

Dr. Edward Wang

Outlines

- > Introduction
- ➤ International Market Overview 針對國際市場特性加以介紹
- ➤ Opportunities and Threats
 針對市場機會、威脅進行分析
- ➤ Trends and Future Strategies 進行市場趨勢預測
- Lessons Learned

Basic Business Resources

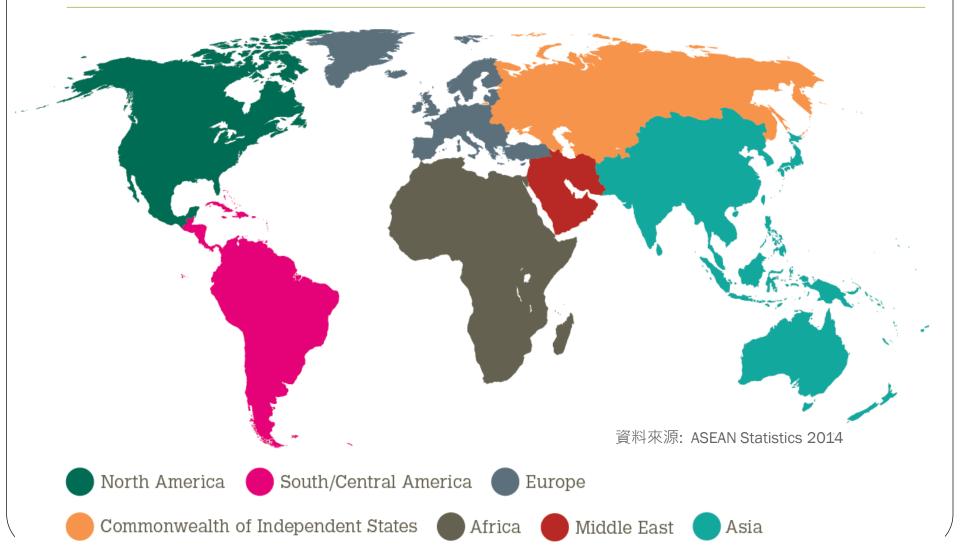
- Government Officers
 - Ministry of Foreign Affairs
 - Overseas Compatriot Affairs Commission
- Taiwan External Trade Development Council v.s. Chinese International Economic Cooperation Association
- Taiwanese Overseas Business Entity, Chamber of Commerce
- Local Agencies, brokers and Website Information
- Asian Development Bank, WB, EDRB
- NGO (Education Programs)

International Market Overview

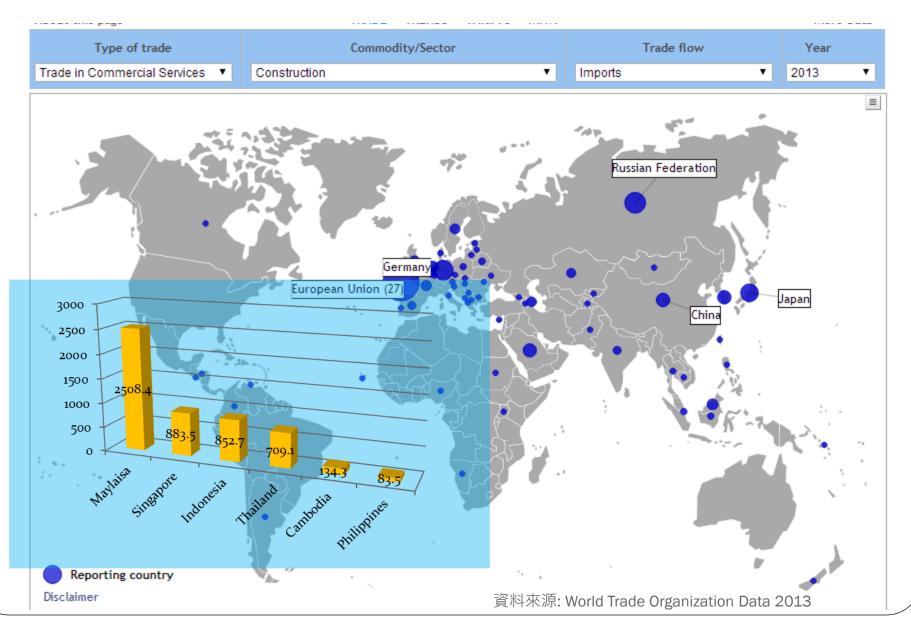
- World Economy and Globalization
- Global Construction Industry
- Market Segments
- Market Competition
- Clients and Procurement Methods

International Market Overview

Composition of geographical regions

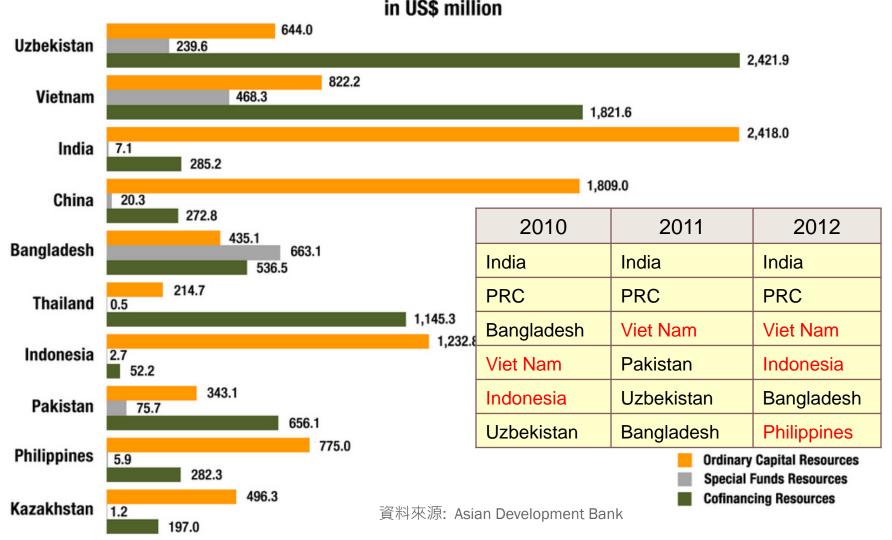


Market Size Estimate



Funding Resources

Top Asian Development Bank Aid Recipients (2012) in US\$ million



Opportunities and Threats (1/2)

- Infrastructural Development Experience
- Taiwan Higher Education System (Manpower)
- Past Experience on Multi-hazard Disasters
- Advantageous Location and Raising China
- Soft Skills
- World Perspective (after Japanese Disaster)
- Tolerance and Acceptance of Cultural Differences
- Ethics and Diligent Working Attitude
- Freedom and Democracies

Opportunities and Threats (2/2)

- Lack of Diplomatic Angle
- Weak Communication Skill
- Engineering Tradition and Mentality
- Lack of Track Records
- Conservatism
- Severe Local Competition
- Insufficient on Legal and Financial Training
- Long Term Investment
- Lack of teamwork experience

Critical Issues Entering Market(1/3)

Corporate Perspective

- Understanding local procurement methods, legal systems, and corruption – risk management
- Visas, Work Permits, Professional Licensure and Corporate Registration
- Firm Business models Consortium, J.V., Sub-contract, outsourcing, etc.
- Company policies, incentives, relocation packages, IT support, knowledge management, training, and logistics.
- Profitability and Promising Future

Critical Issues Entering Market(2/3)

Individual Perspective

- Proper level of skill sets, effective communication
- Projects duration and compensation
- "individuals mobility" taking into account interpersonal skills, age, emotional deprivation, location, and family concerns
- Motivation

Critical Issues Entering Market(3/3)

System Perspective

- Continue Training on management-related subjects
- social sciences and liberal arts
- Mentor and Mentees
- methods of learning, and life long learning
- Legal and Culture
- Progress monitoring and Quality Control
- ERP

Trends and Future Strategies (1/2)

- Alliance
- Multi-disciplinary integration
- Flexibility and Mobility
- Sustainability and Environmental Concerns
- Green Energy
- Design/Build
- Capital Investment, BOT
- Public Private Partnership, PPP

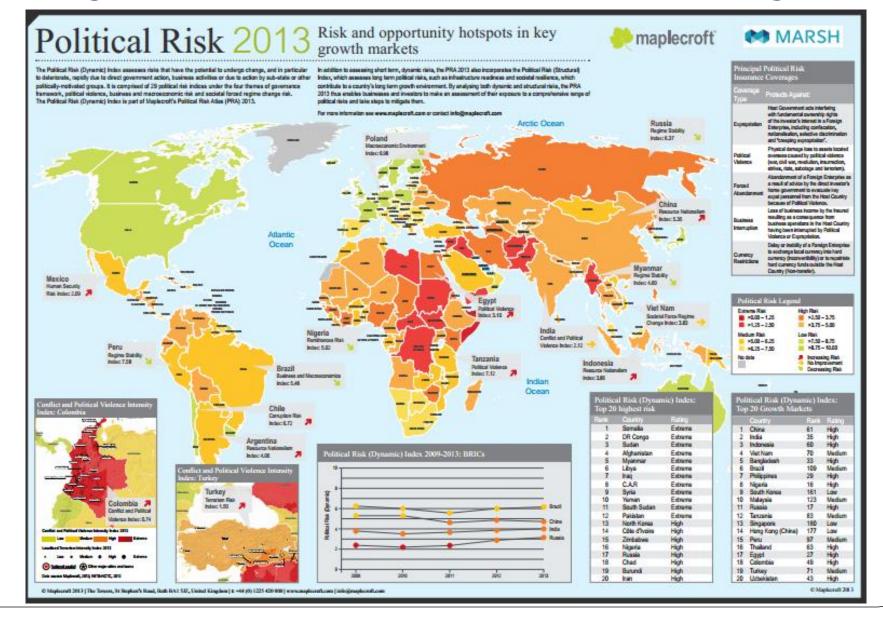
Trends and Future Strategies (2/2)

- Creativity
- Technology Transfer, IT and services
- added value in culture, education, and humanity
- Planning and one-stop solution (upstream and downstream integration)
- Branding
- Long term Partnering with locals and developers, investors
- Quality and culture

Key Items - Competition



Key Items - Political Stability

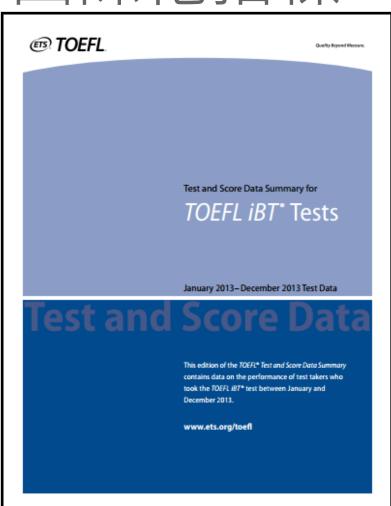


Key Items - Social Safety

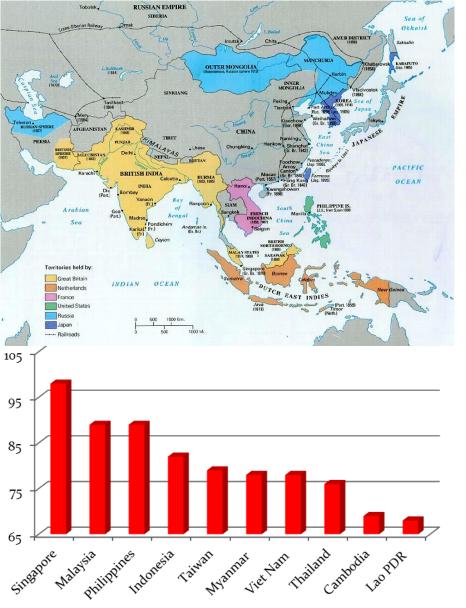


Key Items - Globalization

國際化指標



資料來源: TOFEL Test and Score Data 2013



Key Items - Manpower

產業人力 Tertiary graduates by level of education

Country	2007	2008	2009	2010	2011	2012
Brunei Darussalam	1,613	1,544	1,683	1,675	1,813	1,939
Cambodia	16,187	16,708			32,177	
Indonesia			799,368	811,455		
Lao PDR			18,988		34,673	31,496
Malaysia	181,404	206,588	226,808	226,303	204,782	
Myanmar	104,590				134,624	
Philippines			469,654			
Singapore						
Thailand	500,731	541,886	540,522	534,736		
Viet Nam	242,026	243,517	224,762	273,301		417,436

資料來源: UNESCO Data 2012

Key Items - Labor Market 產業人力

Global Employment Trends 2014 International Labor Organization



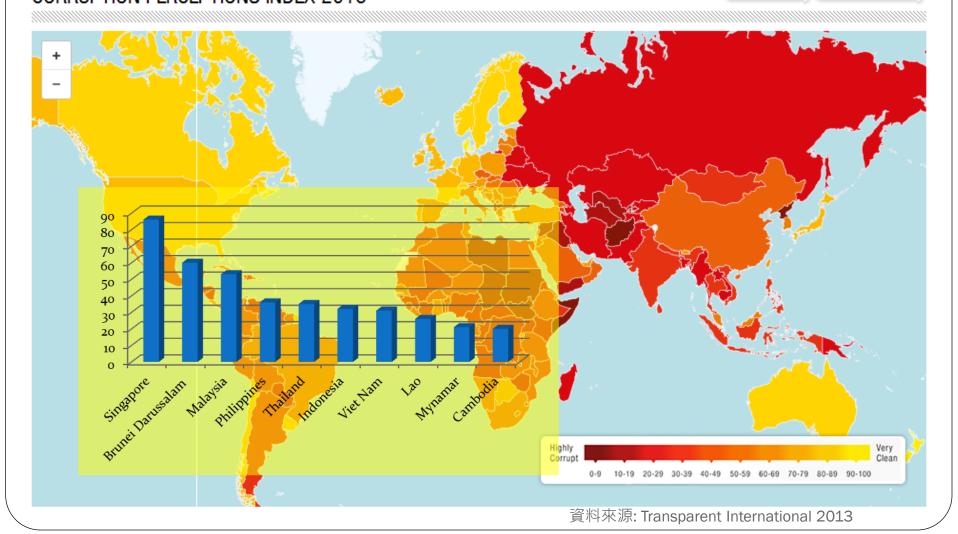
	2005	2006	2007	2008	2009	2010	2011	2012	2013
Cambodia	1.3	0.8	0.5	0.2	0	0.4	0.3	0.2	0.3
Thailand	1.3	1.2	1.2	1.2	1.5	1	0.7	0.7	8.0
Laos	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Viet Nam	2.1	2.3	2.3	2.4	2.3	2.3	2	1.8	1.9
Singapore	4.1	3.6	3	3.2	4.3	3.1	2.9	2.8	3.1
Malaysia	3.5	3.3	3.2	3.3	3.7	3.4	3.1	3	3.2
Myanmar	3.4	3.4	3.4	3.6	3.6	3.5	3.5	3.4	3.5
Brunei	3.2	3.2	3.2	3.2	3.5	3.7	3.7	3.8	3.7
Indonesia	11.2	10.3	9.1	8.4	7.9	7.1	6.6	6.1	6
Philippines	7.7	8	7.4	7.3	7.5	7.3	7	7	7.3

Source: International Labor Organization
Infographics by: Matikas Santos/INQUIRER.net

Key Items - Transparency 貪腐特性

CORRUPTION PERCEPTIONS INDEX 2013

VIEW BROCHURE VIEW RESULTS TABLE



Singapore Market Analysis - Sample

Company Strength

Open and Transparent Market

MRT Projects lined up next 20 years

Cost of living (room for profit)

Similarity in Culture

Shortage of Manpower

Access to ASEAN Countries

Direct World Class Competition

Who are Clients

Land Transport Authority (LTA)

Building & Construction Authority (BCA)

Maritime and Port Authority of Singapore (MPA)

Public Utilities Board (PUB) Singapore Power

National Environment Agency (NEA)

Major Developers

A1 Contractors (44 Class A1)

A1 Architects (43 AR01)

Private Sector

Taiwan Business Entities (Chunghwa Telecom...)

Who are major Competitors

Name	Prequalified as	Notes	
AECOM Singapore Pte. Ltd.	CS01, ME01	Former Operating Company: ENSR, Maunsell	
Arup Singapore Pte. Ltd.	CS01, ME03		
Parsons Brinkerhoff Pte. Ltd.	CS01, ME01		
SKM Singapore Pte. Ltd.	AR03, CS01, ME02, PM02 QS03	Team up with BECA	
BECA Carter Hollings & Ferner (S. E. Asia) Pte. Ltd.	CS01, ME01	Team up with SKM	
T. Y. Lin Internationals	CS01, ME01		

(Class CS01)

Market Approaches (1/4)

Full Commitment (initial stage) Sending a pioneer team with sufficient number of employees. The critical mass would demonstrate TECA's commitment to the Singapore market.

While residing in Singapore, the team can help local partners or become sub-consultants to other project team members such as contractors. (mid stage)

Build up relationships in the government and private sectors, gradually establishing trust and word of mouth recognition. (long term)

Market Approaches (2/4)

Through a joint venture with major local companies working on joint contracting projects. (initial stage)

As time goes on, continue to draw on local expertise and manpower to perform work in Singapore. (mid Stage)

After this foundation is laid, gradually seek to play a major role on these teams as more experience is gained. (long term)

Market Approaches (3/4)

Strategic hiring of senior engineers (or a team of professionals) from local competitors. (initial stage)

Provide business expansion incentive/bonuses to this cadre of engineers to grow the local office as a "profit center". (mid stage)

A team of management experts and a skilled administrative staff can foster the local operation. (long term)

Market Approaches (4/4)

Through mergers and acquisitions of local companies or enterprises with high growth potential. (initial stage)

Take advantage of the existing company's name brand, technical capability, management and marketing experience. Ideally only a minimum capital injection will be required. However, the controlling factors are incidental, depending on timing.

Winning Strategies

Project Name: Eastern Region Line

Background Information:

Basic Requirements:

- 1. Qualified Team and Member
- 2. A Strong P.M.
- 3. Selling Points: BIM, creativity in technology, added value in culture, superior manpower
- 4. Commitment
- Coordination (TECA position)

Learnt from the Past experience

Winning Strategies

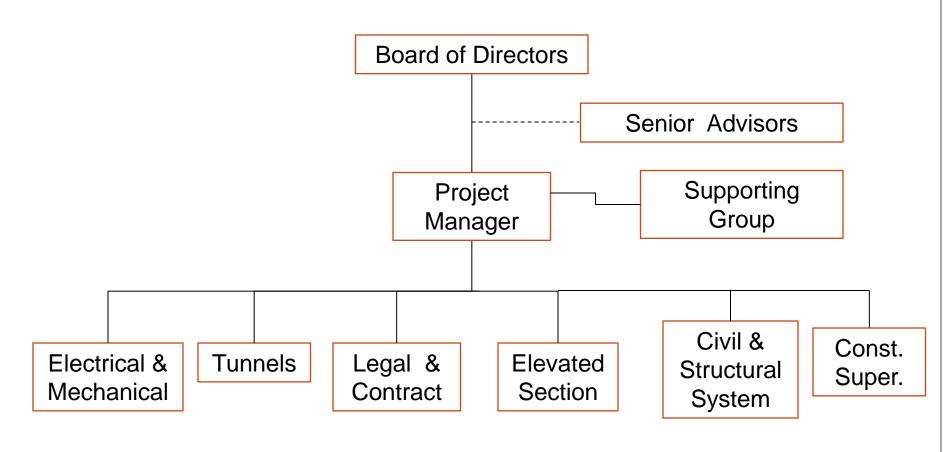
- Resources :MAA Singapore Office (geotechnical investigation data bank) and CTCI current project Office (20s staff)
- Existing Network and Connections
- Taiwan External Trade Development Council's staff and resources
- Seeking Singapore P.E. examinees
- Presence in training (LTA Academy)
- Familiarity in British Standard
- Scheduled visits (at least three times before FRP)

Who may Team up with

No.	Name	Qualified as	Previous	
1	Meinhardt Infrastructure Pte. Ltd.	CS01, ME01	Nicoll Highway, Singapore Circle Line, Singapore	
2	Tritech Consultants Pte. Ltd.	CS01	Downtown Line, NATM Excavation MRT C856, MRT Circle Line	
3	Worley Parsons Pte. Ltd.	CS01, ME01, PM01	No MRT	
4	Jurong Consultants Pte. Ltd.	CS01, ME01	No MRT	
5	Mott MacDonald Singapore Pte. Ltd.	CS01, ME01	No MRT	
6	CPG Corporation Pte. Ltd.	AR01, CS01, ME01, PM01	Changyi MRT	

Winning Strategies

Proposed Organizational Chart – project specific (MRT)



Closing Remarks

IT'S ALL ABOUT RELATIONSHIPS

