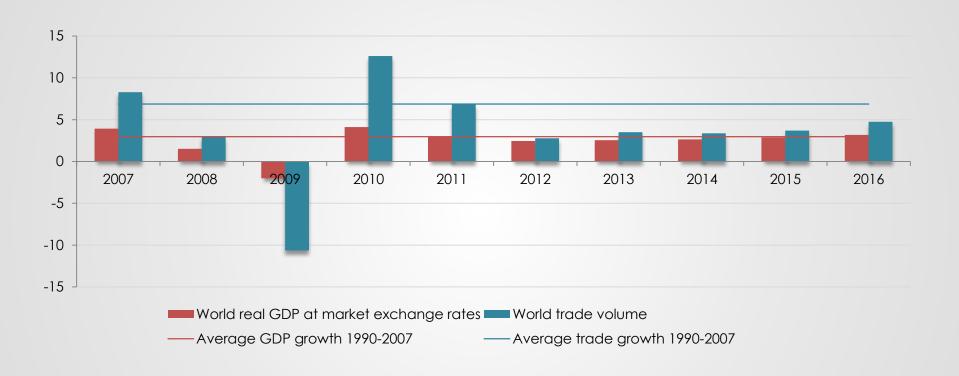
1995

2000

2013

2010

O1 Evolution of global trade pattern WHAT HAPPENS AFTER THE 2008-2009 GLOBAL FINANCIAL CRISIS?



SOURCE: World Economic Outlook Database, April 2015, IMF and WTO, 2015

Study **OUTLINE**



EVOLUTION OF GLOBAL TRADE PATTERN



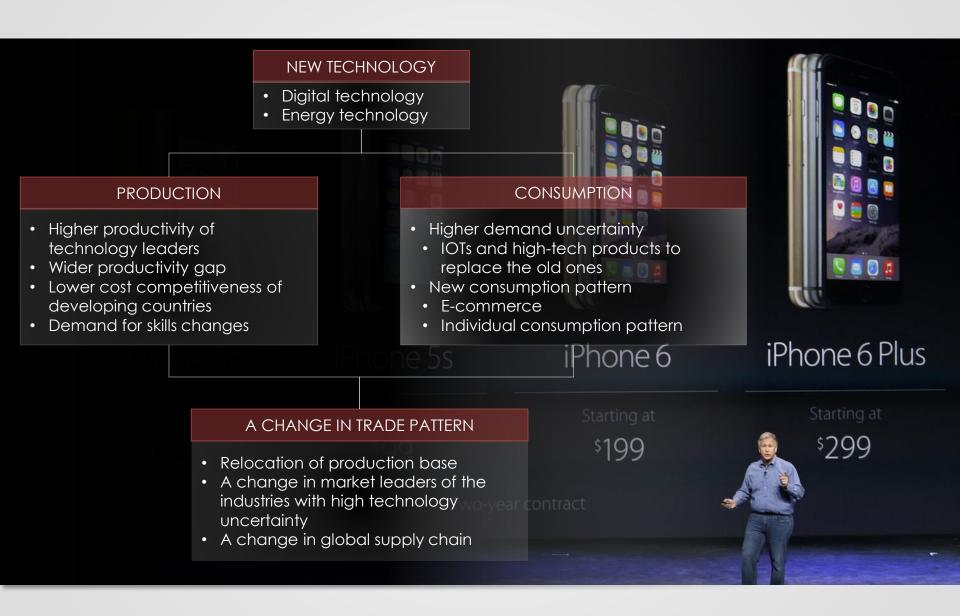
FACTORS
INFLUENCING
NEW
NORMAL IN
GLOBAL
TRADE
PATTERN

- Technological change
- A change in global supply chain

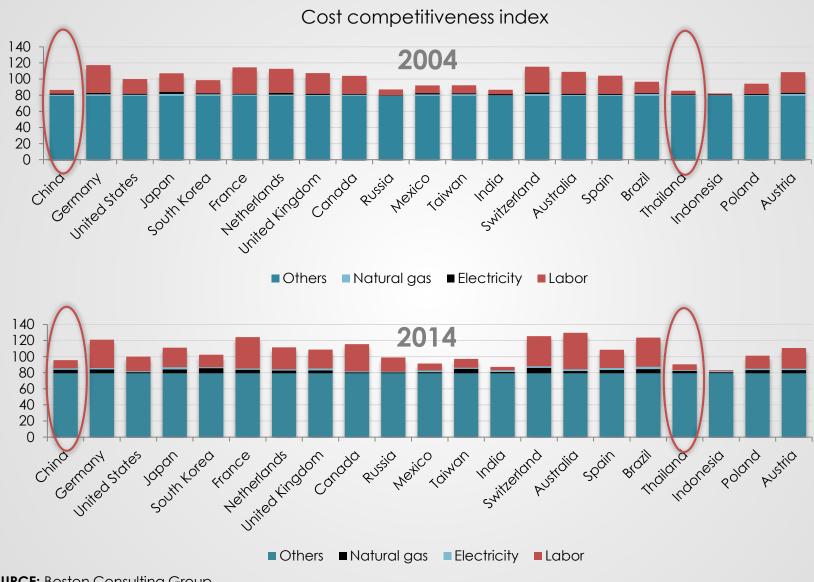


THE IMPACT
OF NEW
NORMAL IN
GLOBAL
TRADE
PATTERN ON
THAI
ECONOMY

Pactors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY



Pactors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY: PRODUCTION

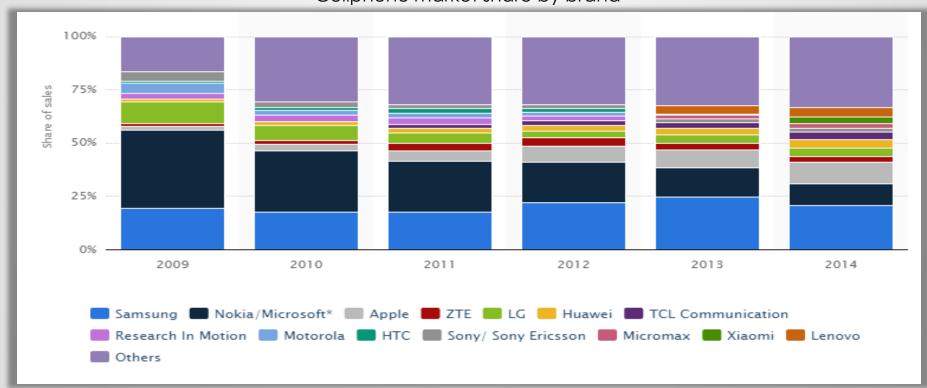


SOURCE: Boston Consulting Group

O2 Factors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY: CONSUMPTION

Market leaders in the industries with high technological uncertainty are changing!

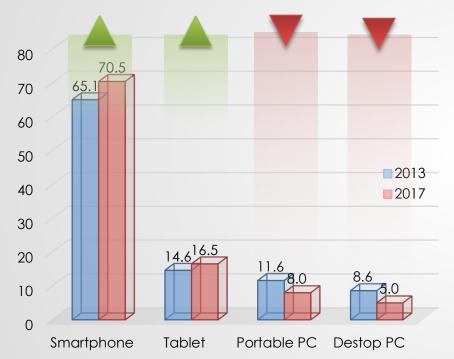
Cellphone market share by brand



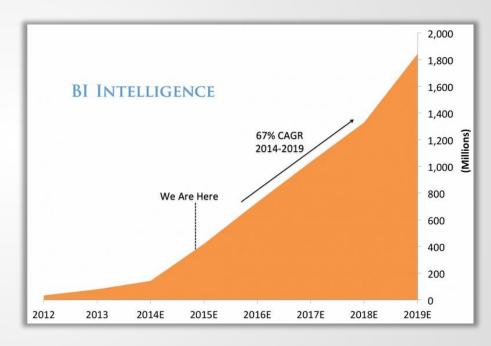
SOURCE: Statistica 2015

02 Factors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY: CONSUMPTION





Global connected-home device annual shipments



SOURCE: IDC

SOURCE: ABI Rearch, TechNavio, Pike Rearsh, BI Intelligence Estimates

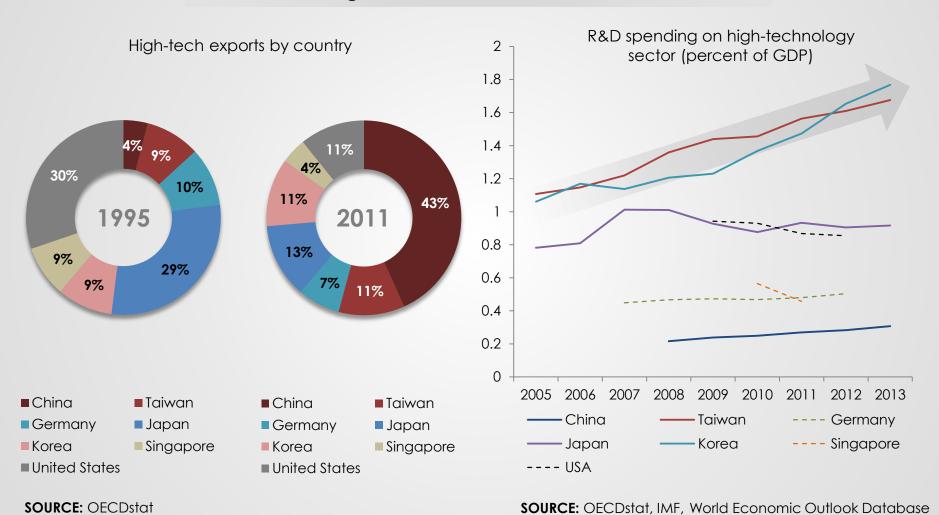
THE NEW NORMAL OF GLOBAL TRADE:

The impact on Thailand's export structure and structural changes

BOT Symposium 2015 17 SEP 15

02 Factors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY: TRADE PATTERN

An increasing role of China, Korea, and Taiwan!



THE NEW NORMAL OF GLOBAL TRADE:

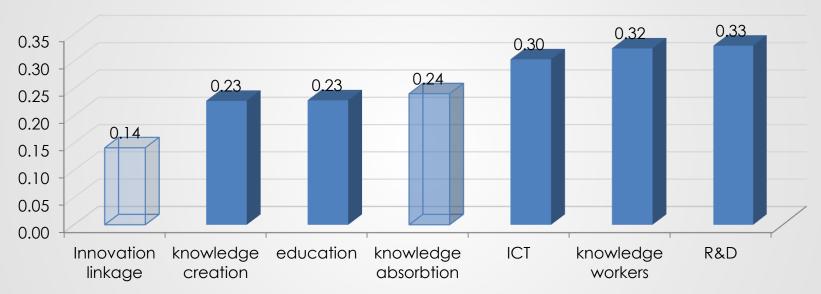
The impact on Thailand's export structure and structural changes

BOT Symposium 2015 17 SEP 15

O2 Factors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY: TRADE PATTERN

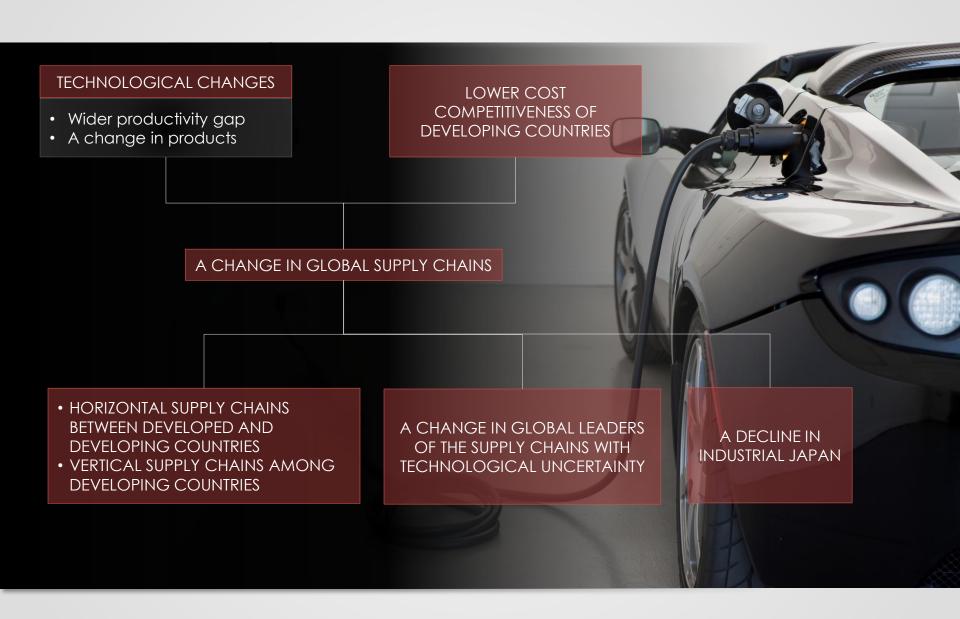
R&D, human capital and ICT infrastructure are the most important technology factors!

Export performance and technology factors



SOURCE: Author's calculation (Appendix C.)

Pactors influencing new normal in global trade pattern GLOBAL SUPPLY CHAIN PARTICIPATION

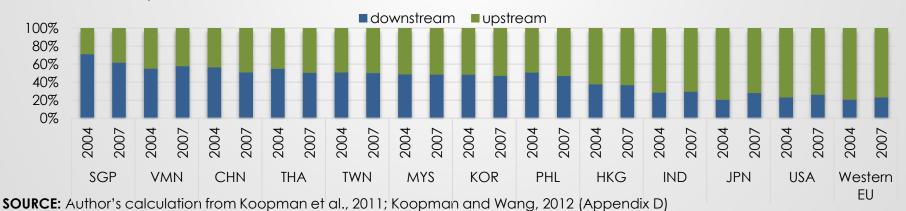


Factors influencing new normal in global trade pattern GLOBAL SUPPLY CHAIN PARTICIPATION

Developed countries concentrate on upstream but some developing countries are catching up!



A share of upstream and downstream



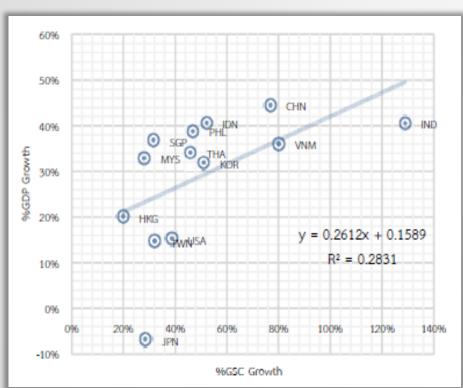
THE NEW NORMAL OF GLOBAL TRADE:

BOT Symposium 2015 17 SEP 15

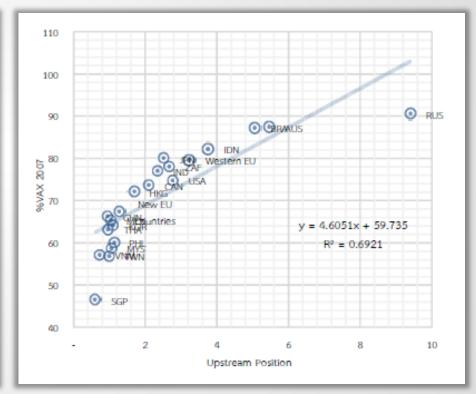
Pactors influencing new normal in global trade pattern GLOBAL SUPPLY CHAIN PARTICIPATION

GSC participation benefits from economic growth but upstream industries are the activities that contribute to domestic value added

GSC participation and economic growth



Upstream position and value added

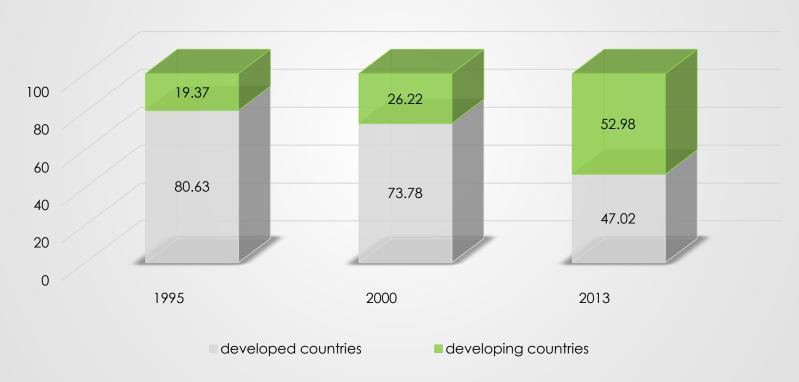


SOURCE: Author's calculation from Koopman et al., 2011 (Appendix D)

Pactors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: HORIZONTAL SUPPLY CHAIN

A closer gap between developed and developing countries!

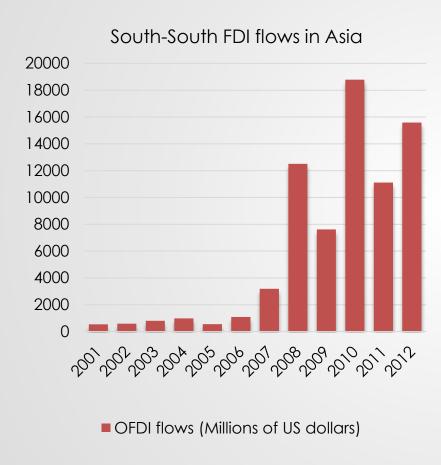
A share of high-tech export by economic group



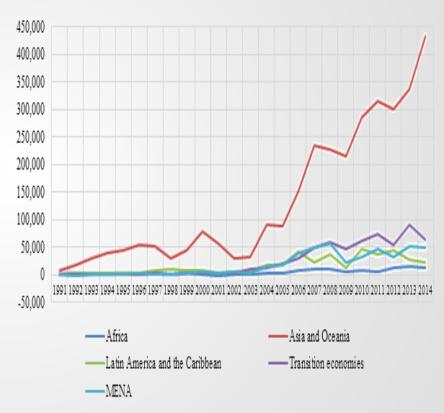
SOURCE: World Development Indicators

Pactors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: HORIZONTAL SUPPLY CHAIN

Formation of vertical supply chains among developing countries.



FDI flows from developing countries by region



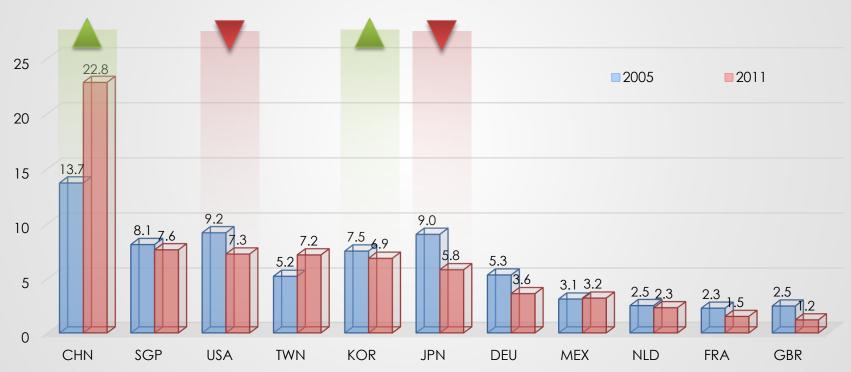
SOURCE: UNCTAD FDI/TNC database

SOURCE: UNCTAD,

Pactors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: A CHANGE IN GLOBAL PLAYERS

China and Taiwan have an increasing market share while Japan is experiencing a downfall in electronic industry.

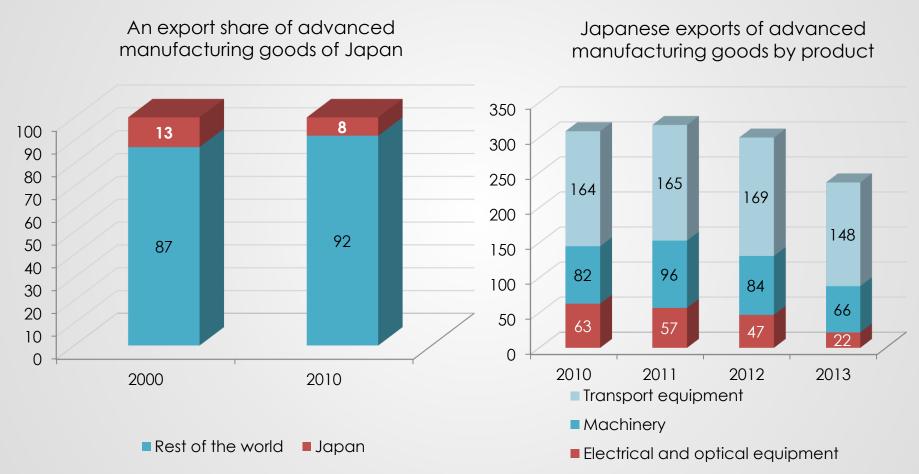




SOURCE: OECD

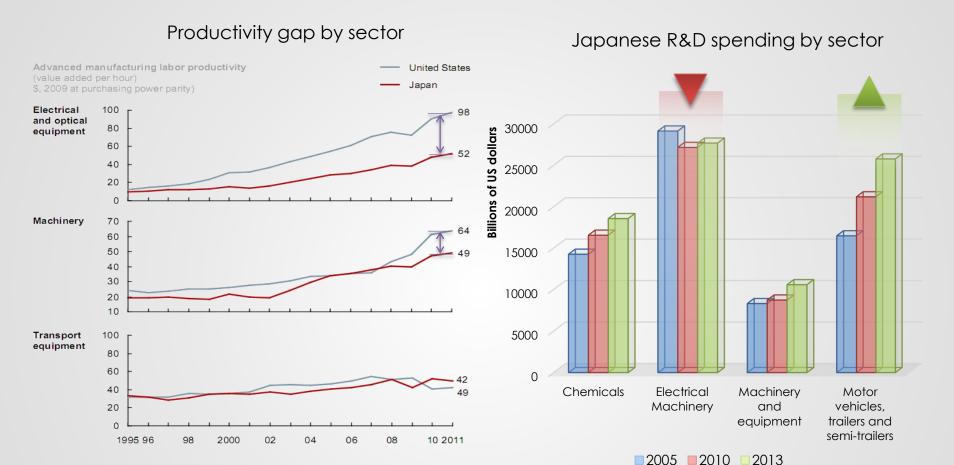
Pactors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: A DECLINE IN "INDUSTRIAL JAPAN"

A decline in machinery and electrical equipment industries in Japan.



SOURCE: Mckinsey Global Institute, 2015, calculated from World Integrated Trade Solutions Database

Pactors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: A DECLINE IN "INDUSTRIAL JAPAN"



NOTE: Advanced manufacturing labor productivity (value added per hour)

(US\$, 2009 at purchasing power parity)

SOURCE: Mckinsey Global Institute, 2015,

calculated from IHS, World Input-Output Database

SOURCE: OECDstat

THE NEW NORMAL OF GLOBAL TRADE:

The impact on Thailand's export structure and structural changes

BOT Symposium 2015 17 SEP 15

Study **OUTLINE**



EVOLUTION OF GLOBAL TRADE **PATTERN**



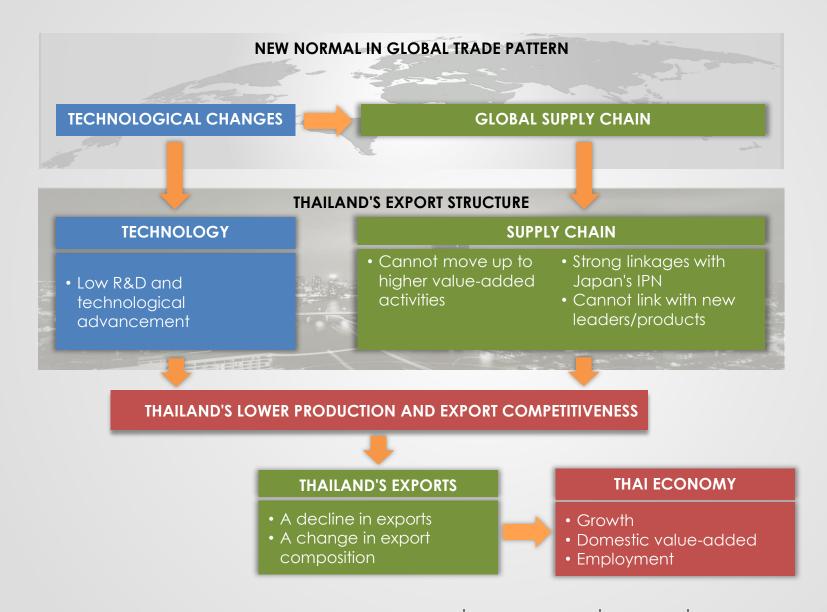
02 **FACTORS** INFLUENCING NEW NORMAL IN GLOBAL TRADE PATTERN

- Technological change
- A change in global supply chain



03 THE IMPACT OF NEW NORMAL IN GLOBAL TRADE PATTERN ON THAI **ECONOMY**

The impact of new normal in global trade pattern on Thailand's economy A CHANGE IN THAILAND'S EXPORT STTRUCTURE



Factors influencing new normal in global trade pattern

A CHANGE IN GLOBAL SUPPLY CHAIN: IMPACT ON THAILAND'S **EXPORT PATTERN**

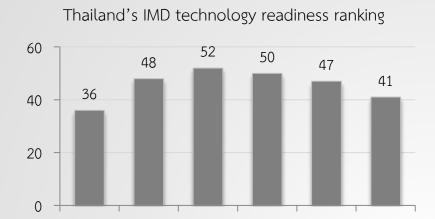


2012

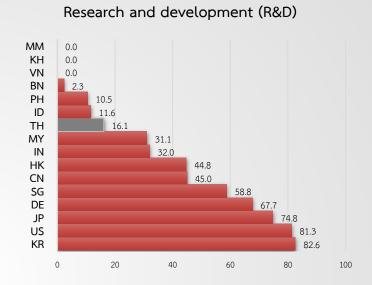
2013

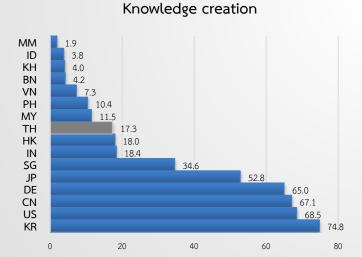
2014

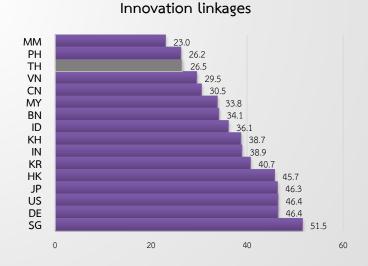
Factors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY ON THAILAND'S EXPORT PATTERN



2011







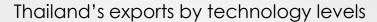
SOURCE: The Global Innovation Index, 2014 and IMD

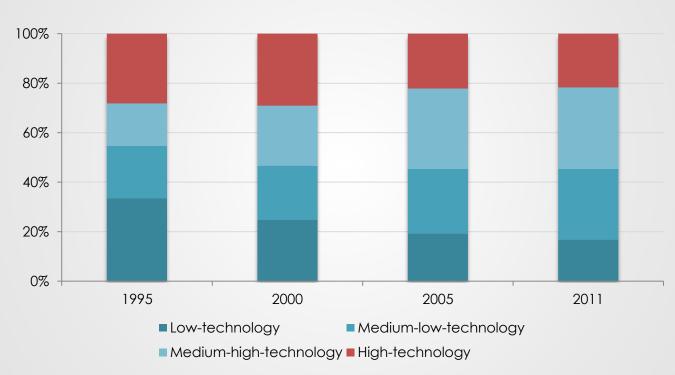
2009

2010

Pactors influencing new normal in global trade pattern THE IMPACT OF NEW TECHNOLOGY ON THAILAND'S EXPORT PATTERN

Thailand has a decreasing share of high-tech exports.





SOURCE: OECDstat

Factors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: IMPACT ON THAILAND'S EXPORT PATTERN

A CHANGE IN GLOBAL SUPPLY CHAIN Moving to horizontal supply chain New leaders in technology-related sectors · A decline of Japanese manufacturing sectors **THAILAND** Cannot move up to high- Weak linkages with the supply Strong linkages with tech sectors or higher chains of new products or Japanese supply chains value-added activities new market leaders A DECLINE IN THAILAND'S EXPORTS A CHANGE IN THAILAND'S EXPORT COMPOSITION

Factors influencing new normal in global trade pattern

A CHANGE IN GLOBAL SUPPLY CHAIN: IMPACT ON THAILAND'S

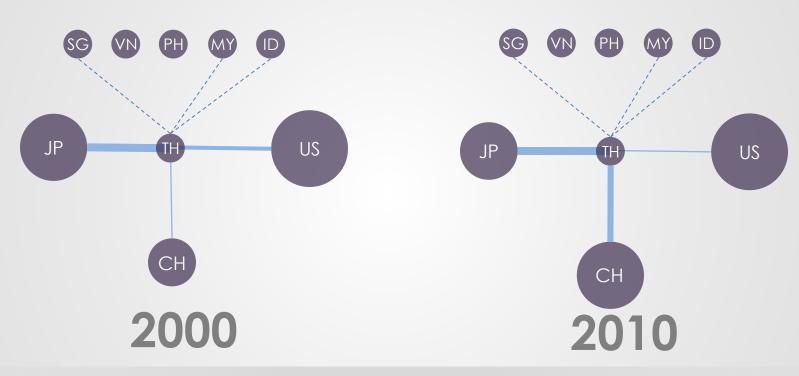
EXPORT PATTERN

NOTE: For illustration purpose

Strong reliance on Japan!

Thailand's trade network in 2000

Thailand's trade network in 2010

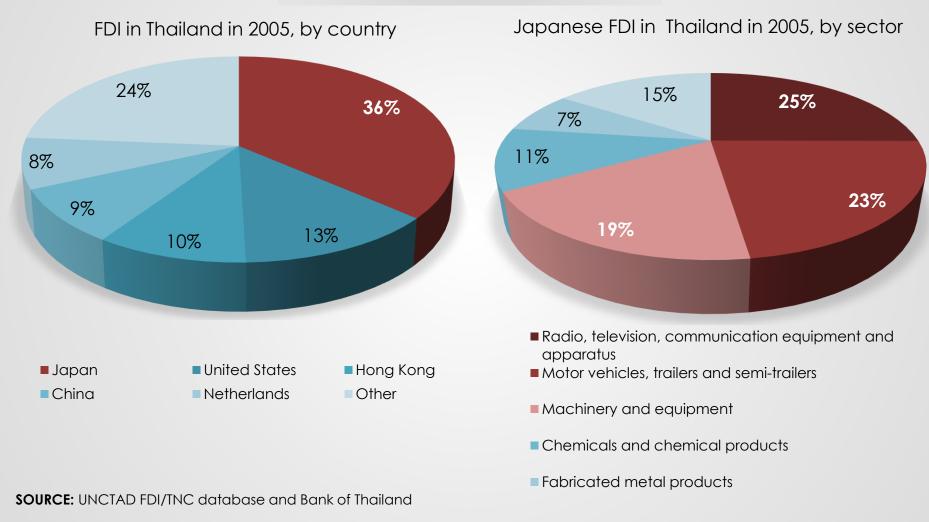


- The size of the node is % of trade partners' exports to Thailand's total exports
- The thickness of the line indicates the % of bilateral trade between trade partners and **Thailand**

SOURCE: Author's calculation (Appendix A)

Factors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: IMPACT ON THAILAND'S EXPORT PATTERN

Strong reliance on Japan!



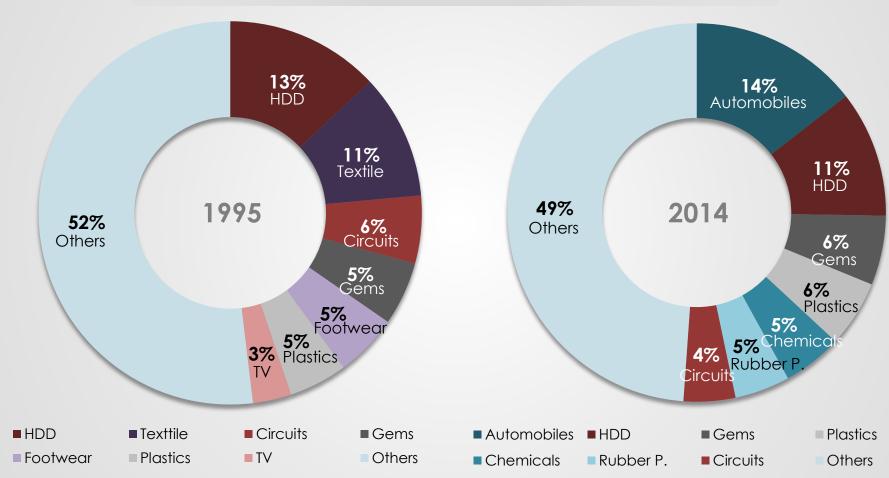
THE NEW NORMAL OF GLOBAL TRADE:

The impact on Thailand's export structure and structural changes

BOT Symposium 2015 17 SEP 15

Factors influencing new normal in global trade pattern A CHANGE IN GLOBAL SUPPLY CHAIN: IMPACT ON THAILAND'S **EXPORT PATTERN**

Thailand's export composition has changed overtime

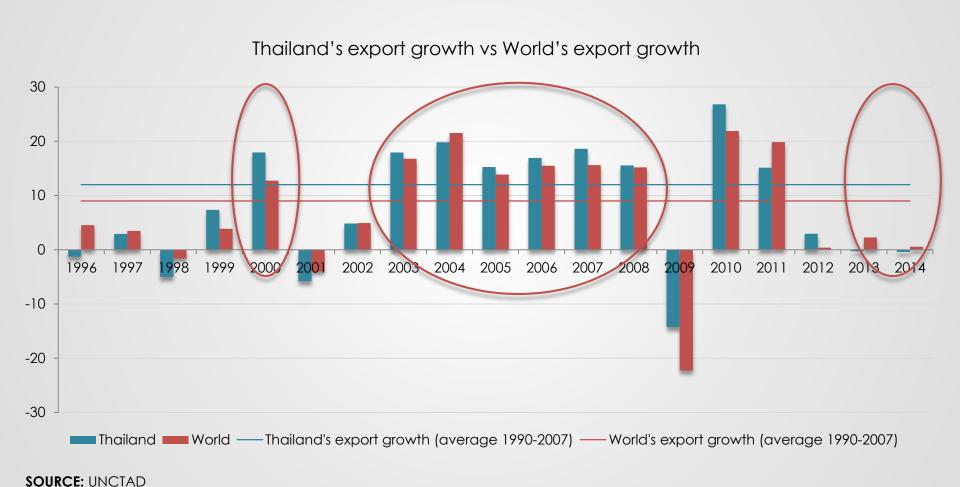


SOURCE: Ministry of Commerce, Office of the Permanent Secretary, Information and Communication Technology Center with cooperation of the Customs Department

THE NEW	NORMA	AL OF G	SLOBAL 1	RADI	E:

The impact of new normal in global trade pattern on Thailand's economy A CHANGE IN THAILAND'S EXPORT STRUCTURE

After 2012, Thailand's export growth is smaller than that of the world



THE NEW NORMAL OF GLOBAL TRADE:

The impact on Thailand's export structure and structural changes

BOT

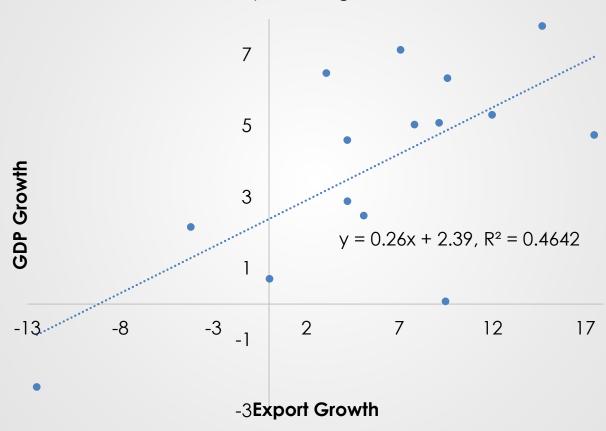
Symposium 2015

17 SEP 15

The impact of new normal in global trade pattern on Thailand's economy **EXPORTS AND ECONOMIC GROWTH**

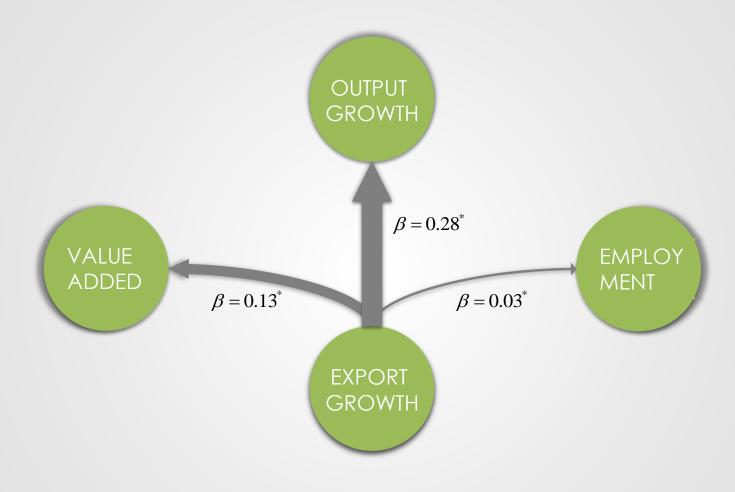
Export growth plays an important role in economic growth.

Thailand's export and growth overtime



SOURCE: Author's calculation

The impact of new normal in global trade pattern on Thailand's economy **EXPORTS AND OUTPUT GROWTH AT THE STRUCTURAL LEVEL**



SOURCE: Author's calculation (Appendix E)

NOTE: * denotes p-value<0.01

The impact of new normal in global trade pattern on Thailand's economy **CONCLUSION**

- The new normal in global trade is driven by changes in technology and global supply chain.
- All changes have negative impacts on Thailand's export performance.
- Technology: Thailand's costs of production are rising relative to developed countries. But Thailand cannot upgrade to more advanced technology or upstream industries.
- Supply chain: Thailand has strong linkages with Japan which is losing its leadership in markets. Moreover, Thailand cannot create new linkages with new leaders.
- A drop in exports would cause drop in output, value added and employment.