

IT Governance Maturity 2010 Survey at State Owned Enterprises

Arrianto Mukti Wibowo, M.Sc., Dr*, CISA, CGEIT*
IT Governance Lab, Faculty of Computer Science
University of Indonesia
amwibowo@cs.ui.ac.id, 0856-8012508
*) cand.

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About The Speaker

Mukti is a senior researcher at the IT Governance Lab UI. Apart from his job of managing daily activity of the lab, he also works the Principal Consultant at Pusilkom UI and had lectured at Magister of Information Technology University of Indonesia.

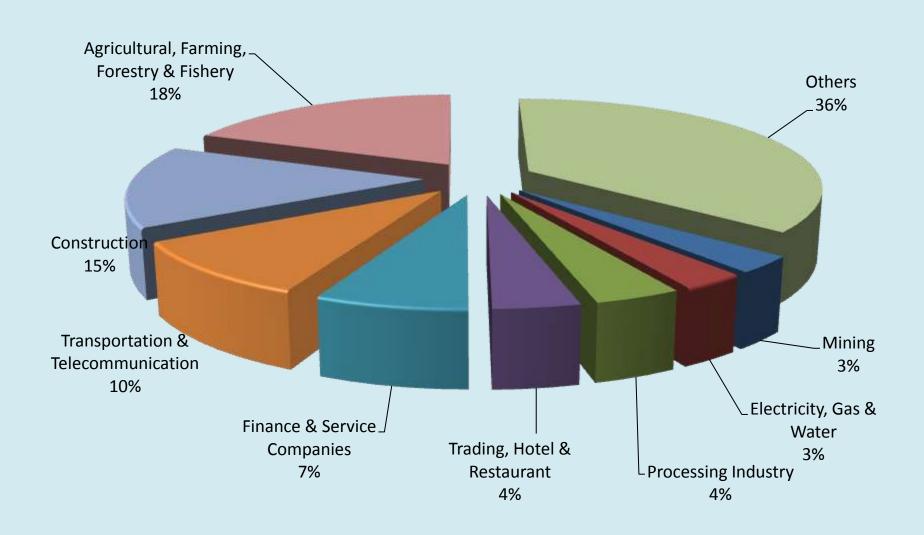
He received his computer science bachelor degree from UI and his M.Sc. Degree from School of Computing, National University of Singapore. Mukti is currently a doctoral candidate in IT Governance at University of Indonesia. He is an active Certified Information Systems Auditor and had also passed the Certified in Governance of Enterprise IT exam in 2009.

His expertise is on IS/IT strategy, strategic IS/IT planning, IT Governance, strategic management, balanced scorecard, and information risk management. He has consulted & led numerous successful client-acknowledged IT Planning projects.

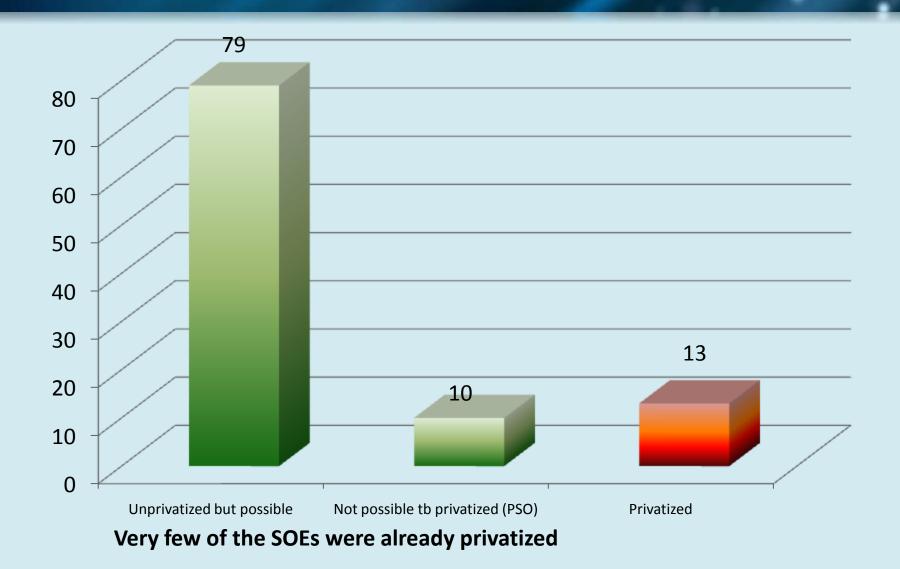
His works can be freely accessed as Information Systems Free Open Courseware at http://itgov.cs.ui.ac.id/wikimuki.htm



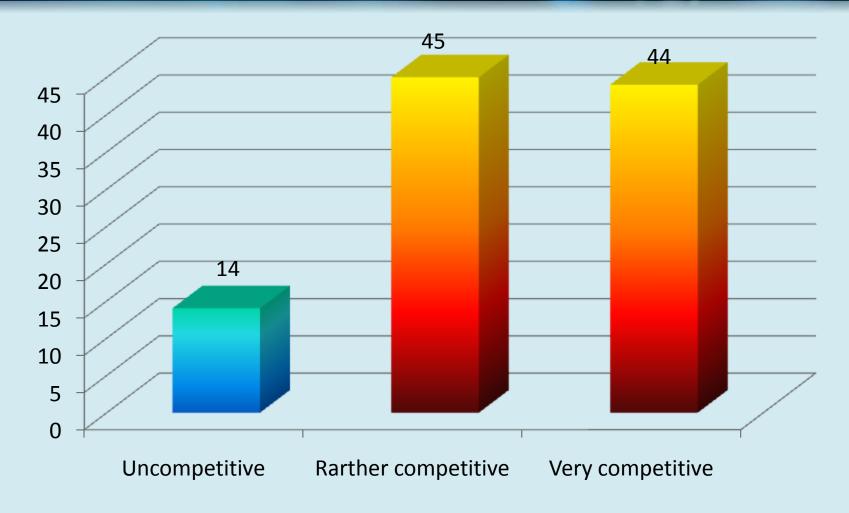
Demographics Based on BPS' KLUI



Privatization Status

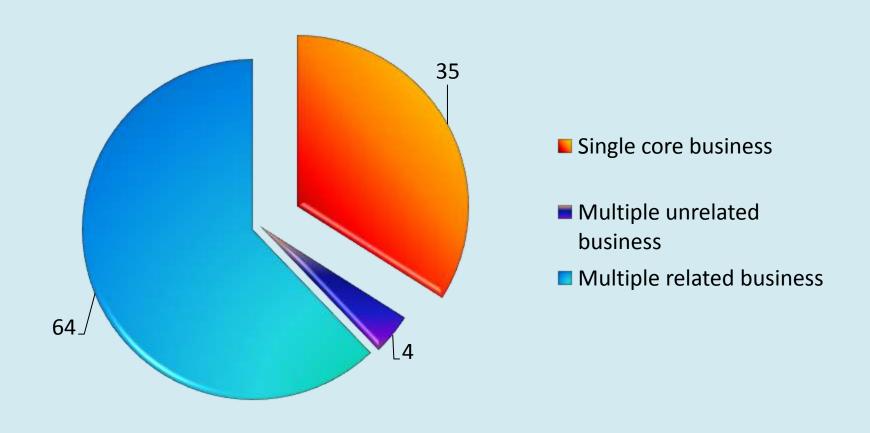


Business environment competitiveness



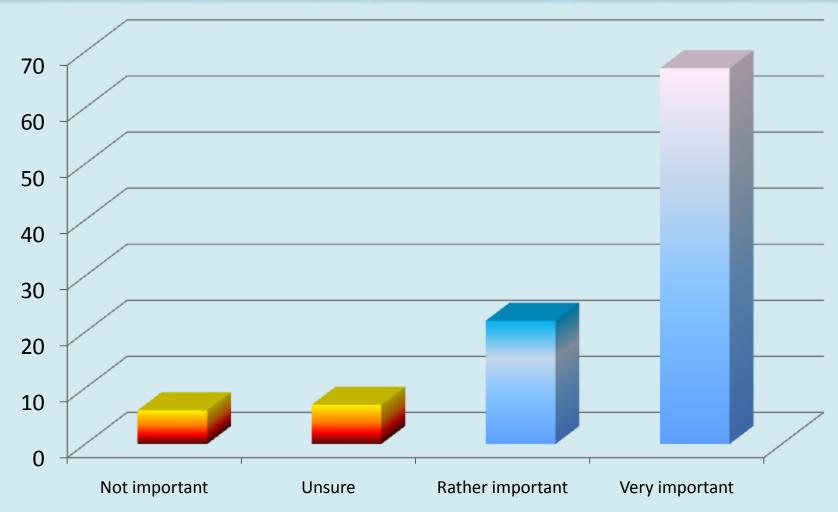
Most SOEs are now in the 'free market' environment...!

Span of Business



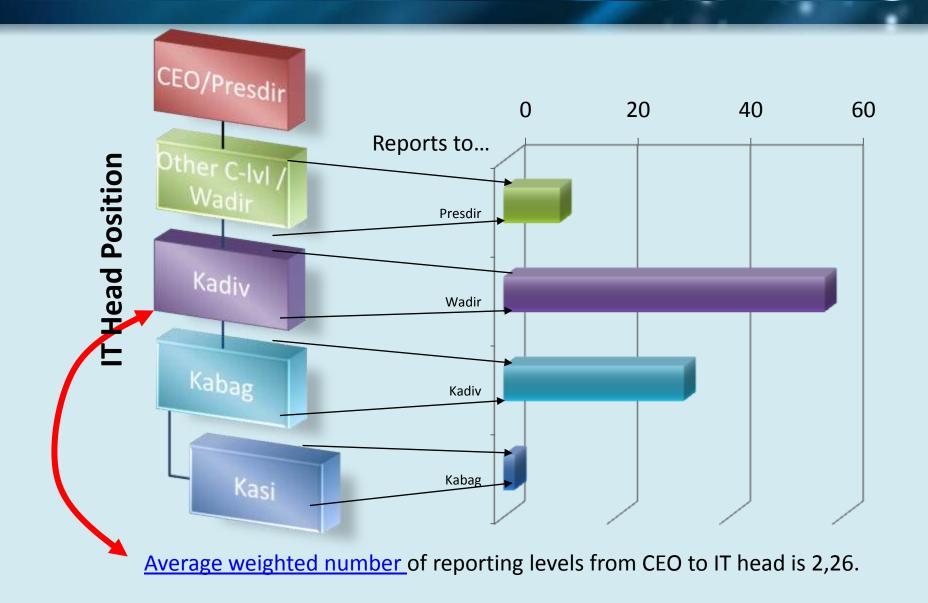
Most SOEs had multiple business unit

Importance of IT to support corporate strategy



Most of the SOEs thought that IT is important to support corporate strategy

Where do IT Head reports to?



IT Steering Committees

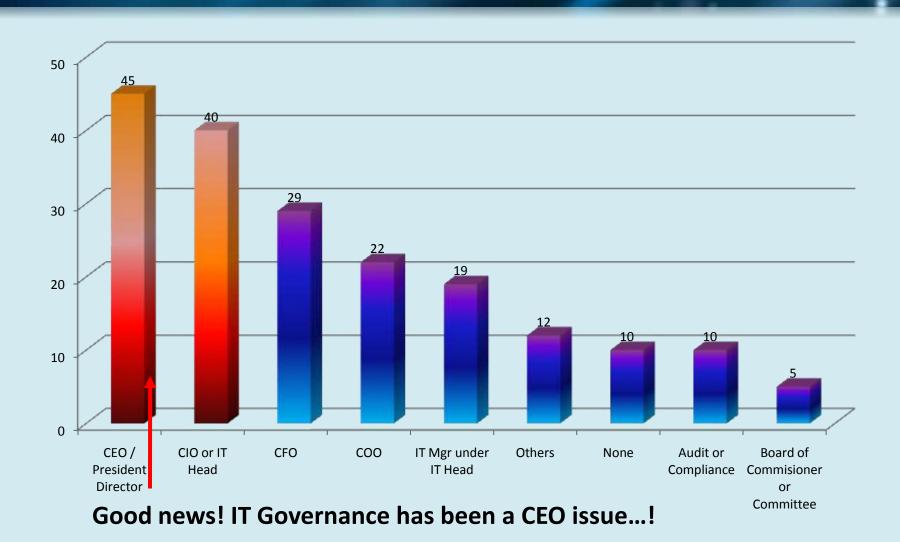
- Less than a third (29,4%) of the respondents do not have a formal IT Steering Committee.
- Only 2,9% or 3 cases where they <u>do not</u> <u>understand</u> what an IT Steering Committee is.
- Member of IT Steering Committee:
 - Board of Directors ('Dewan Direksi') 39,2%
 - IT Head 38,2%
 - Functional business area 19.6%
 - Business units 7,8%

IT Strategy Committee

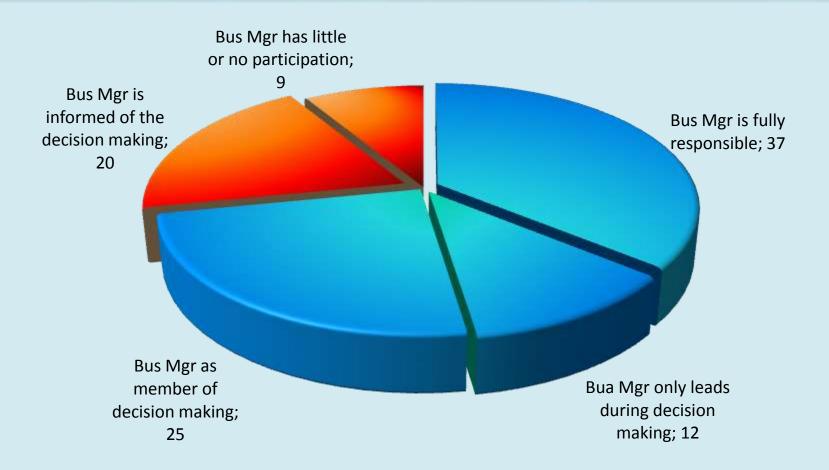


- About half of the organizations surveyed <u>do not</u> <u>have</u> an IT Strategy Committee or its <u>function is</u> <u>embedded in IT Steering Committee</u>.
- IT Strategy Committee at SOEs are dominated also by IT unit head (40 cases) and directors (35 cases).

Who championed IT Governance?

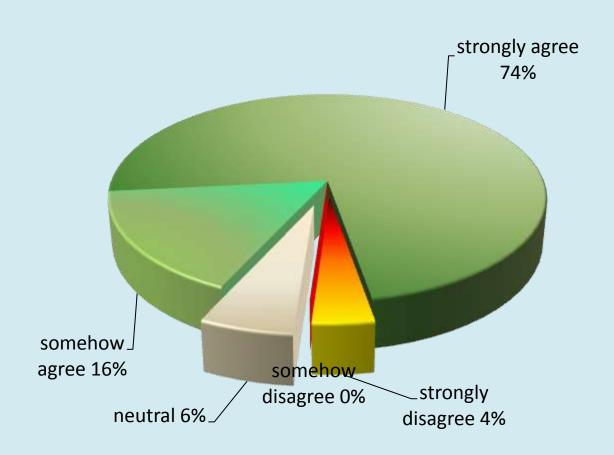


Business manager participation in ITenabled business initiative



Most business unit managers are involved actively in IT-enabled business initiatives decision making

Has IT brought value?

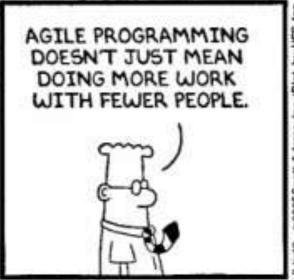


Most of the respondents claimed that IT has brought value

Problems Faced

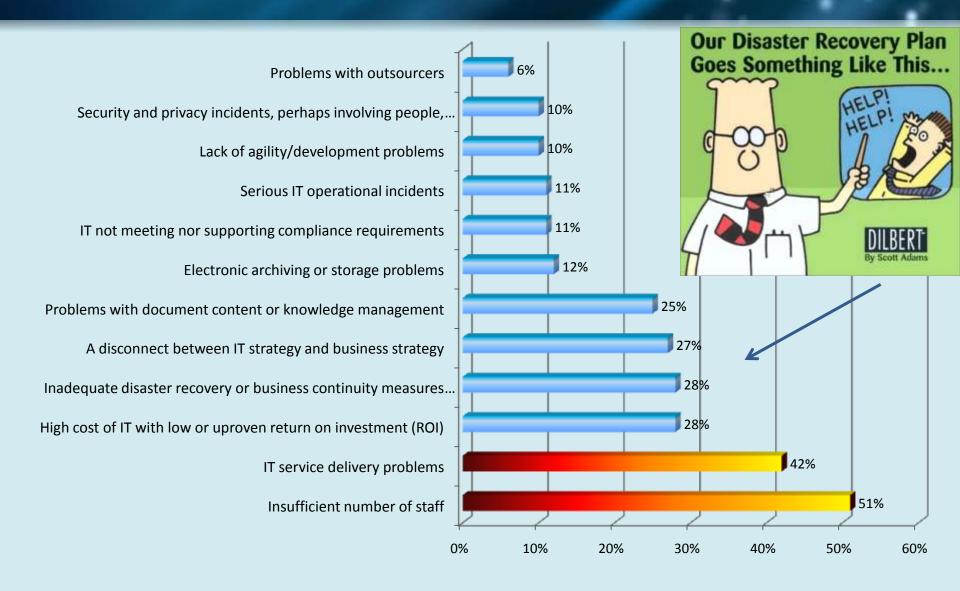
- Two top problems faced by SOEs:
 - 1. Insufficient number of staff
 - 2. IT service delivery problem



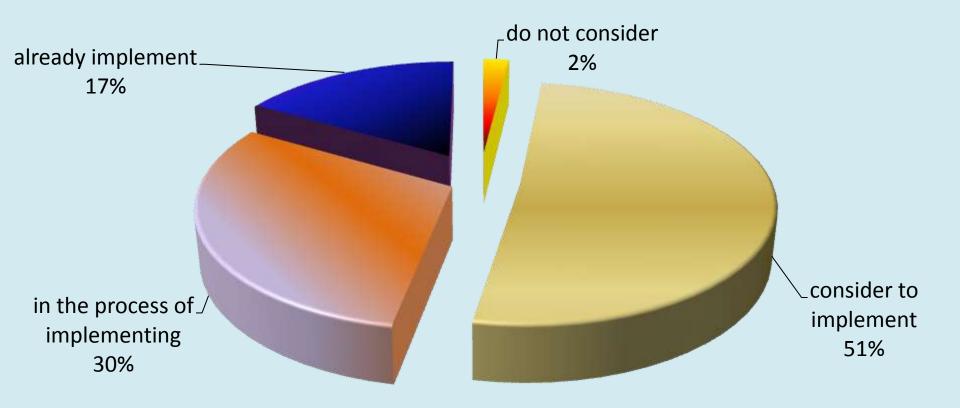




Problems Faced



Have implemented IT Governance?



Only less than half were already implementing or in the process of implementing.

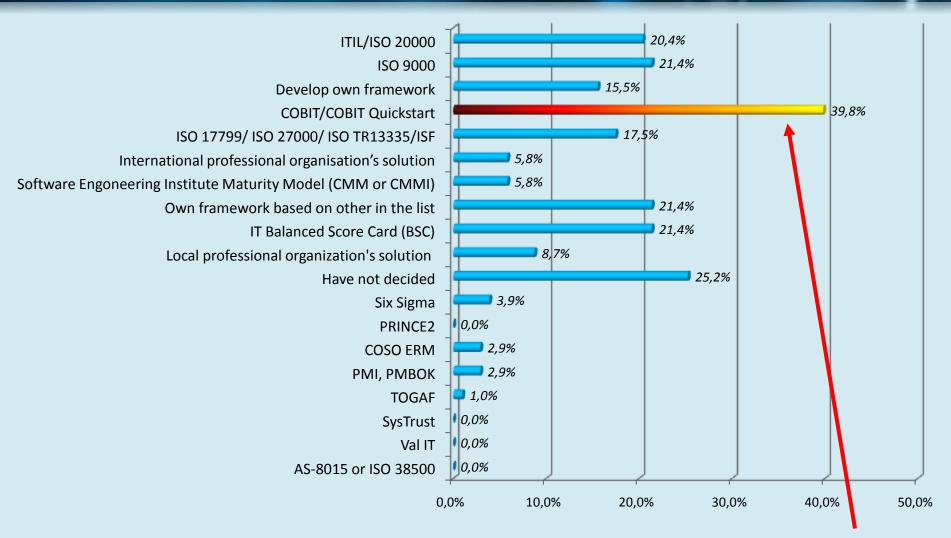
Wrong KPI, wrong outcome...

(we actually found one at one SOE)



IT Governance process standars should help...!

IT Governance Frameworks Used



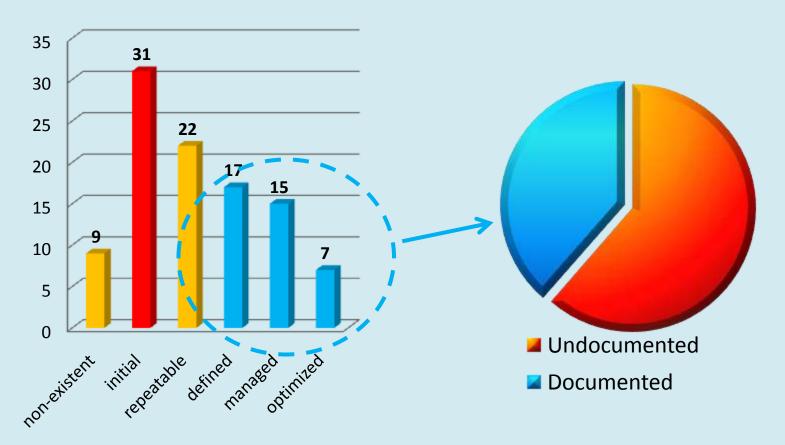
COBIT was the most popular IT Governance framework used among SOEs

IT investment practices/processs

IT Investment Related Process	Cases	Pct of Cases
Continuous improvement exists of value delivery practices	70	68,6%
IT-enabled investments include the full scope of activities that are required to achieve business value.	44	43,1%
IT-enabled investments are managed through their full economic life cycle.	31	30,4%
Key value metrics are monitored and deviations responded to	27	26,5%
Different categories of investments are recognised	25	24,5%
Accountabilities are established for capability delivery and realisation of benefits	23	22,6%
IT-enabled investments are managed as a portfolio	21	20,6%

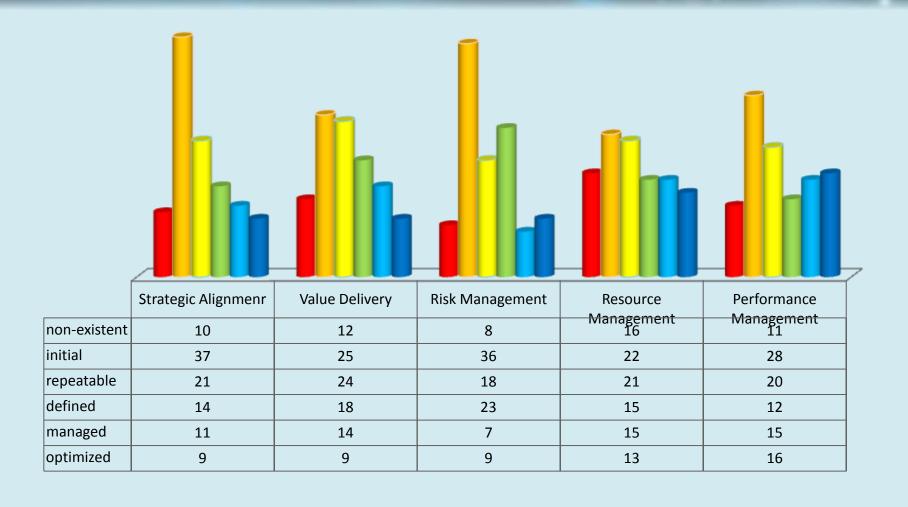
Most SOEs conducted CPI (continous process improvement) on its value delivery practices

IT Governance Control Objective Maturity



- Less than half documented their IT Governance, majority don't have any documentation.
- Many are still 'experimenting' IT Governance

and a more detailed perspective...



■ non-existent ■ initial □ repeatable ■ defined ■ managed ■ optimized

IT Governance vs Health Status ('Kesehatan BUMN')

(Health status taken from official 'Ikhtisar Laporan Keuangan BUMN 2009 Audited')

		Documented I		
		Undocumented	Documented	
		process	process	Total
Recoded Health	Not or rather healthy	20	2	22
Level	Healthy	50	2 6	76
Total		70	28	98

- It is uncertain whether IT Governance will effect SOE health status.
- But, Good Corporate Governance (GCG) might be a requirement for Good IT Governance

Importance of IT vs Market Competitiveness

	Unimportant	Not sure	Rather important	Very important
Uncompetitive	0	2	1	11
Rather competitive	3	3	14	25
Very competitive	3	2	7	31
Total	6	7	22	67

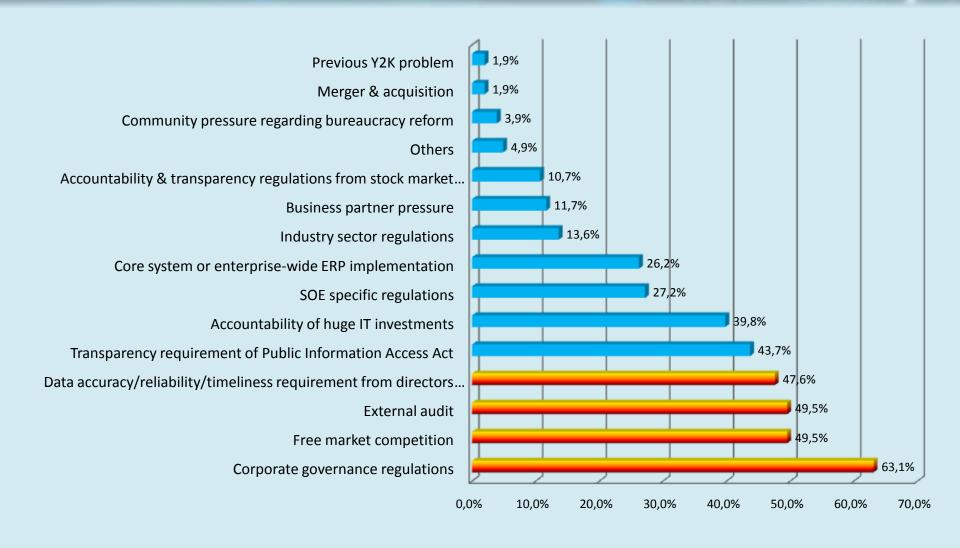
It is not just market that drives the need for IT, but other forces or drivers are also working.

Top Drivers of IT Governance

- 1. Corporate governance regulations
- 2. Free market competition
- 3. External audits
- 4. Data accuracy/timeliness requirements



Drivers of IT Governance

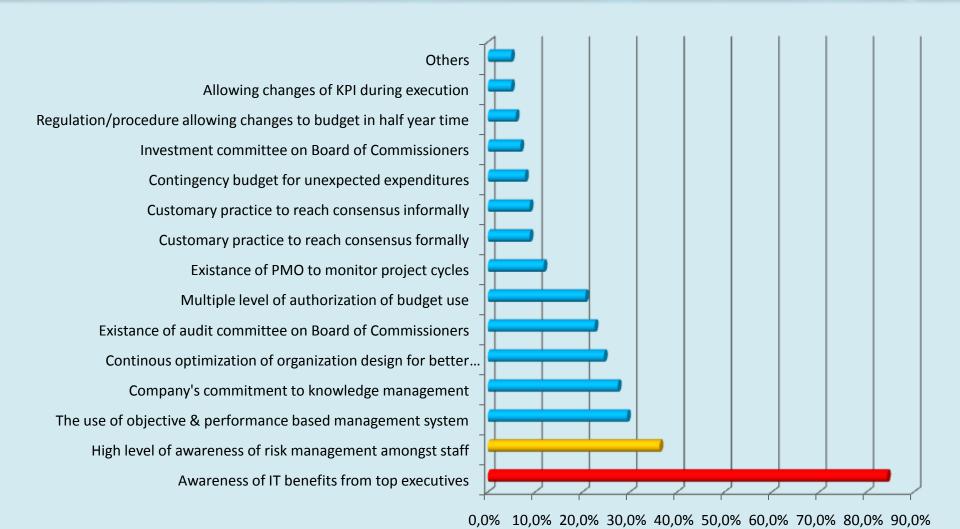


Top IT Governance Enablers & Inhibitors

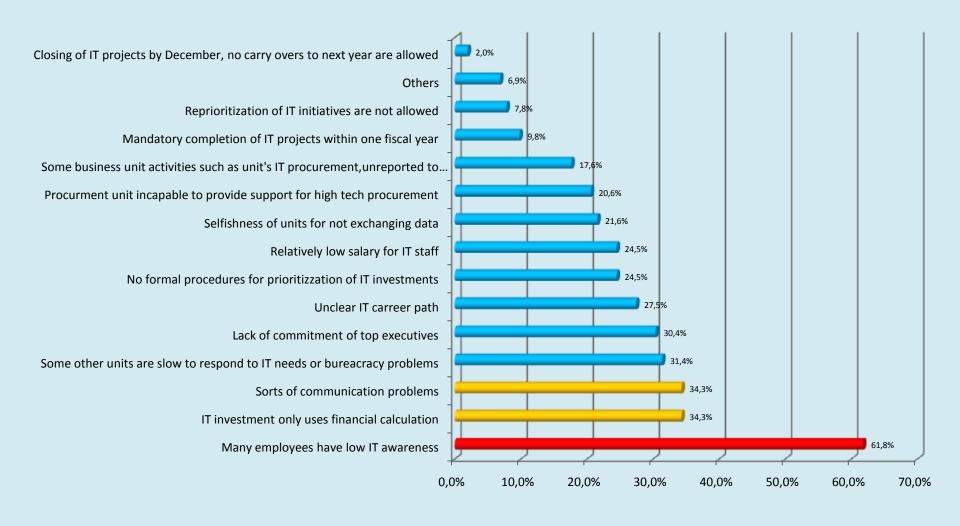
- Top IT Governance Enablers:
 - Awareness of IT benefits from top executives
 - 2. High level of awareness of risk management amongst staff

- Top IT Governance Inhibitors
 - Many staff have low IT awareness
 - 2. IT investment only uses financial calculation
 - 3. Sorts of communication problems

Enablers of IT Governance



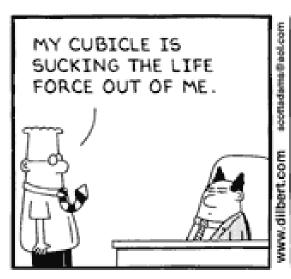
Inhibitors of IT Governance

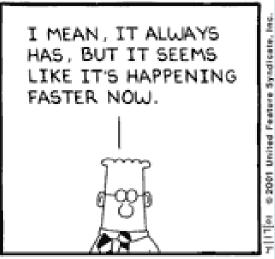


Do privatization leads to different IT Governance level?

Group Satistics

	Privatization status	N	Mean	Std. Deviation	Std. Error Mean
ME4	Unprivatized	89	2,0379	1,27650	,13531
	Privatized	13	3,2979	1,59946	,44361





It seems that privatized SOEs had higher IT Governance maturity level.

"But is it by chance or is it really different?"

Privatization caused Dilbert to...

Do privatization leads to different IT Governance level?

t-test for Equality of Means /w 95% confidence level

		t	df	Sig	. (2-tailed)	Mean Difference
ME4	Equal variances assumed	-3,21645	100		0,002	-1,26008
	Equal variances not assumed	-2,71694	14,31982		0,016	-1,26008

The means are significantly different (<0.05) for assumptions of either equal or unequal variance.



Privatized SOEs have higher IT Governance maturity level than unprivatized SOEs

Do number of drivers associate with IT Governance maturity?

Correlations

			ME4	Count of Drivers
Spearman's rho	ME4	Correlation Coefficient Sig. (2-tailed) N	1,000 102	,437(**) ,000 102
	Count of Drivers	Correlation Coefficient Sig. (2-tailed) N	,437(**) ,000 102	1,000 103

^{**} Correlation is significant at the 0.01 level (2-tailed).

Yes, the more the number of drivers acting on an organization, it is likely that its IT Governance maturity level will be higher.



Maybe, it is much better for the government to focus on pushing the drivers to increase IT Governance maturity at SOEs

Responsibility of Business Mgr vs Span of Business

	One co busine	Multiple related business	Multiple unrelated business uni	Total ts
Bus Mgr is fully responsible	14	23	0	37
Bua Mgr only leads during decision making	4	7	1	12
Bus Mgr as member of decision making	10	13	2	25
Bus Mgr is informed of the decision making	6	13	1	20
Bus Mgr has little or no participation	1	8	0	9
Total	35	64	4	103

Responsibility of Business Mgr vs Span of Business

 H_0 = there is no relationship H_a = there is a relationship

Chi-square test

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6,966	8	0,540
N of Valid Cases	103		

From Critical Values of Chi-square Distribution table, we find that the critical value when α =0,05 and df=8 is 15,51. Since the calculated value (6,966) is smaller than the criticall value, the null hypothesis is accepted.

Responsibility of business manager has <u>nothing to do</u> with span of business, they – in general – participated in the decision making

IT Governance Leads to Lower Risks

		Insiden/kecelaka			
		an serius pada			
		opera	asi TI		
		,00	1,00	To	otal
Documented IT	Undocumented	66	6		72
Governance	process		0		12
	Documented	30			30
	process	30			30
Total		96	6		102

Clearly better IT Governance leads to lower operational IT incidents

Some other findings

- It seems there is a slight indication that higher IT Governance level leads to lower varieties of IT Risks
- The more enablers working, the better the IT Governance seems.
- However, crosstabs showed that the number of inhibitors do not associate or correlate with IT Governance maturity

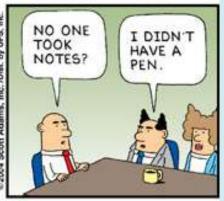
LESSONS LEARNED...

#1: Documented ('better') IT Governance as a symtomp of a healthy company

















Other lessons learned...

- #2: Lower your risk by governing IT properly
- #3: Best practice showed business manager participation & responsibility on IT projects
- #4: Make IT Governance the president director's issue
- #5: For regulating agencies (Ministry of SOE, Bapepam-LK, Bank Indonesia, etc.): to increase IT Governance maturity level of the regulated entities, it might be wise to focus on IT Governance drivers & inhibitors