
The Getting of Wisdom

Using ICTs Innovation and Knowledge Drivers for a Superlative Industry Role



Joint Foreign Chambers of Commerce in Thailand

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Keynote Address at ICT Excellence Awards

28 May 2013

www.jfcct.org



[Joint Foreign Chambers of Commerce in Thailand](http://www.jfcct.org)

TMA 28 May 2013

Synopsis 1



The ICT sectors are strategic: an efficient, effective, innovative and attractive info-comms sector can have a multiplier effect on the rest of the economy. IT / ITES are the great enablers. Through commitment to a shared vision for excellence, overcoming barriers and working to overcome the often negative effect of vested interests, the ICT sectors represent the machinery to take us beyond a knowledge-based economy to an economy and society *and a region* of wisdom.

But how are we doing? What is the status of the info-comms industry? Of the IT sector? What are the institutional and societal support factors, innate strengths and positive developments and what are the roadblocks? Are we ready for a regional, inter-connected role? What do we need to do to be really excellent and make us shine so that we better service the Thai economy and play a contributive and leading regional role?



Synopsis 2



The Joint Foreign Chambers of Commerce represents some 29 foreign chambers with members which have put down roots in Thailand over many decades. Its ICT Group has been working with its members and government for well over a decade on local and foreign trade and investment issues with the objectives of helping to make the economy more competitive and strengthening it, especially in a regional context. JFCCT works with EABC closely on ICT and other matters, and with local ICT industry groups.

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Agenda



1. Regional Connectivity & how we appear in the region
2. Role of ICT; Telecoms in the economy
3. About the Services Sector
4. Snapshot of telecoms issues in Thailand – status, issues, policy & private sector action
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Connectivity



Masterplan on ASEAN Connectivity 2010

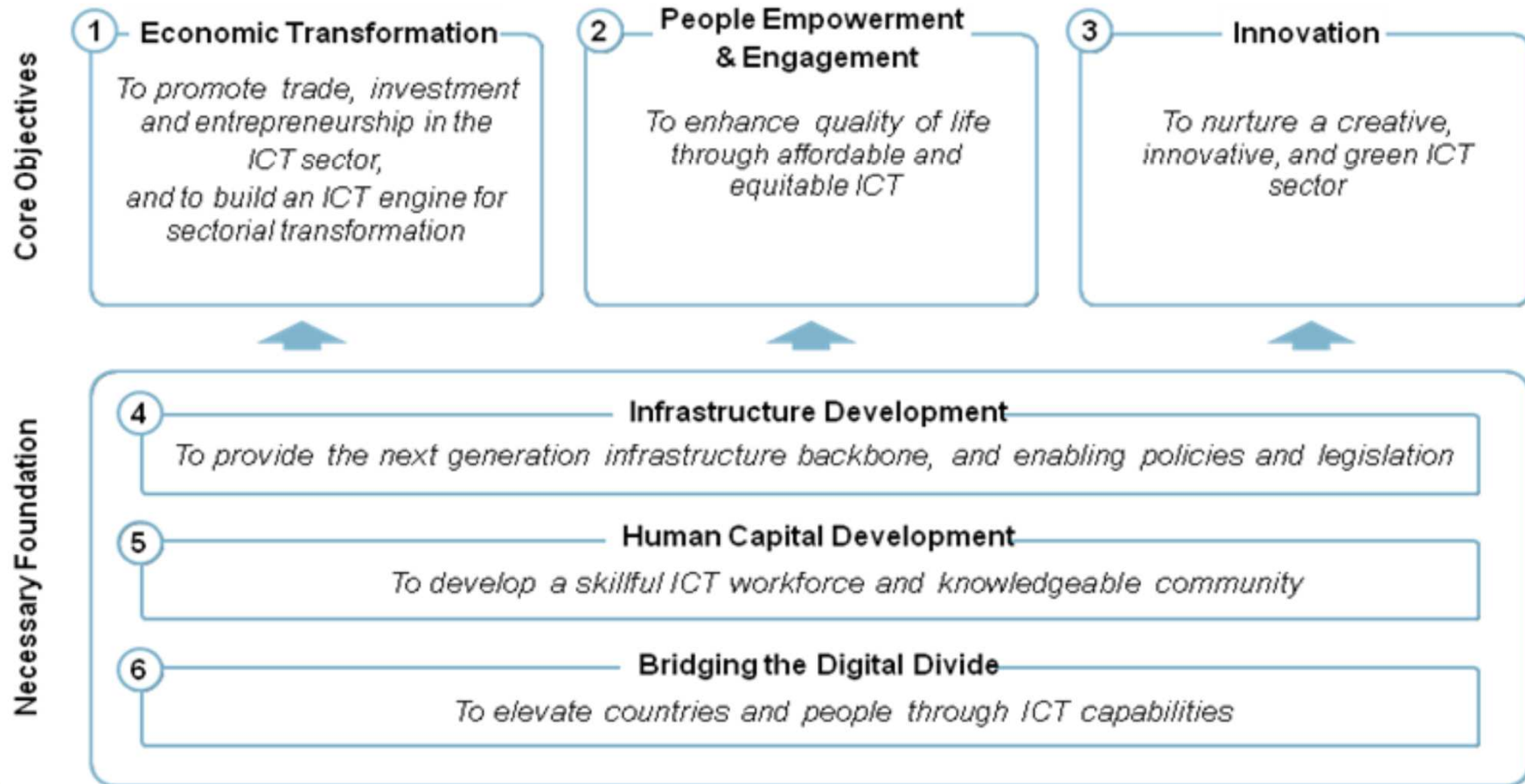
Physical
Institutional
People-to-People



ASEAN ICT Masterplan (AIM)



“Towards an Empowering and Transformational ICT: Creating an Inclusive, Vibrant and Integrated ASEAN”





ASEAN Broadband Corridor (ABC) – what is it?

Physical network – eg like Acacia Sdn Bhd's or a cable consortium's? - No, it does not need to be.

Overlay network with specific applications and services (eg G to G tool and reaching out to citizenry?)? – No but it could support that

An agreement to identify cities / locations with reasonable propensity for broadband take up? – Yes

A way of connecting them and encouraging use of broadband? -
Yes

A way of accelerating broadband penetration? – Yes

A policy intention, leading to a policy instrument? - Yes

Source: Author's presentation on ABC at ASEAN ICT Masterplan (AIM) conference 2012



Inter ASEAN / multi-local / intra ASEAN ?



Broadband penetration

Fixed Broadband Internet Subscribers

Fixed broadband Internet subscribers per 100 inhabitants	ITU (2010) ¹	World Bank (2010) ²	Government targets
Brunei	5.44%	5.44%	
Cambodia	0.25%	0.25%	
Indonesia	0.79%	0.79%	30% Broadband penetration by 2014
Laos	0.19%	0.19%	
Malaysia	7.32%	7.32%	75% Broadband penetration by 2015
Myanmar	0.03%	0.03%	15% Teledensity for fixed line and broadband by 2015
Philippines	1.85%	1.85%	-
Singapore	24.94%	24.77%	95% Household and commercial coverage by mid-2012
Thailand	4.61%	3.87%	95% Broadband penetration by 2020
Vietnam	4.13%	4.18%	20-30% Broadband penetration by 2015

Source: Author's presentation on ABC at ASEAN ICT Masterplan (AIM) conference 2012

Source: TRPC Background paper, using ITU and World Bank data



Recognise vast differences

Networked Readiness Index (2012) published by WEF &
INSEAD (Global IT Report). NRIs for ASEAN: (of 142)

Brunei	54
Cambodia	108
Indonesia	80
Laos	NA
Malaysia	29
Myanmar	NA
Philippines	86
Singapore	2
Thailand	77
Vietnam	83

Broadband penetration
– also vast differences
(see 2013 later)

See also BSA scorecard



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Dual Role of Telecommunications Services



Telecommunications -- dual role in the economy. See GATS telcoms Annex & FTAs with telecoms chapters.

- (i) Telecommunications (and ICT) in its own right as an industry – a productive and attractive industry**

- (ii) The rest of the economy needs many services – key include efficient, high quality and cost effective telecommunications infrastructure and services;**

Thus telecoms - key 'strategic' industry; its proper functioning, regional competitiveness and effectiveness -- vital to the economy overall and regional cohesion and hegemony

Multiplier effect



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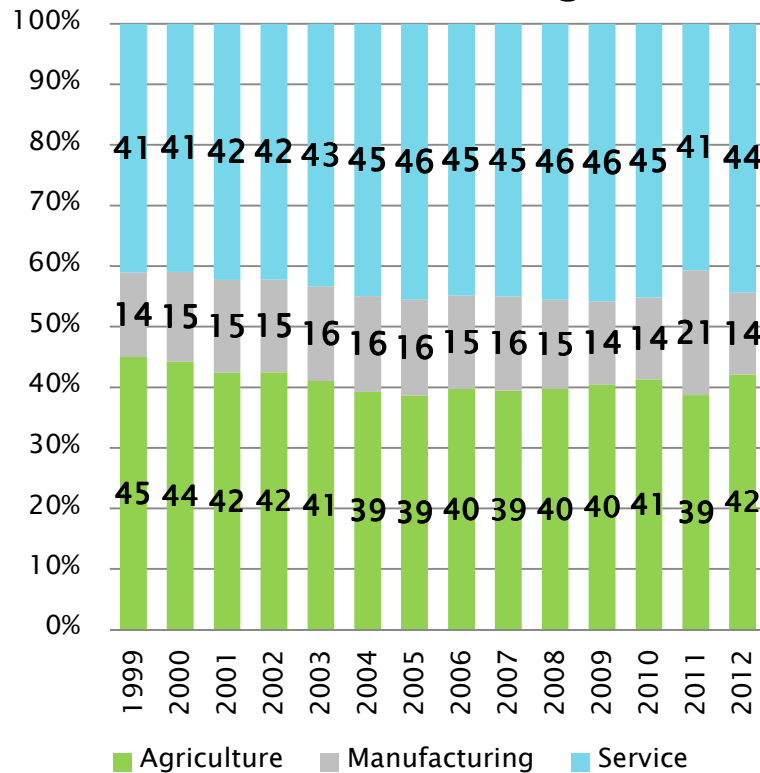


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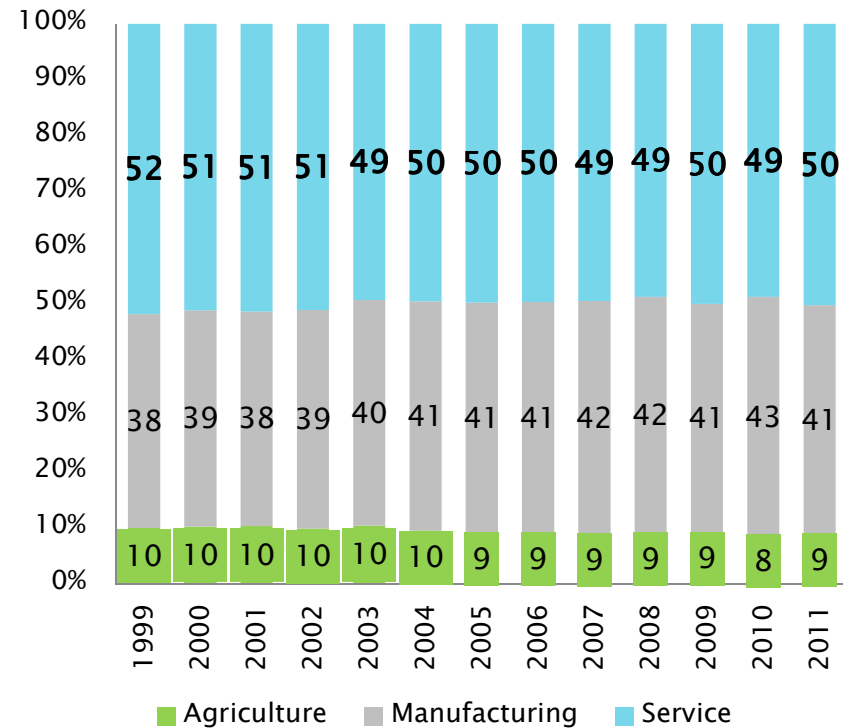


Service sector productivity needs improvement

The service sector employs 44% of the labour force compared to 14% for manufacturing



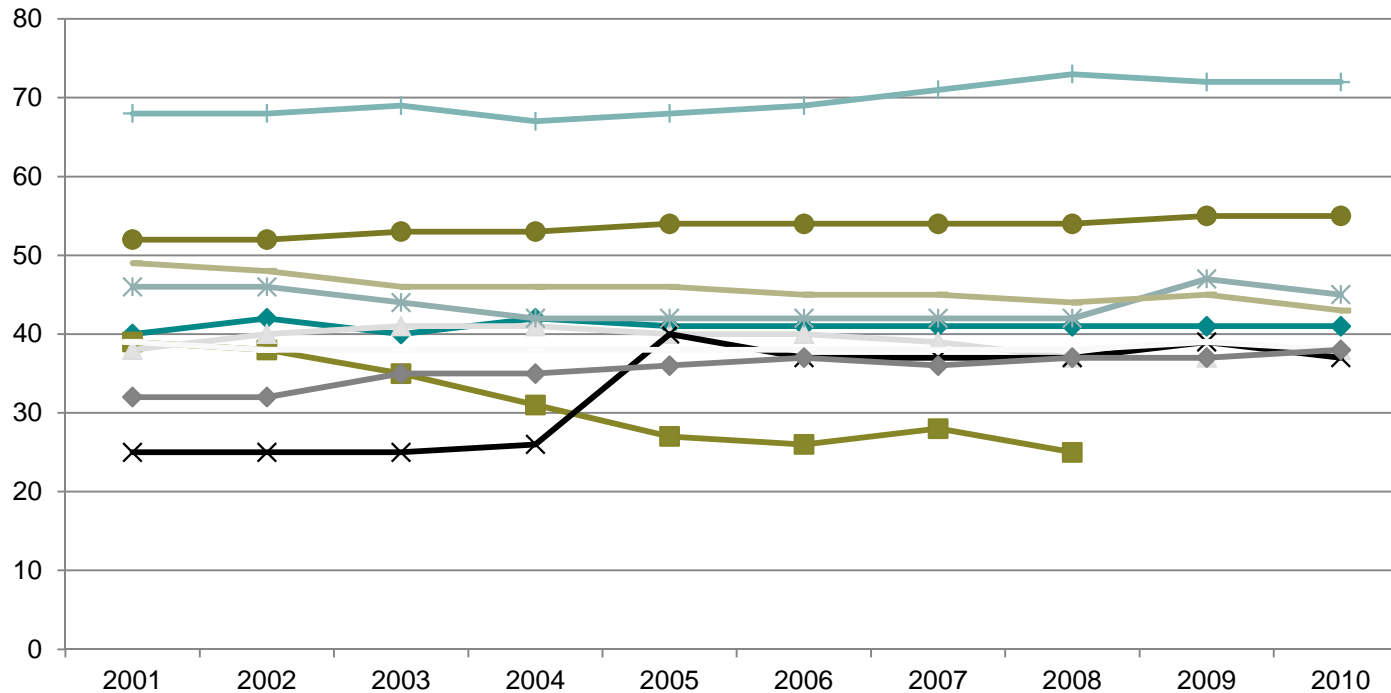
50% of GDP comes from the service sector compared to 41% from manufacturing



How important is service sector ?



Service sector GDP share

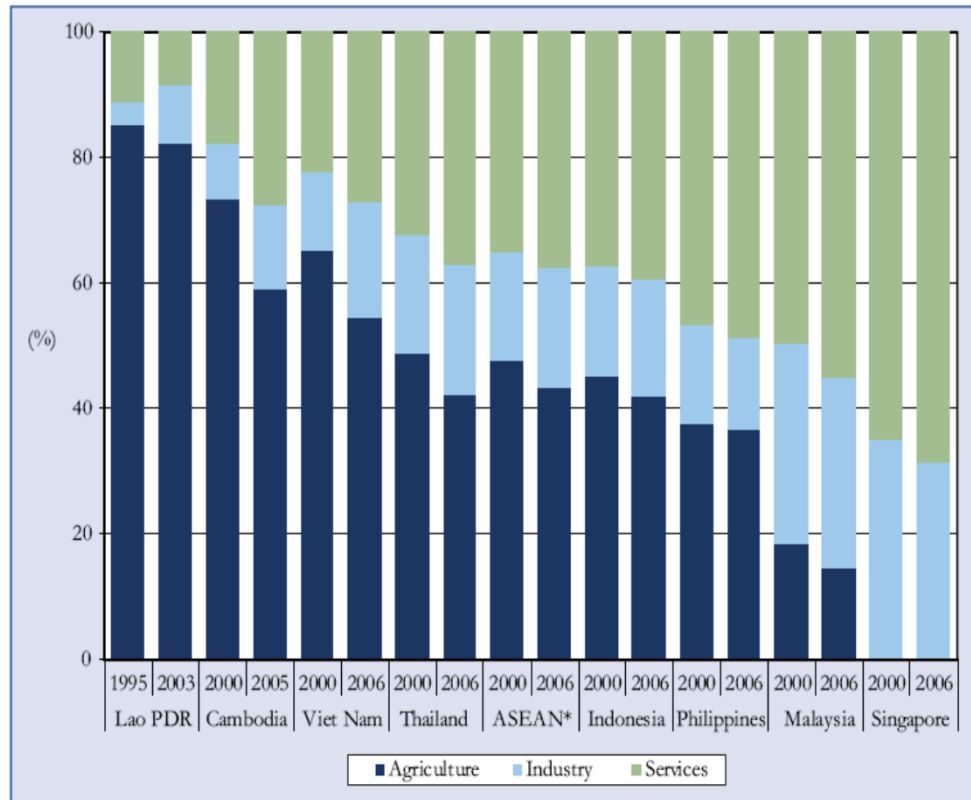


- ◆ Cambodia
- ◆ Brunei Darussalam
- ▲ Indonesia
- ✕ Lao PDR
- ✱ Malaysia
- Philippines
- Singapore
- Thailand
- Vietnam
- ◆ Myanmar

Source: TDRI May 2012



Service sector employment share

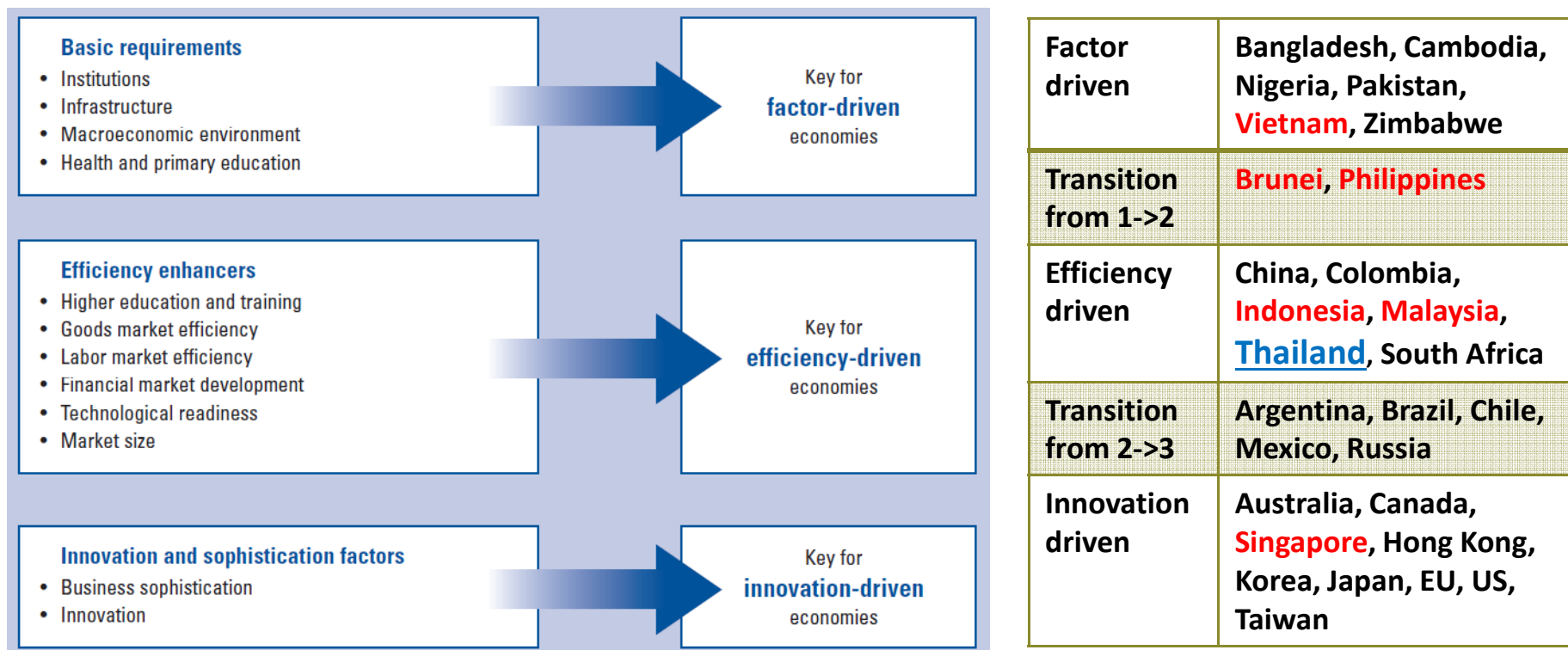


Service sector employs more labour than does industry. Growth in service sector can contribute to employment and national income.

Source: TDRI May 2012



Most developed economies = innovation-driven



	STAGES OF DEVELOPMENT				
	Stage 1: Factor-driven	Transition from stage 1 to stage 2	Stage 2: Efficiency-driven	Transition from stage 2 to stage 3	Stage 3: Innovation-driven
GDP per capita (US\$) thresholds*	<2,000	2,000–2,999	3,000–8,999	9,000–17,000	>17,000

Key AEC Principles and instruments



Principles: Free(r) flow of goods, investments, capital, skilled labour, services

Instruments: ASEAN Charter

ATIGA (Trade in Goods)

ACIA (Comprehensive Investment)

AFAS (Services)

Overall: Skewed around goods; Tariff barriers almost all removed – NTBs aplenty



AFAS – Expected foreign equity levels



	Air Transport. e ASEAN. Healthcare. Tourism.	Logistics	All remaining Service sectors
2008	51%	49%	49%
2010	70%	51%	51%
2013		70%	51%
2015			70%

-----Priority sectors-----

Competition for skills and capital – will we be ready?

2013 – slow progress with eGov (eASEAN) but Thailand leading a co-ordinated effort.



AEC Blueprint & Scorecard



The measure is “implemented”

Is it?



Liberalisation of services – applied to ICT



General

Liberalise foreign equity limits

Free movement of skills (talent).

Sector specific changes and mandates

Other sector-specific reforms

ICT – esp Info-Comms

Probably in a structured way

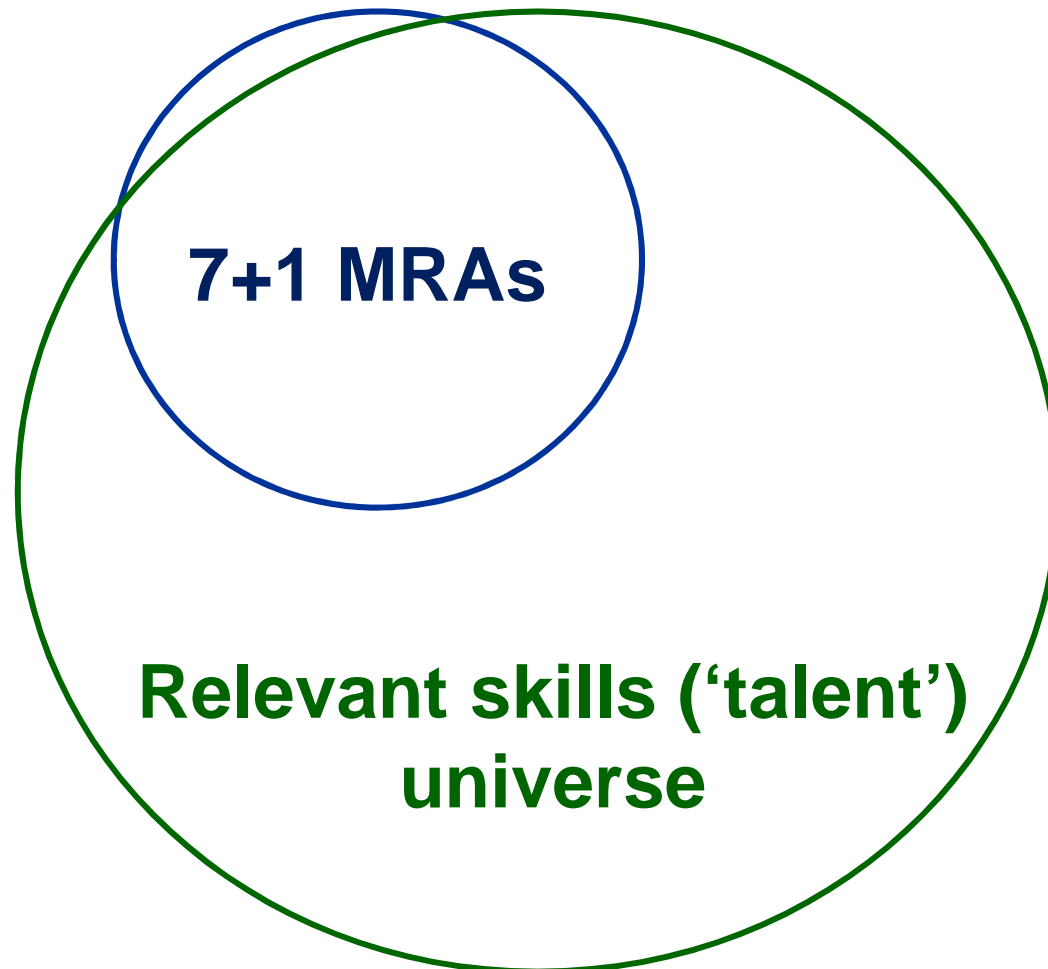
Especially specialist skills (technical and non technical)

Permits, licences and operating rules not skewed against new entrants (local or foreign); remove targeted anti-foreign laws

Structural change – access to facilities, query role of SOEs.



Skills ('Talent') - 1



Mode 4 (people) approach.

Little on mode 3 (commercial presence) – people needed to work the investment

MRAs are currently almost completely irrelevant to ICT skills universe. Even within MRAs, barriers (beyond competency tests) and gaps exist



Skills ('Talent') - 2



Licensing of IT skills is not recommended – not necessary as the marketplace is quite effective

IT Competency framework is useful however.

Work permit and visa issues impair skills effectiveness in the economy – anti-knowledge economy barriers.



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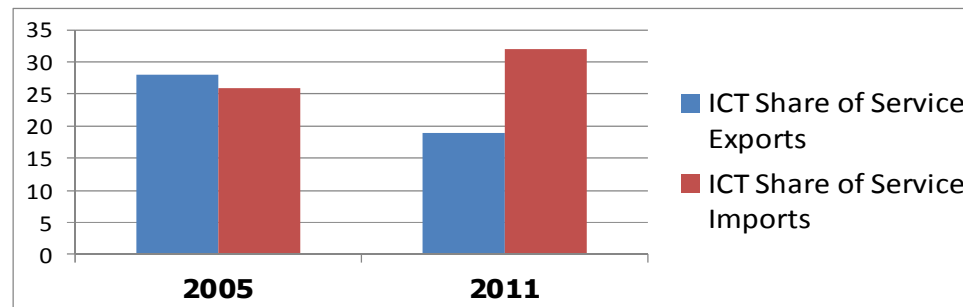
Unlocking ICT – telecoms focus

- ICT - 10% of Thailand's GDP
- Engine of innovative growth

= productivity ↑ knowledge ↑ business efficiency ↑

Mobile pen >110%, broadband 5%

- Thailand



NRI Rankings – Thailand



59th (2011) → 77th (2012) → 74th (2013)

Networked Readiness Index 2013 74th (out of 142)

A. Environment subindex.....	60
1 st pillar: Political and regulatory environment	81.....
2 nd pillar: Business and innovation environment	52....
B. Readiness subindex	63
3 rd pillar: Infrastructure and digital content	71....
4 th pillar: Affordability	45....[slipped from 33].
5 th pillar: Skills	76....
C. Usage subindex.....	83
6 th pillar: Individual usage	88.....
7 th pillar: Business usage	63.....
8th pillar: Government usage	86. ...
D. Impact subindex	88
9 th pillar: Economic impacts	108.[near bottom].
10th pillar: Social impacts	67. ..

Source: 2013, WEF, INSEAD



Within ASEAN, Thailand (74th) leads a group of four members that do not leverage ICTs to their full potential. Trailing by more than 70 and 40 places behind Singapore and Malaysia, respectively, Thailand exhibits a number of weaknesses across the board. The highlights of its performance are the relative affordability of ICTs (45th) (2012 33rd), in particular mobile telephony, and the quality of its business and innovation environment (52nd). However, in this latter category as elsewhere, Thailand alternates good and poor assessments. Aside from mobile telephony, other technologies remain relatively scant, translating to a middling 88th rank in the individual usage pillar. Also the institutional environment does not seem to be particularly conducive (81st) and the government does not appear to be particularly ardent at pushing the digital agenda nationwide (86th). In this dimension, the satisfactory ranks obtained in both the Government Online Service Index (64th) and E-Participation Index (46th) conceal relatively low marks (0.51 and 0.32, respectively, on a 0-to-1 scale).

BSA Cloud Scorecard

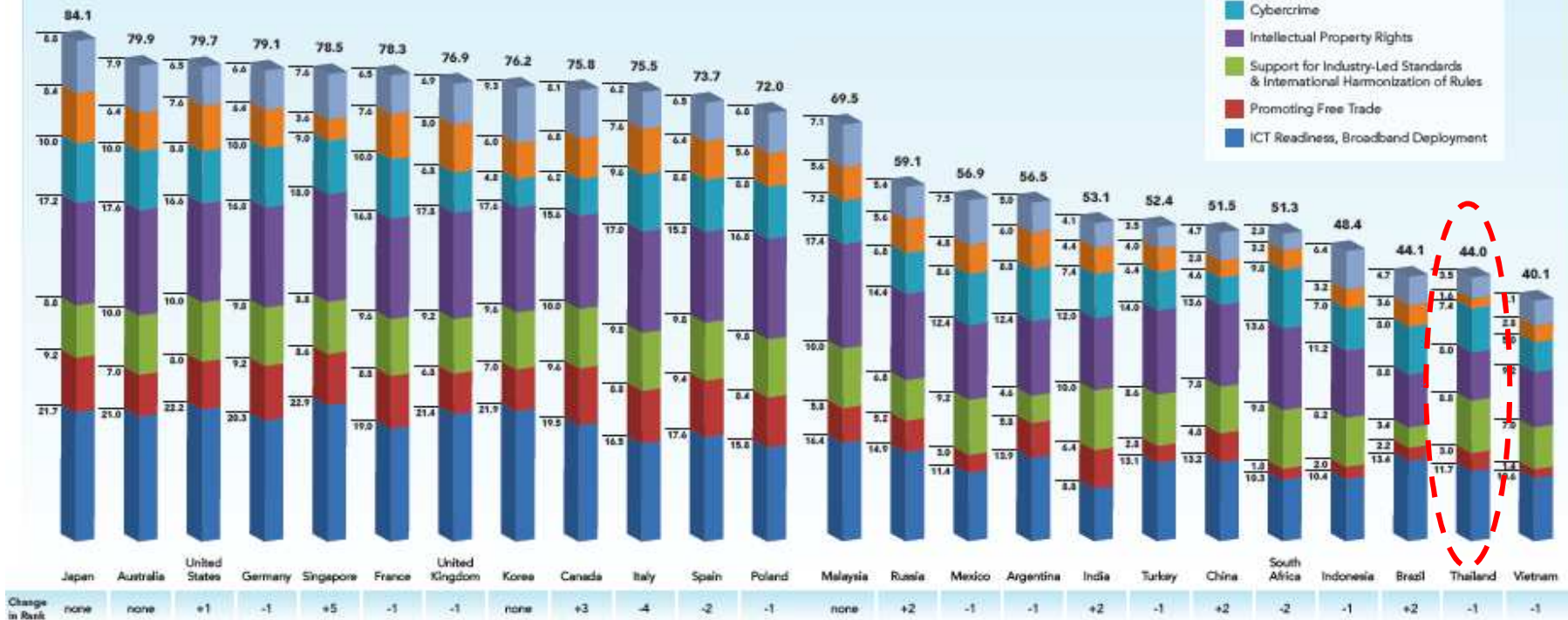


2013 BSA Global Cloud Computing Scorecard

Several countries have made marked improvements in the policy environment for cloud computing in the past year. These findings are based on the BSA Scorecard's one-of-a-kind examination and ranking of 24 countries that account for 80 percent of the global ICT market.

7 KPIs

- Data Privacy
- Security
- Cybercrime
- Intellectual Property Rights
- Support for Industry-Led Standards & International Harmonization of Rules
- Promoting Free Trade
- ICT Readiness, Broadband Deployment

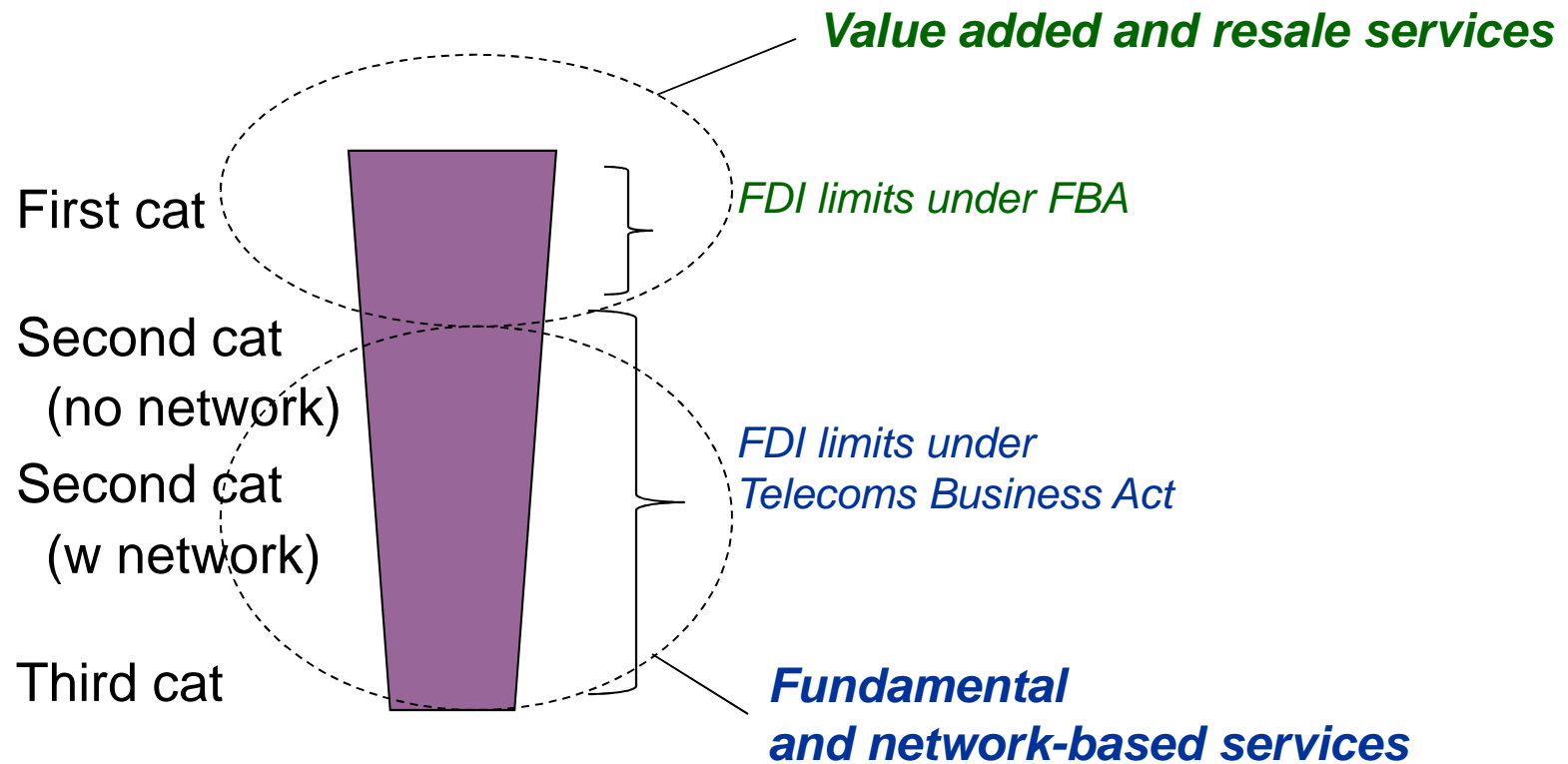


24 economies representing 80% of the world's IT spend

Source: Business Software Alliance 2013



TBA Distinction between categories



Structure anticipated by the TBA is sound



Telecoms status



Progress with

- 3G issuance – direct licensing
- Regulations for operator interworking
- Frequency management legislation – move away from concession era



Telecoms status



BUT:

Industry structure an impediment:

- No real wholesale market
- SOEs aiming to keep spectrum, prolong concession era . Ministry supports this; NBTC?
- SOEs not evolving to be competitive contributors
- Price competition but lacking in service & innovation competition



SOE Evolution



1. Government department
2. Corporatisation (we stalled here early this century)
3. Ownership & operation not linked to any government dept/agency
4. Privatisation (at least partial)
5. Transform & reform to become competitive, contributive players

Pain in the process, cannot be avoided in long run



SOE Evolution & The Industry



Strengthen: nimble, competitive

Invest overseas.

Examples: BT, TM (Telecom Malaysia), Singtel, Telstra,
Q Tel (Oredoo), PLDT, AT&T

Policy = about industry as a whole, not about SOEs just
because state-owned. They cannot be the
implementers of policy – whole industry must be



Foreign Dominance Notification



Applies to all cat 2 and cat 3 TBA licensees. Originally made by NTC in last few days in office (Aug/Sep 2011), revised by NBTC – reissued July 2012.

September 2012: Norway, supported by US, EU & Japan – action in the GATS Council for Trade in Services

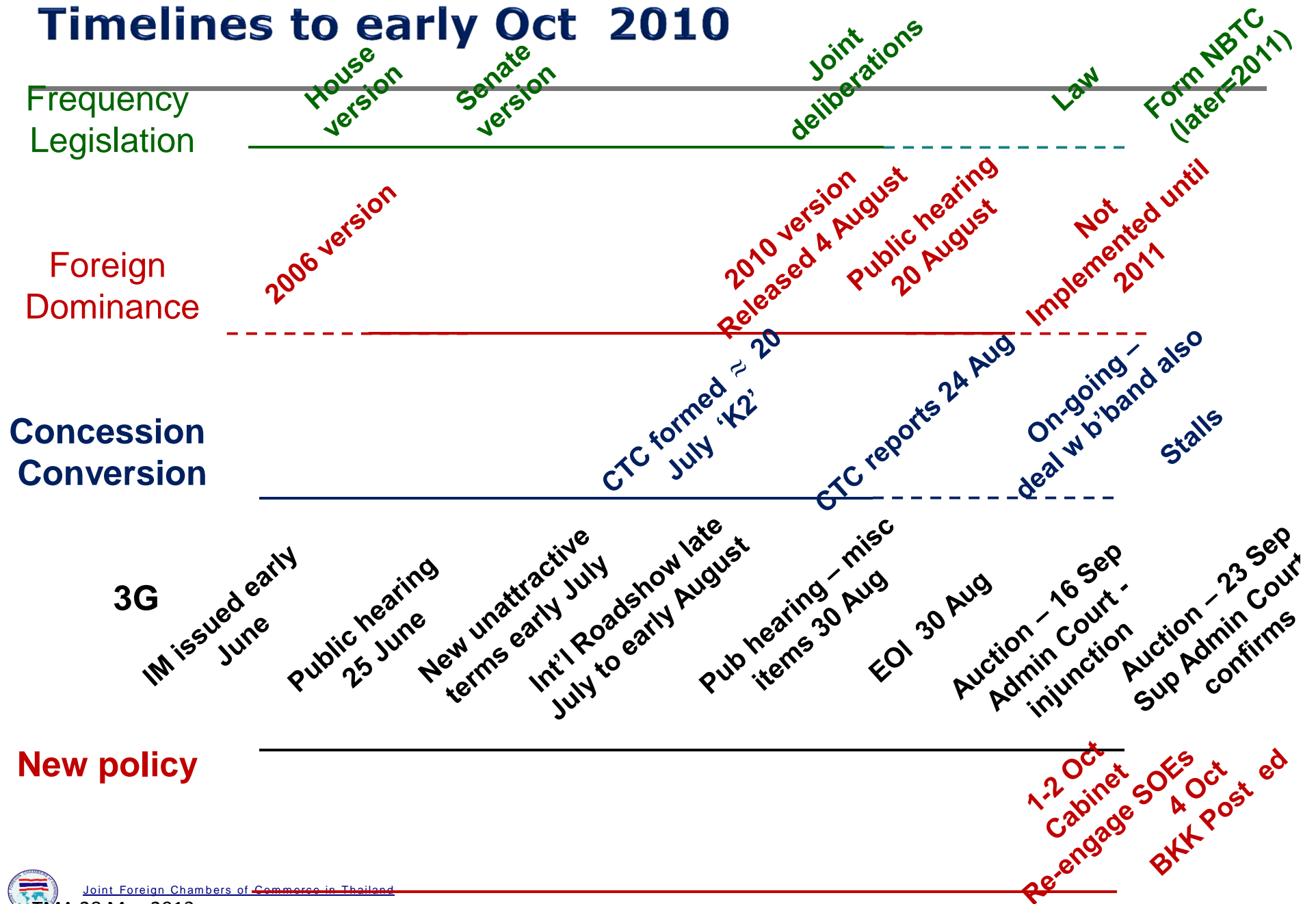
Message: *“Foreign investment not really welcome in the sector”*

Two main reasons for lack of additional bidders in 3 auction 2012:

- Regulatory certainty missing at the time
- Foreign Dominance Notification



Timelines to early Oct 2010



BKK Post editorial 4 Oct 2010



“The government has set back national telecommunications policy more than a generation. The cabinet decision to re-engage the TOT-CAT Telecom duopoly marks a retreat in the treatment of taxpayers, consumers and business investment. Far from a step ahead, this decision moves us backwards. “



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BSA Cloud Computing Scorecard 2013



7 indicators to rank the world's 24 nations representing 80% of the global ICT market ranks Thailand at 23rd / 24. (N = 24)

Indicators include broadband deployment, data protection regime, security, services etc.

NRI and BSA scorecard (see earlier)

show Thai economy is growing but ICT continues to lag relatively



A thriving sector

Creativity vs Innovation

But :

IT competence

Skills

Employment & Immigration

IT Start Ups

Procurement practices

Low % of GDP on R&D

IT – issues - 1

IT competence:

**Technical, Soft skills (problem solving, project management),
Business Strategy**

***Skills & education/training* : is the English good enough? –
Rote learning an impediment? Innovation**

***IT Start Ups* – availability of funding? (good initial development
but funding and IPR issues means that the venture often goes
offshore. We need the “Made in Thailand’ brand**

***R&D:* Thailand well under OECD average and low globally**

Employment & Immigration: restrictive work permit, visa rules

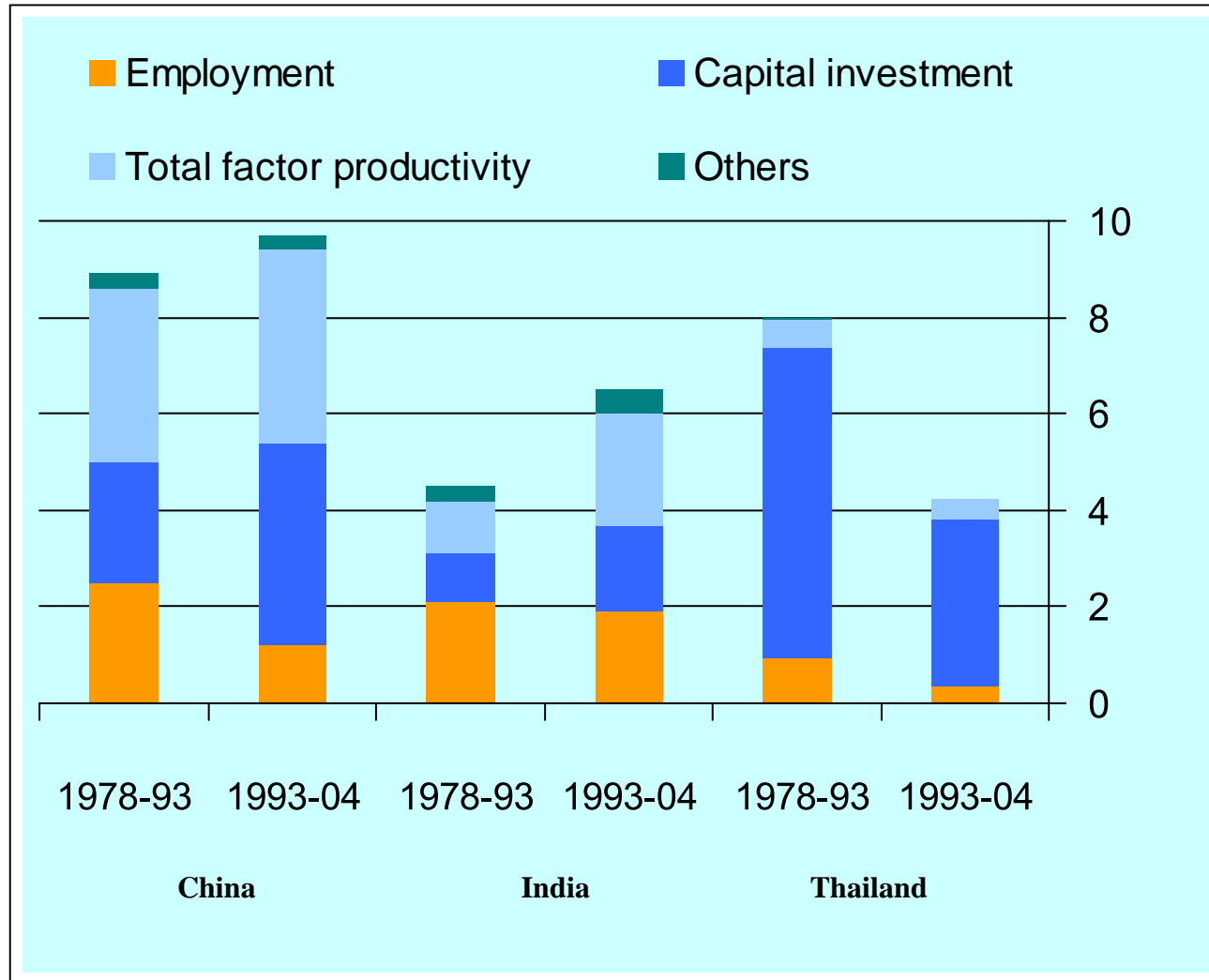


Procurement practices:

- **eAuction (allowing price performance evaluation)**
- **Unlimited liability in govt procurement**
- **Clear KPIs for acceptance (transparency)**
- **Open standards and interoperability**
- **Type Approvals – recognise global labs' certs.**



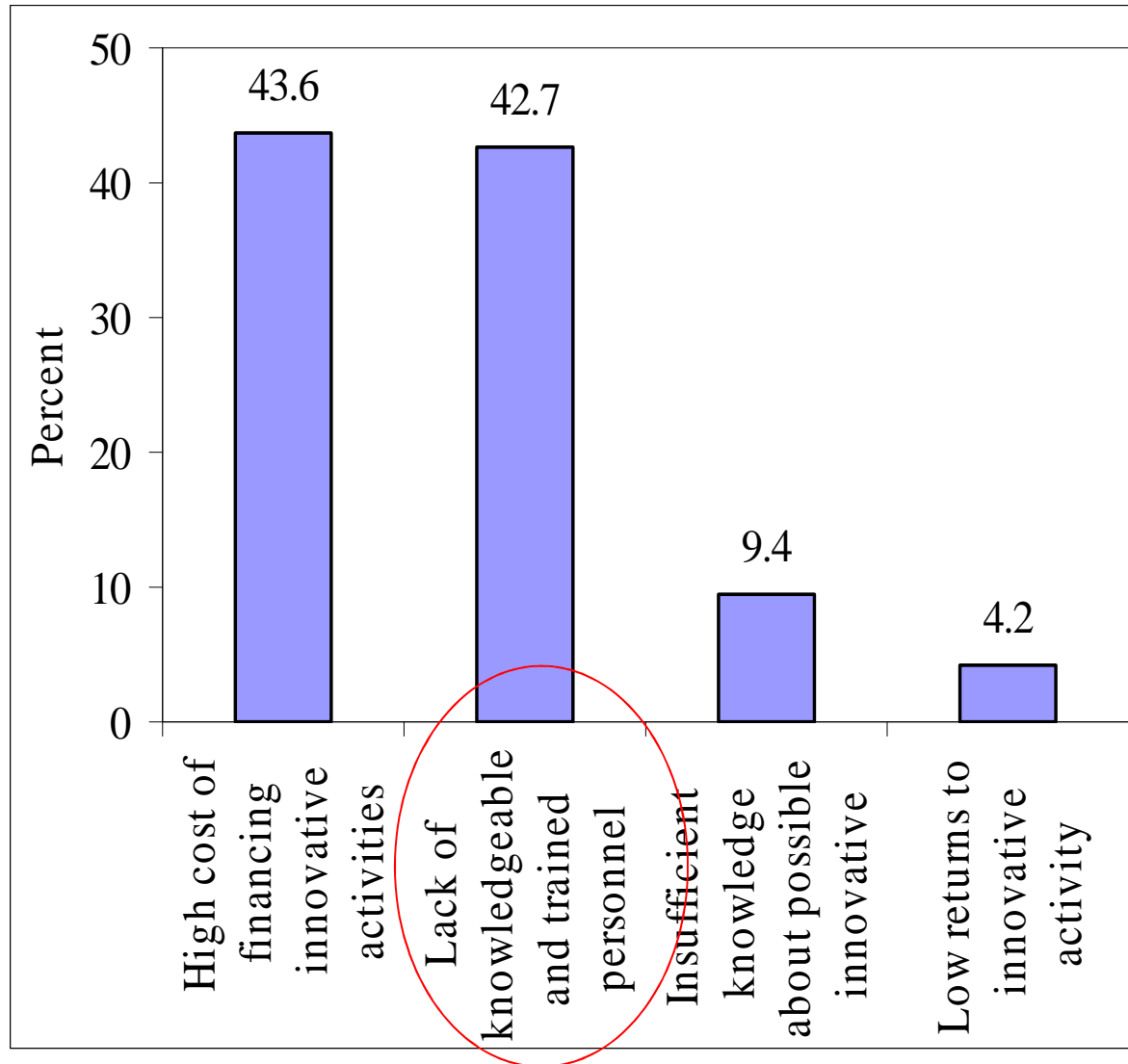
Capacity in Economy – source of GDP growth



[Joint Foreign Chambers of Commerce in Thailand](#)

Source: World Bank Thailand – investments seminar July 2008

Why innovation actions not taken



Source: World Bank Thailand – investments seminar July 2008. Thailand study - % of firms



Innovation – measured how?



**Number of patents registered –
(eg Global Innovation Index, others)**

Value of Patents realised

**Qualitative, anecdotal and ‘brand’ factors –
eg recognition of ground breaking innovations.**

**Creative industries’ output is not all reflected
in recognised forms of IP, but much will be**



Centres of Innovation - hubs

Good soft and hard infrastructure

- ports, airports, communications, real estate, local transport
- Sound legal and financial systems, IP protection, sound regulation and procedures, fair playing fields promoting free and fair competition

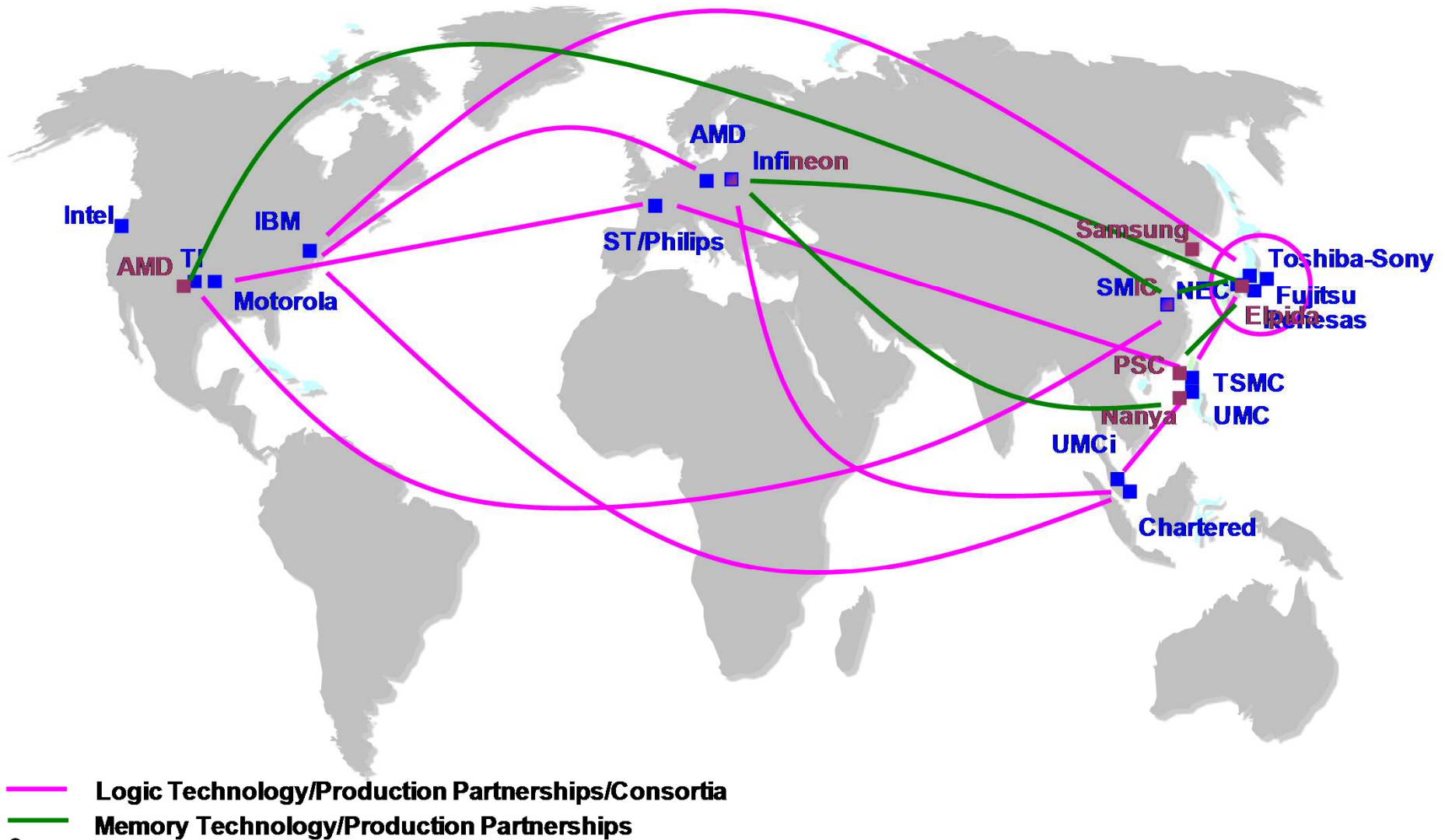
Pro-business polity; Favorable government policies, economic stability

Skilled, educated workforce

Global linkages with low cost, efficient logistics

- Specialized business service infrastructure: VCs, lawyers, dispute resolution, accountants, etc.
- High quality of life (safety, education, personal development) and creature comforts for families; stimulating cultural offerings

Multi-region production partnerships (example of the need to collaborate and locate multi-locally)



Source:

William F Miller - Herbert Hoover Professor of Public & Private Management Emeritus, Stanford University
 President and CEO Emeritus, Stanford Research Institute (SRI) International in 'New Regions of Talent & Innovation'

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Getting wisdom 1 - Recommendations



1. Fundamental structural issues in telecoms – SOEs, wholesale, NBTC independence, competition, foreign dominance regulation
2. Politically and socially tolerant – being innovative, creative, taking risks is OK
3. Low cost reliable broadband; , good services through sector liberalisation & resolution of industry structural issues.
4. IT as an industry and IT as a tool
5. Funding – especially private equity and VC – welcome the money and talent – a “Made in Thailand” brand. Away from ‘lazy capital’
6. Free movement of skills – labour & immigration roadblocks; liberalise some service sectors (“Made in Thailand” brand)
7. Education - Teach IT soft and hard skills, national or regional IT competency framework. English as the language of IT at secondary level, not as the rich kid’s language.



Getting Wisdom 2 - Recommendations



9. Procurement practices reform
10. A Data Protection Law dealing with cross border flows
11. Fully liberalise international gateways
12. Collaboration : university – industry – (teaching and research dimensions); peer-to-peer collaboration; regional collaboration; massive large scale global collaborations on large projects; smaller local collaborations
13. IP protection
14. A sense of urgency – waiting for ASEAN economic integration – reactive only, will not work. Proactive about AFAS, ASEAN ICT Masterplan, Connectivity
15. A change to mindset about the industry as a whole “Bring your skills and capital here - a “Made in Thailand” brand.
16. A change of mindset away from rent-seeking. Government as policy maker, independent regulator (NBTC).
17. Wisdom about how to interoperate, collaborate, compete. This sector can shine!

Source: Presenter

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Source: JFCCT/Presenter

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Thank you



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